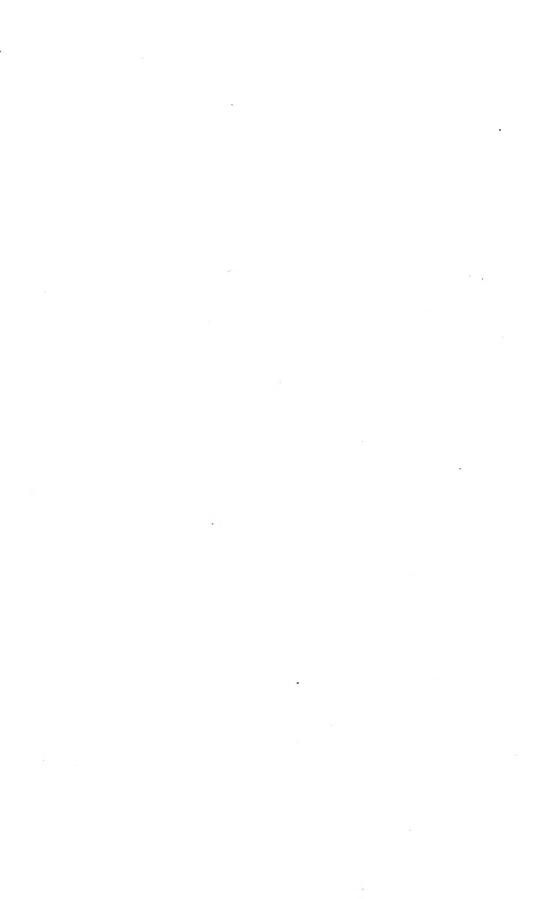


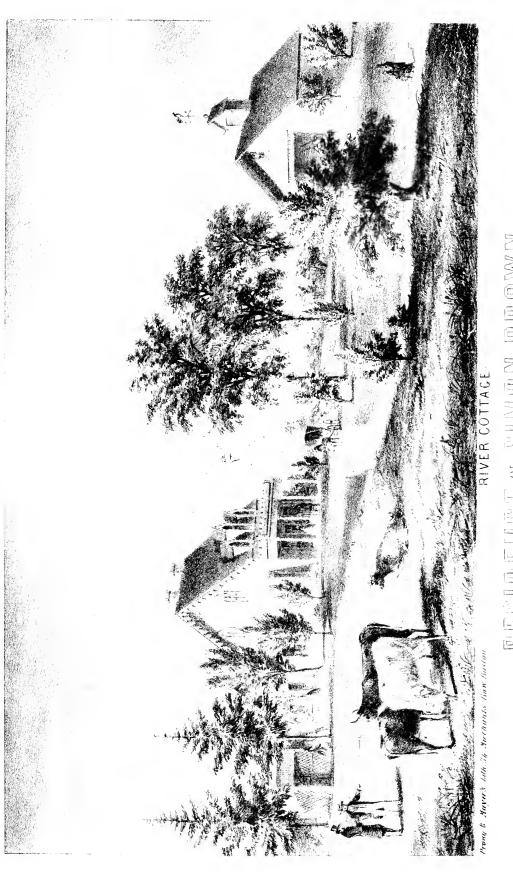
SPECIAL COLLECTIONS & ARCHIVES











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Concord, Massachusedts

NEW ENGLAND FARMER;

A MONTHLY JOURNAL,

DEVOTED TO

AGRICULTURE, HORTICULTURE,

AND THEIR KINDRED

ARTS AND SCIENCES;

AND ILLUSTRATED WITH NUMEROUS BEAUTIFUL ENGRAVINGS.

"What may not enlightened citizens accomplish, who have discarded the false, bustling pleasures of towns, and, carrying into the country the knowledge they may have acquired, apply to Agriculture the rich and varied assistance of the physical sciences?" — FOURCROY.

SIMON BROWN, EDITOR.

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DEVOTED TO AGRICULTURE AND ITS KINDRED ARTS AND SCIENCES.

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FRED'K HOLBROOK, Associate HENRY F. FRENCH, Editors.

CALENDAR FOR JANUARY.

"That our sons may be as plants
Grown up in their youth;
That our daughters may be as corner-stones,
Polished after the similitude of a palace;
That our garners may be full,
Affording all manner of store;
That our sheep may bring forth thousands
And ten thousands in our streets;
That our oxen may be strong to labor;
That there be no breaking in, nor going out;
That there be no complaining in our streets.

Happy is that people that is in such a case."

Psalms 144, 12, et seq.



ANUARY, it may be thought, has little to do towards producing that happy state things so forcibly expressed in the inimitable Psalms. But can it be so? Are not the snows and winds as much the messengers of God's will as fervent suns and refreshing rains?-Cannot June or July be omitted the cluster

Months as well as Janu-

It must be so. Then, welcome

to thee, January, first-born of the Months, and though cold and blustering thou may be, warm hearts shall receive and cherish thee, as being as important as though heralded by soft showers, gentle airs, or the singing of birds. That point being settled, let us talk a little about what naturally presses upon the mind at this season of the year.

In wishing "A Happy New Year" to our readers, we know not how better to improve the occasion, than by a few natural reflections.

Time and opportunities passed, cannot be recalled. The only use we can now make of the past year, is to hold it up to the mind's eye, as a beacon, to warn us against its errors and its follies, and encourage us to imitate its bright examples.

Dr. Kane, in the Journal of his Arctic Expedition, relates, that, on one occasion, the brig in which he sailed, being carried along irresistibly by the floating ice, was borne near an immenseiceberg, which seemed to be stationary, and against which the seamen were afraid of being dashed.

As they approached nearer, it occurred to them, that by making fast the brig to this leviathan, they might obtain safe anchorage and secure themselves against impending danger. They soon found, however, that they were still moving forward,—that the iceberg itself was carried along by the current.

So it is with the great stream of time. It sweeps everything before it, and is hurrying us all, young and old, rich and poor, learned and unlearned, bond and free, all, onward to the great ocean of eternity. We think to stay ourselves by making fast, -one to his farm, another to his merchandise, -one seeks anchorage in listless ease, another in luxurious dissipation,a third thinks to rise above the current on the popular breeze, and thus escape, -while a fourth labors to erect a golden tower, to which his barque may be made fast. But all in vain! Editors, subscribers and readers, have all been hurried along, through another revolution of time, and now, willing or unwilling, they are ushered into the vestibule of a New Year numbered Eighteen Hundred and Fifty-Nine.

We may as well now make a virtue of our necessity, and become reconciled to the idea of being carried irresistibly down the subtle stream of life, by the ceaseless "floe," and improve the experience of the past, by making the best possible

preparation in our power for the duties and dangers, the joys and sorrows, of the future.

But we need not be despondent. God rules among the nations of the earth. He has not led our forefathers from the despotism of Europe, to this wilderness, sustained them in their trials, in subduing the forests and the savages,-imparted to them wisdom to devise such a system of government as ours and given them ability and valor to defend it,-crowned the labor of their descendants with such success that this little one has become a great nation,—that this backwoods colony of but three million of inhabitants, has, in the short space of eighty-three years, so developed herself in all the elements of national greatness, as to be able now to compete with the proudest and most powerful nations of the old world,-as to do more to promote the arts of civilized life and diffuse the blessings of the gospel of peace than any other nation on the globe,-we do not believe, we say, that the Ruler of the universe would have thus signalized our nation, had He not other purposes to accomplish.

We may be punished and chastened, but the tree of liberty, which our forefathers planted, watered and defended with so much care and at so great sacrifice, will not be stricken down,—but will strike still deeper its roots, and extend still wider its branches, till a whole continent shall take shelter beneath its shade, and its leaves shall be for the healing of the nations.

To this end, the people, the yeomanry, the dwellers in the "rural districts," the readers of the New England Farmer, and their like, must realize that they are the legitimate rulers of the land, and act accordingly—must take the reins into their own hands, and by that conservative wisdom which has always been found in the masses engaged in rural life, guide on the nation to a state of civilization and power that has no parallel among all the republics or empires that have preceded it,—"when nations shall beat their swords into plow-shares, and their spears into pruning-hooks; when nation shall not lift up sword against nation, neither shall they learn war any more."

If we start upon the New Year with the determination to discharge every duty with fidelity and zeal, we shall soon find that *Home* is the rich treasury of earth, and that

"There is a power to make each hour As sweet as Heaven designed it; Nor need we roam to bring it home, Though few there be that find it! We seek too high for things close by, And lose what nature found us; For life hath here no charm so dear As home and friends around us."

WORK FOR JANUARY.

A good farmer's work is never done; that is, he can always find profitable employment, no matter what the season may be, or whether suns shine or storms beat. And in this he ought to find one of his principal sources of comfort and contentment.

This is not always the case with the mechanic; he may possess energy, health and skill, and sometimes be unable to find an opportunity to employ them, so that although he may command higher wages than the workman on the farm, it is quite often the case that the want of employment and the greater expenses for living to which he is generally subjected by his position, makes the average income of each more nearly equal than it is generally supposed to be. We have never yet known an instance where an active, healthy and skilful young farmer could not find profitable employment; but have often known such instances among mechanics-where they have travelled from place to place, and in the touching language of Burns,-

"Begging leave to toil,"

while the meal and the oil were swiftly wasting away at home, with little prospect that they could be again supplied.

Is it not true, then, that the certainty of employment ought to constitute one of the chief sources of contentment to the farmer? And now, in January, it may be amidst sharp winds, drifting snows, or freezing nights and softening suns, of deep ruts and miry ways, or of smooth and glassy roads over which man and beast pass with an exhibitant delight,—there are duties to be performed just as important as were those in the flush and beauty of summer.

If the cattle have been well tended, they have again assumed the plumpness and good looks which they had when first taken from the grass. They have become acquainted with their master, and seem to understand what any motion means that he makes in their presence; their ears, as well as eyes, are ever watchful, as they move toward the sound of his voice, or the rustling of the hay, the chopping of the roots or the dash of meal into the feed-trough.

Who cannot see expressions of gratitude in the countenance of the patient ox or gentle cow, or hear them in the cheerful "whinner" of the noble horse, as he remembers their kind services and ministers to their daily wants?

"Who abuseth his cattle, and starves them for meat, By carting or plowing his gain is not great; When he that with labor can use them aright, Hath gain to his comfort and cattle in plight."

The Barn should be kept neat in every respect—so that the cattle may lie upon clean litter,

a stream of cold air directly upon a cow or an weight of the carcass in quarters. Thus a sheep

cold draughts from coming up under the stock sheep, the greater the dead weight in proportion as it is lying down at night, and also to prevent to the live weight.—Genesee Farmer. manure from freezing, so that it may be overhauled or carted out during the winter.

Give the Horses a few carrots at noon, and they will soon show you a sleek coat. Cover return from work in a sweat.

dry sleeping rooms, if you mean to find a profit

meal; corn, oats, barley, scraps or bits of fresh wheat. It was harvested the following July, and meat, gravel or pounded oyster or clam shells. These, with a warm, sunny shelter, will please the best wheat exhibited. The next season the them so highly that they will yield you an abundance of excellent eggs.

cows immediately after being milked in the that you will have them next year.

Those of you who are blest with plenty of throwing its ruddy light into the glad faces of be repaid four-fold.—American Agriculturist. your healthy and happy children, will need no suggestion of ours, perhaps, to prepare it in season, and never to make the wife anxious and unhappy by attempting to burn it in an unseasoned state.

bering, that

"'Tis not in title nor in rank, 'Tis not in wealth, like Lon'on bank, To make us truly blest. If happiness have not her seat And centre in the breast-We may be wise, or rich, or great, But never can be blest."

twelve pounds of tallow. Had they been in bet-much necessity of using labor-saving machinery ter condition, they would have afforded a higher as the largest owners of broad fields. We conproportionate weight of carcass.

(ascertained after the sheep have fasted for twelve bune.

and breathe pure air. See that no cracks let in hours) is divided by seven, and this gives the ox while it is tied up and cannot get away from it.

The Cellar should be so tight as to prevent flocks to exceed this estimate. The fatter the

EXPERIENCE WITH MUCK.

In the summer of 1855 I had an upland lot, them with blankets for an hour or two when they preparing for wheat or rye, and having no funds to spare for the purchase of guano, bone dust, Let the Hogs and store pigs have warm and &c., I concluded to try what could be done at home. With a team and man we commenced drawing muck from a pond, and in four days had one hundred loads on two acres of ground. The Feed the Poultry with a variety of food; ground was again plowed, thus mixing the muck, boiled potatoes, mashed and mixed with cob and on the 15th of September was sown with when threshed and exhibited at the County Agricultural Fair, received the premium for being plot was sown with oats, and such a crop was rece of excellent eggs.

The ed out roots daily to all the stock; to milch out any other manure. This season we have put eight hundred loads on five acres, sown to wheat and rye, and expect to be able to give you and morning; to young cattle, dry cows, horses and the farming community as good a report, if not sheep, whenever it is most convenient. But if better, from the crops next summer. In addiyou have no roots-ah,-make up your mind tion to the above, on the first lot, we this summer cut, per acre, three tons of as good timothy hay as was ever housed, and up to this present writing, the feed is good, and cows easily fill wood, and can enjoy the luxury of good, cheerful themselves from it daily. Let every farmer, who wood fires, gleaming upon your hearths and can, try an acre with muck, and he certainly will

ANOTHER MOWING MACHINE WANTED .- It may sound a little singular to those who know the number of patents granted to hear us say that another is wanted; and each particular patentee, There is one thing more, at least, appropriate we suppose, will hoot the idea that we now adto the Month of January, and well worth remem- vance, when we assert that very much the larger portion of the farmers of the Eastern and Northern States are as yet unprovided with a machine suitable to their wants. There are thousands of farmers living in comfortable circumstances, that do not and should not keep but one horse, and yet the tendency of all mowing-machine inventors, with but the triffing exception, has been to cater for men who keep strong teams, such as can operate one of the heavy two-horse machines, only working half a day, and then changing for GROSS AND NET WEIGHT OF SHEEP.—A few a fresh pair or else over-work a single pair. years ago we ascertained the live and dead weight Now what we want, and it is what inventors of a large number of sheep slaughtered for the should turn their attention to, is a compact, light tallow near this city, and found that the carcass one-horse mowing machine, that can be afforded weighed about three-fifths of the live weight, at a price within reach of the large class who These were common sheep, affording only about keep but one horse, yet who are under just as not advise small farmers to buy large machines, In England, with the coarse-wooled mutton because we do not believe it would be profitable sheep, fatted for the butcher, it is generally esti- for mowing-machine manufacturers to give them mated that a stone live weight (14 lbs.) will give one suitable to their circumstances, which they a stone dead weight (8 lbs.) The live weight could and would afford to buy.—New York Tri-

THE GREAT FRENCH HENNERY.

With care and good management, no branch of domestic industry is more profitable than rearing poultry. Many persons have supposed that Uses are also found for the entrails—and in fact what is profitable on a small scale might be made no portion of the beast is wasted. still more so when carried on to a larger extent, but repeated experiments in this and other coun-course, and being cut into suitable proportions, tries have proved this to be a mistake. The selit is run through a series of revolving knives, the cret of the matter is, that hens cannot thrive and apparatus being similar to a sausage machine on lay, without a considerable quantity of animal food. Where but a limited number of fowls are of a homogeneous mass of mince meat, slightly kept about the farm-yard, the natural supply seasoned, into casks, which are instantly headed of insects is sufficient to meet this demand, up, and conveyed per railroad, to the egg plantaand hence, when attempts have been made to extend the business beyond this source of supply, they have not prospered. It will be seen by M. de Sora, has been at the average rate of from the following interesting account that twenty-two per day for the last twelve months, Mons. de Sora, of France, has adopted a method that has proved completely successful by afford-his arrangements, that he is enabled to make a ing an artificial supply of this essential portion profit on the cost of the animals by the sale of of food.

know how to make the most of things. A Mons. less than nothing delivered at his hennery. de Sora has recently discovered the secret of making hens lay every day in the year, by feed- of salt and ground black pepper to the mass, is ing them on horse flesh. The fact that hens do beneficial to the fowls, yet M. de Sora does not

living at the time upon an old diiapidated estate, with avidity; they are ever in good condition, a few miles from Paris, the acres having been and they lay an egg almost daily, in all weathers, bequeathed to him a few years previously-he and in all seasons. set himself earnestly at the task of constructing a hennery, which should be productive twelve built around a quadrangle, enclosing about twenmonths in the year. He soon ascertained that a ty acres, the general feeding ground. This latcertain quantity of raw mince meat given regular terms and the desired that only a limited number of fowls are allowed result, and commencing only with some 300 fermale fowls, he found that they averaged, the first different compartments according to age, no year, some twenty-five dozen eggs, each, in the bird being allowed to exceed the duration of four 365 days. The past season he has wintered thus years of life. At the end of the fourth year, they far, about 100,000 hens, and a fair proportion of are placed in the fattening coops for about three male birds, with a close approximation to the weeks, fed entirely on crushed grain, and sent the same results. During the spring, summer alive to Paris. and autumn, they have the range of the estate, but always under surveillance. In the winter, may be mentioned that in the months of Septemtheir apartments are kept at an agrecable temper-ber, October and November last, M. de Sora ature; and, although they have mince meat ra-sent nearly one thousand dozen of capons to the tions the year round, yet the quantity is much metropolis. increased during cold weather. They have free access to pure water, gravel and sand, and their combs are always red. To supply this great consumption of meat, M. de Sora has availed himself of the constant supply of superannuated and ing the process of incubation, which is known to damaged horses, which can always be gathered mark higher on the thermometer than at any from the stables of Paris and the suburbs, other periods. A series of shelves, one above These useless animals are taken to an abattoir the caner, form one nests, while blankets are owned by M. de Sora himself, and there neatly spread over the eggs to exclude any accidenta and scientifically slaughtered. The blood is light. The hatched chicks are removed to the saved, clean and unmixed with offal. It is sold nursery each morning, and fresh eggs laid in to substitute for ivory with the button maker, while premises. the remainder of the osseous structure is manufactured into ivory black, or used in the shape of mingle freely at all seasons, and after a fair trial

bone dust for agricultural purposes. Even the marrow is preserved; and much of the fashionable and highly perfumed lip salve and pomade, was once inclosed within the leg bones of old horses.

The flesh is carefully dissected off the frame of

the extraneous substances enumerated above-The French practical philosophers certainly thus furnishing to himself the mince meat for

It has been ascertained that a slight addition not lay eggs in winter as well as in summer, is well depend upon these condiments alone to prevent known, and the simple reason appears to be that fermentation and putrefaction, but has his store they do not get the supply of meatin winter which rooms so contrived as to be kept at a temperathey obtain in the warm season for worms and ture just removed from the freezing point through all months of the year, so that the mince meat M. de Sora was aware of all these facts, and never becomes sour or offensive; the fowls eat it

The sheds, offices, and other buildings, are

He never allows a hen to set!

for purposes of the arts at a remunerative price, supply the place of empty shells. A constant The skin goes to the tanner—the head, hoofs succession of chickens are thus insured, and shanks, &c., to the glue maker and Prussia blue moreover the feathers are always free from vermanufacturer; the larger bones form a cheap min. Indeed a lousy fowl is unknown upon the

M. de Sora permits the males and females to

of all the various breeds, has cleared his estab- Mass., has neglected his duty 20 years ago, and lishment of every shanghai, cochin china, or every year since-and to-day we are none the fashioned barn-yard chanticleers, and the femi-eherry. nines of the same species. He contends that the native bird.

The manure produced in this French estab-people to cultivate the apple. lishment is no small item, and since it forms the very best fertilizer for many descriptions of plants the maple and chestnut and hickory grow. That it is eagerly sought for at high prices by the mar-ket gardeners in the vicinity. The proprietor in good apples, are a better investment for your estimates the yield this year at about 100 cords. son, or for the sale of your farm, or for your own He employs nearly 100 persons in different de-comfort, than any other investment you will partments, three-fourths of whom, however, are make with any hundred dollars. In ten years, females. The sales of eggs during the past win- and for forty years afterwards, the pasture will ter have averaged about 40,000 dozens per week, at the rate of six dozens for four francs, bringing in feed for sheep and colts. Keep the bushes the actual sales up to \$5,000 in round numbers, for every seven days, or \$260,000 per annum. The expenses of M. de Sora's hennery, including has made this rocky hill-side very good for the ways interest and a fair margin for reasoning and the socky hill-side very good for the ways interest and a fair margin for reasoning and the socky hill-side very good for the ways interest and a fair margin for reasoning and the socky hill-side very good for the wages, interest, and a fair margin for repairs, apple, so will I. &c. are in the neighborhood of \$75,000, leaving When the wife and the children, and the gen-&c., are in the neighborhood of \$75,000, leaving When the wife and the children, and the gena balance in his favor of \$185,000 per year, aleration after, eat the delicious fruits which you most as remunerative as Col. Fremont's Mari- have planted, they will bless the man who plantposa grant.—Selected.

For the New England Farmer.

REPORT OF THE COMMITTEE ON FRUIT

AT THE AGRICULTURAL FAIR, CHARLEMONT, Ms., SEPT. 28.

There was on exhibition one small lot of pears. In traveling the county of Franklin, and all has done a thing of true practical wisdom." western Massachusetts, I have rarely seen a pear and I exclaim, why did not the man who planted are these: "The bearing year never comes to him that tree, plant 20 at the same time! Well en- who cultivates no trees." riched, the pear is a sure bearer on the pear stock, preferred to the quince.

The plum and the cherry were not on show. They are even less common in this country than

Should not the cherry by cultivated?

bushels, all of the largest and most delicious va- miles west of Greenfield. The trees, all small, were bending un-

den of Dr. Clark, of Conway. He says, that in thick, and unless half their branches are cut the spring he painted the body of the tree and away your fruit must be diminished in quantity the limbs as high as he could reach with soft and in size, and your trees will be decaying ear-

soap and a brush.

other outlandish fowl, breeding only from old-better for want of the pear, the plum and the

But the apple—every owner of land in these extra size of body and eggs pertaining to these parts is bound by his home comforts, and as a foreign breeds can only be produced and sus-good citizen, to cultivate some of the best aptained by extra food, while for capon raising the ples. The climate, the soil, the profit, the comflesh is neither so delicate nor juicy as that of the fort and the crop, in the valley of the Deerfield, as sure as in any place in the world, tempt the

You see these ledgy, hill-side pastures where

ed them-his grave will have a pleasant look to the children, for surely, as to good fruits, the nearest way to the hearts of children, younger or

older, is down the throat.

In the east part of Charlemont along the roadside, there has been lately the trimming away of the hedge of 50 years, and the planting of many apple trees. I pass that way every week and repeat the thought: - "Surely, in this, Dr. Taylor

You may notice that Josiah Ballad's doortree among the farmers. Fifty years ago there yard, east of the Charlemont church, is full of were large and heavily bearing pear trees in the loaded peach trees. These were planted since eastern part of the State. Perchance I see a the memory of any boy of 12 years old. I have small tree, now in the hill towns, and in the lately passed these enchanting trees several Connecticut valley, loaded with delicious pears, times, and always repeat the same words. They

Travelling in any direction through western Massachusetts, one may notice the neglected orchards, -old orchards, well planted and well grown, untrimmed, ungrafted, unprofitable,the pear. There are cherries, sweet and healthy, neglected, friendless. This remark, with some good bearers and growers, and long-lived shade beautiful exceptions, extends into Vermont and trees that will flourish beautifully on our soil. New Hampshire. Travelling, this autumn, 100 miles of the valley of the Connecticut, I noticed Early in September, I was in the garden of not many young orchards. The best one which the Rev. B. Foster, of Dummerston, Vt. There I have seen, and this is a very perfect one, is I saw plum trees loaded with fruit, perhaps 20 owned by Mr. Wells, at the point of the hill two

Last year, in Denmark, Iowa, I was walking der their loads. Mr. F. has saved the fruit from with the Rev. Mr. Turner in his orchard. He the curculio by rapping the trees and killing the had planted several hundred trees about 12 years grub, beginning when the trees began to blossom. before, on very rich soil, and they had grown But he is feeling confidence in a compound appropriate rapidly, and were filled to excess with limbs. I plied to the tops of the trees with a garden sy-said, your trees need much trimming. He replied, "The soil is rich and will sustain a heavy I noticed a tree loaded with plums in the gartop." I said, the tops are already entirely too ly. I said this with earnestness. With an ex-

Somebody, everybody in the hill country of pression like begging my sympathy, he replied,

cannot do everything."

You go through western Massachusetts and you may hear the same excuse 20 years long repeated out of the tops of the abandoned apple everything."

neglect them as to the spade at the root and the knife at the top, while they are young. Remember, the bearing year never comes to him who cul-A. Foster, Chairman. tivates no trees.

For the New England Furmer. LETTER FROM JUDGE FRENCH.

AGRICULTURE IN COOS COUNTY, N. H.

Lancaster, N. H., Nov., 1858.

FRIEND Brown:—An American who desires to behold nature in some of her most sublime and picturesque aspects, need not incur the perils of a voyage across the sea, but let him first visit the "Crystal Hills" of New Hampshire. There are many things in the Granite State, little dreamed of in the philosophy of Boston pecple. It is not only a very good State to emigrate from, but it seems by the fashionable world to have been, of late, discovered to be an agree- is from \$1,25 to \$1,50 per cord, and the price of able place of resort in summer, by way of escape from the heat and sinfulness of city life.

I am told that there were seven hundred strangers quartered at one time last summer in the little village of North Conway, below the Notch of the White Mountains, and a voice is still calling to them to come up higher.

bounds of civilization northward, so they took the railroad to Littleton, and there chartered a horse and wagon, for a drive into the wilderness. They carefully provided a flask of whisky and some crackers, so as not to incur danger of hunger or thirst, and came over to Lancaster, expecting to see the spot where civilization gradually tapered off into the wilds of Indian life, when suddenly they found themselves in front of the magnificent hotel, of which I will say enough to show that they who travel this way need not bring provisions or tents.

THE LANCASTER HOUSE.

This hotel, which is the largest in this State, drawing-room of the dimensions of 54 by 24 the deficiency. A great deal of valuable lumber

"With my parish and my farm to look after, I feet. The house is 190 feet in length, a part being 64 and the rest 40 feet in width. The ample porticos, the lofty ceilings and the broad winding staircases, are arranged with an architectural trees, "Don't look at us, our owner cannot do skill, that gives the structure, both without and within, an effect really imposing. It is designed Plant apple trees, plant fruit trees, and do not to accommodate those who in the hot season seek health or pleasure in these grand mountain regions, and it is difficult to say where art and nature have better combined for the enjoyment of leisure, than at this same spot, so far north that one looks back from it towards the southeast at the peak of Mount Washington. The distance from Boston is about two hundred miles, by Concord and Littleton, by railroad, and twenty miles stage, and two hundred and forty, including ten miles by stage, by Portland and the Grand Trunk Railway. For those who desire to pass through the Switzerland of America, the stage and lake steamer routes furnish a charming variety of wild scenery through the Notches of the Mountains.

AGRICULTURAL PRODUCTS.

The price of the best rock maple wood, which potatoes at the starch factory, twenty cents a bushel, seem to indicate, that, notwithstanding our spacious hotel, we have advanced somewhat beyond the centre of population. Indeed, Laneaster is nearer to Montreal in Canada, than to Boston, and the Grand Trunk Railway, connecting Portland with the cities of the Cana-A story is told of two fast young gentlemen das, is a great artery which sends out American from Boston, who wanted to go to the farthest blood with American principles and sympathies, through all the Provinces.

England cannot desire to hinder the fraternal relations of her provinces with the States, or she never would have assented to either of the two great steps towards fraternization which have recently been taken.

By one of them—the reciprocity treaty—agricultural products are carried free of duty between us and Canada, and so the custom-house mark of boundary is, in part, effaced. By the other, Carada has adopted the decimal currency, and "the almighty dollar" claims dominion there instead of the former sovereign of Great Britain.

But to return to the subject of agricultural a part three, and a part four stories high, was products. This is part of the valley of the Conopened last summer for guests, by Mr. John necticut, famous for its fertility, but as this por-Lindsay. The building itself, in this country of tion of it is two hundred miles from Boston, its cheap lumber, cost about \$18,000—and when best market, farmers are obliged to send down fully arranged will accommodate one hundred their produce in a form not chargeable with too and fifty guests. The rooms of the lower story much freight. Butter and cheese, cattle and are thirteen, those of the second story twelve, horses and wool, are the principal articles sold. and those of third, eleven feet in height. The Wheat is grown to some extent, but a great deal largest suite of rooms open into one spacious of flour is brought down from Canada to supply

now finds its way from the wild regions farther starch, which gives about a pound of starch from North, down the river and the railways. Farm-seven pounds of potatoes. The best and most ers are slowly coming into the idea that sheep mealy potatoes make the most starch, but farmafford mutton as well as wool, and begin to be-ers cannot afford to raise them for this purpose, lieve that some of the larger and coarser wooled as they yield a smaller crop than coarser varisbreeds might be more profitable than the Merities. quality of the wool.

sort of pioneer business, which leads the march starch will be at the bottom, fit for use. of agriculture towards the backwoods. Let me tell the children who read the Farmer

HOW POTATO STARCH IS MADE.

collars and the like, is not made of potatoes but a stream of water which carries the machinery. explain the fact. Mr. B. H. Plaisted is the owner. As you enter, Let not New Hampshire mountains be forgotand dirty, as they were dug. His cellar holds city homes. six thousand bushels of them now. The California potato is a good deal raised, a very large, coarse potato, which yields a great crop, not very good for human food. As the farmers sell them for only twenty cents a bushel, they must get a Next the starch and water that went through the 1858, beginning with the growing season. sixty pounds to the bushel, will make a ton of usual, and we had barely snow enough to whiten

nos. Lambs, which a few years ago, sold for If any of the boys or girls want to try the ex-\$1,50, readily bring twice that sum, and the great- periment of making starch, it can easily be done er weight of the fleeces of the coarser sheep at home. Take a half dozen potatoes and grate almost, if not quite, compensates for the inferior them to a pulp. Lay the pulp on a coarse sieve and pour cold water upon it, and allow that which I have alluded to the manufacture of starch, a washes through to stand a few hours, and the

Winter comes early here. Snow fell so as to cover the ground during the first week of November, and sleighing usually lasts four or five months, leaving a season rather short for Indian The starch used in families for stiffening shirt corn, which, however, is cultivated to some extent.

All mountain regions are said to produce of wheat, usually. Potato starch is used in cot-strong, healthy, free and virtuous people, and ton factories, chiefly, for what is called sizing. this region is no exception to the rule. Hard The starch mill here is a low, cheap building, on work, pure air and few temptations, perhaps, may

he will show you great heaps of potatoes, rough ten when summer again drives people from their H. F. FRENCH. Yours truly,

For the New England Furmer.

REVIEW OF THE SEASON.

Mr. Editor:—A review of the season may good many from an acre, to pay for their labor. be interesting to the cultivators of the soil, and journals from different parts of the country kept One man raised 1280 bushels this year from four with considerable care, would be of great value, acres, of the kind called Peachblows. The pota- not only in comparing the fluctuations of the toes are first put into a long box into which wa- season at a given place, but to compare the cliter is constantly pouring, and are there stirred mate of different parts of our country with each about with long, wooden fingers and thus washed. Then they go into another place where there is failures have occurred, which has much to do with a huge grater, like a nutmeg grater, only greater the prospect of market prices in the future. The by a good deal, and thus they are grated into a unsteady climate of New England is sometimes pulp. This pulp is carried along over five strain- more favorable to the husbandman than the more ers, upon which streams of water are falling, and with all our mountains, rocks and hills, kind nathus the starch is washed out and goes through ture furnishes us with all the necessaries and the strainers, while the skins and coarser parts many of the luxuries of life. The season has pass along. The starch seems to be all there is been propitious—our crops have been mostly in potatoes of any value, for what is left is thrown into the river, and is thought here to be of very any of the necessary elements of life. I will now little use for cows, to which it is sometimes given. take a review of the months from the record of

April has been about half a degree colder than and there in a short time, the starch falls to the the mean, yet having a temperature more than three degrees warmer than 1857, but colder than bottom, and the water is taken off the top by a 1855 and 1856. Only 2.25 inches of rain fell syphon, and the starch, clean and white, is so during the month, consequently the ground was solid that it can be shoveled up into heaps. much too dry for vegetation. Cold north-west Lastly, it is put on to wooden frames, in a hot winds prevailed to a great extent during the room, heated with stoves and funnels, and there dried, and then put into bags and sold. About two hundred and forty bushels of potatoes of late. The rain was much less in quantity than the ground, but the mountains have frequently fered much from rust. Oats are a good crop,

tenth than last year.

light, easterly wind a considerable part of the last section on the whole fruit crop. three days of the month, at the time when apple trees were in full bloom. Fruit trees of all kinds the appearance of various kinds of migratory had a full medium quantity of blossoms, but not a birds. Bluebirds appeared March 17th; robins great extra amount. The rains during the latter March 19th; barn swallows May 3d; grass, first part of the month were favorable to grass, which appearance of growth April 6th; general leafing appeared very promising.

the usual quantity of rain; its amount was 3.87 took place Oct. 21st. inches. The weather was warm and favorable to the growth of corn. The mean temperature Shall we hear like results from other parts of of the month was 67.58 degrees, being 7.15 de- the country? grees warmer than last year and 3.48 warmer than the mean of the five preceding years. The warmest day was the 25th, when the thermometer stood at 91 degrees at 2, P. M., while the mean temperature of the day was 82 degrees. This

the season.

The first half of July was rather dry for vege-

the corn crop remained in a backward state.

ings previous. The mean temperature of the last was June.

Potatoes were never better, yet the rot has done integrating process, and thoroughly rolled after some damage. The warm and moist weather of sowing the seed. Guano and bone dust are effica-September has increased the malady, but yet the supply is greater than the demand. Of the cereals we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereals we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop. Wheat is much better than last year, yet some pieces are nearly detailed by the supply is greater than the demand. Of the cereal we have a fair crop which is the supply in the second of the control of the cereal we have a fair crop. Wheat is much better than the control of the cereal we have a fair crop. The control of the cereal we have a fair crop where the control of the cereal we have a fair crop where the control of the cereal we have a fair crop where the control of the cereal was a fair crop where the control of the cereal was a fair crop where the control of the cereal was a fair crop where the control of the cereal was a fair crop where the control of the cereal was a fair crop where the control of the cerea stroyed by the weevil and rust. Late wheat suf-|manure is best.

been covered, probably some inches in depth. seldom better, yet the amount of land in oats is The sky has been less cloudy by more than one-comparatively small. Grass was about an average crop, rather below than above. The season May was rather dry during the first part of was rather unfavorable for having, yet no great the month, but copious rains about the 20th gave amount was damaged. The fruit crop is, at least, plenty of moisture to the ground, which was wet a partial failure. Apples are very scarce and enough during the remainder of the month. The small. Plums are almost unknown, while grapes mean temperature of the month was 51.61 de- have yielded abundantly. Wild fruits and nuts grees, being 1.31 degrees colder than last year, exist in very limited quantities, and the seeds of and 2.91 colder than the mean of the past five forest trees in general are scarce. Not only duryears,—being the coldest of the six. 1854 was ing the season of blossoms, but through the whole the warmest, being 57.64 degrees, being more than summer, we have had an unusual amount of east six degrees warmer than the present. There was a wind, whose blighting influence is felt in this

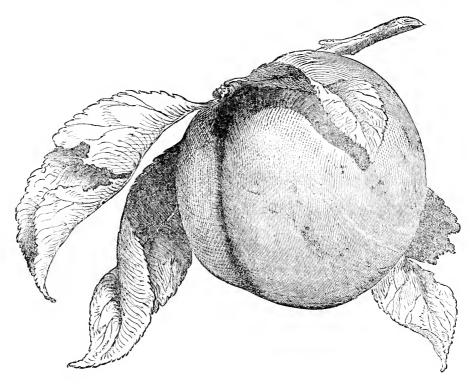
Among the periodical phenomena we notice of forest trees May 15th; barn swallows disap-June was neither dry nor wet, but had about peared August 27th; general fall of forest leaves

Such are the results of the record of 1858. D. Buckland.

Brandon, Vt., Nov. 8, 1858.

CARROTS FOR HORSES.

In Great Britain, many of the most successful was the most favorable month for corn during agriculturists, and cattle breeders, feed their horses liberally, and, indeed, in some instances, tation, but the latter part was exceedingly wet, quite exclusively on roots. The carrot they hold Rain fell on 15 days. The temperature of the in high estimation for this purpose, and vast month was 63.37 degrees, being 6.05 colder than quantities are annually raised and consumed. It last year, and 1.06 degrees colder than the five has been estimated by some writers on domestic preceding years. The amount of rain was 4.80 economy, that a bushel of currots is equal to half inches. The month was unfavorable to corn. August had a temperature of 65.67 degrees, a bushel of grain; but although this is doubtless which is about an average. The rain was dis-a somewhat extravagant appreciation, we have no tributed in showers through the month, giving a doubt that three bushels of carrots will prove, in bad hay season, but no excess of rain; its whole all cases, folly equivalent to one of oats. It was amount was a little less than three inches. Rain fell on 17 days, and the amount of cloudiness stated not long since in one of the papers, that was 45 hundredths. Owing to the cold of July the proprietor of one of the most extensive livery the corn crop remained in a backward state. September was warmer than the same month most valuable article of winter feed he has ever in the five preceding years, by 1.19 degrees, and had a temperature of 59.52 degrees, which was warmer than last year by 2.39 degrees. The amount of rain was nearly 3 inches, or about an average. The first frost occurred on the 23d animals far less than it would be were we to emday. It was hard enough to kill most vegetables, ploy only English hay and grain. Hogs winter and was preceded by a thunder storm two even-admirably, and even fatten on these roots. We six months was 58.95, and the warmest month advise every farmer who can command a piece of old, well worked, rich and deep soil, to put in a On the condition of these six months were in- few square rods, and try them. The seed may be cluded the hopes and prosperity of the farmer, sown in this climate as late as the twentieth of for a supply of all his wants. Nature has furnished that supply. His corn crop is considerably above an average, with large, well-ripened ears. by harrowing or some other equally efficient distance of the supply of the farmer, sown in this climate as late as the twentieth of formation of the supply of the farmer, sown in this climate as late as the twentieth of formation of the supply of the farmer, sown in this climate as late as the twentieth of the supply of the farmer, sown in this climate as late as the twentieth of the supply of the farmer, sown in this climate as late as the twentieth of the supply of the farmer, sown in this climate as late as the twentieth of the supply of the supply of the farmer, sown in this climate as late as the twentieth of the supply of the supp



THE PEACH.

Among all the fruits natural to the growth of quite as good as when fresh from the tree, for our soil, there is not one that will compare favor- pies or puddings. ably with a well ripened peach of one of the finest varieties. The grape and the pear must yield most easily digested and the most wholesome the palm to the peach, and so must the plum, fruits we have, and that if we used them as artieven if we should select for a comparison the cles of food to a much greater extent than we do Green Gage, the Washington, Jefferson or Co- -not as articles to please the appetite merelylumbia.

lent dessert fruits, and are grateful to every taste; tions where they can be raised cheaply in large growth? quantities. We have never known a person who licious sauces that ever came upon the table. In be again. their ripe state they also make the finest pudprepared for that purpose, they are just as suita-Flushing, Long Island. It is one of the most ble for a sauce, and in the estimation of many, beautiful dessert peaches, though only of medi-

We believe the peach and grape to be the there would be much less sickness among us The pear, the plum and the grape are excel-than usually prevails in the autumnal months.

If this be so, is it not worth while for every but the peach, while it claims just as high rank person cultivating a piece of land, to introduce a as a dessert fruit as any of those, may be made to few peach trees, sufficient, at least, to supply his serve as a nourishing, substantial food in situa- own table, provided his location is suited to their

It is not our purpose now to speak of the vadid not like the peach. It is palatable and whole-rieties of this fruit, or of the mode of culture, or some when ripe, and uncooked, and when cut the soils most suitable for them. That has often and served up with sugar, one of the most de-been done in these columns, and probably will

The beautiful figure above, which we now predings and pies, always being in demand at the sent the reader, is an illustration of Van Zandt's table, even though epicures surround the board. | Superb, a very light colored and handsome peach, When quartered and properly dried in a kiln, originated some years ago by Mr. Van Zandt, of um size, and possesses a very agreeable flavor. possessed valuable farms, in the spring of the Ripens first of September.

For the New England Farmer.

NEGLIGENT HABITS --- BORROWING, &c.

Messes. Editors:—Heedlessness costs us more than we are aware of; did we but consider our negligence, at a price we should charge our neighbor for work, we could readily account for the deficiency which often happens at the end of borrowing tools or farm implements of a neighonly sustains the loss of his own time, but frequently one or more men are idle for the want wishing the borrower well supplied with implements of his own.

Borrowing is excusable in beginners, especially in young men who are not wealthy; but for farmers or mechanics to depend upon their neighbors to furnish them with tools, does not look like regarding the Christian precept of doing as we would have others do to us. In what ness! I have stated above I do not wish to comprise

those who lend for pay.

Negligence in paying small debts is one of the worst of non-State-prison offences; the debtor injures his own credit as untrustworthy, and his the profit of their labors and often prevents succharacter as an honest man; he injures his creditor by withholding his honest dues, and he stands a poor chance to make a profitable speculation, ness than to any other circumstance; by their if he wishes to borrow money to accomplish it; quick decision and rapid movements they surnobody has money to let to a negligent borrower, and to cap the climax, he is liable to have the sheriff's fee added occasionally to some of his small debts. Pay up small debts and interest on large ones punctually, and my word for it, an opportunity to have escaped his clutches at your credit will command respect, and your neighbor's spare money will be at your service, when-long the war, and perhaps to end in the subjugaever you see an opportunity to make a profitable

The most cruel negligence is disregarding the wants of the poor laborer; reason, common sense, who have families of needy children, which are discharge of our duty. dependent upon the income of the daily labor done by their parents, to supply them with food, clothing and shelter, stand in need of prompt payment, and whoever declines prompt payment for such services, and will put these worthy people to the dreaded task of dunning the delinquent to the hundredth time, is not worthy to claim a right to the Christian name, let his professions be what they may.

Many persons suffer more for the want of promptness than they do by drought, curculio ent habits of my neighbors; some of them who trine of compensation."

The flesh is whitish, but tinted with red at the year would want a few shad or other fish for famstone, melting, juicy, sweet, and of good flavor. ily use, and with a provident care for the future, would wend away to the river, where they would find plenty of company and scarcity of fish, sometimes toiling all night and "catching nothing;" but fishing, like gambling, let the luck be good or bad, tempts him who is successful to prolong his stay, that he may add more to that already gained; if unsuccessful, to hold on with a persistency which would do honor to any good cause, in hopes that the value of the time spent in consequence of luck would be more propitious and fish more plenty. At length, after sleepness nights, disappointed hopes, waste of time and heavy potations to "restore wasted energies," Jo Trout & Co. the year in balancing our books. The habit of would think it about time to look at their farms, bor is not only a heavy tax upon the time of the from the mental atmosphere of Jo and Co., and After arriving home, and the fog had dispersed borrower, but an annoyance in addition to the vision restored, they could see their neighbors oss of time in the lender. The borrower not finishing their spring work of manuring and seeding their ground; then commenced the bustle and hurry among fishing farmers; everything of tools to commence work, and in a few years was to be done; plowing, manuring and planting the habitual borrower loses enough in his borrowing visitations to stock his farm with tools, a thing well and so instead of driving luciness. a thing well, and so instead of driving business, beside disgusting his neighbors to ill will, and business took the reins and drove Jo and Co. fretting through the rest of the season. When harvest time arrived, my fishing neighbors complained of bad seasons, poor crops, blighted grain and frost-bitten corn; and a plenty of weeds might be seen over their whole premises. This is the way some folks make both ends meet, and consider farming as really an unprofitable busi-

> Without promptness and systematic order among farmers and mechanics, confusion, delays and loss of time take place, to the detriment of the owners or interested party, which diminishes eess. The successes of Washington, Jackson and Bonaparte were more owing to their promptprised the enemy, unprepared to engage with them. Had Gen. Washington been as much at ease, and tardy, as some of the British generals were, his negligence would have given Cornwallis Yorktown, to continue his depredations and protion of the colonies. SILAS BROWN.

North Wilmington, Nov., 1858.

Remarks.—The above abounds with valuable common honesty and Scripture, all tell us that the REMARKS.—The above abounds with valuable laborer "is worthy of his hire." Men and women suggestions, which ought to prompt us all to strict

THE MANAGEMENT OF PERMANENT GRASS LAND ought to be much studied by our farmers. We plow too much! By fall manuring we may keep up the productiveness of a meadow for many years, and the hay will continue to improve in quality. So, also, of pastures. Plaster should be used more freely. It is not right, and the whole tribe of insects. I have observed either in morals or agriculture, to always take in different towns where I have lived, the differ- and never give-we must carry out "the docFor the New England Farmer.

DRAINING IN NEW ENGLAND.

Our solitary but good-natured friend, "S. F.," in a recent article upon thorough draining, offers some statements and logic that are rather flattering to the ability or good sense of our New England farmers. He says, in italics, just as though he meant it, "That the thorough draining of our old farms in New England, is simply an impossibility." All are ready to admit that there are many farms, which, at the present value of land, I mean good land in the immediate vicinity, would not "pay" for draining: but it is no less a fact that all wet and low lands can be drained, and nine-tenths of them at a moderate price, say from thirty to fifty dollars per acre.

Let us look a moment at his mode of reasoning. He says that the average value of our farm land is twenty dollars and twenty-seven cents per acre; draining costs twice that amount, hence it is impossible! To illustrate this mode of reasoning: suppose that S. F.'s watch has been neglected for a long time, needs repairs, and stops. S. F. takes it out, looks at it, finds "no tick here, says to himself, "This don't go, no use, think I will throw it away and get another." But a bright idea strikes him; "the watch as it is, is worth a dollar and a half, if the watch-maker will repair it for a dollar, I shall make fifty cents by saving it." F. starts for the watchmaker, finds him; but the extravagant mechanic wants two dollars for adjusting the watch. S. F. indignantly informs him that the watch is only worth one and a half, and it is absurd to think that he will pay two your watch will be worth twenty dollars when I have done with it. S. F. goes off disgusted with the stupidity of watchmakers, throws his watch into the dock, and finally believes that he has saved a half-dollar by his sagacity. The whole not spend more in the improvement of a piece of land than the land is worth before he begins to improve it. Every practical man knows better than this, for he may have a piece of meadow land so wet as to be entirely worthless, and by laying out ten dollars in ditching, he can make it worth a hundred to him. But to be still more practical, I will give a fact which will prove the fallacy of all such reasoning. Two years ago there was a piece of land near Boston which was worth nothing at all; in fact, was a nuisance; the owner spent about five hundred dollars per acre in improving it, and his land is now valued at one thousand dollars per acre; was it possible or impossible, to lay out more on the land than

its value, and still make it pay? fright about ditch-digging-he fears that when is adequate fully to indemnify the operator for our young farmers learn what an unlimited the trouble and expense involved, is somewhat amount of ditching is in store for them, they will "start in their boots," and scamper for the west without as much as looking behind them; he seems to have forgotten that the West is pre-eminently a muddy place, and that they have already called one of our best engineers to lay out drains, and extricate them from the mud. If all accounts are true, "top boots four feet high," soft lands of the West.

Since F. thinks it so horrible for our farmers to be obliged to dig ditches, I would like to ask him which he thinks the most pleasant and satisfactory for a farmer, to spend two or three weeks in the dry part of the fall, ditching and laying tile, or to have for life to pole his hay from spungy wet meadows, with boots full of filthy water, green snakes, lizards, frogs, and other such pleasant denizens of his good old-fashioned farm, and dig his half-crop of potatoes out of black mud, while his boots are loaded with the same rich alluvial, and his hands feel "kinder dry like."

I am truly sorry that the sight of tile gives our friend the horrors, for I see no chance of relief for him, indeed, my imagination is so very different from his, that I see the spirit of the age still remaining with us. Her crown is still the wheaten wreath; with one hand she swings the spade, with the other firmly grasps the drain tile, through which she lustily shouts, "home, boys, home, there is no place like home."

Boston, Nov., 1858.

Pensa.

WINTERING CATTLE.

In New England, the winter feed of cattle consists principally of dry, unsucculent fodder-hay and straw. Occasionally roots are given either daily or at intervals, in order to give variety to their diet and create a keener relish,—but as a general thing the main reliance is upon the articles first named. Of straw, the most nutrimental, probably, is that of wheat, especially when dollars for having it repaired. Watchmaker says, the crop is harvested when in the "milk," or at the period of its growth when the grain is changing from its milky condition to a doughy or pulpy consistence. The straw of oats and barley rank next in value, and that of rve, as fodder, point of his argument is this that a farmer must the last. On farms of large size, much more account is made of the straw of these grains, than in smaller ones. It is then prepared by cutting, and is generally fed out in conjunction with corn and cob meal, or with roots, rasped, cut or cooked. It has not yet been fairly ascertained by accurate comparative experiment to what degree the various roots used in feeding cattle are improved by cooking. That their nutritive powers are considerably augmented by the process, seems now to be generally admitted; but whether, when we consider the advantages of rasping -which is performed by a machine capable of dispatching the business with great facility, the Your correspondent seems to be in a severe increase of alimentary power secured by boiling doubtful.

Where rough fodder is to be used, either boiling, cutting fine or rasping, will be found highly economical, as without some such aid, a very large portion of the haulm and straw produced on the farm would possess but a mere nominal value in would afford no protection for travellers on the an alimentary estimate of the products, and would scarcely be worth the storage for any purpose to

which it could possibly be applied. Boiled potatoes are preferable to raw ones in fattening By the way, it is a good calculation to give cows swine or beef cattle, as the boiling diminishes swine or beef cattle, as the boiling diminishes their laxative properties, which are often detrimuch more refuse milk to give the hogs, which mental to health, especially when fed in large thrive much better on milk and meal, than they quantities, and thus tend to counteract the very do on water and meal. The breed is quite an results they are intended by the feeder to pro- item in the rearing of hogs, but I have only time

The English agriculturists recommend boiled potatoes in stall feeding, and raw ones for feeding cows in milk.

Machines have been invented, and for a long time in use, in various parts of Europe, which reduce the roots to a semi-fluid or semi-liquesgent portion of the agricultural community are emanates from a gentleman, "E. E.," who does not, apparently, very favorably disposed. But not think very highly of them, and has, I prethe cutting machine, or root-cutter, now so generally in use in New England—and which reduces top and house, a hundred bushels of English the root to fine pieces, is perhaps one of the most turnips for three dollars? I am not informed valuable implements that can be used in the precisely of the size of the aforesaid esculent, but preparation of food for domestic animals. The will say in repny, that this replied and preparation of food for domestic animals. The like say in repny, that this replied and use, therefore, of one of these, where roots and housed," 325 bushels Swedish turnips, at an exstraw constitute the principal articles of food, is pense of less than three dollars for the lot, and recommended both on theoretical and practical also, if Mr. "E. E." will bring on his turnips we considerations, and will be found highly economconsiderations, and will be found highly economical, saving both time and fodder, and securing, at the same time, all the important results pro- growing them with his corn, and finds fault beduced by a more costly food.

For the New England Farmer.

ECONOMY IN TOOLS AND STOCK.

other branch of business, an eye must be kept The probabilities are that this took place merely out for the expenses. A reduction in these, as far as is practical, is commendable in the farmer. When he wishes to buy an article for farming purposes, he should know just what he wants, and in order to ascertain this fact, he should look at and test the new, as well as the old articles that are in the market. He does not want to purchase an article because it can be bought low, unless it is what is wanted. He wants the very best kind, and in purchasing such he saves time and labor, and labor is equivalent to cash. ing the manure derived from feeding them out, After an article is bought it should be taken care and that a perseverance of this course for a term of, and after it has been used, it should be carefully laid away until it is again wanted for use.

In speaking of economy in farming, I do not wish to be understood that it is good policy to keep short, or starve animals that are kept for work, or otherwise. If farming will not admit of keeping a horse, oxen, cows or any other animals, well, which the farmer may think proper to is no comparison as to their value. keep, some of them should be disposed of.

Thus have I attempted to replace the comparison of the compariso the noblest animals we have. In speaking of horses, the farmer does not need what is termed of its practicability.

W. J. P. a "three-minute horse," but a good family horse; one with which he can take his family to church; one that can be hitched to the cart, or drag; one that, if his wife wishes to go to a friend's to spend an afternoon, can be driven by her in safety.

If four cows cannot be kept well, keep less. now to speak of it, as a hint.

HENRY CROWELL. Londonderry, N. H., 1858.

For the New England Farmer.

ROOT CROPS.

I notice the article in this week's Farmer, uncent state; but towards these, the more intelli- der the caption "Root Crops," which evidently sume, had indifferent success in their culture.

He inquires, in the outset, if a man can pull, will say in reply, that this Monday, Nov. 8, This much for that lion.

He then goes on to note his ill success in cause he did not get two good crops from the same soil. Too bad, intirely.

Again, he acknowledges, that in feeding out, they increased the quantity of the milk, but not of the butter. Some hocus-pocus here, surely! And, finally, he says he would not have them

MR. EDITOR:—In agriculture, as well as every in his cellar because they scented up his house. for want of sufficient ventilation.

The writer has practiced the raising of root crops for a series of years, having the present season harvested some 2500 bushels, and will follow it no longer than he is satisfied it will pay in every sense of the word. His present opinion, founded on years of experience, is, that there is no better means of renovating the soil, than by growing roots and feeding them out on the farm; carefully saving, housing and applyof years will most assuredly tell upon the fertility of his land.

What comparison, indeed, is there between a ton and a half of grass to the acre, and fifteen tons of roots, both as to feeding and manurial purposes? To be sure, the roots cost more culture and higher manuring,-but, after all, there

Thus have I attempted to reply to some of Above all things, do not starve a horse, one of "E. E.'s" objections to this branch of farming,

Salisbury, Conn., Nov. 8, 1858.

REMARKS .- The writer of the above is one of our best New England farmers,-working with

his own hands, and constantly exercising a sound the above.

For the New England Farmer.

THE FARMER'S POSITION.

"Pride still is aiming at the blest abodes."

MR. EDITOR:—This subject is rather hackneyed, I grant; but the fact shows that the rular population take an interest in it, as they write so frequently about it. With many of the senting the very sort of the very large of the very large of the very large of the very large. MR. EDITOR:-This subject is rather hackjournals relative to this Protean matter I hearti-arship anywhere else! ly coincide. That the position of the farmer, who owns his farm, and is obliged to work it for his I had faith to hope with him for the sublime remaintenance, is a position of average respectabil- alization of the thoughts expressed in his last internation of the thoughts expressed in its last ity, profit, happiness, and rather superior as to health, I am fully persuaded. But more than this I am not prepared to admit. This paper is devoted to the great agricultural interest of the reluctant to give it credit. Mr. N. says: country; but I suppose you, as agricultural editor, are not prepared to claim that it is the only important interest, or that it can be made remunerative without supporting, in return, those mer shall not be afraid to compare his education mer shall not be afraid to compare his e other and varied interests. All men should not be farmers, nor are all men fitted to be—in a be honored, and our laborers be truly our nahigh state of civilization—whatever we may say of the natural blessedness of farming. It seems to be a law of progress, that the more advanced The writer of the above, in his golden anticito be a law of progress, that the more advanced civilization is, the more must labor be subdivided. And in this state all vocations are reciprocally dependant. Allow a correspondent who has annually written more or less for your neat, interesting and valuable periodical, ever since its origin, the freedom of saying, that he thinks many of the articles which appear in the agricultural intended to the "first in point of education," but rank first! How he is going to bring this about, or how it is to come, he does not hint. I am bound to suppose, however, that he expects that the day is not far distant, when every man intended to labor on and carry on a farm for a limit blood must first he fitted for college, (occuof the articles which appear in the agricultural intended to labor on and carry on a larm for a fournals—on the particular vocation to which they are devoted—to be over-wrought; and, if written by farmers, a little too self-laudatory. If not written by practical farmers, they can have but little or no claim to belief. I grant the fault "School of Agriculture"—like the lawyers, document in ather vecations, but it may be no is common in other vocations; but it may be no less a fault in all. The profession of the law demands the most learned men, though there is a his education with any college graduate!" This working order for the farm, or able "to compare his education with any college graduate!" This embrace all the pseudo religions of the present business age.

But I return to agricultural laudation, or exaggeration-which is evidently injurious to the cause it would foster, furnishes vulnerable points for attack, and leads young men of the country to turn their backs on what they know to be false, and also upon the farm itself—at least till they try their capacities somewhere else. try their capacities somewhere else.

In the monthly Farmer for October, I notice a judgment in his operations. He took the first well written article on "Farmers' Sons as Scholpremium on farms at the Connecticut State though the hope expressed in his last paragraph Fair, in 1856. Our opinions are more in accord- I think can never be realized-believing that the ance with his than with those expressed by profession of the farmer can never become one Mr. Emerson; but we like the objections of Mr. of the "learned professions." That farmers' sons E. because their tendency is to call out facts like frequently make better scholars than some others, cannot be gainsaid; but perhaps no better than those of the mechanic, or laborer, or of any other vocation, where the son has been drilled to severe industry and economy. The poor and sedulous student believes with Franklin (who snatched his education from the universe, and ments of the various articles in the agricultural that there can be no poverty, industry and schol-

But passing to a more important point, I wish

"I hope the day may come when our farmers

The writer of the above, in his golden anticivery strong suspicion that it can tolerate those plan would be expensive, but we think all our that are not the most honest! And it claims to Universities would favor it, if no one else! But be the royal road for those "seeking the bauble reputation." Medicine also requires the greatest Which would be the wiser of two young men amount of intelligence, and claims unsurpassed having \$1500 apiece, and intending to become honor, though it admits it is a little plethoric in farmers, he who procured his collegiate education the varied opathies, and requires a gentle, if not a brisk, purging. The profession of theology afterwards, or he who purchased his farm first, claims to be divine, and admits no superlative, or even equal, in any vocation; though its divinity must be weak in proportion to its compass, if it however, may not intend that farmers shall be college-educated, but only as well educated. Perhaps he means they shall be self-educated. This would render the desirable state he hopes for still more hopeless; for instances of good self-

Although I cannot sympathize with Mr. N. in

his bright anticipations, there are some others from sheer moral obligation, but from necessity observes: "It will be a better day for all, when it is discovered that the highest honors of the healthy pastime! college do not unfit a man for the practical duties

itors, artists and laborers, be liberally educated, would smile; for their labor is more of the hand to give dignity to their varied callings? I wish than the head. Yet it requires no more liberal they might, but know that a tithe of them cannot education to raise corn and potatocs than to build These writers seem to be insensible of the a house. immense labor requisite to properly educate youth. Although there is a vast amount of knowledge ex-tant, and decreases none the less as it is acquired, healthy, and should be appreciated. It is true, yet the work of education is a Herculean and they cannot expect, as such, to be recorded in perpetual labor. Ignorance is the rock of Sis-yphus, forever recoiling upon society. A man can easily drop a fortune into his son's lap, yet thing. This esteem is not that which is periodithough learned as Newton or Bacon, he cannot cally lavished upon them by the politicians for give him an idea without effort—as education or their endowment of suffrage, but that which a learning is in its nature intransmissible. Hence State or federal election cannot effect. If their it is an obvious fact that society will always em- respect were to rise and fall only with the politibrace a large number of ignorant beings. They cal barometer, they might well complain. As it must be supported, and they must labor. What shall they do? If we raise agriculture, mechanics and trading above their capacities, they must of boldly pushing on and forgetting it, rarely is enter the pulpit, the bar and medicine! Such successful. an idea is, of course, preposterous.

bers of able-bodied men, some from foreign coun-from which I quote the following sentence: "It tries and others native born, out of employment. Is the most melancholy feature of our present soand in danger of being led into crime. They are
told to go into the country and go to work. But
if a college education is to be required ere they
can properly wield the spade and the hoe, an extensive means of employment will be cut off. for the farmer's position, I cannot think so. If Trying to be serious about the subject, I think the children of the hardy yeomanry make some they should be employed, even if the University of the most enterprising men in the country, I farmers are obliged to hoe their row with such can see no good reason why other interests and profound ignorance and brute force—of which the latter, I have always thought, never came amiss If the country sends men to the city, the city reon a farm. These unlettered men should be diturns men to the country, and they are more likerected and controlled, but employed they must ly to become contented, and hence better farmers

belief that he can get an easier livelihood in some community suffered? Others may do the same. other vocation, the result to the farm is the same

who may. I notice a writer in the May number or interest. Give a hundred of our best farmers of that very able and heavy-laden periodical, the a college education, and then look and see if you Genesee Furmer, entertains similar views. He can find them laboring three consecutive days in

If earpenters, masons and painters should meet of agriculture-that it is not burying one's in convention, and resolve that they and their knowledge to graduate from the college to the business could never be properly respected until their education was as good as that of any col-Why should not all mechanics, merchants, ed-lege graduate, I will venture to say that farmers

The respect which a discerning public yield to

Hon. Horace Greeley, of New York, lately de-In our large cities and towns are great num-livered an able agricultural address in Indiana, than those youth who have had an opportunity I beg pardon of all farmers when I repeat the to see but little of the world ere they "settle opinion, (meaning no disrespect,) that to success-down farmers;" for the latter can rarely be fully carry on a farm does not demand the high-est order of intellect, or the highest cultivation of an ordinary intellect. If it did, we could not If they succeed, no one can complain; if they reexpect many good farmers, neither could we hope turn to become farmers, they will be the more to see agriculture popular, or farm products cheap happy. I question whether Mr. Greeley would and abundant, as they ought to be. It must be ever have delivered his elaborate address on Agevident to every reflecting man, that the culture riculture, if he himself had not wandered to the of God's earth should never become so elevated city, where he assumed a vocation whose successand exclusive that the humblest man may not ful flow led to the establishment of the New York freely engage in it, if he choose, and not feel Tribune, and sent its proprietor to Congress. mortified and ill at ease from the vast array of Will farmers lament and exclaim, "O, how much learning and agrarian aristocracy around him. has agriculture lost in Horace Greeley's early be-Farmers need not be scholastically learned, but coming a printer?" But he now owns a farm they should be sensible, and understand their and takes a great interest in rural pursuits. Very business better than any one's else. Perhaps well. Will he give his whole attention to that "the highest honors of a college" may not "unfit a man for the practical duties of agriculture," respect? If so, and he bring ample means with but if they beget in him—as they always do—a him back into the country, has agriculture or the

Those who do the least on the farm. I someas if they did. Men do not labor here or there, times suspect, are the loudest in its praise. The

"intellectual youth" see this, and as example is no more than is needful for the preparation of Agriculture has many resources, and will take in cloudy days. care of itself. It stands on too important and permanent a basis to be shaken by smart boys. for manure outside the barn; let swine have free But while on this subject, let me observe, that if access to them during the day time, and fifty farmers really wish their sons to remain at home per cent. more manure in value may be made, or on a farm, they should be careful that they do than in the more modern way, of keeping both not compel them to labor and associate with every manure and swine in a cellar. At the same time ignorant and vicious workman that may come swine will be more healthy, and consequently along, because their necessities make them cheap; more profitable. for youth, with proper self-respect, will resent it as an indignity. It is true, as I am bound to be- to say a few words touching the corn crop. It is vor of the most available virtue, good manners ly pay from twenty-five to forty per cent., year and intelligence, that may pass along—besides after year.

R. Mansfield. giving an air of cultivation and content around their homes.

But I will close this extended communication by the relation of a simple anecdote. Some few years ago I heard a gentleman deliver a lecture upon "Character." It was a dull, prosy thing. and those who knew the value of "balmy sleep," were inclined to nod. Yet at its close he apologized for any thing that might have been too pointed! Not wishing to appear as that gentleman did, I drop my pen without pleading favor. W. Medford, Oct., 1858

For the New England Farmer.

USE OF FRESH MANURE.

Mr. Editor:—I saw an article in a recent Farmer, from Mr. WARD, "about manures." I am glad he had the courage to write his experience, which differs so much from the practice of some, and the theory of many more. The reason so many barn cellars are built, is not because the many know their benefits, but because it is said to be the best way to manufacture food for plants. From results in my own experience, I find that the manure composted under cover, is a dangerous article as food for plants. I have used manure that has lain a considerable time in a barn, (merely on the top of ground in that section usually styled a bay,) for the corn crop, and not more than five per cent. of the corn planted ever came up. I have observed, in different fields, that where manure from barn eellars is used, that the corn plants were sadly deficient in number at harvest time. After forty years' labor among corn crops, I find more changes, among cultivators, for the worse, than for the better. Mr. Ward, it seems, has a question

barn, and the snow that accumulates upon it, is dren. We wish it great success.

stronger than precept with them, they take the the manure to fit it as food for plants. Whatevliberty of bustling in the flood of society, till they can well judge for themselves what vocation they heap in a dry day, is more than balanced by reshall choose. I think, on the whole, this is well | ceipts from the atmosphere in the night-time and

If space was not so limited, I should be glad lieve, that the time will never come when college in fact the crop of New England, so far as profit graduates will let themselves out on a farm by in dollars and cents is considered. With due the month, or that such men as Daniel Webster, care in preparing the manure, in selecting and Edward Everett, Ralph W. Emerson, &c., will be cultivating the soil, selecting the variety of corn seeking employment in the rural districts; yet for seed, and choosing from that variety, with a farmers will do well to discriminate a little in fa- dozen other etceteras, the corn crop will assured-

West Needham, Nov., 1858.

THE LABORER AND THE WARRIOR.

BY EPES SARGENT.

The camp has had its day of song; The sword, the bayonet, the plume, Have crowded out of rhyme too long The plow, the anvil and the loom! O! not upon our tented fields Are freedom's heroes bred alone; The training of the workshop yields More heroes true than war has known.

Who drives the bolt, who shapes the steel, May with a heart as valiant smite As he who sees a foeman reel In blood before his blow of might; The skill that conquers space and time, That graces life, that lightens toil, May spring from courage more sublime Than that which makes a realm a spoil.

Let labor, then, look up and see His eraft no path of honor lacks; The soldier's title yet shall be Less honored than the woodman's axe; Let art his own appointment prize Nor deem that gold or outward light Can compensate the worth that lies In tastes that breed their own delight.

And may the time draw nearer still, When man this sacred truth shall heed, That from the thought and from the will Must all that raises man proceed; Though pride may hold our calling low, For us shall duty make it good; And we from truth to truth shall go, Till life and death are understood.

EMERY'S JOURNAL OF AGRICULTURE AND in his own mind, whether to remove his manure from his cellar, in accordance with his better Prairie Farmer, published at Chicago, at \$2 judgment, or to let it remain as do his neigh- a year. This journal has carned for itself a good bors, and have a scanty crop. My advice is to name by its neat appearance and its practical give his manure the benefit of both sun and rain.

There is no place more suitable for manure in the winter than under the eves of the south side their profits by reading it carefully, to say nothing of what it may do for the women and children to the south side. of the barn. All the water that falls from the ing of what it may do for the women and chilFor the New England Farmer.

UNITED STATES AGRICULTURAL FAIR AT RICHMOND.

Messes. Editors:—Having in a former communication given some account of the stock at the Fair, it remains for me to notice, briefly, the other departments.

The vegetable, fruit and horticultural departments were not largely represented, but each contained some very fine specimens. There were very nice potatoes, sweet and Irish, some very large cabbages, one that weighed sixteen pounds, to the implement department, and especially to some excellent beets, both table and sugar beets. The fruit show consisted chiefly of preserved fruits, such as the strawberry, plum, peach, cherry, raspberry, &c. There was a good exhibition of preserved fruits and other vegetables. The show of plants and flowers was quite small. It contained, Orange county, Va. Cultivators of various pathowever, some of the finest and most elegant terns, shovel-plows, surface-draining-plow, (price roses that I have ever seen. The "Old Dominion" is famous for fine roses, as I ascertained by observation and from conversation.

The domestic department contained a very creditable exhibition of the handiwork of the ladies. The Southern mothers and daughters gave demonstrative evidence of possessing much skill is becoming a prominent feature in all our agricultural exhibitions, County, State and National Let it be encouraged, for it is a hopeful omen. Not only needle-work, shell-work, embroidery, &c., but bread, cake, butter, cheese, and other edible things, are also exhibited, showing a great diversity of skill in these several arts, so essential to domestic comfort and enjoyment. It is true that bad bread and butter and poor cheese will prevent starvation, but let it be remembered that good bread, sweet butter and delicious cheese are a continual feast in the few households where they not only abound, but superabound, as in some that we wot of. Wines and grapes were on exhibition, which I omitted to mention in connection with the fruits.

One of the most prominent, interesting, noteworthy and important departments of the Show, yet remains to be mentioned with some minuteness, and that is, the one including farm impleaid farm labor in its various departments, such as relate to the tilling of the soil, sowing or planting the seed, cultivating the crops, harvesting them, husking and shelling the corn, threshing and winnowing the smaller grains, potato-diggers, &c. There was a very creditable exhibition in this department.

What surprised me more than any thing else that I noticed in connection with the Show and Fair, was, that so many of these were made south of Mason and Dixon's line. I regarded this as a favorable omen, but was told by Southerners, that they regarded or looked upon it otherwise, for, said they, "Our agricultural resources are what we are to study to develop and make productive, leaving other portions of our country to do the manufacturing." This is undoubtedly city, proprietors, attracted much notice. They good doctrine and true. New England has a hard, unproductive soil, naturally, but capital facilities for manufacturing, as is demonstrated by

manufactured in Richmond, Atkins's Reaper and Mower, made in Illinois, the Buckeye, Allen's, the Eagle Mower and Reaper, and others. The last mentioned was exhibited by A. G. Mott, of Baltimore, agent of the House of Nourse Mason & Co., Boston. I heard a good account of this machine. The same Eastern House had several other articles on exhibition. I wish they had sent on samples of all their plows; for the show of plows was not very good, at least, I so judged, after careful observation.

Watt, of Richmond, was a large contributor that of plows. Mr. W. is a very intelligent and enterprising mechanic, as I had ample opportunity to learn. Iron plows were exhibited by R. B. Winston, of Richmond. There was a ma-\$25,) which will enable a man to drain sixty acres a day, with three mules to draw it. I shall refer

to this again.

There were various planters, seed-sowers, drills, &c., some of which excited much attention,and none more so, nor more deservedly, than Wiggin's Corn-planter, from Boston. This was in needlework and embroidery. This department made to be drawn by two horses, and to fertilize and plant four rows at "a bout." It is so made that a plowshare like implement opens a small furrow, the corn and fertilizers are dropped, covered by a contrivance that turns the furrow back, as it were, and then rolled by wide-rimmed wheels, which follow and finishes the work. This machine made a decided and favorable impression upon those farmers who have much planting to do on smooth land. It may be so constructed as to be used with one horse or two, and to plant the rows three, three and a half or four feet apart. To Mr. Wiggin was awarded the medal for his invention. It is just the thing for planting corn in the Western States, where the steam-plow, it would seem, is destined to turn up the soil ere long. Farmers of the West, just think of it! A steam-plow to till the soil and fit it for planting, Wiggin's planter to put in the seed, horse-hoes and cultivators to do the weeding and cultivating with, a harvester to gather it, worked by horses ments and machinery, designed to promote and Nourse, Mason & Co.'s huskers and shellers, and Sanford's mill for grinding it for stock or the table, leaves but little for hand labor, all, nearly, being done with machinery, propelled by steam or horse power.

There were subsoil plows and a great variety of other implements, that excited much attention, among which were barrows, carts, wagons, hay, straw, corn-stalk and husk cutters, platformscales, horse-powers, steam-engines, grist-mills, saw-mills, threshing-machines, a superb tobaccopress, a machine for making syrup of the Chi-

nese sugar cane, &c., &c.

The Platform Scales, for weighing hay, live stock and other ponderous products, patented by Strong & Ross, and manufactured by J. Howe, were used for weighing the live stock on the Fair ground.

These scales are the best adapted to the wants her wares, which find their way into all markets. of the farmers, not less than to others, of any Among the reapers and mowers, are Morrison's, that I have yet seen. They do not require a pit

to be dug to the depth of three or four feet, but may be placed upon the surface of the ground, and used as was illustrated on the Fair grounds. The knife-edges upon which the scales turn are protected from dulling by the use of balls; but | (new to me) in the culture of the common flat two simple levers are used, thus avoiding com- turnip, which has proved successful, I am induced plications; remarkable for their self-adjusting to furnish a detailed statement of the same, for power and accuracy, absence of check-rods, and the use of the thousands of farmers who read may be used for weighing upon an inclined plane, your paper. a peculiar and convenient quality for some localstance upon the centre of the platform, weighing year—so that the plowing is so much work done it, and then moving it to the several corners of in advance; extent half an acre. The soil is a the platform and weighing it, without showing light sandy loam. This was plowed July 22d; the slightest variation. The judges awarded the depth seven inches. After harrowing thoroughsilver medal and the bronze medal on large and ly, three ox-loads of composted manure and one small scales as first premiums, as stated by the barrel of wood ashes were spread on one-half of Secretary of the National Agricultural Society, it, viz., one-fourth of an acre, carefully harrowed More anon about implements.

ECONOMY IN FUEL.

Very much of the fuel consumed in our stoves is lost. If it is not dry, all the water it contains must be converted to steam, and this requires a large amount of heat. Could this steam be conducted to some reservoir, where the heat was wanted, and there condensed, the heat would be saved, but in ordinary cases, it passes with all its heat to the chimney. The only exception is when the stove-pipe is very long or passes through a cold room, and then, "O, what dirty work the dripping makes." Drying wood in the stove by fire, when sun and wind are afforded free, is like using sunlight to sleep by, and gas and oil to work by.

Another error consists in admitting more air within the stove than is necessary to promote a combustion of the fuel, and also admitting it where it does not aid the combustion. The object of air is to afford oxygen to unite with the carbon of the wood. In this chemical union, forming carbonic acid, heat is produced or given out. Now all the air admitted to the stove which being smaller in size, though finer grained, and does not so pass through the fire as to be decomposed and yield a portion, at least, of its oxygen, becomes only an absorber of heat already made, and a carrier of that heat off into the chimney to warm, not the room or its occupant, but "all outdoors." A very great error is often made by those who study economy. They split their wood fine, put but a little in the stove at a time, and give it a full draft in order to make it burn rapidly, so that a little wood shall make a large fire. But this little is repeated so often that the aggregate is large.

Would you study economy, convenience and comfort, then you will find them all in the same management. Leave most of your wood large. sun and wind to dry it. After your fire is startease and comfort.—Berkshire Culturist.

For the New England Farmer.

ENGLISH TURNIP CROP.

Mr. Brown:-Having tried an experiment

The ground selected for my turnip crop was They were tested by placing a heavy sub-part of a field intended for corn culture next in, the turnip seed sowed and bushed in. The seed came up readily and grew finely, for a time: but produced an indifferent crop of small roots. The remaining quarter of an acre was allowed to lie till August 5th, when it was carefully harrowed, and on one-half of it I spread seven bushels of a compost (which I prepare every year for raising fodder corn,) consisting of four parts of wood ashes, (taken damp from the cellar,) one part of hen manure and one part of plaster, (thoroughly mixed and suffered to stand ten days before using.) This was harrowed in, the seed sown and bushed in. On the remaining one-eighth of an acre, I spread six bushels of hen manure, well pulverized; and treated as above. This sowing came up readily and the plants grew rapidly, overtaking in size those sown fourteen days previously, in about four weeks, and then fairly "distancing" them. No culture was bestowed on the crop. It was harvested November 1011 vested November 10th. On the part where the hen manure was spread the yield was at the rate of 550 bushels per acre; the roots of large, uniform size, and of very fine fibre. Where the compost of hen manure, ashes and plaster was spread, the vield was somewhat lighter, the roots better for table use.

> I am induced to publish this statement, not because the yield was extraordinary, but to show our farmers, who keep two or three dozens of fowls, how they may make the droppings of the hen roost (commonly wasted) pay a large profit; and with little labor, secure a erop which helps make up the variety of an old fashioned "boiled dish," and helps to graduate for their stock the change from grass to dry winter fodder.

Josiah H. Temple.

Framingham, Nov. 12, 1858.

BIG CHIMNEYS .- The chimney at Bolton. Have a little quite fine for starting your fire, use England, mentioned the other day, is not the highest in the world, although a hundred feet ed, keep a full supply of wood in the stove, never taller than the Charlestown structure. There is letting it get down to one stick, and give it so one near Manchester, England, that is 430 feet much—just so much, and only so much air as will high, while the chimney shaft of the St. Rollox keep the fire sufficiently alive to give the desired chemical works, at Glasgow, is twenty feet higher temperature to the room. Any person who will still, being 450 feet high; and a yet larger one follow these directions with one stove, will save is in course of construction at Glasgow, for a enough each winter month to pay for the Cultur-chemical manufactory. It is to be 460 feet high, ist one year, besides securing a large amount of or nearly twice as tall as the Charlestown chimney, which is 239 feet high. In order to secure every stage of twenty-five feet a malleable iron of any other, except once, a little guano. ring 3½ inches broad, and 7-8 of an inch in character. the Arden lime.

For the New England Farmer.

CORN AGAIN --- ITS SUPERIORITY TO ANIMAL FOOD.

Mr. Editor:—Your Kennebunk correspondent, K., in your number for October 23, takes occasion to differ, "respectfully," from some of the views I have, from time to time, presented in your valuable columns; especially those which are found in an article entitled "Corn versus Beef." With your permission I wish to review, as "respectfully" as I can, his apparently honest objections; and remove, if possible, his difficulties. This I do the more freely, as, in his objection and animadversions, he represents a considerable proportion of your less scientific but

inquiring readers. He says, "Domestic animals form the basis of all farm improvement." Do they so? and do they form the basis of all garden improvement too? How was it with the first two gardeners? How has it been with the Chinese and with the Japanese of several centuries past--concerning the latter of whom the best authorities tell us that while they are, compared with the other dairy to furnish his food. It is, however, true, Asiatics, a highly cultivated and progressive that be was the scavenger of the family; and people, they subsist almost wholly by means of spade husbandry; not having in the whole empire, with its twenty to thirty millions of people, him to the city people, or exchange him for other as many domestic animals as there are in a single township of modern Sweden?

Perhaps he will say, "I do not see the necessity of going back to the days of Adam, nor to the opposite side of the globe; let us have facts mearer our own times, and at our own firesides.'

Very well; they are at nand.

Rev. Samuel Nott, of Wareham, who owns about an acre of land, and who has had it under high cultivation for (I think) about a quarter of a century, assures me that spading it up well, every year, instead of plowing it at all, with but a very little manure, is found to be the most economical course; and Mrs. N., who is no careless observer, concurs in his opinion. Are domestic animals so very indispensable here;

Mr. Abijah Johnson, of Auburndale, finds subimprovement. He does not wholly exclude manuring, but he relies chiefly, so far as he relies on them at all, on such manures as are made without domestic animals; as soapsuds, the con-

tents of the chamber, &c. &c.

I have myself cultivated one acre or so of land

its solidity and strength, the constructor is have bought has been pond-mud, night-soil, lime building into the centre of the brick work at and leached ashes. I have never bought a pound

Sometimes, indeed, I have found that certain The mortar used is of a peculiar ingredients of the soil which seemed needful to The foundation was built with a mix-certain crops, were wanting; but by little attenture of Irish lime, ironstone, Arden lime, and tion to the discoveries of chemistry, I have supsand, forming a cement impervious to damp. plied them without the aid of domestic animals. The rest of the shaft is to be built with mortar And so far am I from believing domestic animal of a similar description, with the exception of manures form the basis of all farm improvement, that I do not believe they ever form its basis. At most, they are to the soil, what condiments are to our food; or rather to the stomach and to digestion. Though I might not wholly exclude them, I never would place much permanent reliance upon them. How very evanescent, for example, guano!

And if further proof were needful to show your correspondent his mistake, I have but to refer him to frequent articles in your columns—and that, not from visionary, but highly practical men; such, for example, as that from Mr. French, on the first page of your number, October 30.

Your correspondent next tells us "cattle that are stall-fed are only finished off on corn after they have attained their full size on grass and hay." Grant it; but whence comes the grass and hay; except from land that might, at least, to a very large extent, produce corn, or rye, or potatoes, or fruit, just as well as "grass and hay?"

"The same is true," he adds, "with regard to pork, it being raised, chiefly, on the products of the dairy, and refuse articles of the orchard and farm, until fattening time." Now, I have seen a hog, within a few days, that, on being killed, weighed 400 pounds, whose owner never had any that they have a diseased dainty as their reward -unless, indeed, they should conclude to sell and better articles of human sustenance.

If the various considerations which your correspondent has presented were sufficient to induce me to change my "figures," the change would by no means be favorable to the views of my opponents in opinion. The owner of the hog weighing 400 pounds, says he cost him over \$30. Now, 200 laid out in farinaceous substances, which are much richer in that which nourishes the body, and quite rich enough in carbon for combusion in the lungs, would give us some 1800 pounds of the one, to 400 of the other. This is not, indeed, quite ten to one in figures; but at least ten to one in reality; since pork, in respect of bodily nutrition, is apt to remind one of the Irishman who said his fiddle had music enough in it, but he could not get it out. My soiling his old, worn-out lands, the basis of farm brother, who raises some five or six hundred pounds of pork, yearly, for family use, told me, the other day, that his hogs cost him enough to support (so far as mere food was concerned,) his whole family of six or seven persons.

No living man, in the temperate regions, can these twenty years, and with as much success, to who, by aid of powdered fern roots or bark interget much nutriment out of fat pork; and they say the least, as the average of my neighbors. mingled therewith, joined to the force of long My grounds have been constantly improving. habit, get a little nutriment out of fat, in high Yet I never kept a domestic animal in my life, latitudes, gain but a meagre and miserable supnor have I bought much manure. Indeed, what I son and other Position of Sir John Richardson and other British polar navigators, that Indian eorn, when obtainable in the Arctic regions, and wasteful farmer, if such a man can be called is better than fat.

This argument, if it proves any thing, proves said in regard to a certain character in his day, that we should eat half grass or hay, and half "I went by the field of the slothful," &c. It would flesh. Will he, then, adhere to it? Or if man, seem that words need not be multiplied to in-because he has four sharp-pointed teeth, ought duce economy and neatness in farming. A word to eat a part animal food, surely the sheep and to the wise is sufficient. Economy. the eamel, that have four sharper teeth than man, ought to eat quite as much flesh, fowl or fish, as the latter.

That pork and beef eaters are better fighters haps they may benefit some of us. than vegetarians, I will not now stop to deny, except to say that the Makrattas, the greatest fighters in India, were the most rigid vegetarians; nor that children of one year old sometimes "choose meat;" nor yet to prove that all the women and children who eat them are diseased, as the consequence. W. A. A.

Auburndale, Nov. 1, 1858.

For the New England Farmer.

The summer, and feeding it late in the fall by their cattle. In a few years they find the land "run out" as it is called, and they find it necessary to "neatness in farming." In juxtaposition with neatness is economy in farming. These remarks on neatness led me to reflect on the amount of the running out may be prevented by a literate forming remarks of the running out may be prevented by a literate forming remarks. waste in our farming community.

either to body, mind, or estate. When farm- which certain kinds of raw material, such as ma-work is not pressing, time is passed idly away nure from the barnyard—or muck or ashes, &c., instead of devoting these leisure hours in clear- is manufactured into grass, but it must have the ing waste land, collecting and placing under cov- raw material to work up, or your mill will stop. er wood which has been broken from trees, and

free for culture. Stony ground, which is unfit-ted for cultivation could be made to produce a fine growth of wood, and one inch of land on a ginning to deteriorate in consequence of the angood farm would not be left to waste.

only farm, you may rest assured that the manag- a few rods and wait the results.—Maine Farmer.

er of that farm is no economist.

These remarks will apply to every department of farming. How many there are who so manas their neighbor's.

a farmer. A shingle off here, and there a board Your correspondent says something about the hanging by one nail—a door with one hinge brokteeth—that those of man indicate a mixed diet, en off. I need not quote what the wise man has

North Leominster, 1858.

REMARKS.—These are more than hints—per-

MANURING GRASS LANDS IN AUTUMN.

Many of our readers do not seem to be aware hogs we cat are diseased hogs, and all the men, that mowing lands, in order to be kept up in fertility and productiveness for a series of years, require some sort of dressing every year or two. They will work hard, and be to great expense to put the land in good order, and to seed it well. They then begin to mow it, and follow it up year after year, taking a heavy crop of hay at first in

tle seasonable application of fertilizers, without In the first place, I would notice the waste of the labor and cost of plowing and reseeding so time-how many hours are passed to no profit, often. Your land is a workshop or laboratory, in

We have found by our own experience, and by thus liable to become rotten. From an ordina- observing the experiments of others, that the ry farm, sufficient summer fuel could thus be best time to put many fertilizers, such as decom-Waste land; how much land is suffered to run kinds, and even bone dust and plaster of Paris, is to waste on almost every farm. On how many in the fall, before the fall rains commence. By farms do you see bushes and rank weeds by the applying them at this season, the coarser particles road fences, perhaps from six to eighteen feet, become disintegrated and mingled with the surand thus the stone wall and fences along the face of the soil, and the whole become more infarm are hid from view. Bushes are suffered to timately incorporated with the earth about the grow, when a few hours, which are often spent grass roots, not only stimulating them by their in idleness, would remove, and leave the land nutritive elements, but also affording protection

nual cropping, and we nearly all of us have, In fact, economy and neatness are inseparable, would do well to put on the dressing as soon as one and the same. Wherever you see a neat may be now, so that they may be benefited by farm, be assured the manager of that farm is an it, not only during the coming winter, but early economical man; and, whenever you see a slov- in the spring. If you cannot do any better, try

LEAVES ARE CHEMISTS.—Have you ever conage in the feeding of cattle, swine or poultry, as sidered the amount of surface a single tree preto waste half their food, and consequently their sents to the atmosphere? the extent of surface of neat stock are never thrifty, their fowls, many of leaves in a field of corn? Measure a leaf—take them, at least, are unprofitable, they have eggs the area of one side, multiply it by two, (the numonly half the season, and not abundant even ber of sides,) and that product by the number of them. Porkers that might be made to weigh 450 leaves on a single tree! This surface is all necestages and the season of the season o to 500 lbs., weigh little more than half as much sary to the growth of the tree. If you take off a their neighbor's.

Again, look at the buildings of the slovenly broader. They separate from the atmosphere and

swallow the food adapted to the wants of the tree. families of plants with organizations of the most Think of this, reader; here is a suggestion for fragile texture, are found to have these powers some interesting pencil-work. You have a pencil equally; some as to heat, others as to cold. and a power to use it. Burn a plant, and how small a portion remains as ashes. Where is the in connection with the study of climate, and the the plant obtain this organic matter for its con-|Himalaya from Dr. Hooker's Journal, are well struction? Not altogether from the atmosphere deserving attention: direct, but when we consider that each square inch of the surface of the leaves of some plants Belcuppee (altitude 1219 feet) in the Behar contains from 150,000 to 175,000 mouths, which mountains, north-west of Calcutta, (lat. 24 N., absorb and assist in preparing the food for the long. 86 E.,) are four in number, and rise in as plant, we may form some idea of their impor- many ruined brick tanks about two yards across.

POWERS OF VEGETATION TO RESIST EXTREMES OF TEMPERATURE.

It is most essential to the success of the operations, both of the agriculturist and the horticul-about 80 yards off. turist, that as comprehensive a view as possible should be obtained of the organization of the spectively 169°, 170°, 173°, and 190° of the cold, vegetable kingdom, and of the powers of resistance that it possesses of the extremes of temperature. The hottest is the middle of the five. shall presently advert to as growing in the hot taste. These and the other warm ones cover the springs of the Himalaya mountains, yet the bricks and surrounding rocks with a thick inknowledge of such powers of endurance in differ-crustation of salts. ent families of plants, when combined with other "Conferva abounds in the warm stream from knowledge of various descriptions, connected the springs, and two species, one ochreous brown with the organs of plants, tends immensely (if it and the other green, occur on the margin of the

accurate, in whatever branch of scientific inquiry ture is cooled down to 168° and as low as 90°. they arrived at, and applied to. But in no department of practical knowledge is it more need-degree a constitution capable of resisting the ful to guard against them, than in the prosecution of agricultural pursuits. Slight differences cyperacea, a cyperas, and an elescharis, having of temperature, of moisture, or of atmospheric their roots in water of 100°, and where they are change, have frequently been sufficient to con-probably exposed to greater heat; and a timbrifound and to obscure the most carefully conduct-stylis at 98°; all were very luxuriant. From the ed experiments. And in the much canvassed, but edges of the four hot springs I gathered sixteen yet unsolved, problem of the potato disease, we species of flowering plants, and from the cold have at this moment unfortunately patent evitank five, which did not grow in the hot. A wadence that our present acquirements in agriculter-beetle, colymbetes, and notonecta, abounded ture have by no means attained a degree of ef- in water at 112° with quantities of dead shells; ficiency, with which we can rest satisfied.

Nothing is more surprising in the study of and with various other water-beetles." vegetable physiology than the variation of the powers of endurance of the extremes of heat and ceived that the temperature of the hottest spring cold in different families. And this is the more was 100° Farenheit, which is but little below that remarkable, because those powers appear to have of boiling water. And although not so luxuriant little or nothing in connection with the texture as in the cooler springs, yet vegetable life was of their organization. In reference to the pow-found to exist and grow in that high temperaers of endurance of moisture and drought, it is ture. Had a cabbage or a potato been placed by otherwise, at least to a considerable extent. For the side of the conferva in that spring, it would we find the Cacti family, and many others that have been soon cooked ready for the dinner taare indigenous to climates that have long seasons of drought, are provided with organs that of heat possessed by a living plant, therefore, can are calculated to retain, as it were, reservoirs of be easily conceived. moisture, whilst the organization of their cuticle of resisting extremes of heat and cold, many character, that it may appear desirable to intro-

This is a subject that deserves consideration In the atmosphere. Where then does following description of the hot springs of the

"The hot-springs (called Soorujkoond) near Another tank fed by a cold spring about twice that size flows between two of the hot, only two or three paces distant from one of the latter on either hand. All burst through the Gueiss rocks, meet in one stream after a few yards, and are conducted by brick canals to a pool of cold water

"The temperatures of the hot springs were reature. For although practically he may pass The water of the cold spring is sweet but not through life without ever even seeing the moss good, and emits gaseous bubbles; it was covered which in Lapland not only lives, but grows be- with a green floating conferra. Of the four hot neath the snow, and furnishes the frugal meal of springs the most copious is about three feet the docile reindeer, and without boiling eggs for deep, bubbles constantly, boils eggs, and though his breakfast reposed upon the herbage which we brilliantly clear, has an exceedingly nauseous

does nothing else) to make the inquiring agricultanks themselves, and in the hottest water; the turist cautious and careful in his experiments, brown is the best salamander, and forms a belt and in the deductions which he draws from them in deeper water than the green; both appear in Hastily-formed conclusions are seldom very broad luxuriant strata, whenever the temperafrogs were very lively, with live shells at 90°;

From the foregoing quotation it will be per-

With such well attested facts before us, we is such as to lessen evaporation and exhalation may well hesitate before we form a decided opinfrom their surface. But in regard to the powers ion upon the adaptability of any plant of a new duce as an agricultural crop. It is not possible ion naturally enough grew up, that the culture to judge of many, from the result of two or three of beets, turnips, mangolds, &c. was unprofitable trials only. Because, although oftentimes we may be quite right in the view we take of our first experiments, yet it will frequently occur that until by repeated trials we become by experience prompted us to look again at some of the statewell acquainted with the constitution of a new ments made in regard to these crops, and we plant, we may attribute our success or our failure to causes which, in fact, had nothing to do with either. And therefore we may so be led into error which further experiment would dispel.

is familiar with the vast changes that have taken place within the last few years in the cultivation of fruits and vegetables. Many crops that some years back were considered to require years (especially in fruits,) of previous care of the plants at the close of the eighteenth century, the writer to produce them, are now produced in less than says:one. And this with things that have been familiar to the gardener for above an hundred years.

In fact, the agriculturist no less than the horticulturist, who would prosecute his calling with due reference to the guidance of scientific principles, will never assume that he has arrived at a crop. Whilst he will be cautious not to experknowledge of the best mode of cultivating any mentalize without due regard to prudence and to principles, he will nevertheless be ever earnest in the "forward" effort, and will take care that his labors are as steadily directed by his judgment, as his plow is by his hand .-- American Farmer's Magazine.

THE IMPORTANCE OF ROOT CROPS.

Several of our intelligent correspondents are amusing themselves, in giving expression to their Sir, he was a noble animal; we killed him at views in relation to the value and importance of Christmas, and have lived upon him ever since." root crops, in our farm economy. Their opinions -as the careful reader has undoubtedly observed —are widely different. That they are sincere winter food, except hay, was raised," to show, as opinions, we can have no doubt-and we have as little doubt that there existed widely different circumstances between the parties, which led to the different conclusions to which they severally

For many years, our own opinions were unfavorable to the culture of roots as feed for stock; but they were founded more upon the general had gone through with these, we became conviews we had entertained.

generally have disliked,-and hence the opin-which consolidated it by their feet, prepared the

as food for stock.

The discussion of our correspondents has find the highest testimony in their favor in abundance, both at home and abroad.

In the London Quarterly Review for April last, That this is so, will be evident to any one who is a long article reviewing five or six works upon agricultural subjects, in which we find statements having a direct bearing upon our subject. In speaking of the condition of English agriculture

> "The greater number of breeds were largeboned and ill-shaped, greedy eaters, and slow in arriving at maturity; while as very little winter food, except hay, was raised, the meat laid on by grass in the summer was lost, or barely maintained, in winter. Fresh meat for six months of the personages. Within the recollection of many now living, first-class farmers in Herefordshire salted down an old cow in the autumn, which, with flitches of fat bacon, supplied their families with meat until the spring. Esquire Bedel Gunning, in his 'Memorials of Cambridge,' relates that when Dr. Makepeace Thackeray settled in Chester, about the beginning of the present century. he presented one of his tenants with a bull-calf of a superior breed. On his inquiring after it in the following spring, the farmer gratefully replied,

> We have underscored the words "very little one reason, why the cattle were worthy of the description given them.

> After speaking at considerable length of the changes effected in the breeds of cattle and sheep, and the light thrown upon these subjects by the investigations of ARTHUR YOUNG, COBBETT, ROBERT BAKEWELL, and others, the writer says:

"But the fattening qualities and early maturity expression of those around us, than upon investi- of the improved stock would have been of little gation and actual production and use of them value beyond the few rich grazing districts of the under our own labor and supervision. When we Midland counties, without an addition to the supply of food. The best arable land of the kingdom had been exhausted by long years of cultivinced that we were in error, and that the "gen-eral expression of opinion around us," to which absorbed one-third of the soil, failed to restore we have alluded, had no better basis than the its fertility. A new source of agricultural wealth was discovered in turnips, which, as their impor-The successful culture of roots requires more their early cultivators much the same sort of entant qualities became known excited in many of plowing and harrowing, and preparation gener-thusiasm as they did in Lord Monboddo, who on ally, than our corn or grain crops, and more care in tending them after the seed is committed to the ground. It is more delicate work—requiring more thought and skill and more exactness of arrangement, and all this is what farmers light land, and afterwards eaten down by sheep way for corn-crops on wastes that had previously Young said that he should be heard with increbeen given up to the rabbits."

Under this system, a Mr. RODWELL made the folk from this indispensable portion of the proproduce of 820 acres of land worth one hundred cess. The third difficulty was to induce them to and fifty thousand dollars more in twenty-eight replace broadcast sowing by drilling, which apunder the old system, without roots. This great than peppering the land from a cruet. The bigadvance in arable farming took its rise in the county of Norfolk. Again-

sagacity to see was the parent of all the future manship that they can scarcely be recognized." Without winter food little stock could, be kept, without stock there could be little man-ure, and with little manure there could not be nery in our labor, it is not difficult to anticipate the dung-heap in turn was mainly appropriated plow on the beautiful and fertile prairies of the to securing the largest possible store of turnips. West, almost makes real the expression in the This tillage in a circle was as productive as it fine lines of Mr. Thockers on the Great Exhibit by the root-crops, afterwards yielded abundant tion in England in 1851. harvests of corn; and as we have already stated, the treading of the sheep upon the loose soil, while they fed off a portion of the turnips, gave it the necessary firmness. Thus through the agency of turnips a full fold and a full bullockyard made a full granary. Essex and Suffolk soon copied the method, but they did not carry it so far as in Norfolk; and in many places the turnips were never thinned or hood, upon which their size and consequently nearly all their value depended."

With a single extract more we will leave this highly interesting and instructive article, hoping our own people.

rier to imitation, and three-fourths of England ious processions parade the streets, imploring only heard of what was done in the well-cultivat- the protection of heaven for their endangered ed fourth to ridicule and despise it. When the city. In the interior of Guiana, on the other father of Mr. George Turner, of Barton, Devon, hand, the sun and stars are seldom visible, and the well-known breeder of Devon cattle and of the rains not unfrequently continue for five or Leicester sheep, who had learned something in six months, with scarcely any intermission. his visits with stock to Holkham, began to drill For the last four weeks, we have had very next.' Indeed, the whole history of the turnip seventh."

cultivation affords a characteristic contrast between the spirit of the past and the present. It or three nights. For more than a month we on a field in Northumberland till between 1760 time to come. and 1770. The second difficulty was to get them Farmers are about discouraged. In addition

dulity in most counties when he bore testimony Under this system, a Mr. Rodwell made the to the vast benefits which were derived in Noryears, than his predecessor did in the same time, peared, as we see, to novices no less ridiculous mechanics whom he now welcomes as among his best friends. The implements, even by the first "Turnips, which are said by Young to have manufacturers, from the absence of criticism and been brought into farm cultivation by the cele-brated Jethro Tull, found such a zealous advo-and from the want of artisans skilled in workcate in Lord Townshend, that he got the name of ing in iron, were, however excellent in idea, both 'Turnip Townshend.' Pope speaks of 'all Towns- clumsy and costly. The choicest specimens which hend's turnips,' in one of his imitations of Hor-existed in 1840 have been so altered in execuace, published in 1737. This crop he had the tion by cheaper materials and improved work-

With the aid of root crops, and that of machimuch of anything else. The turnips were, there- the time when our farmers shall labor less, but fore, employed to secure a large dung-heap, and yet prosper more. The success of the steamwas simple. The ground, cleaned and enriched fine lines of Mr. Thackeray on the Great Exhibi-

> Look yonder where the engines ton , The Nation's arms of conquest are, The trophies of her bloodless war: Brave weapons these. Victorious over wave and soil, With these she sails, she weaves, she tills. Pierces the everlasting hills And spans the seas.

> > For the New England Farmer.

IOWA---ITS CLIMATE AND CROPS.

We must be somewhere about mid-way beat a future time to show equally as decided testi- tween the extremes of dryness and wetness menmony in favor of root culture, in the practice of tioned by Prof. Brocklesby, in his work on meteshower at Lima, in Peru, that it is a source of "In the old days distance operated as a bar-terror; and when such an event happens, relig-

turnips, a well-to-do neighbor looked down from nearly the same kind of weather as prevails on the dividing bank and said to his son, I suppose the Isle of Chiloe, (43° S. lat.,) where "it rains your father will be sowing pepper out of a cruet six days of the week, and is cloudy on the

took upwards of a century to establish the proper have had none; but almost incessant rainy and growth of this crop, notwithstanding that the cloudy weather, with some snow. I picked towealth of meat and corn which proceeded from it matoes from my vines yesterday, (Nov. 11th,) as was as plain to those who would open their eyes as fresh as in September. Many seeds germinated, that a guinea was worth one-and-twenty-shillings, and currant bushes and apple trees started anew. The first difficulty was to persuade farmers to in October. To-day, (12th.) it has snowed stead-try it at all; and not one turnip was ever seen, ily without any prospect of fair weather for some

to be at the expense of hoeing, insomuch that to the failure of the wheat, oats and potatoes, we

now have to include the buckwheat, which is nearly or quite ruined by the leng continued wet April, by A. B. Davis, of Philadelphia, and operweather. Corn is very good, but most of it is ating on an entirely novel principle, being so still in the field. Broom corn is also good, and constructed and arranged that the power required well secured; but there is very little of it raised in driving, is expended in separating the corn in this region. The Chinese sugar cane has sur- from the cob, without any grinding or tearing of passed all expectation. It was only planted by the latter. The machine may be fed with a shova few, as an experiment; but proves so satisfactory that thousands of acres will be put in another or falls into a receptacle prepared for it, thus sufficiently good, considering the imperfect means the corn from cobs, &c. of manufacture, to warrant the confident expectation of its taking the place speedily of our best a machine that is highly approved. It is a Delsirups, at a much lower figure than they can be aware product. It has received about 40 silver obtained.

the wheat, will no doubt be, to lead the people capital thing for planting or drilling wheat, rye, to try other crops as a staple. And there can be or other grain, which is undoubtedly the true little doubt that some other articles can be made method of grain planting. It is made so as to

a number of years past.

have had rather more than an even share, we corn-sheller that will shell 300 bushels a day,have had great health, as a State; and have abun-plantation mill, and threshing machine. dant cause for Thanksgiving, which we propose to celebrate on the same day as in Massachusetts. 31000 premium of the Massachusetts Society, in Among other things to be grateful for, our wor- 1856, the first prize awarded by the Indiana State thy Governor Lowe mentions the remarkable Agricultural Society, the same year; also the outpouring of the Spirit, "by which the faces of first awarded by the Royal Society of Eugland, multitudes have been turned Heavenward. Tipton, Iowa, Nov. 12. M. K. C.

For the New England Farmer.

UNITED STATES AGRICULTURAL FAIR AT RICHMOND.

One of the most attractive implements on the at Conrad's Store, Rockingham Co. fair ground, to the farmer, was A. P. ROUTT's patent Drain Plow. This implement makes a bition was a Tobacco Press by Musser & Confurrow a foot deep, two feet and a half wide at MAN. This machine is of great importance to the top and four inches wide at the bottom, the tobacco manufacturers. sides sloping at such an angle as to insure the drain from falling in by the frost, the whole be- tion Mill, patented the present year, price \$15, ing perfectly completed at one operation by this for grinding feed for stock and grain for family the very thing for surface draining, which, on printer's ink, emery, &c., seemed like a valuable wet lands, is certainly very beneficial where underdraining has not been done. The manufactory Douglas & Brothers exhibited a Sugar turer resides in Somerset, Orange County, Va. Cane Mill for making sugar of the Chinese sugar The plow is so made that it opens a deep furrow, cane. turning both to the right and left, and is followed both on the sides and the bottom of the surface intimation before given, that the South is prodrain, thus doing very handsome work. The gressing in inventing and manufacturing agriculprice, as heretofore stated, is \$25, and with it, a tural machines. 1 might add other things, but man can, with a good pair of team horses, sur-let these suffice. Farm implements and machines face-drain 60 acres of land a day.

which the regulator is attached, which steadies furnishing of farm tools and machinery. the plow; fourth, a regulator for the depth of Richmond, Va.

We are daily using the sirup, which is avoiding the work of sifting in order to separate

Pennock's patent Seed and Grain Planter is medals, and took the highest award at the World's One good result of the extensive failure of Fair, at the New York Crystal Palace. It is a much more productive than wheat has been for distribute fertilizers at the time of sowing, if desired. He also exhibited Pennock's Iron Har-Notwithstanding the hard times, of which we vester, or new combined Reaper and Mower,-a

The Eagle Mower and Reaper, that took the Ireland and Scotland, in 1857, was exhibited by

A. G. Mott, agent.

R. C. MAUCK'S Corn Harvester will enable three men and a boy, with one or two horses, to cut and stook 10 acres of corn a day. By this machine the hardest part of the labor is performed by horses. It is a desideratum to growers of Indian corn. Mr. Mauck is a Virginian, residing

Another "Old Dominion" invention on exhi-MAN. This machine is of great importance to

Sanford's Reciprocating Portable and Plantaplow, or tool. Those who have tried it say it is use; also, plaster, bones, cement, drugs, paints,

DOUGLAS & BROTHERS exhibited a Sugar

Thus have I noticed some of the important maby a heavy iron roller that hardens the earth chines shown at the fair, serving to confirm the are greatly multiplying on every hand. Some of A patent subsoil turn plow, combining four these are very useful, others moderately so, and distinct features, is a consideration for farmers, others still, or little or no economical value to First, the combination of the subsoil and turn farmers. Such results are incident to the lives plow; second, the movableness of the mould-and fortunes of inventors and manufacturers. boards, which can be adapted to deep or shallow They serve to show, on the whole, that great plowing, as desirable; third, a second bar to progress and improvement are making in the

The subject for discussion, one evening durthe furrow. It may be used to break up the clay ing the fair, at the "African Church," was, "Farm without turning it up. It is highly recommended Implements." LEANDER WETHELELL, of Bosby those who have tried it. The proprietors, ton, was invited to open the discussion, which he Messrs. UTLEY, SMITH and MACFEE, reside in did, and was followed by Messrs. WATT, of Richmond, Spangley, of Philadelphia, Rogers, of

Maryland, and others. It was one of the most | 75 lbs. in the ear into a barrel, covered securely, heard.

that utility, strength and durability are too often curate experimenter, said that the shrinkage of sacrificed to faney, and lightness. One speaker corn from harvest to merchantable condition was scouted the idea of making a good economical 20 per cent. I have no doubt, we may safely buy mower and reaper to be worked with one horse, or sell at harvest, calling 75 lbs. a bushel. There stating that no such machine could be expected may be, as you suggest, some difference in the to do the work so well as a good two-horse ma-ripeness of the several sorts of corn at the usual chine. He maintained that implements should time of harvest, but if frosts have occurred, which be well made, and of good stock, which, he add-usually is the case, there is no danger of excesed, is not the case now. Poor stock and fancy sive weight in the greenest fields, for the weight work supply the market with frail and almost will be much lighter there than in the wellworthless wares.

The demand for low priced tools has done much to bring about this state of things. Demand good implements, made of good stock, and have any doubts, try it. VIATOR.

For the New England Farmer.

MEASUREMENT OF CORN CROPS.

Mr. Editor:—The luxuriant growth of Indian corn the present season, brought to mind a communica ion from the veteran farmer of Plymouth county, on the measurement of this crop; and the best mode of determining the quantity grown to the acre. There is no man whose judgment and experience is more to be relied on than Mr. Allen's. There is no crop grown upon our farms of more importance than Indian corn. enclose his letter, to be used at your discretion, omitting such paragraphs as do not relate to this thick planting secures a great crop, but that thin Very truly yours, subject. J. W. Proctor.

Pembroke, Feb. 19, 1858. was the practice for many years, out at length to minform rule, the progress of improvements was thought the measurement should be by a disinterested person, and a supervisor was chosen, who was directed to select and weigh an average of the progress of improvements would be better understood, and the motives to emulation in curen, who was directed to select and weigh an average of the progress of improvements would be better understood, and the motives to emulation in curen, who was directed to select and weigh an average of the progress of improvements would be better distinctions. erage rod and estimate the crop accordingly. It is very manifest that in every case there would be some danger of error in judgment, but an agent could not devote so much time as would be necessary to weight he whole crop. The last change, from 75 lbs. to 85 lbs. as a bushel, was made, side telling you when it rains and when it shines, since I ceased to participate in the doings of the and what he has to sell in the way of seeds and society, excepting occupying the place of supervisor a short time after the death of Mr. Howard. Had I been at the meeting I should have felt bound to oppose the change, because I firmly aging a garden. believe that 75 lbs. in the ear at harvest will make a bushel of shelled corn when ripe for the market, and for this belief have some better evi- been reduced thirty per cent., which is expected dence than conjecture. At harvest, one year, I put to diminish the drain of specie from this country

profitable discussions on the subject I have ever and let it remain till January, when I shelled and measured and there was a bushel and between one It was maintained by some of the speakers and two quarts. Judge Buel, who was a pretty acripened field.

It seems to me if all societes would observe one rule in the measurement of corn at harvest, we should soon become less suspicious of the honesty pay the price, and you will get them. If you of applicants for premiums, and of the fidelity of agents. Your secretary, Mr. Dodge, wrote to me eoneerning my premium crop of corn, which has occasioned so many remarks, inquiring how it was managed, expressing his surprise at the amount, and saying he thought a large crop had been reported in that county, but it was much less than mine. You, or some other friend, soon after sent me your Transactions. I looked at the gentleman's statement, and found his corn was planted so much wider apart than mine, that nothing was wanting to make his crop equal or superior to mine but the supply of his deficient number of plants. In my experience, many applicants have failed of obtaining premiums merely from the lack of a sufficient number of corn plants. I would not be understood to say that planting occasions a smaller erop in many instances than we might be justified in hoping for, from the preparations of the field. Corn plants will prosper and mature wherever they can find DEAR SIR :- In reply to your candid inquiries, sufficient food and stand accessible to the influ-I will state the rules which have governed the P. ences of the air and the sun. Both the Secretary Co. Society in its decisions on the measurement of the Board of Agriculture and yourself seem to of Indian corn from the commencement of its op-think corn should be dry enough for market beerations. At first the requisition was that the fore it is measured; can you describe any way whole crop should be measured in a basket, one in which this can be done, and not leave open a basketfull shelled, and the product of the acre wide door for suspicion or fraud? You probably estimated by that. This rule soon proved unsatcan, yet it would require more labor and expense isfactory, and it was then determined that the than you would think a society should submit to. whole crop should be weighed, calling seventy- I think if the Board of Agriculture would recomfive pounds a bushel, and that the weight should mend to county societies the measurement of be certified by the owner and one laborer. This corn crops at harvest by some reasonable and was the practice for many years, but at length it uniform rule, the progress of improvement in the

> Resectfully yours, MORRILL ALLEN. HON. JOHN W. PROCTOR.

BUIST'S ALMANAC AND GARDEN MANUAL, be-

The duty on flour imported into Brazil, has

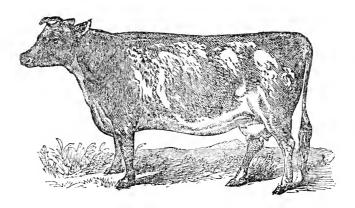


FIGURE OF AN AYRSHIRE COW.

The Ayrshire breed of cows is at present gain-jearcass of the pure-bred Ayrshire is light, particing favor among the milk producers of New Eng- ularly the fore quarters, which is considered by land—we mean those who produce milk for market. How they stand with dairymen who control the milk into butter and shoese we do not the hips. vert the milk into butter and cheese, we do not know; nor do we know whether fair trials have said to have realized two hundred and fifty dolyet been made with them among the dairymen of lars in seven months from one good cow; and it Western Massachusetts, or in New Hampshire or is stated, on high authority, that a dollar a day Vermont. It is generally conceded that they are come from good cows under similar circumstana gentle race, easily kept, and produce well for ees, and that seventy-five cents a day is below the cost of keeping.

In looking over Mr. Secretary Flint's new work on "Milch Cows and Dairy Farming," we feed, would be considerably less. find a portrait of a fine cow of this breed, and cow, for the first two or three months after calvwith his consent give the engraving and his des- ing, at five gallons a day, on an average; for the cription of it to our readers. He says:

out Great Britain and this country for their ex- cow; but, allowing for some unproductive cows, cellent dairy qualities. Though the most recent he estimates the average of a dairy at 600 gallons in their origin, they are pretty distinct from the per annum for each cow. Three gallons and a other Scotch and English races. In color, the half of the Ayrshire cow's milk will yield one pure Ayrshires are generally red and white, spotted or mottled, not roan, like many of the shorthorns, but often presenting a bright contrast of cheese, at the rate of 24 pounds to 28 gallons of colors. They are sometimes, though rarely, near-milk, as the yield of every cow, as a fair and perly or quite all red, and sometimes black and haps rather low average, in an Ayrshire dairy, white; but the favorite color is red and white during the year. Aiton sets the yield much high-brightly contrasted, and by some, strawberry er, saying that "thousands of the best Ayrshire color is preferred. The head is small, fine, and dairy-cows, when in prime condition and well clean; the face long, and narrow at the muzzle, fed, produce 1000 gallons of milk per annum; with a sprightly yet generally mild expression; that in general three and three-quarters to four eye small, smart, and lively; the horns short, gallons of their milk will yield a pound and a fine and slightly twisted upwards, set wide apart half of butter; and that 27½ gallons of their milk at the roots; the neck thin; body enlarging from will make 21 pounds of full-milk cheese." Mr. fore to hind quarters; the back straight and narrow, but broad across the loins; joints rather lose and open; ribs rather flat; hind quarters soil, his dairy produced an average of 550 gallons at the flat of the straight and hard soil, his dairy produced an average of 550 gallons rather thin; bone fine; tail long, fine and bushy only. at the end; hair generally thin and soft; udder light color and capacious, extending well forward this country by John P. Cushing, Esq., of Mas-

A cow-feeder in Glasgow, selling fresh milk, is for six months of the year is no uncommon inthe average. But this implies high and judicious feeding, of course; the average yield, on ordinary

Youatt estimates the daily yield of an Ayrshire next three months, at three gallons; and for the next four months, at one gallon and a half. This "The Ayrshires are justly celebrated through-would be 850 gallons as the annual average of a

One of the four cows originally imported into under the belly; teats of the cow of medium sachusetts, gave in one year 3864 quarts, beer size, generally set regularly and wide apart; measure, or about 464 gallons, at ten pounds to milk-veins prominent and well developed. The

asserted, on good authority, that the first Ayr-odor. In this region, regularity in feeding, as shire cow imported by the Massachusetts Societo quantity and time, by some is considered sufty for the promotion of Agriculture, in 1837, ficient remedy for common turnips. Experience yielded sixteen pounds of butter a week, for sev-proves that corn and carrots make first quality eral weeks in succession, on grass feed only. pork. Cows that give milk require more food in These yields are not so large as those stated by Aiton; but it should, perhaps, be recollected that horses; twenty-five to thirty pounds of dry hay our climate is less favorable to the production of daily is the usual consumption of farm animals. milk than that of England and Scotland, and that Of course, if roots or meal are added the conno cow imported after arriving at maturity could sumption will be less. be expected to yield as much, under the same circumstances, as one bred on the spot where the trial is made, and perfectly acclimated.

THE MILK BUSINESS.

The Springfield (Mass.) Republican furnishes the following facts in relation to the supply of milk for that city:

We have made an effort to learn some of the aggregates of this industry-to compare the average quantity of milk per cow in each herd; and to learn the different methods of feeding; all points of curious interest and suggestive value. For this purpose circulars have been addressed to most of the milkmen of this city, of course, with varying success. All have not answered, but enough have done so to give a nearer estimate than otherwise would be possible. There are from twelve to fourteen regular dealers of milk in this city. Not far from 2,000 quarts, or \$100 worth, are sold daily through the year. The highest quantity, sold by any one milkman, in the best of the season, so far as known, is 400 quarts daily, and this man, in the average for the year, is put down at 250 quarts. Taking all the milkmen, the average is 1663 quarts each daily. To raise this milk requires a herd of about 300 cows, which give, on an average, about seven quarts. The force requisite to carry on this business equals one man for every six cows, or an aggregate of fifty men, summer and winter. The best milkers, generally, are crosses of Short-Horn with Ayrshire and Natives, but good milkers can be found of almost every breed.

vexed question. In the opinions received, coting the robin. Perhaps the injury sustained by ton seed meal, corn, rye and buckwheat ground together, and roots, with rowen hay, have equal prominence. The order of feeding cows varies by my neighbors in their pastures, yet in my pasfirst thing in the morning, and others late at I find it a slow operation to eradicate the wild night. Some give hav the first thing, and oth-herbage, of which the seeds were distributed by ers reserve it till noon. Each feeder gives his the troublesome birds. Did not man have dopractice and reasons with equal freedom—which minion given him over the birds of the air, as is a very hopeful system in any debate. Our conclusion is, that the best order is as follows: the question, "Did not the Power that created Wet cut feed mixed with meal after each milk-the robin endow him with an instinct to sustain ing, with hay and roots between. Neither roots life?" I answer, "Yes." Did he not give the nor grain should be fed upon an empty stomach. same power and instinct to the rattlesnake? then In the first case, the milk is more likely to receive the odor of the roots. In the latter the apport and instinct to the radical set of the roots. In the latter the apport is greatly impaired for other food. No fact presence of fetil and corrupting matter, have insumer clearly established than that the flavor and quality of the milk and flesh depend in part upon the quality of the food. Various expeditive parts have been recoved to commend any plan for the destruction of the onion worm? ents have been resorted to counteract bad fla- any plan for the destruction of the onion worm?

half beer quarts a day for the whole year. It is hours before feeding, in order to escape that

SWINGING IN THE BARN.

Swing away, From the great cross-beam-Through the scented clover-hay, Sweet as any dream!

Higher vet! Up, between the eaves, Where the grey doves cooing flit 'Twixt the sun-gilt leaves.

Here we go! Whistle, merry wind! 'Tis a long day you must blow. Lighter hearts to find.

Swing away! Sweep the rough barn floor' While we gaze on Arcady Framed in by the door.

One, two, three! Quick, the round red sun, Hid behind you twisted tree, Means to end the fun!

Swing away! Over busks and grain! Shall we ever be as gay If we swing again?

For the New England Farmer.

THE ROBIN'S TITLE TO IMMUNITY QUESTIONED.

Mr. Editor:—In the Farmer of Nov. 6th, some one sailing without colors is doubting my The feed that produces the most milk is yet a sincerity, in respect to my communication regardwith different individuals. Some feed roots the ture land I perceive an injury more lasting, for vors. The English heat their milk, and then add I have no doubt his life is as dear to him as the saltpetre to it to prevent the taste of cabbages. The Virginians slice and salt rutabagas, twelve source. Do not the insects that prey upon fruits livelihood as their destroyer, (as he would have bushels in four hours' time. The turnips were us believe the robin to be,) "notwithstanding large and very smooth, being free from fibers. the title deeds of the most grasping miser?" I have commenced feeding them to cows, at slaughterer of insects that God created and endowed with instinct to sustain life?

The aim of man is or ought to be, progress. Are we not having wiser and better laws in every succeeding generation? Are they now perfect? By no means, and never can be while man is finite. Is it not known that committees draft all our laws? Even they do not at all times see the effects of them in all their bearings; they pass through their usual stages without much debating as to their merits, and frequently with no apparent interest felt in regard to them; then they become the laws of the land. If our laws are perfect, what need of further legislation? for this day our statute-books are voluminous, (he would have us believe,) containing just laws, burdensome to no virtuous and honorable calling. "Those living in glass houses should not throw stones.'

I was much interested in the perusal of Mr. Flagg's communication; may not the bird that survived in his imprisonment have had an acquired appetite, a vitiated appetite, not dissimilar to the user of opium, arsenic and tobacco? or inorganic material, such as phosphate of lime, or some other inorganic matter found on the surface of the ground? Did not that bird find in the wings of those bugs some silica, or a substance akin to it? I have never discovered the win, and received his name. robin take any insect from the ground except the angle-worm. He says the extermination of the robin is out of the question, as it would hardly be desirable to sacrifice the interest of all the bushels of cherries.

Is the robin man's guardian angel? Must be starve without him, and the earth become a barren waste? J. S. NEEDHAM.

West Danvers, Nov. 20, 1858.

For the New England Farmer. ROOT CROPS.

appeared in the New England Farmer of Nov. 6, signed E. E., in reply to an article of D. Needham, on English turnips, rutabaga, &c.

Having raised some 300 bushels of rutabaga turnips this season, and not having had much experience in feeding turnips, I was about to inquire, through the columns of the Farmer, as to what stock, and in what manner, I could feed them to the best advantage, when I saw the article from E. E.

I raised the above number of bushels upon 48 rods (or 3-10 of an acre,) of sandy land, and not very highly manured at that, no pains taken to transplant and thin out; hoed them but twice, sowed them the 17th of June. The expense majority. of pulling, cutting off the tops, &c., putting them into the cellar, as follows:—First half-day, with the assistance of a man over 70 years of age, I pulled, cut the tops, and put in the cellar, can be carted to any part of my farm, a part of 100 bushels; the next day, with the assistance of which is sandy, and the rest a sandy loam. What

and other vegetation have as good a right to a two boys under 16 years of age, I put in 200

I have commenced feeding them to cows, and Why save the robin, if he is such a wholesale think they not only increase the quantity, but also the quality of the milk. I also boil them and mix corn and rye meal and feed my fatting hogs, and if the turnips are no other benefit, they certainly improve the food so that the hogs eat it more readily and fat faster than they will upon the meal without the turnips. I hope to hear from others, more experienced in raising and feeding turnips than I am. A. J. Dodge.

Lowell, It., Nov. 11, 1858.

EXTRACTS AND REPLIES.

THE BALDWIN APPLE.

I wish you to inform me through the Farmer the age of the Baldwin apple. I have of late trimmed a very large tree of the above-named apple, the owner of which says it must have been grafted over forty years ago. It is a Baldwin, as he produced one of the very apples that grew upon I had my fears as to the truth of the statement; I think that the apple was known by some other name a long time ago.

Remarks.—The Baldwin apple has probably may he not require to sustain his nature, some been known for about one hundred years—but originally under the name of "Woodpecker," which was abbreviated to the "Pecker" apple. The apple was brought into notice by Col. Bald-

EQUESTRIANISM BY LADIES.

"Where so many people may receive so much staple products of agriculture, to preserve a few pleasure at so little personal sacrifice, pray allow them."

This is the comment of an eminent member of the Massachusetts Board of Agriculture, upon the equestrian exhibition by ladies at one of the county shows, in this commonwealth in 1857. What did he mean by this? Certainly not to approve of such exhibitions. He simply meant to speak of it as a harmless foible. Is this the purpose for which \$1200 a year is drawn from the treasury of the commonwealth? If one species of vain The above is the heading of an article which amusements can be countenanced, why not others? Who will say that billiard saloons are not places of healthy exercise? Grave and reverend seniors should be careful what they write.

Nov. 22.

Remarks.—We are not at all surprised at such strictures as the above. Our people, especially our farmers, are slow to find fault with what seems to afford pleasure to others. But they have learned that some practices prevail at our county shows which are subverting the principles upon which they were founded, while the number which they please is far from being a

SWAMP MUCK.

I have a large quantity of swamp muck which

fertilizers will be best to mix with it to form a compost for my sandy lands?

North Lisbon, N. II., 1858. A Subscriber.

Remarks.—Barn-yard manure, if you have it. If not, use wood ashes, from five to twenty bushels to the cord. If a clay-bed is convenient, mix the manure or ashes.

THE POTATO DISEASE.

such glasses.

extremely minute insects, in and about the pota-

nothing in the evidence to determine.

the investigation, I hope they will not abandon hills of Ayrshire? it, until something is made certain.

Truly yours, J. W. PROCTOR. Nov. 5, 1858.

Remarks.—No man within our knowledge is whatever he thinks will benefit the farmer.

JEFFRIES' PATENT BALL VALVE PUMP.

I would inform your subscribers that I have one of "Jeffries' Patent Ball Valve Pumps" in use, which I like very much; they are manufactured by Mr. George L. Newcomb, in Harbor Street, Salem, who has them for sale, and where one can be seen in operation. I think his price seventy-five. They are now about five months is \$25 and \$35 for the two sizes of very thorough old, and the males weigh from fifteen to twenty B. P. WARE. manufacture.

Salem, Mass., 1858.

POTASII AND COAL ASHES.

I wish to know through the Farmer what amount of first rate potash, dissolved, will make a bushel of anthracite coal ashes equal to one of wood ashes in that article alone.

manure for fruit trees? L. C. C.

East Lexington, Nov., 1858.

MILCH COWS AND DAIRY FARMS.

Mr. Brown:—In a late number of the Boston Cultivator, I noticed a severe criticism on the late publication of Secretary Flint, on "Milch Cows and Dairy Farming," in which the plates illustrative were strongly condemned. I was astonished to see such strictures from such a source. I had a portion of that with the muck in addition to looked upon the editor of that paper as high authority in these matters, and as candid and reasonable in his judgment. For instance, in speaking of the representation of the Oakes cow Mr. Editor:—Your kindness in admitting to kangaroo—than like the original. After more your columns my queries as to your endorsement than forty years' interval, I cannot bring to mind of the theories of Mr. Reed and others, as to the distinctly the points of that celebrated animalcause of the decay of the potato, (commonly but until I saw Mr. H.'s criticisms, I thought called the potato rot,) has imposed on me the ne- Mr. F.'s representations gave a fair idea of her. cessity of further explanation. In making this, I have compared it with the representation given I wish to say distinctly, that I have not had the of her in the sixth volume of the Massachusetts opportunity to make the microscopic observa- Journal and Reports, while she lived - and do not tions spoken of, and therefore have not been able perceive sufficient variance to condemn the print to see, what is not to be seen without the aid of entirely. What could have induced Mr. II. to speak thus harshly of a publication favorably re-That Mr. Reed and others have found many crived by farmers generally? My attention was particularly called to this fact, yesterday, by a comto, I cannot doubt, with such evidence as is ac-pilmentary reference to this volume in a "Report cumulated on the subject. I have read this tes-on Milch Cows," drawn by Hon. R. S. Rogers, timony with care; but whether the insects are who illustrates his fitness for such a task, by the the cause or the consequence of the rot, there is purely-selected stock of animals on his splendid estate. Has our friend swallowed a file in his As our Board of Agriculture have undertaken late tour, or has he lost his balance among the

Essex Co., Nov., 1858.

DISEASE IN POTATOES.

I am not unwilling to be classed with unbemore deeply interested in the prosperity of agri- lievers, while I have such associates as a major culture, or more zealous in the cause, than our part of the Board of Agriculture, and your intelcorrespondent above. He writes with a bold pen, ligent correspondent from West Medford. I and expresses his opinions without circumlocu-thought skeptical; but I deem it a greater error, tion, so that if they sometimes lack a little gen-to yield assent upon authority, without sufficient tleness, we can readily enough impute it to the reason therefor. As the Board of Agriculture zeal manifested by him in the cause generally. have taken into consideration the question of the He puts his hands cheerfully and earnestly to decay of the potato, I hope we shall hear from them a distinct exposition of what is known in relation to it. I am clear in the opinion, that the theories put forth by Messrs. Reed, Henderson, &c., of bugs being the cause of the rot, are not the true cause.

' A TURKEY CROP.

Nov. 1, 1858.

I have raised this year, from five old turkeys, pounds each. The old male, (seventeen months old,) weighs thirty pounds, and has gained five pounds in the last seven weeks.

DAVID R. GATES.

New Worcester, Nov., 1858.

POROUS CHEESE.

Will you, or some of your numerous readers, I am aware there is other good fertilizing ma-inform me what the cause is of porous cheese? terial in wood ashes, but can't we compound with Is it too much scalding, or not enough? I should coal ashes, potash and bone dust, a very good be pleased to read any dairyman's opinion on the NEW SUBSCRIBER. subject. North Ferrisbury, Vt., 1858.

The three varieties sent by WM. F. BASSETT, MILCH COWS AND DAIRY FARMING; comprising the Breeds, Dreeding and Management, in Health and Disease, of Dairy and other Stock; the selection of Milch Cows, with a fell explanation. of Ashfield, Mass., are all new acquaintances. The variety he calls "Russett Sweet," resembles the apple of that name we are familiar with, but has more color, and the skin is smoother and fairer. It is a good apple, but rather dry. The other swest apple we are not aware of ever having met before, but think it better than the "Russett." The sour apple is also new to us, and from the specimens sent, we can hardly pronounce an opinion as to its merits.

FINE SHEEP.

I have a pretty good-sized buck of the English breed, one year and six months old, the sixth day of this November, that weighs 230 pounds, and a ewe of the same breed whose weight is 162 lbs. They were sired by the big imported buck of Mr. Baldwin, of Montpelier, which weighs 350 lbs. The ewe has raised me a lamb this year that weighs 941 lbs. They are cross bloods. The buck is of the Cotswold breed, and plants to be used as fodder, is one of great importhe ewes were of part Leicestershire. The buck tance. when one year and nine days old sheared 84 lbs. of good clean wool the 15th day of May, and the ewe 63 lbs, when one year and fifteen days old. They have had no extra keeping from that of the rest of the flock. JOEL LEARNED.

Waitsfield, Vt., Nov., 1858.

THE BASKET WILLOW.

preparing it for the market.

PASTURE EXPERIMENT PROPOSED.

Mr. Editor:—There is one experiment I would like to see tried in this State, in the way of pasturage, viz.:—If a farmer has 25 acres of pasturing, let him plow one-fourth of it and sow it with oats, rye or any kind of grain he may choose, and seed it down at the same time with grass, and let his cattle crop all that grows. The next year let him take another fourth and treat likewise, and so until he has cultivated the whole, and then repeat, and my word for it, you would see better stock in your pastures in autumn, and the butcher would not have to carry an extra pair of mittens to put on, that the bones might not hurt his hands, when he has to examine so closely to know if they will possibly do to eat.

But what shall we do with those pastures which them to pass out of the stomach, the system deversa, is a good plan. Sowing on plaster and any thing for at least two hours afterwards bone dust is also a good plan.—Maine Farmer. With these restrictions, fruit and berries may be

NEW BOOKS.

other Stock, the selection of afficiencys, with a roll of planation of Guenon's Method; the Culture of Forage Plants, and the Production of Milk, Butter and Cheese; embodying the most recent Improvements, and adapted to famining in the United States and British Provinces. With a treatise upon the Dairy Husbandry of Holland; to which is added Horsfall's System of Dairy Management. By Charles L. Film, Secretary of the Massachusetts State Board of Agriculture. For sale by A. Williams & Co., Boston.

Every person engaged in dairy business, should own this book, and read it attentively, as it contains many facts, and abounds with suggestions that must be of value to all who have not already a large experience in dairy matters. We recommend it as a matter of economy, because, if studied, it cannot fail to impart facts of more value to most dairymen and dairywomen than several times its cost.

The chapter on the diseases of animals is judicious,-the remedies recommended mild and safe, and that upon the culture of grasses and

The work is printed on fine, white paper, and beautifully illustrated with engravings of various breeds of dairy stock, and with the utensils usually employed in the making of butter and cheese, and a copious index is added for the benefit of those who use it as a book of reference.

If the cotton and wollen goods of our manu-In reply to the query of Mr. Mulliken, of factories, as a whole, were no better than the Lexington, for information respecting the Bas-products of our dairies, we question whether the ket Willow, in the Farmer of Nov. 6, we would manufacturers would be entitled to the credit of refer him to Messrs. George J. & E. A. Colby, skilful workmen in the production of their fabof Waterbury, Vt. They are intimately acquaint-|rics. Perhaps there is no single article brought ed with the whole process of cultivating and to our markets, in which there is so much that is indifferent, or decidedly bad, as in the article of butter. It is strange that so much of it is badly made and put up, when the fact is so obvious that good butter always brings a high price every-

This is a cheap and useful book for those who think they cannot afford to purchase a larger one. But our opinion is that Downing's Fruit and Fruit Trees of America is cheaper at one dollar and fifty cents.

EATING FRUIT.—No liquid of any description Note.—The plan proposed by our correspond-should be drank within an hour after eating fruits. ent is a very good one where the plow can be nor any thing else be eaten within two or three used, and it should be done more often than it is. hours afterwards—thus time being allowed for are so rough that the plow cannot be used? rives from them all their enlivening, cooling and Shifting the kind of stock pastured on them oc- opening influences. The great rule is, eat fruits casionally, from neat stock to sheep, and *rice* in their natural state, without eating or drinking eaten with moderation during any hour of the minous matter consumed to produce alcohol and day, and without getting tired of them, or ceas-carbonic acid, and of course less will remain to ing to be benefited by them during the whole convert the alcohol into vinegar. season. It is a great wast of Iusciousness that fruits and berries, in their natural state, are not ried forward just far enough to impart to the made the sole dessert of our meals, for three-cider the taste which is most preferred, -when it fourths of the year; human enjoyment, and is sparkling, still sweet, but slightly acid,—if at health, and even life, would be promoted by it.—this stage the albuminous matter be withdrawn, Hall's Journal of Health.

AGRICULTURE AND HORTICULTURE.

THE TRUE FRIENDS.

BY MRS. LYDIA H. SIGOURNEY.

Brown Ceres, one day with Pomona was meeting 'Nath Autumn's Spiriting smile,

So giving each other a sisterly greeting They sate down to gossip awhile.

- "I hope you're a site well, dear, this elegant weather," "How charming the country," they said,
- "And how do you prosper," both speaking together,-"With regard to your business and trade?"
- "Look, where the rude thorn bush and bramble were springing With fruitage the apple tree bends,
- The scythe of the mover at survise is swinging, An I the song of the reaper ascends."
- "Let us walk hand in hand, for no obstacle caring Till vines o'er the mountains shall grow; Its suit of green velvet, the brown heath be wearing And deserts with plenty o'erflow."
- "The gold in its mine, with excitement and wonder May summon an emigrant band, And the charin of Mars, trample on in its thunder
- But we're the true strength of the land."
- "For us, no lorn wife ig her cottage is grieving, Earth welcomes us both in her prime, No sting in the bosom of memory we're leaving, No stain on the pinion of time."

HOW TO IMPROVE CIDER.

We add also, another simple recipe for improving eider, but probably much like the Professor's method.

Cambridge, Oct. 25, 1858. DEAR SIR:—I beg to inclose a recipe for improving cider. The object to which my efforts have been directed, was to provide a cheap, casily-managed, and perfectly safe agent for arresting fermentation at any desired stage of its progress. The fermentation of the sugar of the cider, it is well known, is due to the fermentation of an

But if, when the fermentation has been carthe cider will permanently retain its acceptable

To accomplish this withdrawal I employ Sulphite of Lime-a salt made soluble only by acid, and, of course, quite inert until acid presents itself to the cider. As soon as fermentation pro-"They leave no sting in the heart of memory,—no stain on duces acetic acid, this salt yields sulphurous acid, the wing of time."—Hon. Marshall P. Wilder. which destroys the ferment. This is essentially the agent employed to prevent fermentation in the wine production of France.

The substance I employ settles out at the bottom with the lees, and may be entirely separated

from the cider.

The testimony of quite a number of friends who have for the last three years followed the recipe, as well as the experiments I have myself directed, are so emphatic as to the excellence of the result, that I feel justified in submitting to the attention of the Horticultural Society this method of improving cider.

E. N. Horsford, Prof. of Chem. to the Mass, Hor. Society.

RECIPE FOR IMPROVING CIDER.

Let the new eider from sour apples (sound and selected fruit is to be preferred,) ferment from one week to three weeks, as the weather is warm or cool. When it has attained to lively fermentation, add to each gallon, according to its acidity, from half a pound to two pounds of white crushed sugar, and let the whole ferment until it possesses precisely the taste which it is desired should be permanent.

In this condition pour out a quart of the cider, and add for each gallon, one quarter of an ounce The following letter upon preserving cider in a of sulphite of lime, known as an article of manufacmild form, is from Professor Horsford, of Cam- ture under the name of anti-cloride of lime. Stir bridge, to the President of the Massachusetts the powder and cider until intimately mixed, and return the emulsion to the fermenting liquid. Horticultural Society, and may be valuable to Agitate briskly and thoroughly for a few mosome of our readers.

Agitate briskly and thoroughly for a few moments, and then let the eider settle. The fer-

mentation will cease at once.

When, after a few days, the eider has become clear, draw off and bottle carefully, or remove the sediment and return to the original vessel. If loosely corked, or kept in a barrel on draft, it will retain its taste as a still cider. If preserved in bottles carefully corked, which is better, it will become a sparkling eider, and may be kept indefinitely long.

A DOVE STORY .- A gentleman of this city albuminous substance which the cider holds in who has a dove cot at his residence at the West suspension or solution. By fermentation, the End, relates the following incident as having ocsugar is first converted into alcohol and carbonic curred last week. In the cot were a male and acid. If the albuminous matter be in great excess, female dove and two squabs. The male squab as it uniformly is, its fermentation goes forward having died, the elderly dove drove from his to convert the alcohol into acetic acid, and the nest his female mate, and promoted to his bed eider becomes sour. If the quantity of sugar be and board the young female squab, pecking at large, a corresponding quantity of alcohol is pro- and driving from his cot the female dove. Finalduced. When it is not in sufficient quantity it ly, upon one occasion, when the female appeared may be added to the ciles, and more of the above at the door of the cot, the male suffice out,

sufficient to cause death. Possibly she died of the gases generated during decomposition.* a broken heart from the brutal treatment of her false and fickle mate.—Traveller.

FLANTS MUST HAVE FOOD.

removes from the soil, a portion of nutritive prin- which has many advocates, is, to slake quickciples therein contained, and if they be removed lime, with a saturated solution of common salt, without compensation in some way, barrenness and mingle with the muck, in the proportion of will ensue. Upon the facilities which the farmer one cask of line to a bushel of salt, mixed with may be able to command to secure an adequate a cord of muck. Thus prepared, it is not a simsupply of food for his crops, his success must in ple mixture of lime, salt, and muck, but during a great measure depend.

formerly confined chiefly to the excrements of lent to the ashes used in the other case, and by animals, but now has a wider signification, and its action the vegetable food in the muck is ren-ing and fertilizing the soil, or of correcting its faults and supplying its defects. Whether artiployed, is of far less moment for us to under-stand, than how to make the most of home restand, than how to make the most of home resources; the true policy being to increase the productiveness of the farm from within itself. To accomplish this, every source of fertilizing material upon the farm should be made to contribute, and care should be taken that nothing be animals, which too often is the sole dependence ing, as we do, corn, and wheat, and flour, beef, sible." Another says: "The quantity of liquid region. manure produced by one cow annually, is equal to fertilizing an acre and a quarter of ground, tion among our exports, for we have been favored producing effects as durable as do the solid evac- with comparative abundance, while the general uations. A cord of loam, saturated with urine, crop of the country is next to nothing. Sloopis equal to a cord of the best dung. If the liquid load after sloop-load has floated down the river, and solid evacuations, including the litter, are love to the country is next to nothing. Sloopische the country is next to nothing. kept separate, and scaking up the liquid by loam, tors have gone through the land, and many apit has been found that they will manure land, in ples have been engaged at moderate prices, beproportion by balk, of seven liquid to six solid, fore the market price became settled. This prac-while their actual value is as two to one. The tice of selling to speculators is generally well simple statement, then, in figures, of the difference in value of the solid and liquid execuations of a cow, should impress upon all the importance of saving the last in preference to the ulators and their agents will, if held to it, generated to the ulators and their agents will, if held to it, generated to the ulators and their agents will, if held to it, generated to the ulators and their agents will, if held to it, generated to the ulators and their agents will, if held to it, generated to the ulators and their agents will, if held to it, generated to the solid and liquid executions the solid an

is by no means our only source of food for plants, linto the account, they usually leave themselves a Almost every farm possesses an indefinite, and small enough margin, and offer more than the oftentimes a most abundant supply, in the de-small farmer can get for his crop, if he should posits of decayed vegetable matter known as market it himself.
muck or pert. This, to be sure, in its natural We have often albaled to the Golden Sweet

pecked at her and drove her away. The perse-condition, is not readily available by plants; they cuted mother flew down to a perch below, where, would relish and thrive upon it about as well as with her head under her wing she remained for we would on raw potatoes, but nevertheless, the a short time, and then fell suddenly to the ground.
The inmates of the house, who had witnessed the proceeding, immediately went out and ascertained that the dove was dead, but no wound was found sable as an absorbent of liquid manure, and of

In this way it not only proves a most effectual and economical means of preventing waste, but is itself, in so doing, modified or changed so as to be converted into valuable and available man-Muck, treated with ashes, is found to do Vegetation annually appropriates to itself, and exceedingly well. Another mode of treating it, its preparation as stated above, a decomposition Manure is a term of broad application. It was of the salt takes place, alkali is liberated equiva-

* Too much can hardly be said of the value of dried mack, to

before applying it, and if turned over a few times, all the better.

OUR EXPORTS.

Our often stated and reiterated assertion, that wasted. Not only should the solid excrement of we do not raise our own food, is true, -importof the farmer, be properly cared for, but special and mutton, and pork; while the agricultural caefforts should be directed to the liquids also, pabilities of our soil are such, that with only a which are not only more exposed to waste, but little more intelligent farming, our home produc-possess a superiority over others, which renders tion of the very things we import might be vastly their loss irreparable. An eminent agricultural increased; perhaps so that the exports would writer says: "When it is considered that with more than counterbalance the imports; and this every pound of ammonia that escapes, a loss of without involving the employment of much more sixty pounds of corn is sustained, and that with labor or capital, or even mooting the question every pound of urine a pound of wheat might be whether these are the most profitable things we produced, the indifference with which these liquid exar raise. Yet we can learn many a useful lesson excrements are regarded is quite incomprehenfrom the exports of our State and neighboring

This year the apple crop attracts most attenally offer all that they can afford to give, and, if Excrementitious matter, whether solid or liquid, the risks and expenses of marketing are taken

apple as our most profitable sort for shipping. The demand for winter apples has been such that lype, with no organ of vision, who shuns light, this year the Golden Sweet crop is quite thrown a dark stable might prove to be his earthly parin the shade. The market is still active, and will adise, but as the horse has special organs of viscontinue to be, for sometime, we presume, con-ion, evidently susceptible to the influence of light, stantly advancing prices, for good, sound winter and the integrity of his organism, or a part of fruit.

export, probably in value this far exceeds any be constructed accordingly. - American Veteri-The towns which particularly enjoy this nary Journal. trade and make preparations for it, are those sit-uated upon tide-water. We cannot come at any reliable estimate of the quantity or value of potatoes annually exported. It will be larger than we can get for those we export.

Union.—Editorial, in Homestead.

LIGHT IN STABLES.

Stables should be so constructed, by the inser- It has been stated in the prints that the ergot well as the orbital surfaces, to receive a free ray ted in the nervous systems, stiffness of the of light—enjoyed immunity from various diseases joints, &c. which prevailed extensively among the inhabitformity.

If a horse was in the same condition as a pothe same depending entirely on the admission of Potatoes have long been a prominent article of light, it is absolutely necessary that stables should

ERGOT AND HOOF AIL.

FRIEND HARRIS:—In my last communication usual this year. Our imports in this line are for the Cultivator, (June 1st,) I mentioned havsmall in comparison, if we do not include sweet ing purchased five head of cattle, diseased from potatoes. In early spring considerable quantities eating the ergot of hay, for the purpose of experof Bermuda potatoes are imported, at a cost of iment. Three head were considered hopeless, two to six times as much, bushel for bushel, as one old cow was much enfeebled, scarcely able to rise, and most of the time refused to set one Certain localities also derive great profit from hind foot to the ground. Two two-year old steers, certain peculiar articles of export, for instance: much shrunken in muscle and bowels, and very Stonington, and some towns in its neighborhood, lame. Two one-year old steers not quite so bad. export poultry in great quantities; Hartford and Middlesex counties in our own State, and the river counties in Massachusetts, export to bacco, both in the crude state and manufactured, articles of the same properties on different animals. in value to a very large amount; Wethersfield mals with the same results. The cattle all soon has long been famous for its speciality, onions, exhibited a favorable change of symptoms, which and should now be equally so for garden seeds, continued until they were turned to grass, since for these enterprising seed gardeners send their that time they have done as well as any other precious crops by tons almost to all parts of the cattle in the same herd. Nearly all lost one, and Union.—Editorial, in Homestead. until a new one had nearly grown out. They all appeared to feel well, and playful as any cattle after treating them ten days, lameness excepted.

tion of windows in various parts of the building, is the cause of cows easting untimely calves. This that they should be "light as day." A "dark" is not my experience; on the contrary, all the stable is only a suitable black hole,—prison-house calves of such diseased cows appear healthy alfor such a vicious specimen of the equine race though not strong, and have taken the milk up as the notorious "Cruiser;" it is also the very to the time of the death of the mother, without worst location for any kind of animal. Sir A. inconvenience. Many new ideas have suggested Nylie (who was long at the head of the medical themselves to me while treating the above cases; staff in the Russian army) states that cases of one I will here suggest for future observation: disease on the dark side of an extensive barrack Does the ergot so affect the urinary organs, that at St. Petersburg, have been uniformly, for many the urine, coming in contact with the hind feet, years, in the proportion of three to one, to those causes gangrene and sloughing of the same? It on the side exposed to a strong and uniform light. has been observed that those cattle that run out Humboldt has also remarked that, among bipeds, to stacks, and not stabled, were less liable to the residents of South America, who wear very lameness, although their systems suffered equallittle clothing—thus allowing the cutaneous, as ly. Those that run out appear to be more affec-

I have had opportunities of knowing that the ants of dark rooms and underground locations, ergot is more abundant than usual in all the and so excellent an authority as Linnaus con-northern counties in Ohio. I have seen several tends that the constant exposure to solar light, small meadows that I would not think of cutting is one of the causes which render a summer for fodder. However, the people are mostly journey through high northern latitudes so peculiarly healthful and invigorating. Dr. Edwards has also remarked that persons who live in caves or cellars, or in very dark or narrow streets, are This must necessarily be the case as long as some the case as long as some as the case as long as some the case as long as some as the case as long as some the case as long as some as the case as long as some the case as long as some as the case as long as the case as apt to produce deformed children; and that men are trying to investigate, and apprise the people who work in mines are liable to disease and de- of the danger, while some of our learned scientific M. D.'s deny its bad effects on cattle. Some Light, therefore, is a condition of vital activity, and in view only of preserving the sight of a horse, it is absolutely necessary that while he be the habitat of the stable, his optics shall have gathering in our hay. We would suggest the free access to the sun's rays. with nine parts common salt and one part saltpetre; also, salting cattle thus exposed, with a composition of salt, wood-ashes and sulphur, frequently through the winter, and if stabled, keep the floor as clean as possible.-W. Pierce, V. S., in Ohio Cultivator.

RIVER COTTAGE.

has just brought me a very pretty picture of then, the farmer does not sell enough to pay River Cottage, the place where the Editor of the these expenses, he is running in debt. It was, New England Farmer, escaping from the turmoil usually, pretty hard work for the man who wantof city life, is accustomed to enjoy his otium cum dignitate, setting us, at the same time, an exam-from the produce of it so as to bring out a living ple of good taste and good husbandry. The balance. sketch. I understand, is to go into the January number, and if you can somehow arrange with purchase, and the next thing I knew, this indithe printer, while the editor is out on his farm, vidual, whose interests I had guarded with such to slip into the number what I am writing, per- watchful care that he could not begin to buy any shocked, and our readers may be enabled to find residence, without even the compliment of askmore in the picture than can be seen at first ing my advice! glance. You will see, before long, that I know something about River Cottage, and the people a step so inconsiderate, and when I accepted an that dwell therein.

been said, that it is necessary to begin with the approval, and not to find much to praise. garden of Eden, but for the sake of brevity, we England farm.

nation of a farm advertised in the papers as "suit-cider apples, by way of fruit. ably divided into mowing, tillage and pasturing, with uncommon school and gospel privileges."

feeding, if bad, and salting the hay, when put in, farm,-the other painfully dubious whether his companion's agricultural zeal would not outrun his discretion and his purse, and land him so high that he would never get comfortably off!

"What do you sell from your farm?" was the test question of profit or loss. Every body knows what a farmer must buy, such as clothing, graceries and implements, and that he must pay taxes and doctor's bills, and a thousand incidentals in JOEL NOURSE, Esq., -Dear Sir: -The express cash, and these almost any one may estimate. If, ed to sell his farm, to furnish the items of sales

So we looked the State over, and made no haps his modesty will not be very painfully farm we had examined, had bought his present

Of course, I was determined not to approve of invitation to look at the purchase, it was with a To write a perfect history of any event, it has fixed resolve to withhold my judgment of dis-

The cottage and twenty acres of land was pur-will omit some of the "first causes," and come chased in April, 1848, and, except to the eye of down to about a dozen years ago, when our friend, faith, it was rather a hopeless establishment to after several years' residence in the wicked city be called a farm. There was the house, to be of Washington, departed therefrom, like righte-|sure, new, and in much the same style as now, a ous Lot out of Sodom, determined to seek in pretty, snug, convenient dwelling. Then there some spot nearer the rising sun, the realization was an old tumble-down barn, good for nothing of his the-long dreams of happiness on a New but fire wood, and a little mean shed. The land was mostly up-hill or down-hill, and where there More fortunate than the good man of old, he was no ledge, there were round stones in abunleft no pillars of salt to mark the spots of look- dance, varying in weight, from one to twenty ing backward in the journey, but brought his tons. The last owner, who was a paper-hanger, small household, fresh as ever, back to their na- had set out some fruit trees, which were strugtive hills. And then, to adopt the style of a gling along at a poor dying rate, and had graftmodern novel-writer, one beautiful spring morn-ed a few of the old apple trees. The land was ing, two travellers might be seen slowly wending run out, to the lowest ebb, and its chief recomtheir way among the green hills of the Bay State, mendation seemed to be that "the oldest inhabiin "a one-horse shay," stopping ever and anon, tant" could remember when it bore sixty bushto take an agricultural survey of some field or els of corn to the acre, and other crops to match. meadow, some vine or fruit tree, some Shorthorn The farm then cut hay enough for two cows and or Devon, or, perhaps, to make thorough exami- a horse, and produced about twenty bushels of

Now, agriculturally speaking, that was not much of a farm,—but there was another side to In these two travellers, the discerning reader the picture, which, after all, is worth looking at. will not fail to discover, with very little assistance, You have seen a young man, sometimes, who had the present editor and his humble associate, the thoughts of marriage. He determines to do the one a gentleman in search of a farm, ardent in thing in a rational, considerate manner. He will the faith that he could take off his coat, work all find some discreet girl, who understands housethe year like a day-laborer, make a first-rate liv- keeping and accounts, who is sober-minded, and ing, and be perfectly happy on a New England perhaps has a little property of her own, and ar-

We walked up on to the hill behind the cottage, on to the bald ledge, which commands a with cellars under the whole extent. The huge view of the distant hills, and of the beautiful boulders have been blasted and built into walls, quiet meadows through which the Concord, the wet places have been tile-drained and made ferriver of harmony, gently flows. Here, on the tile, several acres of apple trees have been set out verge of this rock, on the memorable 19th of and already brought into bearing, and the ger-April, 1775, were "the rebels" watching the densare filled with pears and cherries and plums progress of Earl Percy's troops up to the bridge, and grapes of the choicest kinds. Sixteen acres whose abutments may still be seen, and there, of land have been added to the farm, and it now where the granite shaft rises by the further riv-|winters a dozen head of cattle and four horses. er's bank, among the trees, the British soldiers The birds find none but friends in these grounds, received the fire of the brave farmers who had and you see in the picture, how they are clustermade their stand for freedom and their homes, ing as doves at their windows, and the bees, that and there was shed the first British blood of the never will work for any person who does not give Revolution.

"By the rude bridge that arehed the flood, Their flag to April's breeze unfurled; Here once the embattled farmers stood, And fired the shol heard round the world,"

and in the village lived the good old man who long may it stand the guardian of the place, went on a mission of freedom to Charleston, and was, to the eternal disgrace of that Southern city, compelled to flee from it for his life. Em- recounting to future generations stories of the erson's home is here, and his pen and the pens of prospered loves and realized hopes of the cot-Channing and Thoreau have made classic ground tage inmates. of the shores of the Concord and the Assabet.

of New England towns.

who married for love, we shall most likely find is usual. him, ten years after, a happier and a more prosthan earthly; a "home where the heart is," and for yourself, I remain your friend, that is better than a palace.

Ten years have changed the scene at the cot- | Exeter, N. II., Dec., 1858.

range matters on a fair business basis,—but the tage. Various duties of a private and public nanext thing you know, he is engaged to some lit- ture have claimed its owner's attention, but the tle sentimental school-girl, with apparently only centre of all has been Home. Slowly, year after poverty and pretty looks and ways for her por- year, the scene around it has been wrought into tion. Be patient, and the application will be the proportions with which imagination clothed it from the first.

A large and convenient barn has been built, away part of the honey, are busy all the summer long, with their labors. But that is all matter of fact.

Do you see that elm tree, in front of the house, around which a vine is twining? One cold win-Driven back in disorder, the flower of the ter day, about nine years ago, the editor and the English army, attacked from behind fences, writer hereof, with some half dozen yoke of oxand woods, and buildings, slowly retraced their en and men to help, hauled that same tree about weary eighteen miles, to Boston. In a field in half a mile with a ball of frozen earth of half a view from the spot where we stand, some of dozen tons weight, and set it where it now is. the cannon, which the soldiers came up to des- It has grown finely, and as a mere tree, is valuatroy, were placed in the open furrow, and buried ble, but when we look at it with the associations by the plow. And there, beyond the battle- of bygone days, it takes its position with the batground, is the "Old Manse," of Hawthorn's tales, the monument. Like Tennyson's "Talking Oak,"

> "And flourish high with leafy towers And overlook the lea,'

And so our friend has wrought his life into his And so, after all, our friend had given way to Home. The helping hands of kindred and family sentiment and imagination, and had paid his dol- have aided to adorn its surrounding grounds. lars for revolutionary associations, for beautiful Within, a new life has recently been added to views, and the good society of one of the best the family group, and the child's prattle reminds us that a third generation is begun, though the And now, when ten years have passed, our so-|grandsire's raven locks tell us that time is dealber verdict must be, that it was money well ex- ing gently with him, or rather that he has taken pended. Glancing again after our young friend this second degree somewhat earlier in life than

And now with this picture before us of the perous man than he who married from pruden-pleasant home of one who is doing all he can to tial motives. He has worked hard, but hopeful-improve the homes and the hearts of others, and ly, and of his young dreams, he has wrought out to make the earth more fruitful and beautiful, let a reality which is not a disappointment. An us unite in wishing a Happy New Year to the "Angel in the House" has made his home more inmates of River Cottage. With the like wish

HENRY F. FRENCH.

For the New England Farmer.

THE MUCK BED, AND ITS FUTURE PROSPECTS.

Mr. Editor: Twenty-five years ago, the low lands in New England were a very different affair from what they now are. They were then con-

Times change. The market for wood increases, it its swamps and quagmires. and the swamp is, on a cold winter's day, full of the music of axes. Tree and shrub suffer the same fate. When the sun returns on his northern visit, he sends searching rays of light and all such pretty things. But what then? We longer mire there, and tall grass and weeds wave luxuriantly, to tell that deep fertility gathers at their roots. What a beautiful lesson to man, of the value of the cld, deprecated swamp! Fertili
Richmond, Nov. 23, 1858.

ty, strong and durable, lies in its cold bosom.

The first time we ever heard of the application of muck as a manure, was many years ago, when we saw an individual going two miles to a swamp to get a load for his garden. He described his course of management as follows: The muck, placed beyond a doubt.

New Lebanon some autumns since, we saw some question but that poor slate will absorb more fine beds of compost of which muck was the base, water than good slate, neither is there any doubt and in the same field, men were employed in but that a soft, poor quality of slate stone, requires opening holes five or six feet square. Subse- a greater thickness, and consequently much quently we passed that way, and found apple greater weight than a moderately hard stone of trees standing where these holes were opened, pure quality. I am well acquainted with the and that the compost had been liberally applied slate made at sixteen different quarries, all of around the roots of those trees in setting. These which are within a range of four miles from the growth and vigor of trees in a new and favorable which the Glen Lake and Eagle, (which your cor-

to adopt its use.

tity of muck has been taken to the uplands for during the past season in Massachusetts, at and

composting, over that of any past year, for now, almost every farmer has a good pile, and many three or four stout piles. This is but the beginning of progress in the matter. Another year will bring them a full reward for all their labor and cost in the matter, and yet good effects will be in store for years to come, and the effect once sidered great useless affairs, good for nothing, seen, extra exertions will be made in successive unless for growing Tamarack poles and black ash years to increase the quantity annually, until the basket timber, which could be obtained only, as uplands shall have been well fattened from the people then thought, in severely frozen times in richness of the cold, wet, miasma-breeding swamp; winter, or, when excessively dry in summer. and hereafter, when the farmer goes to purchase Every spring, somebody's cattle got mired on land, one of the carliest inquiries will be, is there their margin, in their exertion to grasp the first a muck bed on the place? a consideration next in green tuft of wild grass, and then, when the animportance to the supply of wood and water; for mal was once ashore, what wishes that the swamp a very great proportion of the future agricultuwould sink into a clear pond of water.

Reader, we fully anticipate the exclamation heat into the hitherto impenetrable moor, to sean predicate our opinion from facts that already exthe changes winter has wrought upon its pro-ist; that greater and more astonishing facts will, ducts. The bogs shrink, and the quagmires evap-orate under his penetrating glances. Cattle no a year, or it may be not in a decade, but in the

Richmond, Nov. 23, 1858.

For the New England Farmer.

MATERIALS FOR ROOFING.

This is the subject of an article in your Novemwith some three or four bushels of ashes to a load, ber number, and while I cheerfully agree with was allowed to lie only a day or two to dry. The the author, so far as he compares slate with any compost was then put under cucumbers and spread or all other materials for roofing, in this climate, for a top-dressing on radish beds, when prepared (New England,) when he takes into account exfor the seed. No insect destroyed plants sown pense, durability and security from fires, and or planted on lands thus prepared, and they grew while I also agree with him in his comparison with peculiar freshness and vigor. Its value for between the slates of Vermont and those of the kitchen garden was, by one experiment, Maine, New Jersey, Maryland, Pennsylvania, &c., aced beyond a doubt.

yet I find him in error when he settles down to
In passing through the Shaker settlement in compare the slates of Vermont. There is no trees now show for themselves, showing the railroad station at Hydeville, Rutland Co., Vt., of respondent asserts are the best,) are a part. The Equally favorable results from the application Eagle slate are a good slate, weighing, on an avof muck have been noticed in other places and erage, 700 pounds to the square. The Glen Lake circumstances. Still, with oceans and continents slate average, in weight, about 580 to the of it in every neighborhood, and on almost every square. There is another kind of slate far supefarm, the agricultural community has been slow rior to either of these two, in my estimation, so far as uniformness of color, thickness and strength But a new era is fast opening in this matter, are concerned. These slates are made by the The summer and fall of 1858 have been favorable Forest Slate Company, but in the immediate vito the progress of farm labor in general, and it cinity are better known as the "Humphrey slate." may be, farmers have had more time than usual. They are of a uniform purple color, split true, to turn aside from the hitherto usual routine, and and the stone is of such purity that there is no work out improvements. At any rate, it is a difficulty in spliting the slate all of one thickness. pleasant certainty, that a vastly increased quan-Many of these states, I am told, have been made

near Springfield, North Adams, Chicopee, &c. conduct whatever correspondence shall be or-The average weight, per square, is 560 pounds. Without the fear of contradiction I have never Art. 6.—There shall be at each meeting a disseen, either in the Welsh yards of Boston, or cussion upon a topic previously announced, which other places, or in the slate yards of Vermont, as shall be commenced by four members designated beautiful piles of slate as I have repeatedly seen at the preceding meeting by the presiding ofat the yards of the Forest Company, at Hyde-ficer; and such other exercises as the Club shall ville. There is no reason why these slates can-deem proper. not be delivered in Boston or Charlestown at A SUBSCRIBER. six dollars per square.

November, 1858.

FARMERS' CLUBS.

The constant attendance upon the meetings of namental Trees. a Farmers' Club for six months in a year, through several years, and a constant watchfulness of the as the exigencies of the Club may require. opinions and practices of those who have been in writing, from time to time, as the Club may associated with us in such a club, give us a high opinion of their usefulness.

A correspondent from Hopkinton, Mass., writes us as follows:—"As this is a favorable season in of this Club by paying one dollar to the Treasurer. us as follows:—"As this is a favorable season in the year for the formation of Farmers' Clubs, and shall be holden on the first Monday of Novemto the usefulness of such institutions, and also in elected. regard to the formation and manner of conduct-State."

on our readers with too much earnestness the ulation. Merchants, manufactures and mechanimportance of forming clubs for the discussion ics have their meetings to discuss their business of all matters relating to the farm.

pass unimproved. You will find amusement, im- way they strengthen each other's efforts, and provement, and capital, in its deliberations, which profit by each other's example. In the language you cannot now appreciate. Form the club, and of the Working Farmer, we say, "take your sons be determined to take an active part in it, and and workmen to these meetings, and they will you will find your thoughts ranging in new and learn to respect an employment which calls into delightful fields through another year. Meet at active use the talent of all. If you have a sick your own dwellings, and thus while you are in-animal, you may have advantage by the experiterchanging civilities with each other, you will ence of all your neighbors, and probably save the save all expense of hall hire, fuel and lights.

tion:-

CONSTITUTION.

- Farmers' Club.

ART. 2.—Its officers shall be a President, Vice President, Secretary and Treasurer, who shall be chosen annually by ballot.

der, appoint Committees, and assign topics for discussion.

ART. 4.—In the absence of the President, all his powers shall be exercised by the Vice Presi-

ART. 7.—There shall be in the Club twelve Standing Committees: - One on Manures; Hoed Crops; Root Crops; Grain Crops; Grass Crops; Live Stock; Farm Buildings and Farms; Farming Tools; Reclaiming Waste Lands; Garden Fruits; Ornamental Gardening; Fruit and Or-

ART. S .- Select Committees may be appointed

ART. 9.—Each Committee shall make report order, and the reports so made shall be at the disposal of the Club.

ART. 10.—Any person may become a member

especially as my neighbors are agitating the sub-ber of each year, for the election of officers; and ject, I wish you would say a few words in regard all officers to hold over until new officers are

Aside from the agricultural information that ing the meetings of a successful Farmers' Club. may be gained by such association, it will make And I should like to hear from those who are families of the same town better acquainted with connected with clubs in different parts of the each other, excite a bond of sympathy and interest, and promote those delightful social relations In response to this appeal, we cannot urge up- which ought always to exist among a rural popaffairs and lay down some common platform or Now is the appropriate time—suffer it not to rules by which they may be guided, and in this life of the animal. If you have excess of crops, The following is a suitable form of a constitu-such as are usually used on the farm, or are short of others, may you not at such meetings learn where you may sell or exchange? Do not such ART. 1 .- This Association shall be styled The meetings tend to soften asperities, cement friendships, and do away with peculiarities of temper, which always occur with men who work alone? We would sooner forget much of our reading, ART. 3.—The President shall preside in all than to lose the recollection of such pratical immeetings of the Club, with power to preserve or-provements as we have been acquainted with at farmers' clubs."

LARGEST YIELD OF CORN ON RECORD.—A correspondent writing from Vanderburg county, In-ART. 5.—The Secretary shall keep a record of diana, informs us that at the State Agricultural the proceedings of each meeting, which shall be Exhibition a silver pitcher was awarded for the read by him at the next subsequent meeting. He best five acres of corn. The award was made shall preserve all reports of Committees, and upon the decision of three disinterested men in

each town, who examined the corn growing in the fields, and measured one acre of each plot. They then made oath to the yield of the single rot, that I had not intended to plant them again; acre, and of the whole five estimated from the and the result was almost entire freedom from acre actually measured. The award made, under disease among them, though the varieties that I oath, was for 8572 bushels of shelled corn on five planted for my main crop were more than usually acres, or 171½ bushels to the acre.

Till we do, we shall put VANDERBURG COUNTY, ment in the atmosphere that is deleterious to the Indiana, at the head of the corn column—unless potato; perhaps it exhales elements, that, comwe hear of some mistake in the above report.

For the New England Farmer.

"POTATO DISEASE."

the cause of the disease and prescribe a remedy. ments, and note the result. There have been such multitudes of various and contradictory causes put forth, each claiming to be the certainly true one; such a variety of infallible recipes for the prevention and cure of the plague, that I am ready freely to acknowledge myself a skeptic in regard to ninety-and-

affected. How the pea-vine operated, if it had If this has been excelled at any other time, or any effect, is not for me to say. Perhaps it might in any other place, we shall be glad to hear of it. be by absorbing into its own tissues some elebining with the surrounding air, so affect its condition as to make it suitable and wholesome for the potato. But, before theorizing extensively on the how, perhaps it is best to ascertain if it has any effect. This is not put forth as a certain remedy; it has not been sufficiently tested. I MR. EDITOR :- For several years past, I have intend to try it an a larger scale next year. And made it an almost invariable rule to omit the if any one of your readers has perused this artireading of any article in your paper, if its head-cle, I hope he will assist in giving a fair and thor-ing indicated that it treated of the "potato dis-ough trial of the proposed remedy under differing indicated that it treated of the "potato dis-case,"—more especially if it professed to expound the case, by carefully observed experi-MINOT PRATT.

Concord, Nov. 27, 1858.

NIGHT-AIR.

During the months of September and October, nine-hundredths of them. An inquiring mind throughout the United States, wherever there is an object of my especial respect; I would not are chills, and fever and ague, intermittents, or discourage any one from the most searching in-the more deadly forms of fever, it is a pernicious, quisition into any of the wonderful and interest-ing works and ways of nature around him. It outer doors or windows open; because miasm, has often happened that important discoveries have been made for science, by those belonging to what is called the unlearned class; and even if no important fact, before unknown, should that it ascends at once towards the upper portion of the control of the con be brought to light, yet the habit of a wide awake tion of atmospheric space, and is not breathed observation of what is going on around him, is during the heat of the day, but the cool nights of incalculable importance to the individual, as of the fall of the year condense it, make it heavy, a means of giving activity and strength and clear-ness to his intellectual faculties, and of improv-the lungs, incorporated into the blood; and if ing the manhood of the real man. But I would in its concentrated form, as in certain localities ask that their discoveries be not published to near Rome, it causes sickness and death within the world as absolute verities, till they have been a few hours. The plagues which devastated tested under different eircumstances for several Eastern countries in earlier ages, were caused by seasons, with a single and sincere desire to get the concentrated emanations from marshy localat the truth, with no bending of facts to the sup- ities, or districts of decaying vegetation; and port of favorite preconceived theories.

I did not intend to make so long an introduction to my story. I merely intended to say, that stories, not even coming down stairs for market I was, last spring, induced to read a letter from supplies, but drew them up by ropes attached to au English farmer, introduced to your readers baskets, had entire immunity from disease, for by Judge French—and they will doubtless all two reasons, the higher the abode, the less comagree with me that what he is willing to recom-mend will generally be found worthy of a care-ful consideration. This Englishman's letter gave a detailed account of planting potatoes with a lower rooms are colder, making the air more pea inserted in each one, and the result was the dense. So, by keeping all outer doors and winabsence of rot in those so planted, while others, dows closed, especially the lower ones, the buildplanted without the pea, in the same or adjoin-ing is less cool and comfortable, but it excludes ing fields, were badly affected. (I write this from the infectious air, while its warmth sends what my recollection of the letter, and may not be exemters through the crevices immediately to the actly correct.) This had, at first sight, the asceilings of the rooms, where it congregates, and pect of an empirical remedy; but my confidence is not breathed; hence is it that men who enin the Judge's character for judicious caution in tered the bar-room and dining-saloons of the his statements, led me to try the experiment, but National Hotel, remaining but a few brief hours, in a modified form. Instead of cutting the po-tato and inserting the pea in it, I merely planted while ladies who occupied upper rooms, where two or three peas in each hill. This was tried constant fires were burning, escaped attack, al-

know in our own person, and as to those who the difference. And it is thus, that while Dur-Journal of Health.

FATTENING ANIMALS.

the base of the tail extends much further in the profitable. former, affording more room for flesh, and the coarse and tasteless compared with the other; fretting. or. This one fact is at present revolutionizing much food in the twenty-four hours. By grind-the English breed of sheep. The aristocracy aling and smoking, ten hogs will each gain 100 ways paid high for small Welch and Scotch mutton; but the great consumers, the mechanics, would do if it were raw. preferred large fat joints. The taste is now changed. In Manchester and other such cities, an ox fed entirely on corn and hay, will not fat-

though remaining in the house for weeks at a towards small breeds maturing early, with comtime. It was for the same reason that Dr. RUSH paratively little fat. According to late writers, was accustomed to advise families in the summer the large Leicester and Cotswold are going quite time, not being able to leave the city, to cause out of fashion. When we give \$3,000 for a Durtheir younger children especially, to spend their ham bull, it is not that his progeny are "intrinsitime above stairs. We have spent a lifetime cally" more valuable to that amount, but the inourselves in the West and extreme South, and creased value and the fashion together, make up had firmness to follow our recommendation, that hams and Herefords are preferred for ships and whole families will escape all the forms of fall packing, Devons are high in repute for private tevers who will have bright fires kindred at sun-families. The joints are smaller, but the meat rise and sunset in the family room. But it is has a peculiar richness, probably found in no othtoo plain a prescription to secure observance in er kind of stock: and the proportionate waste is more than one family in one thousand. After said to be less than in any other breed. Thus in the third frost, and until the fall of the next year, the London market, the Scotch Kyloes, and then it is an important means of health for persons the Devons, (the former even smaller than the to sleep with an outer door or window partly latter,) bring the highest price, because preferred open, having the bed in such a position, as to be by the aristocracy. So in Dublin, spayed heifers protected from a draught of air. We advise are sought for. But the breed also regulates the that no person should go to work or take exer- profit. There is nothing more certain than that cise in the morning on an empty stomach; but one kind of animal will fatten to a given point if it is stimulated to action by a cup or a crust on much less food than another, and as fattening of bread, or apple, or orange, exercise can be our stock is only another mode of selling our taken, not only with impunity, but to high ad- grain and grass, those animals are to be preferred vantage in all chill and fever localities.—Hall's which come to maturity soonest, and fatten on the least food. The difference in hogs is very great and important. While some breeds must be fed for two, or even three winters, others are full grown and fattened at ten months old; and There are certain principles which apply to the the difference in profit is enormous. We cannot feeding of all animals which we will shortly no- go into particulars, but the following rules may be considered as applying to all: An animal 1. The breed is of great importance. A well may be expected to fatten easily when it has fine, bred animal not only affords less waste, but has soft, elastic skin, with thin or silky hair; the head the meat in the right places, the fibre is tender and legs short, the "barrel" large, but chest and and juicy, and the fat is put on just where it is lungs small; and when it is quiet, sleepy and wanted. Compare the hind leg of a full-blood easy in temper. An unquiet, restless, quiek-tem-Durham ox, and a common one. The bone at pered animal, is generally a bad feeder, and un-

2. Much depends in fattening, on outward and thigh swells out, of convex or circular shape; mechanical management. Fat is carbon, or the while in the common ox it falls in, dishing and coal which supplies the body with heat. If we hollow. Now the "round" is the most valuable are exposed to cold, it is burnt up in our lungs as cut, and is only found in perfection in high-bred fast as it is dep sited by the blood; but if we are stock. The same is the case over the whole body, kept warm, by shelter or clothing, it is deposited So well do eastern butchers understand this, throughout the body, as a supply on hand when that their prices are regulated by the breed, even needed. Warm stables and pens are a great aswhere two animals are equally fat. They know sistance in fattening, and should never be negthat in a Durham or Hereford ox, not only will lected. So, also, quiet and peacefulness are in-there be less offal in proportion to weight, but the portant. Every excited action consumes some greatest quantity of meat will be where it brings part of the body which has to be supplied by the the highest price when retailed, and will be of a food, and detracts from the fat. In the climate richer flavor, and more tender fibre. The same of Michigan, warm stables, regular feeding at is the case with hogs. A large hog may chance fixed hours, and kind treatment, with perfect to make more meat on a given quantity of food cleanliness, save many a bushel of grain. Anithan a small one, but the meat of the first will be mals fed at irregular times are always uneasy and

and in the east, flavor and tenderness greatly 3. Ground and cooked food fatten more profregulate prices. Consequently, moderate sized, itably than raw food. Mr. Ellsworth found that short-legged, small-headed hogs, always, in the hogs made as much flesh on one pound of corn long run, beat large breeds out of favor. In pre- ground and boiled to mush, as two pounds raw paring for a market, "fashion and taste" must be unground corn; though the first did not fatten as much considered by the farmer as by the tail- quite as rapidly, as they could not consume as

these large joints have become unsaleable; and ten as fast, or as well, as one which has roots, all the efforts of the breeder are now turned pumpkins, ground oats or buckwheat, &c., fed to it at regular periods. The latter may contain intrinsically less nourishing matter than the corn, but the change produces some unknown effect on the stomach and system, that adds to the capability of depositing fat. The best feeders change stead farm, I always kept hens; but more for the the food very frequently, and find that they make a decided profit by so doing. Salt should be given with every meal to cattle-say an ounce a day. It preserves the appetite and prevents torpor of the liver to which all fattening animals are subject. This torpor, or disease, is to a certain extent conducive to fat; but carried too far, presume many persons make it profitable. the animal sinks under it.

In cattle the skin should be particularly attended to. A fat animal is in an unnatural state, them, on and after January 1st, so that I can exercise, it has not its usual power of throwing off poisons out of the system, and if the skin is so that I am keep the week a good henery, foul, the whole labor is thrown on the kidneys. with the privilege of the cellar under a barn, or It is found by experience that oxen, regularly can let them run at large, when the weather is er than when left to themselves; and if the legs are pasted with dung, as is too often the case, it

seriously injures the animal.

6. Too much rich food is injurious. The stomach can only assimilate a certain quantity at once. Thus an ox will prosper better on thirty pounds profit in keeping them. of corn and thirty pounds of cob ground together daily, than on forty pounds of ground corn. These mixtures are also valuable and saving of steamed hay may be given.

7. Oxen will fatten better if the hay or stalks are cut for them, but care must be taken not to inch for horses.-Farmers' Com. and Horticultu-

ral Gazette.

For the New England Farmer.

FARM LIFE IN NEW ENGLAND.

WHO SHALL DECIDE WHEN DOCTORS DISAGREE?

The recent discussion upon "Farm Life in New England," and the noted caricature of the farmer that has appeared in the kid glove magazine of when completed, for the benefit of others. the city, has awakened a degree of attention, that will probably be productive of sound instruction. In that paper are some statements prettily made, way of good farming is too much land. Farmers and others neither pretty nor trite, so far as my are so hurried in the getting in, and in the har-observation has extended. That a lady of New vesting of their crops, that they have really no Hampshire should have been indignant at the time to devote to the improvement of the soil. assertion that her sex were treated by the lords Let any one visit some of the ten-acre farms in of the soil, with less sympathy and kindness, un-the neighborhood of Cincinnati, and the truth der circumstances of greatest trial, than the ani-will soon become apparent, that more profit can mals of the stall is not surprising. No gentleman, be made from ten acres, properly tilled and mawho has been permitted to enter the abode of a nured, than can be realized from one hundred respectable farmer would hazard such an asser-tion. No one well informed, would presume to say that the wives and daughters of the substantial growing richer every year, while many who occuyeomanry of New England are in any respect in- py large farms barely "hold their own." - Ohio ferior to the better class of wives and daughters in Valley Farmer. our cities. True it may be, that the life of the farmer is hard-work, work, work, from morn to eve,—with but a slight balance in his favor, twelve years ago I fattened a heifer for beef accruing at the end of the year, upon the observ- wholly on potatoes. My plan was to feed small ance of the strictest economy. But firm muscles, potatoes whole, without cooking, with as much ruddy cheeks, and a clear conscience, are its sure hay as was wanted, and but little water, and I accompaniments.

For the New England Farmer.

HOW TO KEEP FOWLS.

In my younger days, when on the old homeconvenience of having good new eggs, than for the profit of them, if profit there is.

It is thought by most farmers, and many others, that there is no profit, at all, in keeping hens; still, I have heretofore read accounts of the keeping of fowls, where the credit was conpresume many persons make it profitable.

Having some eighty or ninety hens and chickknow exactly the cost of keeping them, and the so that I can keep them confined in the building. suitable. I would like to be informed of the best way to manage and feed the hens through the winter, in order to keep them laying eggs, or to make them lay at all—as, unless they do lay, more or less, through the winter, there cannot be any JAMES LEONARD.

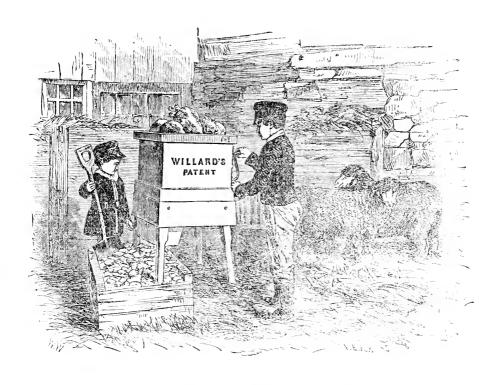
Leominster, Nov., 1858.

Remarks.—Keep the hens in a warm, clean cost for hogs when first put in the pen. If an an- place, where they can have access to the sun imal loses its appetite, the food should at once whenever it shines. Feed them regularly with a be changed, and if possible roots, pumpkins or variety of food, such as corn, which may always be before them, barley, wheat, boiled potatoes, mashed, and mixed with cob meal—that is, corn cut too short. An inch in length is about the and cob ground together, and give them access right size for oxen, half or three-quarters of an to plenty of gravel, old plaster, or broken oyster or clam shells. The barley and wheat may be fed to them occasionally, if convenient. Add to these plenty of clear water, and pork or beef scraps or bits of fresh meat two or three times each week, and you will not fail to find your fowls profitable.

We shall expect an account of your experiment

FARMING WELL.—The great difficulty in the

FATTENING BEEF ON POTATOES. - About Essex. had as good beef as those fattened on corn mean



WILLARD'S PATENT ROOT-CUTTER.

"This cutter is a recent invention. It cuts was more like a lot of bristles than a horse's fine enough for sheep, lambs or calves. It is very great horse-breeder and fancier, made me try easily operated, so that a boy can turn the crack giving him a few raw carrots every day to eat out rapidly. The inside arrangement is such as to of my hand, saying that he would have a good The vegetables, after being passed through the glossy coat, and all from eating a few raw carcutter, may be mixed with straw, coarse hay, or ter's Spirit of the Times. other cheap forage which one would like to dispose of economically, and the mixture, after lying a little time, so that the forage may become impregnated with the scent and juices of the sliced roots, will be greedily and wholly consumed by easily cut with this machine, so as to be conveniently and quickly cooked for swine."

roots annually, to purchase one of these machines. They are very thoroughly made, and sold, Hall, Boston.

but he was always annoyed about his coat. It describe, which had crippled down and produced

vegetables very rapidly, and in slices thin and smooth skin, and all the grooming he could get fine enough for sheep, lambs or calves. It is very "wouldn't do it no good." My friend, who is a prevent all liability of clogging the cutter while smooth coat in three weeks, -and he was right, working it, and the knives are easily repaired. for in that time my horse had a beautiful, sleek, rots daily. He tells me it is infallible.—Cor. Por-

For the New England Farmer.

FOWL MEADOW GRASS SEED.

Mr. Editor:—Much inquiry has of late been the stock. Pumpkins (if not hard-shelled,) are made for fowl meadow seed, as to where it can be found, &c. I read with much interest the description, as given and represented by cut, in the N. E. Farmer of June 26th, never having known It would be a matter of economy for any per-before what "fowl meadow" was. But I have son feeding out two or three hundred bushels of for years known that the grass more abundant than any other, which goes to seed at the height of a few inches in all our pastures and by the roadside, bearing a very fine seed, is considered singly, for \$10, by Nourse, Mason & Co., Quincy by many as the native grass of this country. Upon reading the article above alluded to, it appeared to me that the "fowl meadow," the "Poa Horses' Coars.—Lately going to the country nervata" there described, was identical with this to spend a few weeks with a friend of mine, I grass which is so common among us. Mowing drove a very handsome horse, and a good one on low ground last July, I found the grass you an out-growth from the joints, answering the description given of fowl meadow precisely. Near this which had erippled, grew that which had not crippled, but which was precisely similar, except the new growth at the joints. I traced it along to the upland and to high land, and found the same grass there, precisely the same. And it is that grass which I had before supposed to be the native grass of this country. Our farmers call it blue grass. It grows in all our pastures and cultivated fields more or less, and by the road-side, turnips this year. How much land did he cultiup and down the country everywhere, in soils suited to its growth. It produces the finest and How much manure did he put on it, and what softest seed of any grass, and it is the heaviest and most valuable hay. I have saved some from it this year? How many days labor of man and the meadow and some from the upland for seed, and if there is any difference, should be glad to How far was the field from the house or barn have it pointed out. As usually cleaned, the seed weighs about fourteen pounds the bushel, and farmers get for it from three to five dollars the bushel.

There is another kind of grass among us, somewhat resembling this, which we call "red-top," called by some "Rhode Island blue grass;" it looks of a beautiful blue when mown down. It grows taller perhaps, but thinner, not having the thick bottom of our blue grass, and is consequently not so productive; the quality of the hay not as good, and the second growth is nothing. This may be the German grass of which you

But I have no doubt that your fowl meadow and our blue grass are identical, and if so, fowl meadow seed is raised here in large quantities.

R. F. COPELAND.

East Bridgewater, Mass., Nov., 1858.

For the New England Farmer.

A NEW CORN.

new variety of corn, which I obtained in the fol-

lowing manner.

seed store and planted it, and while it was in the He should take his turnips and cut them as fine process of maturing, I discovered two or three stalks, each having two and three ears upon them, and being eight or ten days earlier than the rest. I picked these stalks with the corn ripe upon origin of the corn.

Island premium corn, in order to test it, and I am my friend has disposed of that lion, if he will able to state that mine is at least one week earlier, and is fifteen per cent. more productive than much obliged. that, while it has the advantage in color, being a bright yellow, with a trifling intermixture of Taking into consideration its color, compactness, shape of the ear and the remarkably short time required to bring it to maturity, I cannot but believe that it is the best variety of corn that has yet been introduced among us.

WILLIAM HOWE.

Brookfield, Mass., Nov., 1858.

corn mentioned above, and they are certainly of it.

For the New England Farmer.

VALUE OF TURNIPS AS FEED FOR STOCK.

Mr. Editor:—I should like to ask your correspondent, W. F. P., for a little more information than he has given me, as to the culture and feeding of his turnips. I say turnips, because it was turnips that I spoke of particularly, in a former article.

He says he has raised over 2,500 bushels of vate with turnips? How does he feed them? was the state of the land when he commenced on oxen did it require to put the crop in the cellar? where he housed them?

If I am wrong as to the profit of the turnip erop, I shall like to be informed of it. I experimented on turnips until I thought they were no

profitable.

I had an ox that would cat two bushels of turnips a day, and about as much hay as though he It had not had the turnips, but he did not eare about any water. It was a great saving of water. I would recommend turnips for any one who is short of water.

A cow may be put into the barn and given half a bushel of turnips or potatoes night and morning, with other dry feed, and she will do without water by the month at a time. I tried it. I have put up a breeding sow, and kept her four months on turnips; she had nothing else except what she picked out of the manure of two horses. She lived and brought a great litter of pigs. I gave her about three pecks of turnips a day, and one quart of corn in meal a day would have kept her better.

I think turnips have from 92 to 95 per cent. of water. If that is the fact, my friend's 2,500 bush-MESSES. EDITORS:—I have what I consider a els of turnips had from 2,300 to 2,375 bushels of water in them. I think his comparison of one and a half tons of hay, or fifteen tons of turnips, A few years since I purchased some corn at a to the oxen, should be looked at a little more. as the hay, and then spread them over an acre of ground, and let them have the advantage of two good hot days' sun in July or August-carefully turning it as we do hay, and then weigh it, and them in the middle of August, and this is the he will find his fifteen tons of turnips have lost a great part of their 90 to 95 per cent. of water, For two years past I have raised the Rhode and would then weigh less than the hay. As give me the above information asked, I will be Ed. Emerson.

Hollis, Nov. 25, 1858.

WATERING SHEEP IN WINTER.

That sheep can do with less water than other domestic animals, is well known. That they should be forced to do with a less quantity than they desire, or compelled to do without any except what is accidentally supplied by melting snow or rain, no reasonable or merciful man can REMARKS.—We have seen specimens of the believe for one moment. In some experiments on South Down sheep, at Rothamstead, we found very handsome. We have no other knowledge that in the summer months each sheep eat three pounds of clover hay, and drank about six pounds

of water daily. Thinking that they drank more than was favorable for the deposition of fat, we confined them to a less quantity of water for one. To illustrate this theory, he referred to one of

ly supplied with good, fresh water. Cows and In this orchard the borer is not to be found; always drink at stated times, however regularly commit their yearly depredations. observed. A well, pump and troughs would seem, therefore, to be necessary appendages to every well-managed barn-yard or sheep-fold. Kind well-managed barn-yard or sheep-fold. Kind * By animal, we understand common barn-yard manure, reader, act on this matter, and your sheep and made up in part by the droppings of animals. Why such mancows will bless you, if not in words, at least in ure is unhealthy, we cannot conceive.—Eds. Genesee Farmer. wool, milk and profit.—Genesee Farmer.

EXTRACTS AND REPLIES.

THE APPLE AND PEACH TREE BORER.

Is there any application in use which will prevent the ravages of the borer? What is the their depredations? A Subscriber.

Nov., 1858.

soft wood, while others cut out the grub with a the use of, or had die, as many as seven. This does no injury to the tree, is cheap, convenient, and quite often effects the desired object.

Below we give an article from the Genesee struction.

THE APPLE TREE BORER.

EDITORS GENESEE FARMER: — Conversing with an intelligent friend, who is largely engaged in apple growing, the conversation turned upon the apple tree borer. His opinion in regard to this insect was, that it would never attack a perfeetly healthy tree. There was a vast difference between a thrifty tree and a healthy one. A ing, either or both, on a side hill, the soil of healthy tree, according to his idea, is one that has which is a gravelly loam? It is new land. In the

week. The result was that during that time they his orchards, which was set out on unbroken paseat less food and lost weight. This result satis- ture land, receiving but one plowing and no manfied us that sheep knew better than man, though ure. Receptacles were dug and partly filled with he were scientific, how much water they required. fragments of turf, on which the tree was set, cov-But we need not quote experiments. The ered with earth, and thoroughly mulched with common sense of every man tells him that sheep, as well as all other animals, should be abundant-matter, which was repeated as often as necessary. sheep, if possible, should have free access to it while in others, which have been repeatedly at all times. For, unlike the horse, they will not plowed and fertilized with animal manure, they

Has any one else noticed a similar result? Belfast, Me., Nov., 1858. G. E. Brackett.

DISORDER AMONG LAYING HENS.

For some years past, but the last more partieularly, my hens have been taken, in the season of laying, with a dangerous disorder which often proves fatal. The sick hen will lose her eggs prematurely, but will continue to set on her nest most direct method to dislodge them and stop daily, and sometimes lays an egg, though seldom. I have sometimes found under the roost two or three eggs partly developed. Frequently the egg Remarks.—Various remedies have been pre- will break in the passage, in which case the hen scribed, such as whitewashing the tree, washing often dies or suffers very much, drooping around for a number of days. I think that sometimes with spirits of turpentine, with whale oil soap, the passage itself is broken, so that the broken &c., but it is doubtful whether with beneficial re- egg runs in among the intestines, as I have dissults. Some persons insert a bit of camphor gum seeted a number that were filled up with the yolk into the hole and then plug it up with a piece of of eggs. Out of about a dozen hens, I have lost knife or gouge. The latter remedy is a rough one already had one attacked. I first found her sitfor the tree, in unskilful hands-but often is ef-ting and unable to walk; but she got up and apficacious in dislodging the enemy. One of the peared as well as ever next day, but she has not oldest, safest, and most successful methods that laid from that time, and probably she will never we have adopted, is killing the worm by thrust-be worth much more as a layer. If any one can ing a pliable wire into the holes it has made. hope he will give us the benefit of his knowledge. tell of a preventive or a cure for this disorder, I

East Randolph, Vt., Dec., 1858.

REMARKS.—We can think of no cause of the Farmer on the subject of borers, merely adding disorder you describe, but a want of proper food that we have often expressed the opinion that the and shelter. It may not be either, but these are borer will attack an unhealthy tree in preference the points to which we should especially direct to a healthy one, and this we believe to be in ac- your attention. Fowls will not prosper well in cordance with that law of nature, that when ani-damp places, or without a variety of nutritious mals or vegetables begin to decay, there are im- food, and access to plenty of gravel or shellmediately agencies at work to hasten their de-forming substances. Look, also, to the breed, and learn whether your present stock is from those long kept together on the same farm or neighborhood. See article in another column entitled, "How to keep Fowls."

DRAINS AND WIRE FENCES.

Would you advise underdraining and subsoilreceived nothing but vegetable manure, whereas thrifty tree may have received animal manure.* the Working Farmer, entitled "Restoration of It was his opinion that the borer would not mo-Exhausted Soils," wherein the writer advocates best means of bringing the soil to that condition motion. The atmosphere, through the week, felt necessary to a high state of fertility. Would it like winter and the young drifts looked like winbe advisable on such lands as the above?

Hon. H. F. FRENCII, in one of his articles on relieve them of the continual strain upon them. day. Would not India rubber be just the thing? It On Wednesday morning, the 23d, another seems to answer every purpose in summer and snow storm commenced at about two o'clock winter when used as car springs. Would it not from the north east, and continued for twelve do as well for the above purpose?

the wires to, I would ask, where there are no trees pect of sleighing for Thanksgiving. that can be used for that purpose, and there are large rocks near the spot, could not the wires composing the fence be gathered to one point and fastened to an iron staple driven in the rock? Would the frost heave the rock so as to slacken or eaten off by cattle? the wires? B. F. M.

Lowell, Nov. 29, 1858.

REMARKS.—It is difficult, if not impossible, to give valuable advice about draining land, without a personal inspection of it. There are some evidences, however, in the vegetation itself, of the necessity of draining, where too much cold water is near the surface. In most instances of this kind, such grasses will appear as naturally grow in low, wet places, and they will gradually assume the whole ground, by pushing out the grasses which we usually cultivate. Where these evidences are found, the land, as a general thing, needs draining. It is difficult to plow or otherwise work such lands in season to get in the

Perhaps your suggestion about the India rubber springs may induce some to try them. There can be no question, we think, but that attaching wires to a rock would be effectual.

TO PREVENT FLOWING SAP IN TREES.

FRIEND Brown:—In your paper of Nov. 13, I noticed an article by T. Ellis, of Rochester, in which he inquires if any one can tell him how he can save his trees? I would say that I have an can save his trees? I would say that I have an members of our Mass. Horticultural Society, infallible remedy for stopping the flowing of sap, they never having seen it previously. At the or bleeding, as we term it. It is simply to dip Annual Exhibition of this Society at Fancuil Hall, the end of the limb, twig, or grape vine, into boiling pitch or rosin, and let it remain two or three minutes. But this remedy probably cannot be applied in his case, and I will give another: Take a flat bar of iron and apply it red-hot to the end of the stump until the bark and wood N. E. Farmer; it soon after appeared in the Horare well seasoned downward, say half an inch; ticultural Register of Teschemacher, and also in then apply a good coat of pitch or rosin, and Hovey's Mayazine. Some years after this the melt it in with the same iron, moderately hot; Mass. Horticultural Society presented me with this will form a cap that will keep all sap in, and a testimonial for the introduction of this vegetaall weather out, until friend Ellis is too old or ble. Regarding its origin, I can only say that too wise to trim his valuable trees in May.

Peterboro', N. H., 1858. S. MAYNARD.

THE SEASON.

and the rough, March like north-west winds of the Winter or Canada crookneck, which I consider

underdraining and subsoil plowing, as among the the following week kept the snow in perpetual ter.

Sunday evening, the 21st, we had another fall wire fences, speaks of the necessity of some one of about three inches of snow, which settled oneinventing a spring to hold the wires that would half under the mild sunshine of the following

hours, giving a fall of about four inches, very In regard to a corner-post to strain and fasten damp snow, lying nearly level which gives a pros-

Richmand, Nov., 1858.

BARLEY AND OATS.

Will barley turn to oats if cut down by frost, Chester, N. II.

Remarks.—We have never heard of such a case, and find nothing like it recorded in the books. Barley is a grain, however, that rapidly deteriorates on soils unsuitable for it—or under careless cultivation. It is a tender plant, and easily hurt in any stage of its growth; and as it is so easily affected by soil and cultivation, we should not be surprised that if it were cut down by frost, or eaten off by cattle, it might be so far affected as to resemble oats when it had headed out.

For the New England Farmer.

MARROW SQUASH --- SCOTCH DRUM-HEAD.

Mr. Editor:—The question regarding the first introduction of the autumnal marrow squash, called Boston marrow, into the city, I have thought might be interesting to some of your readers; I herewith send you the following condensed account, so far as I have ascertained, of its origin. A specimen of this vegetable was brought to my place in North Salem by a friend from Northampton, in this State, in 1831. In the spring of 1833 I distributed seeds to many Sept., 1834, Lexhibited a specimen, merely marked "New Squash." This was previous to the description or cut being made. One month from this (in Oct., 1834.) I forwarded the name, autumnal marrow, together with a wood cut, to the it was received from Buffalo, N. Y., and that it was brought there by some Indians who visited that city. This I ascertained from my North-ampton friend. This vegetable hybridized with After a beautiful season for ripening and gath- all the tribe of pumpkins, hence it is a true, sweet ering, winter appears to have taken a permanent pumpkin; the Valparaiso or Lima, and all those hold. The 13th gave us an easterly snow-storm, we call true pumpkins, will mix; but not so with

a true squash; this will not hybridize (as far as I can ascertain from others, as well as by my own experience,) with the pumpkin tribe. I cannot say but that it may with the gourd family, but I have not as yet observed this.

MIXING OF THE MARROW.

vegetable with others, is the thickening of the pressed a wish that he could sleep half a century skin and contracting or smallness of the stem. or more, and then awake, like the fly, to witness Second, in the green color at the seed end. Third, the progress which had been made in his beloved the progress which had been made in his beloved the second. But if steam, were had been garried in the enlargement of the fruit, and lastly, the country. But if steam-power had been carried disappearance of the elevated margin around the in New York and Pennsylvania, and having re- any such wish. When I consider the inevitable ceived them originally from your city, they are known as "Boston marrow."

cultivators around Marblehead, as an acquisition, moth cabbage, weighing twenty-five pounds and upwards. These were first raised by Mr. Mason, of that place, and hence are called Mason's cabbage. This variety was first raised from seed which I received same fifteen to cick two manufactures, has conferred great apparent benefits upon mankind, we still have reason to ponder seriously upon the ultimate consequences to small independent farmers of the introduction of which I received some fifteen to eighteen years small independent farmers, of the introduction of since, from Charlwood & Sons, Seedsmen, Cov-steam power into the operations of agriculture. small paper to Mr. Mason. This vegetable, by a field of these enormous vegetables with a friend, head mammoth cabbage." John M. Ives. Salem, Mass., Nov., 1858.

For the New England Farmer.

TOPPING CORN STALKS.

ing the loss in the weight of the corn is more than the value of the stalks."

I extract this sentiment from page 72 of the forthcoming Transactions of the Essex County Agricultural Society; a werk to which I am accustomed to look for sound instruction. I know of no work of the kind, prepared with more care, or better entitled to confidence. Is it true that this error among farmers is "still followed" almost universally, to the prejudice of the crop? Who knows that the quantity of corn is diminished by the removal of the stalks? Has there been any well-conducted experiments to determine the fact? Without doubt, the stalks are more valuable to be taken off, and properly cured. But corn is not cultivated for the stalks that can be saved, but for the corn itself. I have often heard it averred, that the kernel will be better extent of even and uninterrupted surface which

nam, Preston, and others. Essex.

November, 1858.

For the New England Farmer.

AGRICULTURAL PROGRESS.

BY WILSON FLAGG.

Dr. Franklin, on seeing a fly make his escape from a bottle, in which for a long period of years The first indication of the mixing of this fine it had been corked up in a torpid state, exor more, and then awake, like the fly, to witness into operation to its present extent in Franklin's day, I'do not believe he would have expressed tendency of this great invention to concentrate all wealth and power into the hands of capital-Another vegetable which is considered by the ists, I feel as if I should be reluctant to wake up some ages hence, to view my country when the world is finished. Though it will be admitted

I read in the journals of the day, some weeks cabbage, marked "Scotch drumhead;" I gave the since, that a company had been formed in the western part of the State of New York, for agrithe high manuring for which the Marblehead cultural purposes, and that they had purchased cultivators are famous, has increased the size of operate by steam, in connection with the several a field of these engages are the size of operate by steam, in connection with the several a field of these engages are the size of operate by steam, in connection with the several magnificent inventions which have lately attracted the attention of our agricultural societies. who suggested that in order to identify this variety with the town, it should be called "Marble-lital may be for the growth of manufactures its manufactures. ital may be for the growth of manufactures, it would very soon be found destructive to the prosperity of individual farmers. These corporations, executing almost all their heavy labor by steam power and mammoth implements, would crowd out of the ranks of agriculture all those whose farms were of such small extent, "The practice of cutting corn-stalks as soon as that steam could not be profitably used by them. the corn is glazed, is still followed, notwithstand- In competing with the companies, the small farmer would find himself in the situation of the hand-spinner and the hand-weaver, who should I extract this sentiment from page 72 of the undertake to compete with the manufactories of

heard it averred, that the kernel will be better extent of even and uninterrupted surface which heard it averred, that the kernel will be better filled, if the stalks are left on until the harvest. But this may be all theoretical. If any one knows the fact, let them come forth, and be heard. I am pleased to see among the contributors to the pamphlet above named, several talented young men. There is no danger of knowledge fading away, although the fathers decay. I hail satisfaction, among these contributors, the names of Page, Gregory, Sargent, Phippen, Putnam. Preston, and others.

ESSEX.

extent of even and uninterrupted surface which extent of even and uninterrupted surface which is to be tilled. On small fields it would be impossible to use them with success. Hence follows the necessity of farming by associated capital, of greatly increasing the size of farms by combining many into one; and under such improved circumstances, the present system of farm labor could not stand in competition with steamfarming. The agricultural steam-company, with names of Page, Gregory, Sargent, Phippen, Putnam. Preston, and others. cultivate ten acres with about the same expense

machines.

servant of man. The production may be great-er in the former case; but the health and free-dom of the masses are sacrificed to obtain it. believe who has had any political experience, and who knows how easily the worst measures may be carried by making them party tests. The object of the statesman and the philanthro-pist should be to make the people free, virtuous tail, after this little village of happy and inde-

it, as against the invasion of a foreign army.

chines, and other magnificent improvements con- now graded into one vast level. they have arrived at last, at this antiquated vil-lage, where labor is free, and where the farmers are so old-fashioned and behind the times, as to own the lands they till, and carry on farming as interfere with the progress of the steam-plow. We carry it on in the present barbarous age of In fine, that pleasing variety of surface which beautifed the landscape when it was in possess. political and social equality.

of labor which is now employed in cultivating erations of the farm, they cannot compete with one acre. If the moral education and physical the great agricultural corporations, which by improvement of laboring men were to be the means of steam-power can produce at an expense effects of this new system of farming, there of ten dollars, results which they could not prowould be reason for rejoicing over the prospect of the change. But no such happy results would The agent of a new company, chartered with ten spring from it; laboring men, instead of being millions of capital, offers to these unhappy men elevated into lords, would be degraded into mere a price for their farms, which, through exceedlingly low, is such as under their present circum-Men are too prone to base their theories of stances they feel obliged to accept, especially as human progress on the assumption that labor a promise accompanies the offer, to employ them is a curse, and not, as it is undoubtedly, when it is free and justly rewarded—a blessing. But labor ceases to be free, in the highest sense, when the laborers are under the control and in the consent by a law of the legislature placing it in power of mammoth associations. Labor then the power of corporations "established for the becomes servitude, which is closely allied to sla-public good," as it is now in the power of railvery. No one would say, that under the present road corporations, to seize upon a refractory incursances of the country, the operatives in dividual's land and estate, after paying him what a our manufactories, however well paid, are as free as our farmers, masons and carpenters. It should the property seized. These mammoth agricultural corporations, by means of bribery and potential representations of the property seized. by powerful machines, man becomes a slave to litical manœuvreing, would easily obtain suffi-the machinery; when, on the other hand, the imcleint influence over legislative bodies to cause plements in use are small, the machinery is the the enactment of such a law. This any one will

and happy; and any increase of the wealth of the pendent laborers has been converted into a mamnation which must be obtained at the expense of moth farm, owned by a company, and carried on the moral and physical welfare of the people, is by steam-power. At the commencement all the not to be desired.

But it may be asked by some jealous friend of they stand in the way of tillage, which is per"progress," if it is right to refuse to agriculture formed as much as possible in large, undivided those aids which have built up our manufac-lots. All fences and boundaries, except those tures? I would answer that we should refuse to by the roadside, are for the same reason taken agriculture any aid which is not beneficial to the down, to open many small fields into one. It agriculturist-for the farmer is of more impor-has been ascertained, by experience, that no tance than his crops. Let us not improve agri-single field can be worked with the best advanculture by any such means as will degrade man. tage, unless it contains at least five hundred If we could double the agricultural produce of the whole country at the present cost, by a syssince the larger the field, the more conveniently tem which would destroy the independence of can it be worked by steam. Hence the prelimiour farmers, we should turn all our forces against naries for steam-farming are necessarily a work of devastation. Many delightful groups of trees In order to illustrate the consequences of this and shrubbery, some that skirted a winding brook, sort of "progress," we will apply it to an imag-ined case. We will suppose, for example, that in some indefinite period of the future, when steam-farming by associated capital has become nearly machine, as easily as a farmer pulls up weeds. universal, there remains, in a certain part of the All abruptly swelling ridges and other eminencountry, one of those farming villages which are common in our happy land. The farmor of many a landscape—some of them beautifully crowned with trees and shrubs, mers in this place are intelligent working-men, and small land-proprietors, who have but little capital except their lands and stock, and support themselves by industry and honest trade. After steam-plows, steam-rakes, steam mowing-machines and other magnificent improvements connected to the drawing range and other eminents and other eminents.

beautified the landscape, when it was in posses-These industrious farmers have ascertained now sion of the original inhabitants; those quiet rusby bitter experience, that by the use of hand im-tic lanes fringed with wild roses, hawthorns and plements and horse and cattle power, in the op-|viburnums, conducting from the dwelling-hous-

fortable enclosures that resounded with the low-ing of cattle and the cheerful noise of poultry, into hirelings, under the agents of mammoth and worst fate of all, the old farm-house, where corporations—then we must admit the utility of the patriarch of a small estate presided over a happy family, happy, because they were free and any measures to be progressive, which lessen the healthfully employed—all, all are swept away by happiness and liberty of men, how much soever this besom of improvement.

And where are the inhabitants? The sturdy yeoman, who, though doomed to hard labor, found this labor sweet, because it was voluntary; the happy and independent swain who called no man master, and who was really a king in his own acres, is now a hired servant of the corpo-The farmers, their wives and their children, have all been reduced to servitude in this grand manufactory of corn and vegetables. The tiller of the soil has become a slave to his crops. Each thousand acres devoted to a single crop is managed by an agent imported from the city, who understands book-keeping, but was never actually and if so, he will try and hire him is a minute division of labor, as in the cotton given to him. and woollen factories. Some of the farmers are employed exclusively as shovellers; some are used as drivers of cattle; some ride on the engine; others are employed continually to follow He does not undertake to say, why others

and dishonesty of the company's agents, ab- of raising rutabagas, I can tell him how my exsorbed all the profits, and cut down their diviperience has taught me. dends. In less than ten years, almost every one Select a piece of land that is suitable for corn, of these independent farmers was a poor man; that has been planted the last year to corn or po-

inhabitants, we may read the fate of the whole to lead, you can do the work of eight men with country, should the steam-engine ever be intro-duced into the business of agriculture: and this three inches high, thin them to one foot apart, would inevitably follow, if farming were to be keep the ground clean and free from weeds, and carried on by corporations, involving large I will warrant a crop of turnips that will be a amounts of associated capital. Such a class as pleasure to look at, equal to anything upon the that of independent laboring farmers—the only farm. undegenerated class in any civilized community- As regards the labor of cutting turnips by

es to the adjoining fields and woods; the com- would cease to exist. If it be "progress" or "imthey may increase the productiveness of the arts.

> "Ill fares the land, to lurking ills a prey, Where wealth accumulates and men decay. Trine's and lords may flourish and may fade A breath can make them, as a breath has made; But a bold peasantry—their country's pride— When once destroyed, can never be supplied."

> > For the New England Farmer.

ROOT CROPS.

Mr. Editor: -- Your correspondent "E. E.," in customed to labor. He receives a large salary, to do it for him; yet in his last paragraph, he and pays out their weekly pittance to the farm says he would not let you (or any one else,) put laborers. In order to facilitate operations, there a hundred bushels into his cellar, if they were

after the cattle and pick up their droppings, changed, but gives his own reason for so doing. which are all nicely economized, and never al- His first trial, was to put some seeds into his hen lowed to lie and waste one minute upon the manure that he intended for corn, which resulted in a great loss to his corn, where there was one The several families, with the exception of or two good turnips in the hill. Now I think those who emigrated to some other place, are that is a new and very novel way of raising rutatenants of wooden boxes, put up close to the ground, for the economizing of land. All these are in exact uniformity, and are owned by the would take the "starch" out of a hill of corn; corneration. Lought to add that the majoritum of the treatment of the corneration of the condition corporation. I ought to add that the majority and that pretty effectually too; and no wonder of the farmers, flattered with the hope of sudden that a portion of the stalks had "no maturing wealth, invested all their capital—the proceeds ears on them." I can tell "E. E." that the surof the sales of their estates—in the corporation est and the best way to raise root crops, is to stock, which they were soon obliged to sell, at a raise them separate from any other. If he would an immense sacrifice, because the extravagance like to know of an easy and expeditious method

and the village children who lived as free as the tatoes, so that it shall be mellow, and of fine birds of the air in their humble rural homes, now tilth. In the spring, when the ground is sufwork in platoons upon such parts of farm labor ficiently dry, plow it thoroughly, deep and fine, as they are able to perform. Before the village and then harrow it down level; now prepare a was sold, you might see these little children, good supply of manure, at the rate of twenty-with their satchels, going regularly to the dis-five to forty cart-loads to the acre; then about trict schools, clad in neat and various attire, the last of June, spread on your manure, and skipping and playing on the route, full of gladness and freedom. Now they are called up in
the morning by the ringing of a bell. They rise,
they work, they eat, they go to bed and they
sleep to the sound of a bell, that tolls dismally
running of the seed-sower. Now sow the seed
in their means of the seed-sower. Now sow the seed in their weary ears, the knell of all their former at the rate of a pound to the acre; have the rows at least thirty inches apart, so that you can In the story of this once happy village and its use a horse and cultivator; with the aid of a boy

hand, and feeding them out, if it is thought to excellent, the timber heavy in the forest, with be too much work about it, purchase a root-cut- a plenty of good pasture and smooth tillage land, ter that will do the work quickly. I do not think and where farms may be purchased at the rate of it advisable for any man to have "hired help" about, that takes a man an hour to cut and feed four dollars per acre. He says hay, oats, wheat, out four bushels of turnips, when one-quarter barley and potatoes are raised in abundance, and part of the time is sufficient for the operation. If within 29 hours ride of Boston. He thinks there you do not like them in the cellar of your house, provide a place under your barn, as every good farmer should.

In conclusion, permit me to say to "E. E." spring. that I think it will give more satisfaction to the readers of the Farmer, if he and all others will please to give their name and place of residence, that it may be known what "region" they hail large yield I had of this kind of oats last year. from, for then they will not "hide their light," as it were, "under a bushel," but will shine for that they are not quite as heavy, on account of the good of all around them. J. Underwood.

Lexington, Nov. 1858.

EXTRACTS AND REPLIES.

PRESERVING SPECIMENS OF BIRDS AND FISHES.

Will you inform me in regard to the best manner of preserving specimens of birds and fishes for the cabinet?

Remarks.—In volume 4 of the monthly Farmer for 1852, page 349, you may find a specific account of the manner of stuffing birds, which will undoubtedly be just what you desire. It is feeding neat cattle and swine? too long to copy here. It was prepared by our associate, Judge French, expressly for our col-

You will find an answer to other portions of your letter in another column.

SHEEP, LAMBS AND WOOL.

In March, 1857, I bought seven French Merino ewes, from which I raised 6 lambs that spring, and sheared 50 pounds of wool. Last spring I received 10 lambs from 6 of the old ewes, and from the 7 original sheep, and the 6 yearlings, I sheared 100 pounds of thoroughly washed wool.

My corn, (which is known by the name of the King Philip) I planted in three separate patches. From one of these pieces, containing \frac{1}{2} an acre, I received 115 bushels of ears. Also from another piece of & of an acre, I got 135 bushels. This parts of New England, and an excellent variety. piece suffered considerably from drought.

POTATOES.

system," I dug 95 bushels of sorted potatoes. As in an investigation of the grasses which grow on I did not put in seed enough, I am dissatisfied your farm. with this trial, and am confident that I can raise a much larger crop next year on the same plan, These potatoes were raised on greensward land, enriched with only two loads of manure.

Sharon, 1t., 1858. D. L. STEELE.

EMIGRATION EAST.

near Lake Moosetumaguntic, where the soil is in other respects, and note the result.

will be a considerable emigration from Western New England to that portion of Maine next

AUSTRALIAN OATS.

The readers of the Farmer will remember the They have done equally well this year, except the rust striking them before they were ripe. I had heads over twenty inches long in my front yard; the average length in the field was about twelve inches. Last year there was a great call for them, and I had none to sell, as all I had to spare were sold to those who saw them before they were cut. C. F. LINCOLN.

Woodstock, Vt., Dec., 1858.

KIND OF CARROTS FOR CULTURE.

I wish to inquire which is the most productive variety of field carrots, and which the best for

I have cultivated the Orange carrot on a small scale for two years past with good success.

Clements, N. S., Dec. 1858.

ISRAEL BALCOMB.

Remarks.—The long Orange earrot we consider the sweetest and most nutritious, but perhaps will not produce quite as many pounds per acre, under the same circumstances, as the Altringham carrot.

GRASSES-PLAN OF FARM BUILDINGS.

Mr. T. P. Bayley, of South Ryegate, Vt., has our thanks for the plan of Farm Buildings sent in a recent letter.

We are not quite clear as to what all the grasses are, about which inquiry is made. The first is undoubtedly the fowl meadow, common to most A small book on The Grasses, recently published by Charles L. Flint, Secretary of the State Board From 1 of an acre planted on the "one eye of Agriculture of Mass., will give you great aid

We think you will find it advantageous to reclaim swamp lands that are convenient to the buildings, by taking it in moderate portions, and thoroughly performing the work as far as you go. You will not probably err in hauling too much muck upon your uplands if they are of a Mr. JACOB CROWLEY, West Mansfield, Mass., sandy character. Try a piece at the rate of fifty one of our old subscribers, writes us that he has ox loads per acre, and another with half that purchased a large farm in Franklin County, Me., amount, and let them be treated precisely alike

A GREAT WHEAT CROP.

and two or three plants to the hill; and he re- but worthless, and a plague to all who in future ports obtaining from a small plat of ground, 'a will be connected with it. crop so large as to be equal to two hundred bushels to the acre.' The soil is kept stirred and cultivated during the growth of the erop."

Remarks.—This seems to us impossible—we believe the "writer in the Genesee Farmer" must be mistaken. When we look at a field of wheat that produces thirty, or thirty-five bushels per acre, we are puzzled to find room to place the mouthed jars, and pour over them scalding vineplants to bring ten bushels more. It is the publication of such improbable events, such wild assertions, that throws discredit on the agricultural

BOYS' DEPARTMENT.

SIR ISAAC NEWTON'S TASTE FOR FARMING.

When Newton had reached his fifteenth year, he was called from the school at Grantham, to take charge of his mother's farm. He was thus ton made his way to the garret of the house in powder to a pint of milk. which he had lived, to amuse himself with a parcel of old books left there; and afterwards he stale bread, when immersed in cold water for a would entrench himself on the wayside between Woolsthorpe and Grantham, devouring some favorite author till his companion's return from market. And when his mother sent him into the fields to watch the sheep and cattle, he would of rice in half a pint of milk till it is soft, then perch himself under a tree, with a book in his fill the dish half full of apples which have been the movements of an undershot water-wheel. ses; put the rice over the fruit as a crust, and One of the earliest scientific experiments which bake one hour. Newton made was in 1658, on the day of the great storm, when Cromwell died, and when he of pared, boiled and mashed potatoes with one himself had just entered his sixteenth year. pint of milk, three eggs well beaten, and two Newton's mother was now convinced that her ounces of sugar. Bake three-quarters of an hour. son was not destined to be a farmer; and this, with his uncle finding him under a hedge, occupied in the solution of a mathematical problem, led to his being again sent to Grantham, and then to Trinity College, Cambridge, which thence became the real birth-place of Newton's genius. -Scientific American.

AN OBEDIENT CHILD.—No object is more pleasing than a meek and obedient child. It refleets honor upon its parents for their wise management. It enjoys much ease and pleasure to the utmost limit of what is fit. It promises excellence and usefulness, to be, when age has matured the human understanding, a willing subject and bake forty minutes. in all things to the government of God. No obthem; but a child indulged is more to be pitied oven.

-it has no parent; it is its own master-it is "A writer in the Genesee Farmer says that he peevish, forward, headstrong, blind-born to a has tried the cultivation of wheat in hills, like double portion of trouble and sorrow above what corn, having the hills two feet apart each way; fallen man is heir to; not only miserable itself,

LADIES' DEPARTMENT.

DOMESTIC RECEIPTS.

PICKLED EGGS.—Boil the eggs until very hard; when cold, shell them, and cut them in halves lengthways. Lay them earefully in largegar, well seasoned with whole pepper, allspice, a few pieces of ginger, and a few cloves of garlic. When cold, tie up closely, and let them stand a month. They are then fit for use. With cold meat, they are a most delicious and delicate pickle.

HOE CAKE.—This cake, so popular in the South, as a breakfast and tea cake, is made in the following way: Scald a quart of Indian meal with a pint of water; stir in two teaspoonsful of salt, and a little butter melted; put it, when properly mixed, into a well-greased tin, and bake it half an hour.

TO RESTORE SOUR MILK OR CREAM.—Milk frequently sent to Grantham market, says Timbs, or cream, when it has turned sour, may be reto dispose of grain and other agricultural pro-|stored to its original sweetness by means of a duce, which, however, he generally left to an old small quantity of carbonate of magnesia. When farm servant who accompanied him, and New-the acidity is slight, half a teaspoonful of the

STALE BREAD.—It is not generally known that

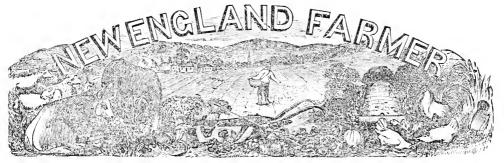
RICE AND APPLE PUDDING.—Boil half a pound hand, or shape models with his knife, or watch pared and cored; sweeten with sugar or molas-

COTTAGE PUDDING .- Mix about two pounds

POTATO APPLE DUMPLINGS .- Boil any quan tity of white, mealy potatoes; pare them and mash them with a rolling-pin; then dredge in flour enough to form a dough; roll it out to about the thickness of pie crust, and make up the dumplings by putting an apple pared, cored and quartered to each. Boil them one hour.

BAKED APPLE PUDDING.—Boil one pound and a half of good apples with a gill of water, and half a pound of brown sugar, till reduced to a smooth pulp; stir in one gill of sweet cream, a table spoonful of flour or fine bread crumbs; flavor with a little lemon juice, or grated lemon,

RICE CUSTARD.—Boil two ounces of ground ject, on the contrary, is more shocking than a rice in a pint and a half of new milk; add four child under no management. We pity orphans ounces of sugar, an ounce of grated cocoa-nut, who have neither father nor mother to care for four ounces of sweet cream, and bake in a slow



OTED TO AGRICULTURE

BOSTON, FEBRUARY, 1859.

N0.

JOEL NOURSE, PROPRIETOR OFFICE...13 COMMERCIAL ST.

SIMON BROWN, EDITOR.

HENRY F. FRENCH, | EDITORS.

CALENDAR FOR FEBRUARY.

"Wide o'er his northern realm stern winter reigns A conquering tyrant; and his icy chains Are on the streams that lately danced along To the glad music of their own sweet song. The brave old oak, where through the summer days Sported the birds and carolled forth their lays, Stripped of its foliage by the northern gale, Wayes its dark arms aloft, and seems to wail Unto the heedless blast that sweeps the snowy vale."



EBRUARY once more —the last of the

winter months. and a short one, too. The sun is already coming back from its southern tour, and the visibly lengthening days give us a premonition of Spring, though till the latter part of the month this is about all the sign of its coming.

It requires a good deal of faith

to look out on the snowcovered landscape, and realize what secrets Nature keeps locked up from our sight .-

says Beecher, in his "Life "Every season," Thoughts," "every season forms itself a year in advance. The coming summer lays out her work during the autumn, and buds and roots are forespoken. Ten million roots are pumping in the streets; do you hear them? Ten million buds yourself would you be well served," is an excelare forming in the axils of the leaves; do you lent adage. We all remember the fate of Miles hear the sound of the saw or the hammer? All Standish in his wooing, because he, for the time, next summer is at work in the world, but it is forgot his own motto! unseen by us."

the cold-to warm our houses and provide comfortable clothing, we are almost inclined to envy the inhabitants of a less rigorous climate. But even in this we may see the law of compensation. Every one knows that energy, forethought, enterprise, inclustry, and many kindred virtues, are especially the growth of a cold latitude. Doubtless the direct influence of a bracing atmosphere has much to do with this, but we may find still other causes. When the choice lies between freezing and working, most men will work. When a man knows that for six months of the year he must look out upon a barren world, he will, from necessity, employ the other six months in providing for this emergency. Hence he acquires habits of forethought.

Again, there seems to be a law of nature that by overcoming obstacles, we become stronger, morally, intellectually and physically, and that what we gain by hard labor, we value proportionally. It is the son who has a fortune left him who becomes a spendthrift, not the father, who by slow and constant toil, accumulates that fortune. It is the young man, who, by earnest and constant effort, acquires an education, who becomes a Franklin or a Webster, and not, usually, the offspring of wealthy parents, who stand ready to hold him up at every step. The one knows he has the battle to fight for himself, so he puts his armor on. The other is born to wealth, position, friends-and there is nothing to call forth his energy-and so he lacks that strength of character which is of more real value than anything he can inherit.

Success is not to be won by proxy. "Serve

In our cold, hilly, sterile New England, we When we think how much of our time and la- must "do or die"—but then the home which we bor are required merely to protect ourselves from found "upon a rock," to stand against storm and flood, we prize. The wealth we gather out of for, as those who have not outlived their romance rough hills and barren swamps, we are not likely will remember, Saint Valentine's day comes on to squander; the knowledge we acquire in our the 14th of February, when few birds besides the intervals of physical labor, we value.

remark, for the benefit of our younger readers, be too much engaged "in getting a living," to that, a great deal is lost by want of system. The think of matters of love. one, two or three leisure hours of each day, For the farmer, February is not, comparativewhich are, perhaps, spent in reading miscellane-ly, a busy month. He stops to take breath, as ous, if not trifling matter, would suffice in one it were, before the time for breaking up the earth, year to lay a good foundation for the knowledge and preparing for Spring's work, comes on of almost any language. Think of that, or if again. If a systematic farmer, he lays his plans inclination or expediency do not point in that di- for that work, and has it, as it were a map, eonrection, a course of history or biography select- stantly before him, so that he knows just at what ed with some regard to the nation, era, or char-point to strike to press forward his business to acter of the hero, will be of much greater use the best advantage. He, also, grows lusty and than a mass of indiscriminate, unconnected read- strong on the leisure he has enjoyed, and on the ing. Not that we would condemn light reading mental aliment which he has stored up. For entirely-it is useful in its way-but let it be such an one the earth unlocks the treasures of the dessert, and not the main dish. If summer her bosom, and welcomes him to the banquet. is the seed-time of the physical world, winter is Winter affords grand themes for the poet, and our intellectual seed-time. Let us use it to gar- and if they are not so gentle and soothing as ner up treasures for our future.

er climates, we cannot afford to lose our winters passage of the seasons. And as the poet opened and especially our winter evenings. Of these we our pleasant discourse with the reader on this have spoken before, but they form too character- February topic, so may he grace its close. istic and important a feature of New England life to be forgotten or passed over.

The gathered household—the fireside circle of how many plans, and hopes, and wishes, is it the centre! Who can compute its influence upon the national character?

"From scenes like these old Scotia's grandeur springs, That makes her lov'd at home, revered abroad; Princes and lords are but the breath of kings-An honest man's the noblest work of God."

But winter has other pleasures peculiar to itself, beside those of the Home circle. There are of circles is due to the custom of constant walksocial gatherings, lyceums, concerts, and last, ing, which prevails among the residents of crowd-but not least, in the opinion of the young people, ed towns. This compensates for the want of fresh sleigh-rides,—though some confess to an involuntary shiver, a sort of "Arctic Expedition" senters, when they can command a horse, think a sation, at the bare mention of such a thing! But mile's walk a great undertaking. Ladies in the such persons must have been among those who country hesitate about venturing abroad on foot; went a sleigh-riding, and found "Love's Labor Lost." It ought to kindle one's blood into a delightful glow, even to think of an old-fashioned delightful glow, even to think of an old-fashioned miles over the pavements, without thinking of sleigh-ride. With the roads glassy, the ther-the exertion. Visitors to the city from the counmometer a little above zero, a pair of spanking try are worn out by a day's "shopping," while steeds, plenty of buffalo robes, and three humans their city guides are apparently as fresh at the on a seat, the hero in the middle, who would eare walking is the most set of the day's work. for Old Boreas, even if he came with all the ough exercise that can be taken. Infantry, in Arctic Regions on his back!

ours, that the old song was written,-

"'Twas on the Eve of Valentine, When birds begin to mate,"

adventurous snow-birds are to be seen in our With regard to reading and writing we would region, and they, like many of their betters, must

those of spring or summer, they have a grandeur Whatever may be said of other lands and oth- and sublimity, equally as indispensable in the

> The Ice-King loves no music save his own, That, like an organ's deep and solemn tone, Swells where the midnight tempest wildly sweeps Through leadless forests and o'er craggy steeps. And voiceless is my harp; or if its tone Should mingle with the winds a plaintive mean, 'Tis not my hand the tuneful change that rings, Nor mine the voice that to its music sings-'Tis but the wind that sweeps its sounding strings. GEORGE BLANCHARD.

WALKING AS AN EXERCISE.

It is well understood that the general health

Walking is the most natural, useful and thoran army, can outmarch the mounted men. A We suppose it was in a milder elimate than proof of the superiority of the biped over the quadruped, is given in the result of a recent wager. A man undertook to walk from New York to Cincinnati in eighteen days, and accomplished the task, with nine hours to spare. The person with whom the bet was made accompanied him el, would make 351½ bushels, or at the rate of ma carriage, and the pedestrian, at the end of 703 bushels to the acre! Who will take the palm the journey, was in better condition than the from Mr. Hathaway? horse or his driver. This accords with all experience. The human frame becomes inured to wholesome and proper exertion, and the biped gains strength under it, in a greater degree than any quadruped. We have no objection to dumb bells, and other paraphernalia of the gymnasium. But none of these contrivances are half so bene- in vegetable physiology, that no part of a plant ficial as the use of our natural means of locomo-

continent in the world to travel over, and are, as a nation, the greatest travellers. But while the to the utmost, we walk less than any civilized people under the sun. A man, no matter how much his leisure, or how great his need of economy, would be thought very poor, or next to in- nished to the roots below. A few months of starsane, who should use his feet for a journey. He vation in summer will destroy the plants. would, at the very least, be set down as eccentric or a humorist. Where time is valuable, or strength is to be husbanded for active employment, it is well to take advantage of public conveyances. But if Americans would prescribe to themselves what John Bull calls his "constitu- a source that we cannot at this moment give, is a tional walk," we should gain in strength of mus- further corroboration. The "curious circumcle, and banish or diminish the common com-stance" mentioned, exists the same with any othplaint, dyspepsia. Athletic games are well in er plant, as with clover: their way, but one cannot always get up a crick horse's legs are better than a man's.

with a hearty, springy swing. Nothing more exmight meet the doctors with an independent air; consequently the produce of the succeeding crop. and as to the nostrum-mongers, starve them into taking up a more useful avocation.—Philadelphia Gazette.

For the New England Farmer.

AN EXCELLENT CROP OF ONIONS.

some of your readers, that in the course of last spring, I furnished for the columns of the Far- had been cut once and fed off, he got 35 cwt. of mer the measurement of several huge mounds of clover roots per acre. Where he cut twice, he manure, which I found standing on the farm of got 75 cwt.; there being a difference of two tons Mr. Seth Hathaway, of this town. In that ar-Mr. SETH HATHAWAY, of this town. In that ar- of vegetable matter per acre."—Country Gentleticle, I intimated that I should keep an eye on man. the crops of Mr. Hathaway during the season, with the view of reporting at some future time how such manuring paid. I would, in general, remark on the result of this high manuring, that the returns were proportional to the outlay, the crop of potatoes in particular being remarkably umn. We think it will be found, not merely conheavy. Of the onion crop, I have now before venient, but exceedingly useful to all classes of me the weighed yield of half an acre, which I think will be on all sides conceded to be a credit to his skill and industry. Number of pounds of great care, by one of the clerks of Messrs. Shedd onions marketed from a measured half-acre of & Edson, Civil Engineers, 42 Court Street, Bosland, 17,575; which, at fifty pounds to the bush-ton, at a cost of not less than twenty-five dollars.

J. J. H. GREGORY. Marblehead, Dec. 15, 1858.

ROOTS CANNOT GROW WITHOUT LEAVES.

It is a well-known and well-settled principle can grow without the assistance derived from the leaf, which decomposes and re-arranges the crude The people of this republic have the largest materials of the food of plants, and thus forms new wood.

For this reason, a very simple and easy way to rail, the river and the horse carriage are all used kill a patch of Canada thistles, or any other weed whose roots spread wide and extend deeply into the soil, is by keeping the tops cut off or the leaves smothered, so that no food can be fur-

> For the same reason, elover or any other plants, will extend the growth of their roots more rapidly and freely if a larger top is permitted above

ground than if closely pastured.

The following statement, not wholly new, from

"AGRICULTURAL EXPERIMENT. -- A curious ciret or rowing match. The consent of others is cumstance connected with the growth of clover required, whereas, to walk briskly and habitual-is, that by cutting the clover twice and removing ly, it needs only that we overcome our own iner-all the hay, a much better wheat crop is obtained tia, and diabuse ourselves of the notion that a than by feeding it off by sheep, even if some artificial food is used. This is owing to the fact No motion calls more of the muscles into that the growth of the roots of clover in the land healthy play than walking-not gliding like a is in exact proportion to the growth of the leaves ghost, with arms motionless, but pushing along, in the air. Each leaflet that shoots upward sends a radicle or root downward. If the leaflet be hilarates the whole man than a current of air bitten off or destroyed, its radicle ceases to grow. created by his own brisk movements. If this It therefore follows that grazing clover by sheep exercise, so conducive to health, and so readily materially diminishes the amount of vegetable taken, were more in fashion and in favor, we matter accumulated in the soil by the roots, and

The above is sustained by the following:

"A friend of mine in Northamptonshire had a field of clover; it was divided into two portions; both were cut at midsummer, and one part was then fed off with sheep, and the other left to grow MR. EDITOR:—It may recur to the memory of hay removed. Equal portions of the several pieces were then compared. Where the clover

> Table for Measuring Land.—The attention of the reader is called to the Table for the Measurement of Land, which we give in another colfarmers. It was prepared at our suggestion, with

PROPER USE OF PORK AS FOOD.

opinion that "A fat hog is the very quintessence physicians of Ohio, wrote to the Courier:

A fat hog is truly the quintessence of scrofula, for scrofa in Greek is hog, and the derivative cess is bad, and the scrofulous means hoggish. The disease scrofula the bulk of a meal. was so called when medical science was in its infancy, from its supposed resemblance to some diseases of the hog, and then the inference was easy, that eating the hog (scrofa) produced the hog-disease (scrofula.) It is well known, however, that our American Indians and the Hindoos, who never use pork, are liable to this disdoos, who never use pork, are hable to this dis-ease; that in Europe it prevails chiefly among the unnatural opening is much like a leaky dinnerill-fed poor, who hardly taste meat of any kind.

On the other hand, the Chinaman and our own Extended experience alone can settle such a pioneers, who hardly eat any other flesh, are remarkably healthy and exempt from scrofula—a

In the South, from their sleek appearance and guish the bacon-fed negro.

These examples may suffice on that head.

Fat pork is not in any sense carbonic acid, but hydro-carbon, a combination of hydrogen and carbon. It becomes earbonic acid and water by combining with oxygen in the act of being burned or digested, which is much the same thing-givheat and ght.

It is true the fat of pork does not make blood or red flesh, though the lean, which is always eaten alone, does. It is as your article says truhad stopped five minutes before he took his pen, slow to partake. we should never have seen his article on fat pork.

But it does more. All the fat that goes into the stomach and thence into the blood does not undergo slow burning, but is deposited in the body as human fat. Now a certain amount of fat is so necessary for the proper play of all the parts, muscles included, that without it, the body, like an ungreased engine, wears itself out by its own friction. In consumption, the waste of fat is one alarming and most dangerous symptom, chiefly by supplying the blood with fat.

when the stomach will receive it—does just as man has spent "forty years among the corn crops, tropical climates are used as substitutes.

But go to the Arctic regions and see the refined it.) Dr. Kane and his men devour raw walrus blubber with a gusto, as we would take a dish of ice-to his theory, "that manure composted under cream, and you will conclude that "fat pork," cover is a dangerous article as food for plants;" particularly in our Arctic winters, is not so bad or how many careful farmers will be likely to fol-

an institution.

We could not live on fat pork alone—nor on sugar and starch—though we could on bread. The Scientific American having endorsed the Bread, the staff of life, contains the materials both for breathing and making blood and red of scrofula and carbonic acid gas, and that fat flesh (muscle) in a supereminent degree, greater pork was never designed for human food, making even than lean beef or any other single article no red meat or muscle," etc., Dr. Holston, of of food, and this, or some substitute, such as Zanesville, who is one of the most intelligent beans, peas, potatoes, etc., is always eaten with fat pork, so that there is a sufficient supply of blood and flesh-making material. However, excess is bad, and the fat pork must not constitute

> Chemical analysis is a poor substitute for the observation of facts in the living body, nor can we even base very much on experiments made on Mr. Martin, the man with the hole in his stomach, by which food can be introduced and digestion observed, for that is not nature's way pot with a hole in the bottom stuffed with a rag.

question.

The Greeks and Romans esteem perk as a luxoriginating long ago from the hereditary taint and allowed the long ago from the hereditary taint and allowed the long ago from the hereditary taint and allowed the long ago from the hereditary taint and allowed the long ago. of an unmentionable disease favored by irregular Our own Saxon (Teutonic Scandinavian) ancesliving and poor diet. heaven, provided a great hog with golden brisexemption from scrofula, you can at once distin-tles, called Gullibortstli, of whose bacon the heroes of Walhalla dined every day, when at night the picked bones again united and became covered with a fresh supply of fat pork. In this estimate of the hog, the mass of mankind, not of the Shemite race, (Jews, Turks, Arabs, etc.,) who follow Moses' law, that had spiritual and ing off during those processes large amounts of and will agree a large agreed, and lives by drawing his breath. Whenever the Scientific American or Prof. Liebig will discover a new process of living without breathing, we may be guided by their opinion; till then, I opine, ly, material for breath. Well, that is a good "good corn-fed (and no other is good) pork" will deal. It is supposed that if the writer's breath rule the roast, of which themselves will not be

My remarks are of course only applicable to

For the New England Farmer.

"USE OF FRESH MANURES."

Mr. Editor:—I noticed an article in your and the far-famed cod liver oil acts perhaps paper of the 27th of November, under the above caption, from Mr. Mansfield, of West Needham. I am satisfied by experience that fat pork- Is it possible in this enlightened age, and after a well. Moreover, few of those delicate persons that he should be so greatly mistaken or blind that have so great an aversion to pork or other in regard to the manufacture and application of fat, ever live to see forty years. They die young manures, or that he should have the "courage" of consumption. Butter, sugar, starch, vegeta- to write such an experience for an agricultural ble oils, act to some extent as animal fat, and in paper? (And I think you, Mr. Editor, must have a large share of moral courage to publish

> How many converts dees he expect to make llow his advice, and "give their manure the ben-

efit of both sun and rain?" Or will be find one number exceeds this, unless special care be taken individual outside of the walls of a lunatic asylum to subscribe to his doctrine, "that there is no place more suitable for manure in the winter than under the eaves of the south side of the barn, that all the water that falls from the barn, and the snow that accumulates upon it is no more than is needful for the preparation of the manure, to fit it as food for plants," &c., &c. In his "forty years' experience," has it never occurred to him, that he could compost his manure? mix with it soil, mud, peat, &c., and by this process secure all the juices and gases that otherwise would escape by drainage and evaporation?

In his long experience, has he never learned that the caustic qualities of powerful manures, (whether barn manure or guano) if he puts an undue quantity in the hill, will prevent the germination of his corn or other crops? and yet if instead of exposing it to the weather and bleaching it in the rains, he would mix it with the same bulk of soil or mud, he would have twice as much manure, and of a better quality; then his barn cellar will not poison it, and it will not poison his crops or prevent their germination.

Can it be possible that Mr. M. is in carnest in recommending his ruinous theory? or that he would for a moment think of practising it himself? If so, we would suggest that his "forty years' experience in the cornfield" has been to the production of the greatest quantity, but in vain, and that he had better have slumbered all that time with Rip Van Winkle.

Horace Collamore. North Pembroke, Mass., Dec., 1858.

CARE OF SHEEP ... MUTTON.

The opinion is quite prevalent in some sections, that sheep require no water in winter, and other country. It appears, indeed, to be univerthat they actually do better without than with it. This, however, is a mistake, and one that has not unfrequently caused considerable losses. When permitted, sheep, although they are, from their particular nature, capable of subsisting a longer time without fluids than any other domestic animal, will generally drink from four to eight times a day, and with evident benefit, particularly during winter, when they are necessarily restricted to dry and unsucculent food, which engenders thirst, and requires much drink to render the economy of digestion and assimilation are of a more diminutive size, and much longer sufficiently rapid and perfect to insure a continuance of thrift and health. When practicable, there should always be a watering-trough in the shed or yard, to which the animals confined in it can at all times have free access, without mixing with cattle or large stock of any kind, as they are liable to be injured by the latter, especially when young. When there is a pump in the yard, the trouble attending such an arrangement is comparatively slight, even where the sheep and of four years, and hence, probably, the reason cattle yards are, as they always ought to be, dis-

as can well be kept in one enclosure. When the on fat readily, are often marketed at two or three

to secure the most perfect ventilation, the animals are likely to contract diseases, and never do so well as when confined in smaller flocks. Pure air is essential to all animals, but especially to the sheep. On taking sheep from their summer ranges, in autumn, the sudden change from green to dry feed often operates detrimentally. This is sufficiently evinced by the sudden loss of appetite, and consequent emaciation exhibited, and which is often attributed, erroneously, to disease. As soon as they are taken from the pastures, a few messes of turnips should be given them, daily, for a week or so, gradually diminishing the quantity as they become accustomed to other food. By adopting this plan, and allowing them a liberal supply of water and salt, their constitutional vigor will remain unimpaired, and the change rendered unavoidable by circumstances, be productive of no unpleasant or deteriorating results.

In Great Britain, where so much use is made of mutton by all classes, from the peer to the laborer, great attention has been accorded, not only also to the best quality of mutton. After so long a series of efforts and experiments, it is but reasonable to suppose that very many important discoveries have been made in this particular branch of rural economy, and that the business of fattening, in all its details, is there more thoroughly understood and practiced than in any sally conceded by agricultural writers of England, that sheep of great size and rapid growth, will not give so fine mutton as smaller animals, and those which are longer in coming to maturity. This axiom may, in fact, be regarded as constituting the genuine secret of the success which so markedly attends the efforts of the British herdsmen and flock-masters in fattening their animals for the market. The Leicesters, consequently, are less valuable, being large and of quick growth, than the "South Downs," which in coming to maturity.

A late writer, in remarking on this subject, says :- "A sheep to be in high order for the palate of an epicure, should not be killed earlier than when five years old, at which age the mutton will be rich and succulent, of a dark color, and full of the richest gravy; whereas if only two years old, it is flabby, pale and flavorless."

In this country, mutton rarely attains the age why the article known by that name is generally so poor compared with the English article. Weth-From twenty-five to thirty sheep are as many ers of good size, and of a breed disposed to take years old; but it would be for the breeder's in-crowned wren, that little atom of ornithology,

For the New England Farmer.

ORNITHOLOGY.

BY S. P. FOWLER.

study and use to the State. Augury was regulyoung, leaves these northern regions for the south larly taught among the Romans, and an officer about the middle or last of August. was appointed, whose duty it was to foretell future events, by the singing and flight of birds, appearances of quadrupeds and celestial pheculiar circumstances, do not always conform to nomena. A college or communion of augurs the great migratory law of their nature, but pro-

the ancients was to a considerable degree regulated by the flight of birds in their migration. Whether we shall ever acquire so perfect a knowl- Well, the exhibition of unbelief upon this subedge of the habits of our birds, that by the use ject is nothing new or strange, more especially, of a calendar noting their arrival and disappear- with those who hold that nature never contraance, we can, to any considerable degree, improve venes her own laws. The parts visited by our upon our system of agriculture, is perhaps some-birds in autumn and winter are Mexico and the what doubtful. But the appearances and mani-southern portions of the Union. Mr. Nuttall, festations of nature, as seen on our farms, to a who has given considerable attention to the mithoughtful and cultivated mind, are calculated to gration of our birds, remarks that the greater awaken devout and pleasant emotions, and when number of birds travel in the night; some spe-

the bluebird is the unmistakable voice of spring; Those which travel wholly in the night are owls, the mellow note of the Baltimore bird and the butcher-birds, kingfishers, thrushes, fly-catchers, quaint melody of the bobolink remind us that the yellow maize should be lain in the earth, and number of aquatic birds, whose motions are ofleft to "sleep in the rain and sunshine;" the appearance of the blue jay in autumn, having left desolate northern regions, where they usually rethe woods for our cultivated fields, proclaims to tire to breed. Other birds are so powerfully imus by its clamorous note, the harvest near; the pelled by this governing motive to migration, call of the wild goose, over our heads, late in that they stop neither day nor night; such as autumn, as it pursues its southern flight in long, the herons, plovers, swans, cranes, wild geese, converging lines, is a sure indication that the storks, &c. When untoward circumstances rennorthern lakes are frozen, and that the earth is der haste necessary, certain kinds of birds, which soon to be closed with frost; while the appear-ordinarily travel only in the night, continue their ance of the shrike, as he descends from his home route during the day, and scarcely allow themin the mountainous forest, indicates to us the selves time to eat; yet the singing birds, propapproach of the snows of winter.

tively in their journeys by the course of our great thus engaged, without the aid of recruiting sleep? rivers and mountain ranges, and our water birds take a bird's-eye view of the country over which birds to migrate?" they pass. For instance, there is the little ruby | Danvers-port, Nov. 24, 1858.

terest to keep them at least till they were five not larger than one's thumb, which passes from years old, as he would then be able to offer a very Hudson's Bay, where in summer it breeds, to source a wise according. Hudson's Bay, where in summer it breeds, to source a wise according superior article, and to secure a price accordingly. There is no meat superior to good mutton;
it is wholesome, and possesses a flavor equal, if
it is wholesome, and possesses a flavor equal, if
of insects. This little timid bird does not for a superior to the best beef. moment, appear to lose its way, or, as we say, get its head turned round; but uniformly enters an orchard or garden on its northern side, and passing through it, from tree to tree, leaves it from its southern border, and thus pursues its journey silently and quietly along for months, until it at last reaches the most southern portion The annual migration and flight of birds is an of the Union. In February, it leaves Florida in interesting subject, and was thought by the an-lits journey north, and arrives around Hudson's cients to be a matter of real and indispensable Bay by the first of June, and after rearing its

was established, and it was held in high respect. vide themselves with winter quarters in hollow The system and practice of agriculture among trees, sand banks and the bottom of ponds. The accurately observed, denote to us the proper time cies, however, proceed only by day, as the diurnal to commence and close our agricultural labors. The peeping of the little hyla and the note of bills, larks, blue-birds, swallows and some others. erly so called, never migrate by day, whatever To an ornithologist, the study of the migra- may happen to them. And it may be here intion of birds is particularly interesting. Many quired with astonishment, how these feeble but of our land birds probably are guided instinct enthusiastic animals are able to pass the time,

The migration of birds is a subject on which by the trending of our coast line. But it is dif-comparatively few observations have yet been ficult to conceive of the instinct that directs some made. Even the precise periods of their apof our birds, which do not appear to heed the di-pearance and disappearance in different parts of rections supposed to be apparent on the face of this continent have not been noted with the necther country, but carelessly pass along, intent essary degree of attention; and until persons only in feeding, as they slowly progress in their properly qualified shall undertake the task, we journey, taking no landmarks, and heedless lit-must remain contented without being able to antle creatures as they, do not even so much as swer the rather difficult question, "What causes

VALUE OF HAY-CAPS.

MESSRS. EDITORS:—One of the principal uses chine I purchased four years since. of our agricultural papers is to promote an exchange of views and experiments among farmers. half hour to cut an acre, and it was hard work at If a man has convinced himself, as Mr. Halsey that for man or beast. Yet I was pleased with has, that a doing any kind of work is useless or that machine, because it was so much in advance unprofitable, he cannot do a greater service to of scythes in the hands of Irishmen. his brother farmers than to warn them how to his brother farmers than to warn them now to avoid a foolish and useless expenditure; but being now fully convinced that my experiments have been fairly made and supported by the testimony of many who have tried them, I must adhere to my hay-caps. Mr. Halsey says he never expects to save hay uninjured through a two layer was been to save have done it and hope, not to have love will commence with the new machine, days' rain. I have done it, and hope, not to have the rain, but to do it again, if it unfortunately comes. In July, 1855, I had ten tons of hay cut on four acres, by mowing machines. It was put this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result, alluding to this season this has been the result. up, and the second day covered with 200 covers. I weighed several of the cocks, and they averaged 100 pounds. It rained nearly two days, and the quantity of water was two inches and four the quantity of water was two inches and four the cut sixty-eight acres. This statement does not consider the machine was done, occupying perhaps one-fourth as much time as the machine, we have cut sixty-eight acres. This statement does not consider the machine was done, occupying perhaps one-fourth as much time as the machine, we tenths. On the third day, at 10 o'clock, I began to draw it in, only the bottom being a little wet. This saved me one day opening and spreading, by an Irishman, and I think he has not worked by an Irishman, the base cut agree. I have kept and, in my opinion, saved one-third of the value more hours than he has cut acres. I have kept of the hay. My hay-caps to cover a ton cost \$6, the machine in order with less time than it would and the hay sold for \$12 a ton, and this saving have cost me to keep the other Irishman in trim was for three days' use of the hay-caps. I have heard them so frequently commended, that Mr. Halsey's condemnation of them astonishes me very much. How much hay is injured by being wet is a matter I cannot speak of with entire certainty. In fact, the cost of repairs for the past very that I have head occasion to grind but once during the whole season, and the breakage has amounted to only one blade, costing twenty wet is a matter I cannot speak of with entire certainty. In fact, the cost of repairs for the past wet is a matter I cannot speak of with entire certainty, but I had rather keep even the dew off four years has not amounted to one dollar and of mine. - WM. H. DENNING, in Country Gentle-fifty cents for both machines.

For the New England Farmer.

FOUR YEARS EXPERIENCE WITH A MOWING MACHINE.

chines, perhaps there is no question among far- five cents, and consuming less time than it takes mers that engrosses more attention and discus- to grind the scythe for an Irishman after he has sion than the expediency of employing a mowing whet the same a dozen times. My horses have machine. This is a question which every sensi-seldom sweat during the operation of mowing, ble farmer will, of course, settle for himself, ta- and I do not think it harder work for a pair of king into consideration the quantity of grass to horses than the splitting of corn hills. be cut, the amount of labor to be hired, and the The machine can be put in order for work in ual, and your subscriber happens to be of that of drying, however, it is better to wait until the class. Under the influence of this infirmity, I dewis off, if the grass is heavy. The finger bar not purchased a Ketchum machine four years since being encumbered with any thing, we run it up uncould be discovered, in order to perfect the marrequired relative strength, and it is difficult to chine. On my part, I have been equally ambi-say which part is most likely to fail.

tious to avail myself of those improvements, so that what I say now, will not apply to the ma-

With the first machine, it required one and a

My mowing forces had hitherto consisted of

The matter of grinding needs a little explana-When I say that I have ground but once, I allude to a general grinding of all the blades in the finger bar. With the exception of grinding a single knife after it had come in contact with a stone or a bone, the whole has been done Mr. Editor:-In the use of labor-saving ma- with the English burr whetstone, costing twenty-

adaptation of his farm to a mower; still I think less than five minutes after reaching the lot to be a little practical experience may be necessary to cut, and proceed forthwith to cut the double lead him to a just and positive conclusion. It is swath. It makes very little difference with horses the weakness of some men to believe that animal or machines whether the grass is thick or thin, and mechanical labor is much cheaper than man-lodged or standing up, wet or dry. In the matter of the firm of Ruggles, Nourse, Mason & Co., and der a low apple tree, round a stone, in fact, any whatever I have to say relates wholly to that pa-place where it does not require a short corner to tent. I was among the first to employ a mower the left. Being on a line with the driving wheel, in this part of the country, and likewise a horse- it shaves the convex and concave surfaces beaurake, having used the latter nineteen years. I tifully. I have this season cut a surface, so unhave never seen any other machine in operation, even that we could not cart a load of hay over and am not qualified to judge of their relative it. It is nearly all iron, not subject to decay, exmerits. I think, however, that the firm who now cept the pole and driver's seat. Take off the finmanufacture the Ketchum machine, (Nourse, ger bar and pole, and it is as compact as a wheel-Mason & Co.,) have been very ambitious to disbarrow, and may be run and stored by one man cover, and to add improvements as fast as they in like manner. Every part appears to be of the with my "four years' experience with a mower," I should like to tell you what I consider to be

the advantages of a moving machine.

1. It gives all the hands about three hours every morning to pitch off hay carted the day before—keep clear of weeds the hoed crops, and and this is probably the reason why pork has got throw up muck and compost manure for fall seeding. The importance of the two last items farmers have not yet begun to appreciate.

wish to cut for the day after the dew is off, and umn, and thank Dr. Holston for his lucid exthe reputation of the day for a haymaker estab-

lished.

3. It spreads the swaths better than is done

by hand.

4. The facilities for cutting are such that they enable us to cut our grass at the precise time it ought to be cut, thereby saving a loss by being cut too early or too late.

5. The cheapness of the operation makes it advisable to take from grain fields the stubble and weeds which remain after the reapers or cradlers and doing which cleanses the future crop and affords bedding for stock.

6. In cutting the after swath, you can cut at the rate of an aere an hour, and cut to "suit your taste," whether close to the ground, or take off

the heads of clover for seed.

ing aspect of relief and comfort, instead of labor culture. I plowed an acre of green sward in and anxiety. CHAS. HUMPHREYS.

Lancaster, Nov. 24, 1858.

For the New England Farmer.

ROOT CROPS.

I noticed in a recent Farmer the article of "E. E.," on "Root Crops." He seems so much to undervalue turnips, that I feel constrained to bring in my testimony in favor of them. Having had an opportunity of testing their worth, I am desirous that others should be informed on the sub-

Last year I raised sixty or seventy bushels of French and rutabaga turnips among my corn. I had a first rate crop of corn notwithstanding. Now I do feel confident that turnips are good eral of your correspondents, in favor of roots not only for eattle, but for hogs also. I began for cattle. A year ago my stock of cows and to feed my shoats last fall on boiled turnips, and to feed my shoats last fall on boiled turnips, and yearlings were kept entirely on turnips, straw continued so to do, until the next June, and think and corn fodder till March. They were then in them as good, if not better, than potatoes for good condition and never wintered so well. hogs. Your correspondent objects very much to the smell of turnips; for my part I wish I had five hundred bushels of them, for the smell would be no more offensive to me than the sweet odor of a confectioner's shop. L. CHASE.

Hampstead, N. H.

PORK AND SCROFULA .- There has long existed a strong prejudice against the use of pork as vesting the first year he found that he had ad food for human beings-how it gained such vanced one step towards bringing out a new postrength, we cannot tell, but have always be- tato. He, therefore, the next year planted the lieved the prejudice to be without any good reason. We have known persons with comparatively feeble powers of digestion, to eat pork in vatherefore did not enjoy the full glory of his disrious forms with as much comfort as they did covery.—Springfield Republican.

Now, Mr. Editor, if I have not wearied you any other meat, and we believe it may be used in m derate quantities by most persons with as much benefit as is derived from any other meat. When well cooked, it is so palatable and delicious that we are apt to partake of it too freely, so bad a name.

We refer the reader to an interesting article 2. It gives an opportunity of cutting all we on the subject of pork as food, in another colposition of the question.

INSCRIPTION FOR A WATCH.

Could but our tempers move like this machine, Nor urged by passion nor delayed by spleen; And true to Nature's regulating power, By virtuous acts distinguish every hour: Then health and joy would follow, as they ought, The laws of motion and the laws of thought; Sweet health to pass the present moments o'er, And everlasting joy when time shall be no more.

Dr. J. Byron.

For the New England Farmer.

POTATOES .-- ROOTS AND STOCK.

Mr. Editor:—I have made an accidental ex-Finally, the moving machine imparts to the periment this year, that may be worth adding to whole process and operation of haying, the pleas- your collection of facts in respect to the potato April, and planted it with Carter potatoes, cut into one eye pieces, and without any manure. It was plowed deep, and a bandful of ashes was applied to each hill, at first boeing. For some time the potatoes looked small; but they yielded a hundred bushels of very good sized, excellent potatoes, quite free from disease.

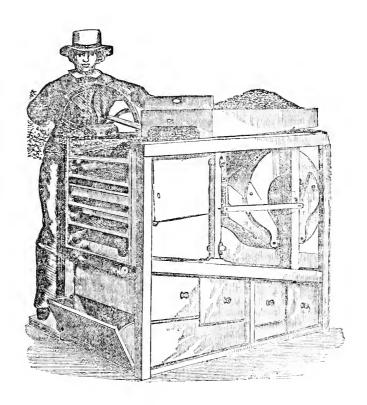
In the middle of the field, however, there was a large heap of barn-yard manure, that had been drawn out in the fall and left there till planting time. The manure was carried away and the spot it had covered planted exactly like the rest of the land. The result was a much larger yield of larger potatoes on this spot than on any other part of the field. But all of them were so much diseased as to be almost entirely worthless.

I may also add my experience to that of sev-

C. B. HADDOCK.

West Lebanon, N. H., Dec. 6, 1858.

ORIGIN OF THE CARTER POTATO.-About thirty years ago, more or less, John Carter, a resident of Savoy, in the county of Berkshire, experimented for the purpose of the improvement of potatoes by planting potato balls, and at har-



FANNING AND ASSORTING MACHINE.

spection of it, and after witnessing repeated op-erations of its work. We saw a variety of seeds as thoroughly mived in a how as they could be as thoroughly mixed in a box as they could be, low. It is certainly a simple remedy, and may turned into the hopper of the Assorting Machine, be a very efficacious one. and in a few minutes returned, thoroughly clean, and each kind of seed, as well as all imperfect seeds, in a box by itself! You may mingle grain and grass seeds, garden and flower seeds, beans, peas, coffee, rice, and they will be rapidly returned to you, clean, and each by itself! Peas and beans may be assorted according to their size, and thus give them a uniform appearance, which increases their market value. The machine is simple in construction, not liable to get out of order, and is so easily operated that a boy a dozen years of age, can comfortably do it. It was invented by Mr. Rufus Nutting, of Randolph, Vt., who may be addressed by those interested.

A SIMPLE REMEDY FOR BRONCHITIS.writer in the Baltimore Sun who has been afflicted severely in his family by that appalling dis-

We speak of this machine after a personal in-it out and dilute with a little water, and wet the

DELAYS OF THE LAW. - In one of Judge FRENCH's letters from London, published in the Farmer in August, 1857, in speaking of the administration of justice, he said, "England had made many advances, while we in New England have stood quietly still, awe-stricken and uncovered in our veneration for old legal fictions and forms, which are really entitled to no more respect or reverence, than are the old horse-hair gray wigs, which in England every judge and every barrister is compelled to wear in the courts." "Of these matters," he added, "I may have something to say at some proper time and place, when further observation shall have assisted my knowledge."

It appears that this sort of a half-promise was ease, bronchitis, has found relief from the follow- gladly received by some persons, and they have ing remedy:—"Take honey in the comb, squeeze been waiting patiently for its fulfilment. Upon

suggesting this to the Judge, he writes-"I have as a general rule, no one cultivated crop ought to already twice delivered a charge to the Grand be taken from the same land two years in succes-Jury on the Delays of the Law, in which I suggest the improvements made in Old England, especially in the system of County Courts. have been requested by the Grand Jury of Car-|my experience goes, it can be profitably grown; roll County to furnish it for publication, which I in proof of which, I will give the result of a small may do at some future time. It is not a subject adapted to an agricultural paper, but rather to a law magazine."

For the New England Farmer.

RAISING AND FEEDING ROOTS.

Mr. Editor:—In the discussion of this subject there is one important point which, if I recollect rightly, has not been made sufficiently prominent by your correspondents; that is, the great advantage to be derived from root crops, in lengthening out a proper rotation, and in affording a change or variety of feed. I am not yet a be- hog manure in the hill, have produced 80 bu. liever in turnips, or any other root, as an ex- corn, (60 pounds to the bushel,) and this leads clusive feed, nor do I think it best to feed me to another point, viz., without this same hog them to any great extent, in severe cold weather, unless warm shelter is afforded for the stock to which they are fed. But I have, for several years, fed a few turnips to young stock in the spring, and I am fully confident, that, not only did it make them more healthy, improving their coats and affording a gradual change from hay to grass, but that the nutriment supplied was amply sufficient to pay all expense of raising the turnips.

No one doubts the advantage of a little corn meal, or oil meal, or oats, in addition to the usual feed of hay, yet no same man would think of no corn. attempting to keep neat cattle entirely on either. Why, then, do they expect any better results from think of carrying it quite to this extent, yet I ting in, makes them much neater to feed. think Mr. Emerson went nearly as far in some respects, and I would respectfully suggest to him to read an article in the November Agriculturist, by "Diogenes Redivivus," entitled "A Despond-

ing Farmer."

I think highly of turnips, also, as a feed for swine, to which I have been feeding them for a few weeks in the following manner. kettle with one-fifth turnips and the rest pota- will turn to oats. Some sixty years ago an opintoes, and boil with water enough to wet a half ion prevailed extensively in the lower or seabushel of meal, which I add when cooked soft. board towns in this county (York, Me.,) that bar-I have not the means of weighing, to ascertain lev, under such circumstances, would turn to oats. the precise result, but they appear to be thriving When a small boy, I heard farmers talk about the much better than I ever saw any when fed on matter, and my brothers made some experiments clear meal, and the way they take hold of it, certainly indicates that it suits their taste exactly. It is the effect. The first experiments I ever I ought, perhaps, to add that I tried the potatoes made in farming was when a small boy, may be and meal without the turnips, and allowing pig-less than ten years old. In going to school, to gy to be a judge, the addition of the turnips is a save travel I crossed a field in a footpath through decided benefit. I have seen the experiment tried a piece of growing barley, and as I passed, I of raising swine on corn meal, and on corn and cropped it off in several places just before the oat meal, repeatedly, and although either may heads appeared, so as to touch the top of the comanswer well for fattening swine previously grown on other feed, or when mixed with a good supply of skimmed milk, it has invariable proved a poats. Where I have lived the last forty years no complete failure when fed to young animals, un-barley of any consequence is raised, and I have

sion; and in the cultivation of young orchards especially, which is an absolute annual necessity, and where grain crops are considered injurious, I the turnip is indispensable, and farther, as far as patch which I raised the past season:

EXPENSE OF CHOP. Use 16 rods land \$1,00 Preparing land and sowing 1,00 Hoeing 2,00 Harvesting......2,00 Total.....\$7,00 Amount of crop, 103 bushels, at 121 cts.......\$12.87

It is true the land was in good condition; an acre of such land would, with an addition of 30 loads manure I could not raise over half that amount of corn per acre, and I believe more than half the farmers of the northern part of New England are in the same predicament, unless they substitute some of the concentrated fertilizers, a plan which I consider to be of more than doubtful expediency.

I have had plenty of evidence that we cannot keep swine without roots or milk, the last of which, after deducting for raising calves, &c., is in many cases a minus quantity; therefore I come to this conclusion-no roots, no swine-no swine,

I should have stated that in harvesting turnips, I cut off all the roots close to the bulb, which, roots fed in like manner? Perhaps no one would although adding one-quarter to the cost of get-

WILLIAM F. BASSETT.

Ashfield, Mass., Dec. 13, 1858.

For the New England Farmer.

WILL BARLEY TURN TO OATS?

In the Farmer of Dec. 11, "E. B." inquires if I fill a barrel barley cut down by frost or eaten down by cattle less with the addition of a large amount of milk heard nothing of such an improbable suggestion, My own experience, as well as the directions but a similar notion has prevailed here that winof nearly all agricultural writers, indicates that, ter wheat will, when injured in the winter, turn

that winter wheat in such circumstances will turn quiet, slumbering, but ready to awaken into blato chess or cheat.

that or some other winter wheat, and though of- was drawing the railway train. ten partially or wholly winter-killed, it never turned to chess or rye.

My impression is, that winter wheat being a tender plant, gets injured and killed, and gives way to rye or chess, which ever kind there may

turning to oats.

under the impression that then prevailed that during the daytime; and fifty per cent. more mawheat with barley would not rust or blast as when sown alone. I know not if there was anything in that impression, but it was curious to in a cellar."

Now I wish to give you are to them was anything in that impression, but it was curious to in a cellar." see the operation of the practice. Sometimes for a series of years the wheat part of the mixture and practice in making manure in a barn cellar, would dwindle and nearly all disappear, and then and you may make such use of it as you think for another series of years the wheat would gain proper. My barn is seventy feet long by thirty-six on the barley, and nearly exterminate it. This practice of mixing wheat and barley sometimes, so far as I recollect, operated well, and generally produced good crops, and it made good bread, but I believe he used to make the experiment on his cellar, which was six years ago; but since then I best land. Barley was easily raised and was a sure have made from 150 to 175 loads in the same time. crop on my father's farm formerly, but for the My cellar is made so warm that the manure or last twenty or thirty years it is almost an entire loam does not freeze in the winter, and it is a fine failure. The fact is difficult to amount for, as it place to keep my roots to feed to my stock in the was why the wheat should give way to barley winter. I commence tying up my cows nights, the and at other times the reverse.

Rufus McIntire. Parsonsfield, Me., Dec., 1858.

THE SUNLIGHT.

fluence, 'Striking the electric chain wherewith eaves of the barn, snow, &c. I put no corn stubs we're darkly bound.' For myriads and myriads or orts, from the cows' manger, into the manure, of years has this radiation of force gone on; and unless it is run through a cutting-machine. now stored up force lies quiescent in corn-fields of vast extent, once all pure sunlight hurrying my manure more than one hundred per cent. in through the silent air, passing into primeval for quantity, and I believe more than twenty-five per

to rye—so at the South and West many contend ests, before man was made, and now lying black, zing activity at the bidding of human skill. From In 1826 or 1827, being in the north-western light the corn-fields came, to light return. From part of Maine, I brought home winter wheat, and light came the prairies and meadow lands, the the next year sowed it in my garden, to test the heathery moors, the reedy swamps, the solemn correctness of this notion, not that I believed it, forests and the smiling corn-fields, orchards, garbut to convince my neighbors of the error. I dens-all are air-woven children of light." Yet, continued to sow that from year to year for many after all, it is but an amplification of Stevenson's years, and nearly every year since have sowed well-known reply to Buckland, on the power that

For the New England Farmer

ON THE USE OF FRESH MANURE.

MR. EDITOR: -I saw a piece in the Farmer be of stray kernels in the ground. There being no chess here, rye is the only chance seed to supply the place of the killed wheat. My father used use of fresh manure." He thinks that manure to raise barley and sell considerable quantities made and kept in a barn cellar is not as good as for seed, because he kept his grain clean and free that thrown outside, where it receives the rains, from oats, and he was never troubled with its snow, frost, &c. He says, "I believe it is good policy to have our yards for manure outside the He used to sow some barley mixed with wheat, barn, where swine can have free access to them

Now I wish to give you some of my experience first of Sept. I make from them, by the middle of November, from twenty five to thirty loads of manure, which I cart out and put it in a heap where I intend planting the coming year, and cover it up well with loam. I then put in thirtyfive to forty loads of loam for the winter; I put In Lewes' "Seaside Studies," is the onlowing my loam under the barn floor, except eight or ten fine passage: "And now, reader, as you ramble loads under the stable. I make a pen for my through the corn-fields, and see the shadows run- shoats under the bay, where I keep six through ning over them, remember that every wandering the winter. The horse manure is thrown into cloud which floats in the blue deep retards the the pig-pen, and every few days a little loam, and vital activity of every plant on which its shadows in this way I make thirty loads first-rate manure. fall. Look on all flowers, fruits and leaves, as The middle of the cellar being the lowest, the air-woven children of the light. Learn to look at water from the cow stable settles between the the sun with other eyes, and not to think of it as loam and manure, and is absorbed by the loam remote in space, but nearly and momentarily con- and thrown upon the manure heap once or twice nected with us and all living things. Astronomy a week through the winter. In this way, I save may measure the mighty distance which separ- all the water and mix it well with the manure, ates us from that blazing pivot of life; but biology throws a luminous arch which spans those ground. It is not uncommon to have the mamillions upon millions of miles, and brings us nure so saturated with the urine that it will drip and the sun together. Far away blazes that great from the cart, which I think is much better for centre of force, from which issues the mystic in- the land than to be filled with the water from the

cent. in value, to every load, as you will see, by and another portion of it into manure, for that is the increase of my crops. Previous to having the natural result of the chemical change profifty to seventy-five bushels per acre. I bought feeding. Good pasture will produce an abundance \$100 worth of hay a year, but since I have had of milk, often as much as the cow can carry: but the cellar I have kept more stock and had several does it follow that even then it will not be prof-R. Haynes. Barre, Mass., Dec. 11, 1858.

should expect from such an operation.

KING AND QUEEN.

BY L. B. ADAMS.

I am a king in my own domain, And my little wife is queen, And jointly over our realm we reign, A royal couple, I ween.

Beauty and grace are the robes that flow From her Illy shoulders down, The gems of truth on her bosom glow, And love is her golden crown.

But her dainty hands are brown with toil-Her cheeks with the breezes kiss, And she works for a tiller of the soil As if toil for him were bliss.

I am the king and the tiller too, My farm is my proud domain. And the will to dare and the strength to do Are the scepters of my reign.

At my touch the teeming carth yields up Her wealth for my feast and store, The nectar of health brims high my cup, My measure of bliss runs o'er.

O, ne'er was a happier realm, I ween Than ours, 'neath the arching sky, And never a happier king and queen Than my little wife and I .- Michigan Farmer.

HOW TO INCREASE THE VALUE OF A COW.

glance that it would be profitable to increase the (not more, as printed) of the grasses, except June value of her, but every one cannot tell how to grass or white-top. Land that has thus been redo it. We can, and we think that we can make duced will keep sheep better than any other it equally palpable to our readers. If a cow is stock." This is claimed by the writer in questions. kept for butter, it certainly would add to her val-tion, and also, that sheep will give such pastures ue if the butter-making properties of her milk a smoother appearance, by eradicating the wild should be improved. In summer or winter this plants, so that good grasses may take their place. can be improved just as the yield of a cultivated Whether white clover would come in, if continucrop can be improved by what is fed to each, and ally cropped by sheep, I have my doubts, and it is simply a question of will it pay, in manuring agree with Mr. W. that a good pasture, producthe one or feeding the other. Indian corn will ing clover, red-top and timothy, would, if fed by add to the quantity and quality of the butter to sheep alone for fifteen or twenty years. give, in a very sensible degree, and it is simply a questithe end, very little clover or timothy. The same tion of easy solution, by experiment, whether it would be true if fed constantly and closely by will add to the profit of the butter-maker to buy horses and cattle. corn at one or two cents a pound, and convert a portion of it into butter at twenty-five cents a depend "on the character of the pasturage, and pound, or whatever the market price of corn and the proportion of the same fitted and desirable

my cellar, I raised from thirty to forty bushels duced in the laboratory of the cow's stomach. of corn to the acre, and since, I have raised from The same result will follow any other kind of tons of hay left, notwithstanding I have turned itable to feed her with some more oleaginous food out four acres of mowing to pasturing. I have not to increase the quantity of butter just as it someonly got my mowing in good condition, but I times proves profitable to feed bees to enable plowed last spring four acres of an old pasture them to store more honey. It certainly does apthat produced but very little feed, manured it pear to us that the value of a cow, feeding upon well, and raised fifty-five bushels corn to the acre. ordinary winter food, may be almost double by making that food suitable for the purpose of increasing the quantity of milk, if that is the pur-REMARKS .- Isn't that a practical report from pose for which the cow is kept. Farmers genera practical man? It is such a report as we ally understand that they can convert corn into beef, pork and lard, and some of them know exactly at what price per bushel it will pay to convert it into these substances: but does any one know at what rate it will pay to convert corn or any other grain into butter, or any other kind of feed into the dairy products? Is the whole business a hap-hazard one? We fear so. Some persons know that they can increase the saleable value of butter by adding the coloring matter of carrots to it. Does any person know the value of a bushel of carrots fed to a cow to increase her value as a butter-producing laboratory? Experimental proof upon this point would be far more worthy of agricultural prizes than it is to see who can show the largest sized roots; for by a few carefully conducted experiments we should be able to increase the value of a cow almost at pleasure.—N. Y. Tribune.

For the New England Farmer.

"VALUE OF SHEEP TO THE FARMER."

A selection entitled as above, (monthly Farmer, Sept, '58, p. 399,) has called forth some "Hints on Keeping Sheep," (Farmer for Nov., p. 499,) from J. WHITNEY, of East Sullivan, N. II. His communication contains many ideas of value, but seems to me not in all respects applicable to the text upon which he comments. There can be no doubt, as Mr. W. says, that "sheep are profitable to the former who has a broken and uneven farm, and his pastures have been suffered to grow up to bushes, or where the soil has become exhaust-Every one who owns a cow can see at a ed by excessive feeding, and will produce none

butter may be, and another portion of it into fat, for tillage," if one would keep sheep "without in-

jury to the farm for other purposes." So says the first writer. On a fully improved farm, there Mr. J. feeling concerned for her safety, consulted ought to be little rubbish to consume. But we those who are reported to be skilful in treating must take into account also, the value of the ma- the diseases of animals, but no one could tell nure furnished, as well as the food consumednor forget that a starved sheep is no more prof- ail; others thought she had been hurt on the itable than any other half-fed animal. His state-head or neck, or both, but there was no external ment may be considered entirely true only under sign of bodily injury. Mr. J. employed every and that sheep may be more profitable than ad- of, with but little relief to the cow. In short, he ditional neat stock in other cases, while it may spared no pains to cure her. be entirely false in regard to some farms and cir- This case is considered to be so singular that cumstances.

policy in the world to keep them entirely "on their remedies, if any such be known. But to rubbish left by other animals." As Mr. W. says, dissolve a tumor on the brain of a living animal "they may survive, but not flourish, without ex- is probably beyond the power of the healing art. tra feed." I would rather feed my sheep first, Had the disease been known on its first appearand give what they refuse to other animals, than ance, it would have been an act of mercy to kill to pursue the contrary course. "Attention to her, for she must have suffered for nearly two their wants, the eye and thought of the owner," months a degree of acute pain which would, in alone can make sheep profitable. "Division of the flock (according to age and condition) good the flock (according to age and condition) good.

In consideration of the loss, trouble and sickshelter, with (bean and oat) straw and a little ness of Mr. J., his neighbors have promptly made grain, will bring them to spring pastures in bet-him a liberal donation, for which he feels exceedter order, than if kept together, with double ra- ly grateful. tions of hay, one-half of which is wanted by the stronger animals, while the weak of the flock pick up but a scanty living, and oftentimes fail in that, before winter comes to an end."

I have taken up this subject, more because it is one that needs "stirring up," among us, and to commend to every one Mr. Whitney's closing and convenient dwellings, adorned with shrubs present views, hereafter, in their proper season.

Royalton, N. Y., 1858. J. H. B.

For the New England Farmer.

A TUMOR ON A COW'S BRAIN.

A very valuable cow belonging to Mr. Nathaniel Johnson, of Sturbridge, was killed recently, to put an end to her sufferings, and on opening chickens live, and prevents swine from rooting her head there was found a hard tumor on the brain, but no disease in any other part. It appeared that the vitiated humors of the animal had settled on the brain, forming a hard excrescence, which must have caused the intense pain that gave rise to the singular symptoms of disease which were perceptible for some six or eight weeks. When first taken, she would turn her head towards one side, and sometimes turn her family to the county fair. jaws slightly upwards, continuing in this position, at times, for several minutes. To use the common phrase, she acted strangely. When the flesh wasted away till she became mere skin and boncs, yet, the night before she was killed, she burst open the barn-door, (requiring surprising strength in one so poor and sick) and was found lying on the ground in the morning. The latter leaked badly. He applied it, and the leak except what was put into her mouth by means of composition, and have recommended it for chima bottle and the hand. Her tongue seemed to be paralyzed, and she could not suck in water. cure for a leak."

As the difficulty gradually increased in severity, what the matter was; some pronounced it hornpeculiar circumstances, partly true under others, kind of rational treatment he could think or hear

Mr. J. is desirous of having it published in the In wintering sheep, it would be the poorest Farmer, to elicit statements of similar cases, with

Sturbridge, Mass., Dec., 1858.

PROGRESSIVE AGRICULTURE.

remarks, than in any spirit of controversy or and flowers, and beautiful within with the smiles fault-finding with his article. There are other of happy wives, tidy children in the lap of points in regard to sheep-culture on which I may thoughtful age-broad hearts, and acts as well as words of welcome. Progressive agriculture builds barns and puts gutters on them, builds stables for cattle and raises roots to feed them. It grafts wild apple trees by the meadow with pippins or greenings,-it sets out new orchards and takes care of the old ones.

> It drains low lands, cuts down bushes, buys a mower, houses tools and wagons, keeps good fences and practices soiling. It makes hens lay, up meadows. Progressive agriculture keeps on hand plenty of dry fuel, and brings in the ovenwood for the women. It plows deeply, sows plentifully, harrows evenly, and prays for the blessings of Heaven. Finally, it subscribes for good religious, agricultural and family journals, and pays for them in advance, advocates free schools, and always takes something besides the

Leaks Simply Stopped.—The Lynn News spasms were not on, she would eat, chew her cud says :- "Some years ago I had a leaking 'L.' and give milk as usual, but would occasionally Every northeast storm drove its waters in. I push with her head against one side of the sta- made a composition of four pounds of resin, one ble, knocking off the boards; and although her pint linseed oil, and one ounce red lead, applied part of the time she could neither eat nor drink, stopped. I made my water-cask tight by this

COCKED FOOD FOR FATTENING CATTLE.

experimenting in feeding several lots of hogs, earlier and more favorable season for feeding tochanging them from raw to cooked and from gether with other incidental matters not enucooked to raw food, ground and unground. Valley Farmer furnishes us with the following results:

pork on dry corn, one bushel gave, in one in- the primitive methods employed in the East in a stance, a gain of five pounds and ten ounces. single kettle, or Mott's agricultural boiler. These In changing the food, on the same animals, to are adapted only to small operations, and, of boiled corn, one bushel produced a gain of four-course, to depend on them, would incur consider-teen pounds and seven ounces, and a bushel of able cost for labor, fuel, &c. But we should not corn ground and cooked, gave a gain of sixteen forget that this is a progressive age, and the inpounds and seven ounces; while in another in-ventive powers of our countrymen are adequate stance, after a change from dry corn to cooked to any emergency of the times, or demands of meal, the gain upon one bushel was but a fracthe age. Every one who is acquainted with distion short of eighteen pounds.

of about three pounds, when the animals were of these establishments, in a single day; and if fed on cooked food, to a gain of one pound when the same quantity was only to be prepared as fed on dry corn. Or, to reduce the comparative food for swine, with boilers constructed alone for cost of the gain per pound, estimating the corn that purpose, the same work could be performed at 28 cents per bushel, the following are the re- with greater facility, and less labor. To provide sults: When the hogs were fed on dry corn, the a boiler and steam-vat of a capacity suited to average gain cost a fraction over 42 cents per extensive feeding, with the necessary fixtures, pound. The same animals, when fed on cooked would cost several hundred, or perhaps a thousmeal, the gain cost a fraction over 1½ cents a and dollars, but like many other branches of pound, or when fed on cooked corn, unground, business, we are convinced that the larger the the gain cost 1 cent and 9 mills per pound, leavestablishment, the more profitably it may be coning but four mills, or less than half a cent, per ducted, and that, not only may the cost of the pound in favor of cooked unground, or allowing fixtures soon be saved, but a large per centage but four mills per pound for grinding, exclusive of the corn usually fed. of the greater time required to cook whole corn, We are perfectly satisfied from our own reover that which is ground. But to come to the peated experiments, which have been fully suspoint more definitely, we will reduce the price of tained by those conducted by others, that with a the corn to 25 cents per bushel, (which is as low suitable establishment of capacity adapted to as may now ever be expected, except, perhaps, the end in view, a great saving may be secured in some remote quarter,) and reduce the gain by this method of preparing food for swine, and from two-thirds to one-half, for the difference be- we believe with scarcely less profit for beef cat-

suitable feeding arrangements, one man can cook fed in the ordinary way. ling, and his feed-troughs so arranged that the tle and horses it should always be given in comslop will flow into them in the same manner, without handling. But if corn is cooked without shelling or grinding, two men would be required to manage the same quantity. In the first instance, then, there would be a saving of 50 bushels of corn, which, at 25 cents per bushel, Transactions of the Wordester Agricultural Society for the Year 1858. is \$12,50, to be offset by the labor of one man, one day, which, at \$1,25 per day, leaves a profit of \$11,25 in favor of cooking. But, if the corn be cooked whole, and requires to be fed out by been for forty years to look to the heert of the day, there will still be a gain of \$10.

to one-half, avoiding the risk of accidents to animals on the time gained, the care and attend-Mr. Samuel H. Clay, of Kentucky, has been ance in feeding, the advantages of weather in the The merated.

The conclusions, which are generally arrived at, are predicated upon the idea that prevails in Mr. Clay's experiments show, that to make regard to the cost of cooking food, according to tilling, knows that many hundred of bushels of These experiments, then, show an average gain corn go through the destructive process, in one

tween cooked and uncooked food, which will be tle. We wish some philanthropic, enterprising equal to twelve and a half cents on each bushel farmer would take the matter in hand, and make of corn fed out, and see how the question will an experiment on a dozen or more bullocks, through a full course of fattening on steamed With a properly constructed apparatus and food, both grain and hay, with an equal number

and feed out 100 bushels of meal in a day. To If grain is not to be cooked, we still contend, do this, his meal must be placed in bins so as to as we ever have, that it should be well ground, be conducted into the steam-vat without hand- whether fed to hogs, cattle or horses, and to cat-

> For the New England Farmer. WORCESTER COUNTY.

By the kindness of a friend, I have the favor nand, allowing two hands, at the same cost per Commonwealth for instruction in agriculture. I always glance my eye over the pages of their But to simplify the question still further: Is Transactions with deep interest. The present it not cheaper to cook 100 bushels of corn than it is to raise 50 bushels? But besides a saving of one-half of the corn, by the process of cooksing there are a saving of contains much that is instructive and interesting. Several reports are elaborate and of one-half of the corn, by the process of cooksing there are a saving the contains a sensible, particularly on Milch Cows and Worksing there are a saving the contains a sensible of the corn, by the process of cooksing there are a saving the contains ing, there are numerous other advantages to be ing Cattle—objects for which the county has taken into account. The same weight is attained, according to the covariance of the according to the experiment above quoted, in cows exhibited at the show was much less than I one-third of the time, or we will reduce this also ahould have expected. There was awarded for

cows, \$46; oxen and steers, \$108; horses, \$285. Well might as well expect the body to grow and What could have induced the discerning farmers flourish without its vitalizing breath; theory and of Worcester to apply so large a portion of their funds to the horse, is beyond my power to conjecture. I admire a good horse, but I can see no practice is quite thorough before we pause to reason why he should be entitled to a larger theorize much. That proper schools for instrucaward than a fine pair of working oxen, or a fine tion will afford the young farmer important aid herd of mileh cows. This horse mania is running away with our judgments and our money also. I am sorry that it is spreading so wide and so deep among the substantial yeomanry of Massachusetts. It should be corrected.

December 13, 1858.

SPIRIT OF THE AGRICULTURAL PRESS.

LONG WHITE FRENCH TURNIP .-- A writer in the Germantown Telegraph has given this turnip a fair trial, and concludes that the common yellow ruta-baga is far preferable to grow, either for stock or for culinary purposes.

in the Telegraph states that he has long been in these do better on the same pasture or quantity the practice of hauling out manure early in the of food; some feed faster and more constantly, spring for corn, directly from the barn-yard, and and these are apt to be the best milkers. * * * in its unfermented state, and plowing it under There appears to be as much diversity among deeply and thoroughly. He calls ten inches deep cattle in these particulars as among men and plowing. He says -"I have tried hauling out and women who may daily sit together around the spreading manure in the fall for corn; but if I same table. No error can be greater than that can trust my own observation, never with the of believing a cow can give rich milk upon poor, beneficial results as to the crop or to the land lean, spare diet. There must be in the food that which were obtained by the former practice." It which will supply the materials of which milk is is his opinion that decomposed manure placed composed, or else it must be impossible for the near the surface will give an early growth to corn cow to produce it. The better the food, the betby its more immediate action, but that unfermenter and the richer the milk." ted manure properly plowed under, will finish a crop with a heavier yield, and leave the land in It is just as impossible to get large quantities of higher fertility, than the former method.

settled by numerous well-attested experiments in a pig's tail." in various localities.

sey Farmer, published at Trenton, in introducing Rock, N. Y., writes as follows to Mr. Wentto its readers a recent letter of Gov. Wright, of worth, of Chicago :- "I hope your Illinois people Indiana, describing an agricultural school in Ger- will appreciate the magnificent South Downs you many, says-"Every profession has its school- have introduced among them. It is the only why agriculture should be left to glean its learn-kind of mutton for a good table. ing as best it may, we cannot understand. If and three-quarter sheep revolutionize the article schools are necessary to train the clergyman, the altogether in quality and flavor. I speak from lawyer, the doctor, the merchant and the artist, years of trial. A really good saddle of mutton is it not eminently proper that agriculture, which is scarcely excelled by any other meat." depends so entirely for its complete success upon a knowledge of the natural sciences, should also Waltham Scatinel gives an account of the apple have its schools?"

talk about managing a farm well theoretically. of barrels of winter apples is put down at tweetle

practice must go together, and it is well if the in the pursuit of his business, will not admit of a doubt, it seems to us, in any unprejudiced mind. What such schools shall embrace, and how they shall be managed, are questions not yet settled among us.

Cows for Milk. - Mr. C. N. Bement, in speaking of Devonshire cows, in Emery's Journal of Agriculture and Prairie Farmer, published at Chicago, says, incidentally, that he "has found great difference existing in all breeds of cattle; some cows run to fat and are spare milkers; the lean and well-formed are apt to be good ones. FALL MANURING FOR CORN.—Another writer Some digest their food better than others, and

That is the true doctrine, plainly expressed. rich milk from a cow that is meanly fed, upon in-This is an important matter, and ought to be nutritious food, as to "make a good whistle from

SOUTH DEVON SHEEP .- Col. L. F. ALLEN, AGRICULTURAL EDUCATION .- The New Jer- editor of the American Herd Book, of Black

THE APPLE CROP IN WALTHAM, MASS.—The crop in that town this season, but only speaks of Certainly it is, and it passes our comprehen-winter apples of the first and second quality. The sion to know why, among farmers themselves, cider apples and others not marketable must consuch prejudices exist against everything that is to siderably swell the amount. The name of the qualify the young farmer for his profession, ex-person, and quantity raised by each, is given. cept the mere act of his working upon the land We find that one person had 850 barrels, and with his own hands. It is breath spent in vain to two others 700 and upwards. The total number has been \$2,00 making the round sum of \$24,000, was answered by his mate; then rising with him, for this town, for one item of agricultural products in a single season.

The population of Waltham is, to a considerable extent, engaged in manufactures of one kind or another; yet we doubt whether, among them all, any investment of capital of an equal dent for the brief and graphic descriptions which amount has produced results so favorable as the he has occasionally sent us of our native birds, investment in the apple trees.

For the New England Farmer.

GOLDEN EAGLE.

ACUILA CHRYSAEOTOS

The most hilly and mountainous parts of the country are chosen by this bird for his residence, particularly where there are over-hanging precipices; there, in the dizzy height, on some bold rock, he takes his stand, motionless and erect, with his stern, penetrating eye glancing over the boundless expanse of forests and fields; upon such high precipices, or on some blighted tree of the wooded-mountain, a pair of these birds will sit for hours, and not unfrequently the whole day, especially when they have gorged themselves with food. After such times of inactivity, they will launch into the air, and rise in a spiral flight above these stupendous heights, until they appear like mere speeks, or are wholly lost to sight; having attained to the desired height, they sail in an obliquely downward course with the velocity of the wind, until within one or two hundred feet of the earth, when they again change their mode of flight and sweep in circles over hills and valleys in search of food.

These eagles usually hunt in pairs. There is a peculiarity in their mode of hunting which is not resorted to by other birds of prey. Like the lion, who lies in ambush for his coming victim, bed of other animals, writing for their appearance. I once saw a pair hunting in company, and while sailing over a hill, one of them, on discovering a burrow of the common grey rabbit, immediately suspended himself in the air without the least his wings, which he kept widely extended, and on which he floated with the same ease that he not cut. The part where the stalks were cut was would rest upon his perch; in this position he not injured, while that part of the field where remained a great length of time until the animal, the stalks were not cut, was laid almost as flat as unconscious of any harm, ventured from his though it had been rolled down. I think the loss cover; at first, but a part of him appeared; the on the part blown down, of good sound corn, was eagle, still poised, would stretch down his claws, at least ten per cent. then draw them up again, still floating silently; the animal now hopped quite out of his hole, stood upon his hind legs, scanning every object with his large eyes, and moving in every directive the wind, if for nothing else.

Hollis, Oct. 13, 1858.

E. EMERSON. tion his large ears, to detect an enemy if one was around him; at last, feeling assured, none lurked about him, he hopped again which brought him blood oozed through his soft fur, was soon lished at No. 55 Salem Street, Boston, Mass.

thousand, the average wholesale price of which drowned by the eagle's scream of success which still struggling in his grasp, he carried him to some convenient place, where both he and his mate might devour him at their leisure.

Danvers, Mass., Dec. 1, 1858. A. FOWLER.

Remarks.—We are obliged to our corresponand hope he will find leisure and inclination to continue them. We wish we could lay before all lovers of natural history the splendid paintings of birds, their nests and eggs, which have been produced by his own hands, scarcely equalled, in our opinion, by any thing yet done by the most accomplished artists of this or the old countries.

CHARITIES THAT SWEETEN LIFE.

"It is not much the world can give, With all its subtle art, And gold and gems are not the things To satisfy the heart. But O, if those who cluster round The altur and the hearth, Have gentle words and loving smiles, How beautiful is earth!"

For the New England Farmer.

CUTTING CORN STALKS.

Your correspondent "Essex," recently, after a quotation in favor of leaving the stalks on the corn, asks the question, "Has there been any well conducted experiments to determine the fact?" I do not know what he would consider a wellconducted experiment. I have tried it several times. I cut the stalks on eight rows through the field as soon as the tassel was dry, and the next eight rows I left with the stalks on. gathered each separately, and husked it out. In so he hovers over the form of the hare, or the both cases I he l the most good sound cornboth by measure and weight-on the rows where the stalks were cut, and the most soft corn on the rows that were not cut!

This year I had one field of about four acres of corn. I had cut the stalks on about one acre perceivable motion of his body or vibration of before the storm which beat the corn down so

Hollis, Oct. 13, 1858.

SCHOOL OF VETERINARY MEDICINE AND SURto full view, and farther from his burrow. Hark! GERY. GEORGE H. DADD, Principal.-This school Whush-ush-ush, down from his height, like the was established in Boston, in 1849, and is atwhizzing sound of a rocket, shot the eagle upon tracting more and more of the public attention, the unwary victim, pressing him down with his strong feet and driving his talons deep in his quivering flesh. The scream of despair, as the ets for a course are \$100. The school is estabFor the New England Farmer.

SYSTEM IN FARM MANAGEMENT.

Messes. Editors:—Order is a necessary element in the success of every man, but with no large experience in underdraining, including layclass is its strict observance more requisite than with the farmer. The profits of farming, like other business, depend almost entirely upon the scriptions they do with great accuracy and facilisystem that is pursued, and the order maintained. ty, and also prepare plans for the Patent Office. No business will ordinarily prosper under bad management. If a merchant persist, for any length of time, in a poor system of management, he is almost sure of a failure. If a mechanic pursues the business of his trade without taking wasted every year, which might be saved, or bet-the care necessary to perform every thing in a ter directed. This is true of all kinds of busisystematic manner, success will never crown his ness, and not the least in farming. For instance: conclude that his business will not be a paying bor and do the work cheaper and better, they will one, however prosperous it might be under good have nothing to do with. Improved varieties of management. But as I have said before, with no seed, they hold to be, almost without exception, class of persons is the strict observance of sys- humbugs. Draining and subsoil plowing are tem more requisite than with the farmer. If he ranked in the same catalogue: they are labor be an idle and shiftless man, or if he does every lost; but manuring cold, wet lands, and plowing thing in a wrong time and in an improper man-ner, if he allows his buildings to go without the re-pairs necessary, and decay for want of a few dol-Rotation of crops, and manuring lands with reflars expended by way of repairs, if his walls are erence to the grains or roots to be grown on left to tumble down and his fences are neglected them, they consider something like book-farmuntil his cattle easily gain access to and destroy ing-a very dangerous thing ! his crops, or if he suffers the weeds to overrun his farm, and in this allows his soils to be ex-think for themselves, and be able to give a satishausted without himself receiving any remuner-tion for the same, or if he pursues the skinning system, and suffers his farm to deteriorate, he deavor to improve in all farming operations, to will undoubtedly have to complain that farming learn the very best way of doing everything, and is a dull and profitless business. But if he has then do it so. It is told of a certain backwood's a system about all his labor, seeing that it is farmer, who had not yet found time to clear the done when required, and in an unexceptionable stumps from his fields, that his boys complained manner, you will find him undoubtedly an intel-bitterly of their troubles in plowing and harrowligent, successful, prosperous and happy man.

operations of the year from the beginning; his among the stumps, and needing to be set right calculations are made before hand; hence he can side up at every few rods. "Boys!" said the entake advantage of the labor to be performed; he raged farmer, one day, "take that harrow over to can tell you how much labor it will be necessary the blacksmith, and tell him to make all the teeth

from raising the same. be wasted by allowing his cattle to roam about the go along." "But, father, it has upset again, as street, and leave the very main-spring of the farm bad as before." "Never mind, boy; go right to waste its strength without receiving any benefit ahead; it will work well either side up. See, from it,—but on the contrary, he will conduct now, what comes from a little thinking!" And his business with direct reference to the manure-sure enough, it did work, and the field was harmaking advantages connected therewith, and his rowed in spite of the stumps. We might have compost heap will compose a prominent place selected a more dignified example of the use of among his farming operations.

Lebanon, Ct., 1858. H. G. PALMER.

son, Iron Buildings 42 Court Street, Boston. - siveness; they would like to underdrain more These gentlemen are well qualified to discharge extensively, and to subsoil plow their lands, if the various duties of their profession, and are these things did not cost more time, labor and prompt in their execution. They are ready to attend to the laying out and to superintend the construction of railroads, common roads, bridges, any such plan. Yet such a system may bring the wherees, &c., or to the designing and laying out farmer three-fold greater and better crops. Nor

cemeteries, and grounds for country residences. They also make surveys and maps of farms, house-lots and land in any form. They have had ing out and constructing. Drafting of all de-

HEADWORK IN FARMING.

It is surprising how much muscular labor is efforts, and in fact, in whatever business a man how many farmers toil on, year after year, with may be engaged, unless he is governed by some scanty or imperfect implements of husbandry. system in the labor he performs, he may as well The modern improvements, which save much la-

We never could see why farmers should not gent, successful, prosperous and happy man.

A systematic farmer will look through all the them by its frequent overturnings while plunging for him to expend in order to raise and secure a twice their present length, and sharp at both crop, and the probable advantages to be derived ends, and we'll see what that'll do!" The thing was done: the teeth now pointed both ways, like No systematic farmer will allow his manure to those of a revolving rake. "Gee up, Bill; now head-work, but this homely story will answer our purpose.

In the matter of rotation of crops, there is need CIVIL ENGINEERING, by Messrs. SHEDD & ED-neglect to manure largely, because of its expenof forethought and management. Some farmers in devising such a plan, has he got to depend en- country, for years, steadily opposed the introductively on his own experience or sugacity. Books tion of farm machinery of all sorts, notwithstandand agricultural journals are at hand, containing ing their wages and their comforts were as steadthe results of other men's experience, and all he ily increasing.

Now that a long experience has proved that wants of his own case. A very little head-work all this croaking about the injury done to the laof this sort would pay well. It would pay in clean borer and the small proprietor, by machinery, is cultivation. Chess, red-root, quack-grass, Canada thistles, butter-cups, daisies, and what not, would hide their heads; and grubs, wire-worms, and all manner of insects, would rapidly diminish, tion of steam to agriculture. Why does he not if not wholly disappear. It would pay in the in- object to its use in driving the printing press, in more bountiful crops.—Am. Agriculturist.

For the New England Farmer.

"AGRICULTURAL PROGRESS."

MR. EDITOR: -Where can your correspondent have been the last fifty years—asleep with Dr. Franklin's fly? I should suppose he had just bly cultivate the earth by steam, it must be where waked out of a half-century nap, from the arguments he uses against the application of steam to agriculture. They are precisely the same arguof cotton and wool, and subsequently, to the application of steam to locomotion.

It was said, "people would be collected into steam to the moving of rail-cars, it was said that "stage-coaches and baggage wagons were to be to give up the raising of them, and that the tendency of the use of steam was to lower the rate of wages." But have the results confirmed the forebodings of the fogies of those days? Have our daughters lost their innocence in the cotton mills, and become slaves to their proprietors? Have the spinners and weavers in the family found any want of employment? Has the rate of wages been reduced? The truth is, there are more horses employed in transporting passengers did before the iron horse was invented.

The population of Massachusetts has more than doubled in forty years, and yet the rate of not be a paying operation, but as the land was wages has more than doubled in that time. So nearly worthless, as it was, I resolved to underwages has more than doubted in this state, and the state of the state ployment, they have imported thousands of male and female laborers, and pay them, especially females, more than twice as much as they did forty years ago, and the comforts and conveniences of to one foot of the surface; upon these stones,

in at least an equal ratio.

encounter the same objections. The first saw- yard. mill erected in England was burned down, because, it was said, it would deprive the hand-saw-drained contained a little less than four acres. yers of employment. The farm-laborers in that Last year it was mowed, and produced but two

creased and prolonged fertility of the land, and and in manufacturing paper? It would take twenty men to turn the cranks of the presses that are moved by one small engine. Twenty families are thus deprived of bread! The gentleman need not borrow trouble lest the hills and valleys of New England should be swept of their varied beauty, and reduced to broad levels, for the manufacture of corn and potatoes by steam.

If capitalists, associated or single, can profitathe surface is adapted to such culture. succeed on such portions of the earth's surface, why, let it. I have only to say, "God speed the use of steam and water power in the manufacture plow," whether moved by the power of steam or and food for the laborer and his family will be cheaper. If steam can be made to work the soil, and gather the crops, and turn the mills and the manufacturing villages, and become slaves to presses on the broad plantations of the South, the loom-lords. Our daughters, not finding emmore economically than negro power, why, I say ployment at home, would assemble in these vine ges, and would lose their health and innocence. That those who now live by spinning and weaver that those who now live by spinning and weaver that those who now live by spinning and weaver that those who now live by spinning and weaver that those who now live by spinning and weaver that the spinning and weaver the spinning are spinning as the spinning and weaver the spinning are spinning as the spinning are spinning as the spinning as the spinning are spinning as the spinning are spinning as the spinning as the spinning are spinning as the spinning as the spinning as the spinning are spinning as the spinning are spinning as the spinning as the spinning are spinning as the spinning as the spinning are spinning as the s ployment at home, would assemble in these villages, and would lose their health and innocence. plow; and who knows, Mr. Editor, but this is to plow; and who knows, Mr. Editor, but this is to plow; and who knows, Mr. Editor, but this is to plow; and who knows, Mr. Editor, but this is to plow; and who knows, Mr. Editor, but this is to plow; and who knows, Mr. Editor, but this is to not some Yankee capitalists fire it up on the pampas of Texas, and raise sugar at a cheaper rate than it can be done by human muscles? thrown out of business, and there would be no demand for horses, and the farmers would have steam? Seriously I think the sugar growers of steam? Seriously, I think the sugar-growers of Louisiana have quite as much to apprehend from the steam plow, as have the small farmers of STEAMER. New England.

Dec. 18, 1858.

For the New England Farmer.

UNDERDRAINING --- "IT WILL PAY!"

MR. EDITOR:-Last fall I wrote you under and freight to and from the railroads, than were the title, "Underdraining-will it pay?"-that I formerly employed in running stage coaches and intended to underdrain a piece of wet, cold, unbaggage wagons, and horses are worth much productive land, and asked your advice in the In the, and pay much better for raising, than they matter. It was kindly given, for which I would return many thanks.

At that time I had a presentiment that it would life enjoyed by the laboring classes have increased shavings or evergreen boughs were placed, to prevent the dirt from filling the interstices, then Almost every labor-saving machine has had to covered with dirt, reserving the sod for the barn-

The result, I will briefly state. The piece

loads of poor, sour hay and brakes, hardly worth new paper with the above title, published at Mancutting, but it was an average crop for the land. chester, N. H., by Messrs. GILMORE & MARTIN. This spring the land was dry, and we were ena- It is issued weekly, in folio form, the agricultubled to work it early in the season. We plowed under about twenty-five ox-cart loads of barn- ral department edited by E. Breed, and the edyard manure to the acre, and planted with corn ucational and miscellaneous by Moses A. Cartthe 15th day of May. The ground was dry and LANDS. We have looked over the two numbers in good condition for receiving the seed, while published with some care, and find them filled many pieces considered "dry land" were much too wet. The corn was planted three and a half feet apart each way, hoed twice, and received a top-dressing of plaster and ashes. It was cut ability, industry and energy, and if their efforts up the 10th and 11th of September, when it was are encouraged, the Journal of Agriculture will found ripe and sound. We husked from the piece 440 bushels of ears, all merchantable corn.

My neighbors concur with me in opinion that this crop is worth more than the aggregate crops that the land has produced for the last fifteen years. It is now in a condition to produce abundantly for a series of years without any extra outlay. This crop has paid me the whole ex- of agricultural knowledge, that the question how pense of underdraining, and I am so well pleased many seeds there are in the pound of our comwith the experiment, that I have had a number monly cultivated field plants, should still remain of ditches dug upon another piece adjoining, and to be answered. It is plain that the answer will intend to use drain tile instead of stone. The not necessarily affect farm practice—for the quantile drain is change and for what is the standard of the sta tile drain is cheaper, and from what information I can obtain, I think it much more durable.

Drain tile of a superior quality are now manufactured by Lucius G. Spencer, of this town, and sold at Albany prices. The farmers of Windsor county are waking up on the subject. I am informed of one man who intends to lay four hundred rous from the first kiln.

JAMES R. WALKER.

Springfield, Vt., Nov. 5, 1858.

THE REASON WHY.

t was a perplexing and infelicitous circumstance which happened to discomfort and discomfit the good housewife, who had fattened a fine young turkey for her husband's delectation, boiled, as was his "weakness," with the accompaniment of a savory sauce. Two or three days before his death, (the turkey's,) a box of household pills fell by accident into the yard, where the bird performed his daily perambula-tions and gobbling. He picked up the kernels of anti-bilious corn and survived their effects until his decease, when he was committed to the pot 18,000,000 seeds of flax which are commonly as the piece de resistance of a sumptuous dinner. of the 6,000,000 seeds of oats which are some-But he would not boil tender: hour after hour times sown per acre? There is no destructhe hot bubbles burst around him, but all to no tion by the hoe in either instance here. A sinpurpose; the harder and the longer he was boiled, gle ear of oats may contain 100 grains—a single the tougher and more uncarvable he became. At length, however, he was served up, and a doctor, a next door neighbor, who was a guest, was re-this implies, they would produce 100 loads of quested to solve the mystery. "We b'iled that grain. Instead of 600 seeds apiece, they yield quested to solve the mystery." turkey six long hours, doctor, by the clock," said but half a dozen each to produce an ordinary the down-east hostess, "and yeou see how awfully tough he is neow. Could it be the pills, d'
yeou think, doctor, that I was tellin' you about
his eatin'?" "Undoubtedly, madam," replied the
doctor, "it would not how mode the cliented the
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doctor, "it would not how mode the cliented the client doctor; "it would not have made the slightest dif-ference if you had biled him two days; there was no 'bile' in him, madam!" An explanation equally professional and satisfactory.—Knickerbocker.

NEW HAMPSHIRE JOURNAL OF AGRICULTURE. | square foot of the clover field? -We have before us the second number of a

with useful and substantial articles on a great variety of subjects. The editors seem to have not fail to exert a salutary influence both upon the Soil and the Mind.

A CURIOUS QUESTION.

It is a singular illustration of the inexactness tity of seed which it is proper to sow per acre, is a matter to be determined by experience, not by argument apart from trial; and yet surely it is most desirable to compare the number of the seeds we ordinarily sow with that of the plants we raise. If in ordinary practice, 1,200,000 seeds of wheat are sown on every 40,000 superficial feet, or what is more extraordinary, fifteen to eighteen million seeds are scattered on the same extent, about three to every inch of land, it is surely well to let the farmer know it. He knows very well he does not raise so many plants as this—and struck, as he must be, by the enormous disproportion between the means he uses and the result he gets, he will inquire into its causes.

The turnip seed employed per acre, numbers from 600,000 to 1,000,000, according to the kind and quantity adopted; this, if the rows are two feet apart, is two or three dozen seeds per foot of row, where a single plant alone is to be grown. No doubt nothing like so many generally come up, but then there is a great destruction by the hoe, which will explain much of the discrepancy in this case. What, however, becomes of the plant will generally include half a dozen ears, but if 6,000,000 plants should yield as much as this implies, they would produce 100 loads of proportion is vastly greater than this in the case of other plants. What is the ordinary seeding of the clover crop? Eight pounds of red clover, four of white clover, and four of trefoil may be sown—that is at least 6,000,000 seeds per acre-a seed on every inch of land—but instead of 144 are there generally half a dozen plants on every

There are about 25,000 seeds of sainfoin in a

an ordinary seeding, and they contain 2,000,000 he assumes, and also the wants of the position seeds, or 50 per square foot of land. This is the number, too, of seeds in an ordinary seeding of his State. From the ability manifested in the plants or seed; and these are the two great di-help in the Homes of the Old Dominion. visions under which the causes of this anomaly must be classed: faults of seed and sowing, and faults of cultivation. We are enabled, by the assistance of Messrs. Rendle, of Plymouth, to lay before them the following answers to the question-how many seeds to the pound?

Name.	No. of seeds per lb.	per bush.
w heat	10,500	58 to 64
Barley		48 to 56
Oats	20,000	38 to 42
Rye	23,000	56 to 60
Canary Grass	54,000	
Buckwheat	25,000	48 to 50
Turnip (Rendle's Swede)		50 to 56
Turnip (Cornish Holdfast)		4.4
Turnip (Orange Jelley)		"
Cabbage (Scotch Drumhead).		56
Cabbage (Drumhead Savoy)	117,000	50 to 56
Clover (Red)	249 600	60
Clover (White)		59 to 62
Rye Grass (Perennial)		20 to 28
Rye Grass (Italian)		13 to 18
Sweet Vernal Grass		8
	,	Scotch Paper.

For the New England Farmer.

BEE HIVES.

Mr. Editor:—I have a suggestion to make respecting bee hives on Mr. Quinby's plan. like the leading idea of his plan, but not the application of it. In his hives, the bees are obliged to store all their surplus honey in boxes placed on the top of the hive, and they must climb up through the hive, when heavily laden with honey, to get to the boxes. This must involve an immense amount of labor for them; at any rate, it seems to me that it must be as difficult for them to climb, as it is for a man who is carrying a heavy load, and I think it is rather worse for them to have to store honey on the top of the hive, than it would be for us to have to store the products of our land on the tops of our houses, for they are collecting and storing all the season, whereas we are only a part of it.

Instead of placing boxes on the top, why not have a small hive, or large box, to set by the side of the hive, and when it is full, open a communication between the two, and allow the bees to store their surplus honey in it just as Mr. Quinby has his stored in boxes on the top?

In an article published in the Farmer not long since by "Amicus," he remarks that he has a very simple contrivance to aid the bees in supporting themselves in the hive until they can commence building their comb. Will not "Amicus" please to let the readers of the Farmer know what this contrivance is? Progress.

Leominster, Dec., 1858.

mond, Va., M. S. CROCKETT, Editor and Propri- ganize—to take a stand, and raise their colors etor.—This is a new journal, handsomely printed, to agriculture, news and miscellaneous reading, which he had been working for forty years. Some

pound of "rough" seed, as it is called, and it We like the editor's "Salutatory," as he seems weighs some 20 lbs. per bushel; four bushels is to appreciate the responsibilities of the position vetches. It is manifest that in both these cases articles in this first number, we cannot doubt but there is an enormous destruction either of young the Farmer's Journal will become an important

THE MEADOW LANDS OF THE CON-CORD RIVER VALLEY.

MEETING OF THE PROPRIETORS AT CONCORD.

It is not generally known throughout the State that thousands of acres of meadow land on the Concord river, from Billerica to Framingham, have been flooded by means of a dam at the former place, so as to seriously damage those lands. The law granting the right of the water power at Billerica was such that the proprietors have ever been unable to obtain redress through the courts. Several cases, growing out of this state of things, have been in litigation for years. The amountof land damaged by these overflows is from ten to fifteen thousand acres, all the way up the river as far as Framingham. The mill proprietors brought a suit against the city of Boston for diverting a part of the Concord river from its natural course, and reservoirs were built above from which water was sent down when needed. This usually happens in the having season, and is another great source of damage to the owners of the meadows.

Recently an attempt to unite all the interests upon some plan for redress has been made. A preliminary meeting was held some weeks ago, and a committee was then appointed to consider the matter and report something definite.

A meeting was held December 27th, at the Town Hall, in Concord. About two hundred farmers were present, though this is but a small part of the number interested in the lands. The mill privilege at Billerica is now owned by Mr. Talbot, and he was present, accompanied by his counsel, but took no part in the meeting.

The meeting was called to order at one o'clock by Simon Brown, Esq., of Concord, and, on motion of Samuel H. Rhoades, Esq., of Concord, a committee was appointed to report a list of officers for permanent organization. Simon Brown was chosen President, Col. David Heard, of Wayland, and seven others, Vice-Presidents, and Mr. R. F. Fuller, of Wayland, and Dr. Joseph Reynolds, of Concord, Secretaries.

Mr. Brown opened the question with a clear statement of the position of the proprietors of those meadow lands. He said the first settlers in this town and vicinity had been attracted by its beautiful river and the fine meadows skirting it, which were a yearly source of wealth to the inhabitants. He said they came here to devise some means of obtaining redress. All they wanted was justice, and they came together with the kindliest feelings towards every man. He urged THE VIRGINIA FARMERS' JOURNAL. Rich- those who had an interest in this matter to or-

and nail them to the mast. (Applause.)
Col. David Heard, of Wayland, said he was on fine paper, issued once a week, and is devoted glad to see so many interested in a question in

knew better. He found in an old Assessors' book sation year by year for the annual injury to the land and the of the town of Wayland that that town assessed crops. taxes on 1200 acres of meadow. Some of these lands had come into his possession at the rate of of the meadow proprietors, and he sympathized \$75 an acre. These lands, he said, had been entirely in the spirit of the resolutions, as he prestolen inch by inch, under the law, if it could be sumed every man who owned any of the meadow called law, which had kept them out of their just land would. He believed that the only redress dues. He said he had been entrusted with much to be had was from the General Court. The responsibility in the law suits that had been car- could not award justice unless the law alried on, and he had no doubt but he might have lowed it, and in this case the law-makers had raised a company at any time to have torn down been at fault. The act giving leave to build the the dam, and allowed the owner to sue for dam- canal provided that any one receiving damage ages. But the people had forborne continually thereby should sue within one year and in the through their defeat. He said he was determined Court of Sessions. That court was abolished to continue the suit as long as he had the means, about the time the act was passed, and the Su-Besides this, the Cochituate reservoirs were let preme Court had held that in the above provision loose in haying time, when the water was low, and this did serious damage. In fact, he said, age," which in this case was the building of the they had a dam at both ends, and a curse between dam. Under the present laws no redress could them.

Mr. Brown, the chairman, added a few remarks, in regard to the damage done to lands owned by him. Rich and fertile bottom lands were rendered nearly valueless.

The committee, appointed at a previous meeting, reported the following series of resolutions, upon which remarks were invited:

Whereas, it is believed by many owners of land upon the Concord River and its tributaries, that their lands have been of late much more injured than formerly by inundations caused obstructions, by dams or otherwise, and by retaining the waters in reservoirs and suddenly releasing them in the warm season;

And, whereas, in various other parts of the Commonwealth, as well as in this county, great destruction of crops, and great injury to health, is produced by interference with the natural flow of our streams and rivers, whereby the drainage and cultivation of vast tracks of most valuable lands are prevented;
And, whereas, the maintenance of dams and other obstruc-

agriculture, would be promoted by carefully ascertaining and defining, and by publishing by record or otherwise, the legal height of all dams, or other obstructions, on all our streams and thereto; therefore,

Resolved, That a Committee be raised to investigate and report at a future meeting what dams or other obstructions are maintained on the Concord River or its tributaries, and whether any of said obstructions are illegal, giving such information as may be obtained of the claims, legal and illegal, of mill owners and others who maintain them.

2. That it is expedient that an act of the Legi-lature be passed, to provide for defining and recording the height of all dams and other obstructions on all streams and rivers in the Commonwealth, and of all privileges, limitations and restric

tions incident thereto.
3. That the interests of agriculture require that provision he made by law, so that in proper cases dams and other obstruc-tions to the natural flow of the water may be removed or low-ered, or restricted in their use as to the season of the year or otherwise, upon just compensation to be paid by the parties ben-

offied to those injured by such proceedings.

4. That this meeting are determined fully to investigate the complaints of land-owners on the Concord River and its tributaries, and to persevere by all lawful mears to protect the rights, of land-owners, the health of the community, and the interests of agriculture, against all illegal encroachments of those who control the dayment all the relativistics therefore the community. control the dams and other obstructions thereon; and further, to procure such legislation as may be necessary to relieve our most valuable lands of the curse of a second deluge, whether caused by legal or illegal obstructions.

The following resolution was afterwards added, on motion of Mr. R. F. Fuller, of Wayland:

Whereas, The special remedy prescribed by the statute for the flowage of lands on the Concord River by the proprietors of the Middlessex Canal has been in such a form and so limited in point of time, under the construction which has been given to the ty the Supreme Judicial Court, as practically to furnish no remedy whatever; therefore,

young men, he said, had run into the idea that these meadow lands were never valuable, but he these meadow lands were never valuable, but he their lands, and furnishing, as the general mill acts do, compen

Mr. R. F. Fuller, of Wayland, said he was one the damage referred to the "source of the dambe had.

Dr. Joseph Reynolds, of Concord, read from a work descriptive of Middlesex county, as it was when first settled, and for years afterwards, showing the wealth of meadow land then existing. He presumed that the meadows on the river now were not worth more than half as much as they were forty years ago, or possibly twenty-five years ago. He said thousands were suffering from this evil, which was continually increasing, and it was only to favor a very few.

Col. Heard said there was one consideration not yet touched upon. The stagnant waters had already shown their pernicious effects upon the atmosphere; and farms finely situated in Wayland had been sold at one-third their former price, on this account. These, he declared, were

And, whereas, the manutemance of dams and other obstruc-tions is a fruitful source of litigation, and so an occasion of great expense, both to land-owners and mill-owners; And, whereas, it is believed that the peace of the community, and the security of land and mill owners, and the interests of, ow which was uncommonly high, and he had thought that it could never be damaged by water. rivers, and of all privileges, limitations and restrictions incident But for the last few years his meadow had been worse than worthless. He had paid taxes and received no income.

Mr. Heard, of Wayland, said he did not own an acre of meadow land, but he was interested, and so was every person who lived on the banks of the Concord river. If the evil should be allowed to continue, the inhabitants would be driven back from the river banks. The stench from the river was sometimes very bad. He looked upon it as a nuisance; and he hoped it would be removed one way or another. He would advocate the manner sanctioned by Judge Shaw of removing a nuisance. (Applause.)

The Chairman said if this was anything but a meeting of farmers, there would be fifty present charged full to bursting with speeches. were men who had suffered damages for half a century, and they would not be heard from. He would introduce a gentleman and a lawyer, from another State, who, he said, had probably tried more eases of flowage than any other man in New England. He introduced Judge French,

Resolved, That adequate remedies should be provided by the said he believed, and he had said so many times

before, that the amount of meadow land over-the London papers says-As the comet is partflowed by the dams of manufacturing companies ing company with us, I think the following statewould raise wood enough ten times over to carry ment will afford the public whose minds are not those mills by steam. He advised the proprie-familiar with astronomical distances, a pretty ture to give them a law, if they had none ade-the sun, 95 millions of miles, is represented by a quate, under which this dam may be lowered, or, space of 1 inch; Jupiter's, 490 millions of miles, if necessary, entirely removed, and a compensaby 5 inches; Saturn's, 706 millions of miles, by tion made to the proprietors of the dam. He of inches; Uranus's, 1800 millions of miles, by which a man was given power to drain through of miles, will be represented by a space of 368 any adjacent lands. He believed this was, in inches. Then the distance of the nearest fixed spirit, fully up to such an act as was wanted. star, which is at least 35 billions of miles distant, In England, where a large territory had been will be represented by a space of 348,000 inches, steam power equal to the water power taken most distant yet discovered belonging to the softom them, and the streams were allowed to go lar system, and which occupies 1642 years in its free as God had intended they should.

Mr. Abel Gleason, of Wayland, made some

remarks, mostly corroborative of the other speakers. He spoke of the inconvenience and damage from the waters sent down from the Cochituate reservoirs above, during the having season.

Col. Heard said he knew that the whole fall of the river from Wayland to Billerica, twenty-two miles, was only two feet; but he believed, in common with several other speakers, that the water in the river at this point was several feet | I think I have done more than hundreds of others higher than it was at the dam in Billerica.

marks upon the effects of the dam.

Judge French, being requested, explained that, by the law that made water run down hill, the surface of the water must be somewhat descending; and that it was very natural that the water should old age, to give our experience to the public. be piled up higher twenty miles back than at the

The resolutions were then passed without any

opposition.

Mr. Samuel H. Rhoades moved that the officers of this meeting, and such persons as the to stay upon the farm, which was poor and had meeting might add, be appointed an Executive but little income. I made up my mind to make it Committee to strengthen, perfect and continue better, if labor, patience and perseverance would this organization, and to raise such funds as may accomplish it. There was a swamp upon the

tee was raised as follows:

Concord, John Eaton, of Sudbury, Jonas Smith, I began to cut bushes and plow a small piece at of Lincoln, Jonathan Hill, of Billerica, Nathan a time as fast as I could attend to it, and lay it O. Reed, of Bedford, Thomas Page, of Carlisle, into beds about two rods wide, to take off the Charles Fisk, of Framingham, Vice Presidents; surface water. I followed this process until it R. F. Fuller, of Wayland, Dr. Joseph Reynolds, of Concord, Secretaries, and Samuel H. Rhoades, of Concord, Treasurer. To whom were added swamp grasses. I also found it very difficult to Nathan Barker, of Weston, and Thomas J. Da-keep the beds in their right form and the drains mon, of Wayland.

facts were elicited, the meeting dissolved.

that the amount of property damaged-much of much, I made use of all my small stones, and then dollars.—Boston Journal.

EST FIXED STAR.—A correspondent of one of in your paper. I purchased a few of them this

tors of these meadow lands to ask the Legisla-good idea thereof. If the earth's distance from had no doubt that the Massachusetts General 81 inches; and Neptune's, 2900 million of miles Court would give such a law, when the circum-by 29 inches; the diameter of the longest ellipse stances were known. Massachusetts had, in 1855, of the orbit of Donati's comet, whose period is passed the best drainage law in the world; by said to be 2495 years, and distant 35,100 millions overflowed, the evil had been removed by an act or 5 7-9th miles; which is 1000 times that of the of Parliament, by which the proprietors had been comet when farthest off, or 12,689 times the discompensated in a degree sufficient to support a tance of the planet Neptune from the sun, the orbit.

For the New England Farmer.

GRADUAL IMPROVEMENT OF LAND.

Mr. Editor:—In a recent number of the Farmer there is an article upon thorough draining, in which the writer says that the thorough draining of our old farms in New England is simply an impossibility. I do not write because who are too modest to tell what they have done. Deacon Heard, from Wayland, made some re- but for the encouragement of young men of small means and poor prospects, to stay on the old farm. I think it is the duty of all of us who have remained with our parents, and have obtained sufficient property to support us in our

I will give you some of mine, which you may lay before your readers, if you think proper. was the youngest of seven boys; the others all went off as soon as they were large enough. I felt it to be a duty which I owed to my parents be necessary to secure its objects. The commit- farm containing about seven acres, covered with bushes and brambles, except about one acre, Simon Brown, of Concord, President; Col. which was too wet to bear them. My first labor David Heard, of Wayland, Elijah Wood, Jr., of was to dig a ditch through the centre, and then clear. I knew nothing about underdraining, but After some further remarks, in which no new thought I would try the experiment of using up the small stones that plowed out of the other It was estimated by several of the speakers fields, and found them to improve the land so it rendered valueless—was as much as a million commenced draining with slabs, which I expect will fail in a few years.

I did not know that drain tile was manufac-THE COMPARATIVE DISTANCE OF THE NEAR-tered so near me until I saw the advertisement

fall, and am so well pleased with them that I think if I should live another year, I shall make What a swelling chorus of that constant cry use of more of them; for I think them to be comes on every gale, reaches our ear at every much cheaper and better than stone or slabs, turn, whether on the public highway or in pri-I now have this piece about one-fourth under- vate conversation. Such a young man has nothdrained, and if those who succeed me for fifty ing to do. Poor soul, we pity him. In this years will do as much as I have done, I think it great, bustling, active world, he stands for a cywill be thoroughly drained and in a high state pher; has no aims, no ambition, no desires. He of cultivation. I hope no persons will think it has nothing to do. The town has been hastily impossible to improve their lands till they have looked over, no work presents itself, and so one made more than one experiment.

in New England to be improved, if every one How many such pictures we have, and yet how who owns it will labor with his own hands, and needless that we have any. There is work enough spend all of his surplus money in improvements, for the whole creation. While one young man

der a high state of cultivation.

THOMAS HASKELL.

Gloucester, Nov. 25, 1858.

For the New England Farmer.

ROOTS FOR STOCK---CROPS---ADULTER- man with his manhood, and calls into action his ATED MILK.

discussion in your paper relative to the value of turnips for feeding to cattle and hogs. I have raised rutabaga and English turnips, and fed them gets habits that a life will not cure. Crime, the to cows, and my opinion is, if a man keeps cows twin sister of idleness, will next be on hand and to make butter from, that turnips are poor prov-claim you for her own. The sparkling bowl will ender, except to give perhaps two messes per present its allurements, and then down, down week for a change. If he sells the milk, and his you go into degradation, and one mind is lost to customers do not know the difference between the world, one star in the great human constelling and thin, he might, instead of adding lation is gone. water to thin the milk, feed with turnips. Last year I wintered ten swine. I sold one-half of to the grave, and whatever one's occupation may my turnips and bought corn. I fed part with the be now, such habits are a mine of wealth when corn, and they fatted well; those that were fed one is engaged in business on his own account. on cooked turnips lived, and this fall, after having been fed on corn, are no larger than the oth- er exacting or sweeping the remark may seem at ers were last spring.

swine, but those I think should be given in mod- industry, attention to business and steady habits, erate quantities. Corn meal suits me better, with all of which are duties society imposes upon beets enough to give a relish, and with this feed man, and the result of such causes is a duty equal

condition.

square being deducted for a hog pen,) I planted many bright names in the pages of our country's a new kind of beans to me, and between the hills, eight feet asunder, squash seeds. The yield was world with their raiment tied in a handkerchief 250 squashes which average six pounds each; and their capital comprised in a few dollars. 1,500 pounds. I sold ten dollars worth of green Yet there was determination, perseverance and beans, and this same kind of squashes I sold in energy there, which were worth more than the April this year for three cents per pound, the purchaser saving the seed for me. At this time, those names now fill honored places, and live and will live in booting the seed of the seed for me. Dec. 11, there is but one specked squash in the lot.

Is there an instrument to detect the adulterationof milk in this country?

Cape Elizabeth, Dec. 11, 1858.

Remarks.—J. S. F. Huddleston, 96 Washington Street, Boston, will furnish you with an article for detecting adulterated milk.

cinnati, B. F. SANDFORD, Editor and Proprietor, is one of the neatest and best conducted agricultural papers THAT WE SEE.

"NOTHING TO DO."

What a swelling chorus of that constant cry able-bodied man sinks into the slough of idle-I think it quite possible for most of the land ness, convinced that the world is all money .rather than to buy more, till he has got it all un- is spending his days in idleness, the merchant is looking for a clerk, the lawyer for somebody to assist him in his writing, and if nothing else turns up, there is at least an opportunity everywhere to saw wood. There is no necessity for an idle man on the face of the earth. Industry is one of heaven's best blessings. It endows a ATED MILK. tact, reason and judgment. We say to young I have read with a great deal of interest the men, never be idle. If nothing better turns up,

Habits of industry in early life follow a man first glance, an examination proves its truthful-I have found beets the best root for cattle and ness in every particular. Success is the result of the cattle come out in the spring in a thriving with each of them. Let us have no more talk about young men who have nothing to do. If On a lot of land, 50 by 100 feet, (ten feet nothing comes, make or find something. How history left home for their journey through the will live in beating hearts to the end of time. With such examples before us why should young men be idle. What has been done, can be done again, and any young man can do it, if he will. At all events, go to work, be a man among men; you are then on the road to wealth, distinction and honor, and how far you get depends entirely on how hard you work. Depend upon it, nothing ever came of idleness, nor never will. An idle man is a cypher in the world, and one of the The Ohio Valley Farmer, published at Cin-most unhappy, miserable beings in existence.— Hunterdon Republican.

> Common salt adds to the weight of grain. Bones tend to fill the ear.

m	ARLE	OΨ	MEA	SURES	OF	LAND	

1st.	10	16.5	20	30	33	40	50	60	70	80	90	100	110	120	130	140	150
10	.3673	.6061 .0038	.7346 .0046	1.101 .0069	1.212	1.469 .0092	1.836 .0115	2.204 .0138	2.571 ,0161	2.938 .0184	3,306 ,0207	3,673	4,040	4.408	4.775 .0299	5.142	5.509 .0344
	16.5	1,000	1.212	1.818	2.000	2.369 .0152	3,030	3.636 .0227	4.242	4.548	5.455	6.060	6.666	7.272 .0454	7.878 .0492	8.484	9.090
		20	1.469	2,203 .0138	2.424	2.938 .0184	3.673 .0230	4.407	5.142	5.879 .0367	6.611	7.346 .0459	8.080 .0505	8.815	9.550	10.28	11.02
$\frac{-}{2d}$	150		30	3.306 .0207	3.636	4.047	5.510	6.612	7.713 .0482	8.815 .0551	9.911 .0619	11.02	12.12 .0758	13.22	14.33	15.43 0964	16.53 .1031
150	82.64 .5165	160		33	4.000	4.848	6.061	7.273 .0455	8.485 ,0530	9.697	10.91	12.12 .0758	13.33 .0533	14.55	15.76 .0985	16.97 .1061	18.18
160	88.15 .5509	94.03 .5876	170		40	5.877 .0367	7.346 .0459	8.815 .0551	10.28	11.75	13,22	14.69 .0918	16.16 .1010	17.63 .1102	19.10 .1194	20.57	22.04 .1377
170	93.66		106.15 .6634	180		50	9,182	11.02	12.85	14.69 .0918	16,53 ,1033	18.37 .1148	20,20	22,04 .1377	23.88 .1492	25.77 .1606	27.55 .1722
180	99.17		112.39 .7025	119.01 .7438	190		60	13.22	15.45 .0964	17.63 .1102	19.83 .1240	22.04 .1377	24.34 .1515	26,45 ,1653	28,65 ,1791	30.85 .1928	33.06 .2066
190	104.68 .6542		$\overline{11^{3}.64}$	125.61 .7851	132.59 .8287	200		70	18,00 ,1125	20,57	23.14 ,1446	25.71 .1607	28.28 .1768	30.93 .192s	33.43	36,00	38.57 .2410
$\frac{-}{200}$		$\overline{117.54}$		132,23 ,8264	139.57 .5724	146.92 ,9182	210		80	23.51 .1469	26.45 .1653	29.38 .1837	32.32 .2020	35,26 ,2204	35,20 ,2355	41.14	44.08 .2755
$\frac{1}{210}$	115,70 ,7231	123,41 .7713	131.12	135.54	146.55 .9159	154.26 .9641	161.95 1.012	220		90	29.75 .1860	33.06 .2066	36,36 .9273	39.67	42.0s .26s5	46.28 ,2893	49.59
$\frac{-}{220}$	121.21			145,45	153,53		169.69	177,77	230		100	36,73 ,2296	40,40	44,08 ,2755	47.75 .2984	51,42 ,3214	55.10 .3444
230	126.72 .7920	135.17 .8448			160,51		177.41	185,85		240		110	44.44 .2777	45.93 ,3058	52,53 ,3283	56,57 ,3535	60.61
240	132.22 .8255	141.04 .8806		158.67	$\overline{167.49}$		185.12	193.93	202.75	211.56 1.322			120	52.89 .3306	57,30 ,3581	61.71 .3857	66.12 .4132
250	137.64 .8609	146.92 .9182	156,10 ,9756	165.29	174.47 1,090	183.65	192,83	202.01 1.263	211.20	220.35	229,56 1,434	260		130	62.08	66.85 .4178	71.63 .4476
260	143.25 .8953	150,80 .9545	162,35 1.015									248.29 1.551			140	71.99 .4499	77.14 .4821
270	149.76				188.42	198.34	208,26	218.17	225.09	23×.01	247.93	257.84 1.611	267.76			150	82.64 .5165
280		164.55 1.028	174.84		-	205,69	215.97	226.26	236.55	246.53	257.12		277.68	287.97	290		
290		170,43 1,065			202,35 1,265	213,03 1,331	223.69 1.398	234.34 1.465	244.99 1.531	255.65 1.598	266,30 1.664	276,95 1,731	2×7.60 1.797			300	
300		176,31 1,102				$\frac{1.377}{220.39}$	231.40 1.446	242.42 1.515	253,44 1,584	264,46 1,653	275,48 1,722	$\frac{1}{286.50}$ $\frac{1.791}{1.791}$	297,52 1.859	308.54 1,928		330,58 2,066	310
310	170.80 1.067	182 18 1.139	193,56 1,210	204,95 1,2:1	216,34 1.352	227 73 1.423	239.12 1.494	250.50 1.566	261.89 1.637	273,28 1,708	284,66 1.779	996,05 1.850	307,44 1,921	318,89 1,993	330.21 2.064	341,60 2.135	352.98 2,206

For the New England Farmer.

TABLE OF MEASURES OF LAND.

it becomes desirable to have at hand such a ta- acres by the lower number. ble as is given above, for reference. It will en-

occupies but about half the space usually given the diagonal row of darker figures, and the length

to those tables, yet it contains as much information as though made up in the square form. The multiplication of any number in the diagonal The rapid advances now being made in the sci-rows, into another number less than itself, is a ence of agriculture, are very much aided by the mere repetition of work that has been done bespirit of experiment, and by the rivalry induced fore, and therefore this table is made up so that by competition for the premiums offered at our the square of a number in the diagonal rows, is yearly shows. The results of different experi- the first result given in the table opposite or bements cannot be compared without a knowledge low that number. The darker figures represent of the area of the land on which each crop was the measurements in feet as taken on the ground. grown, and as it is not always convenient to The area given in lighter figures is expressed in plant just an acre, or half or quarter of an acre, square rods by the upper number, and in square

able a person to use such a piece of land as he connection with each other, except that the may happen to have, fit for the purpose, of any darker figures in the lower are in continuation of width or length given in the table, with the those in the upper at corresponding intervals. means to readily ascertain the area in square In the first table, the width of the piece of land, rods or square acres, in whole numbers and deci- expressed in feet, must be looked for in the diagonal row of darker figures, the length in the The table is used in about the same manner as horizontal row of darker figures at the top. In an ordinary multiplication table, and though it the second table the width must be looked for in

in the vertical column of darker figures at the our citizen, Wm. BACON, of Richmond, is of that

opposite the other.

ground, and the quantity of the crop grown, the quantity per acre may be found as follows: Suppose the piece to measure 80 feet in width by 140 feet in length, the crop to be barley, and the quantity grown 288 quarts, -- annex as many cyphers to the number of quarts as there are decimal numbers in the area as given, and divide by the area. The result will be the number of culture of the pear on quince stocks, it cannot be quarts per acre; divide by 32 and the result will be bushels. In this case the quantity being expressed by 288, annexing four cyphers we have 2,880,000; dividing by 2571, we have 1120 quarts per acre; divide by 32 and the result is 35 bushels per acre. As by example:

Area of a piece $80 \times 140 = .2571$, as taken from the table. Quantity 288 quarts. Annex four cyphers, and divide by

.2571)2880000(1120 quarts. 3090 480 Divide that result by 32) 1120 96 35, bushels. 160

of the crop were expressed in bushels, pounds or tuns. If the quantity per square rod is sought, the same figures must be used, except that the quantity must be divided by the area in rods as expressed by the upper number in the table, instead of the area in acres, as expressed by the lower number.

The quantity of the experimental crop should be measured in the smallest denomination that is practicable, to insure accuracy in the result per acre. If by dry measure, the crop may be measured in quarts, if by weight, in pounds.

The calculations required in making up this table have been performed by our assistant, Mr. WM. H. Foss, and to facilitate the work, he constructed a small table, which can be used to reduce any number of square feet, small or large, to a corresponding value in rods or acres, with but little labor.

The table will be given in a future number of the Farmer, and cannot fail to be of value to any one who is in the habit of making such reduc-J. HERBERT SHEDD.

Boston, Dec., 1858.

mates," we found exceedingly interesting, per-county of Essex pays as much as either of these

left. The area will be found below the one and practical and valuable character which always Having ascertained the area of the piece of give his articles interest. The one that follows, by E. Norron, Farmington, Conn., upon the subject of "Pears on the Quince Stock," gives a pretty accurate history of a good many experiences that did not take place in the good old State of Connecticut. While the fact that a great many have been abundantly successful in the controverted that a still larger number have failed to meet with that success which their expense and care would seem to justify. The article will unquestionably turn attention to the subject, and lead to a more careful investigation of its merits.

The whole number is a valuable one.

EXTRACTS AND REPLIES.

MILK BEFORE THE CALF.

Mr. J. S. Marston, of North Hampton, N. H., has a heifer that, after giving a fair quantity of milk for five and a half months, has calved for the first time, the calf being fat and rugged. Is not this a rare circumstance?

Portsmouth, N. H., Dec., 1858.

Remarks.—It is a rare circumstance. We The process would be the same if the quantity have a fine three-year old heifer that we turned to pasture early in May last. She had never had a ealf or given milk, to our knowledge, and we had owned her from the time she was six months old. On visiting her in one week from the time she was turned to pasture, we found her bag much distended, and milked upon the ground what we supposed to be four quarts of milk. There was no appearance in the animal, or in the milk, of her having dropt a calf. She was returned to the home pasture, and milked regularly until the middle of September, when she dropt a sprightly, but small calf, at noon, having given her usual quantity of milk, on the morning of the same

> We have heard of such cases, but this is the only one that ever came under our own observa-

COUNTY AGRICULTURAL SOCIETIES AND THE STATE BOUNTY.

If I am correctly informed, there are now four THE HORTICULTURIST.—The number before agricultural societies within the limits of what was us for December is an attractive one. Editor, the original Worcester County Society, and three contributors and publisher have covered up a good dish in good taste. The Editor's "Chat, the commonwealth \$600 annually, being \$2400 in Country Life, Men in Cold and Tropical Cli- Worcester and \$1800 in Middlesex-while the haps because we have given considerable thought and investigation to the *influences of climate* tupon character. The article upon "Manure for the whole. I have been astonished that close cal-Fruit Trees-Where to Feed Fruit Trees," by culating legislators have not noticed the bearing

of these discrepancies. I am friendly to the present land that will produce 20 bushels of wheat or 40 agricultural organizations—and hope they will be of oats. When the wheat crop fails, the next sustained fairly and honorably—but no such in-best thing is good barley, and this, I feel confiequalities should exist.

Dec. 15, 1858.

FOUR YEARS' OBSERVATION OF MOWING MA-CHINES IN THE OLD COUNTY OF ESSEX.

beautiful towns of the county of Worcester, has an hour out of the churn, is not bad to take. given us his experience in the use of mowing machines, chiefly of the Ketchum stamp. He begins by saying that it took him one hour and a As there are no strictly winter trees, or everone ton and a half to the acre. This has been ty of its grounds in the summer, and more paronly their ordinary operation. If Mr. H. uses ticularly in the winter, when nothing green in up an hour and a half in doing the same work, inanimate nature is to be seen. he is not fit to be a file leader in the use of mowing machines. I am too old and clumsy to do much myself, but I will name Levi A. Merrill, of Salem, and Horace Ware, of Marblehead.—and guarantee that either of them will do with their pigs on the 3d inst. aged 13 mos. 2d days, whose machines and their horses, twice as much as he weight was as follows:-male, 610 lbs. (includhas done. I have repeatedly seen them operate, ing loose fat:) female, 494 lbs. (including loose and know whereof I speak.

Essex Co., Dec. 20, 1858.

REMARKS .- If our correspondent will look at Dea. Humphrey's letter again, he will find that when it required an hour and a half to cut an acre of grass, it was in his first essay with the machine. Of the last season he says-"With one Irishman to trim out the borders after the machine was done, occupying perhaps about onefourth as much time as the machine, we have cut sixty-eight acres, and I think he has not worked more hours than he has cut acres." Indeed, Dea. Humphrey informed us that he had frequently cut an acre, and cut it well, in forty minutes.

ELECTRICITY AND VENTILATION.

I noticed some few weeks since, in your paper, a communication signed by "Electricity," in regard to "Lightning not striking buildings that were well ventilated." Will "Electricity," or any one else, explain through the Farmer why it is? What difference is there on the outside of a building that is well ventilated, and one that is not, or why the building that is ventilated will not be struck by the bolt.

Richmond, Mc., 1858. NON-ELECTRICITY.

AFRICAN BALD BARLEY.

a broad leaf, and beautiful blossom, and ripens process: early. I have never known the fly, rust or smut raising 40, 50, or even 60 bushels per acre, on 170 pounds each, and 36 Scotch pints (18 impe-

dent, must make flour nearly equal to wheat.

HENRY R. HOSFORD.

Pawlet, Rutland Co., Vt., 1858.

Remarks.—A warm barley cake, of rather Mr. Humphrey, of Lancaster, one of the most coarse meal, in a June morning, with butter only

THE STATE HOUSE.

half to cut an acre of grass. Such has not been the experience of good laborers in the county of Essex. I can show you several, who with a medium-sized span of horses, weighing only 1000 lbs. each—have cut their acre an hour, yielding of the State House, would add much to the beautiest of the care. This has been the first the care and more purely state of the same that the company that it the current and probably will not be, through fear of their mutilation, I think that many persons would agree with me that two Norway Spruce, planted in the enclosures front of the State House, would add much to the beautiest of the current and more purely more

FINE HOGS.

Mr. F. Keith, of this place, slaughtered two fat.) Mrs. K. has had entire charge of the animals, and we think that they reflect great credit upon her management.

North Easton, Ms., Dec. 13, 1858.

PEAR TREE SEEDS.

Can you give me information where the seeds of pear trees can be obtained? Middleton, Vt., 1858. Elbridge Scholar.

Remarks.—Nourse & Co., 13 Commercial Street, Boston, will supply you with pear tree seeds.

SALT LEY.

Will some of your correspondents inform me what is the value and the best mode of using salt ley, so called by the soap manufacturers? Harwich, 1858.

WILL SULPHURIC ACID DISSOLVE BONE?

In view of the many thousands of tons of superphosphate of lime manufactured and rendered soluble through the agency of sulphuric acid, and of the deserved honors conferred on the distinguished Giessen Professor of Chemistry, who first suggested the use of oil of vitriol for dissolving bones, it is almost startling to see the value of this acid for such purposes called in The sample of Bald Barley I send you is said question from a chemical "laboratory," and by a to have come from seed brought from the gulches teacher of the science. Prof. Gilham deserves in the Himmaleh mountains, by a gentleman in the thanks of the public for giving his experience Virginia engaged in the African trade. I pro-cured three heads of him, which gave me 72 ker-nels; these I planted 10 inches apart, and ob-tained 1300 heads. The grain grows rapidly, has large experience, Mr. Tenant, thus describes his

"I put 25 bushels of bones into three old boilto trouble it. I think there will be no difficulty in ers, and next pour in two bottles of acid of about

rial gallons) of boiling water into each, boiler. It boils away at a great rate for some time, and of amelioration will be best determined by a in a day or two we empty the boilers into two cart loads of light mould, and turn the mixture chemical examination of the subsoil in connection. At this stage the bones are only partially dissolved, but they heat and decompose in the careous nature, very little lime will be required, heap after being turned over three or four times; and perhaps none; but if this principle (lime) and in the course of seven or eight weeks the be present in only small quantities, it should be

of this kind while a chemical student with Prof. tities, produce very salutary effects. Johnston.

That the grinding of bones promotes the ready action of sulphuric acid in abstracting lime from phosphoric acid, no one doubts; but the stronger affinity of sulphuric acid for lime than phosphoric acid has is dependent in no degree on the ing worn-out sandy land, or old fields. Much of crushing of bones. The oil of vitriol, used by that land was originally good rich soil, and the Prof. Gilham, may have been a weak and a poor article. The writer has often seen the common one hundred was or more it has been constitutionally seed at the common one hundred was or more it has been constitutionally seed at the common one hundred was or more it has been constitutionally seed at the common one hundred was or more it has been constitutionally seed at the common one hundred was or more it has been constitutionally seed at the common one hundred was or more in the common of the common one hundred was or more in the common of the sulphuric acid of the shops behave precisely as is stantly under cultivation, and being warm and described by him under similar circumstances. He appears to have omitted the use of boiling water, as recommended by Prof. J. F. W. Johnston, an excellent practical chemist. His recipe to, to 100 pounds of bones, add an equal weight with rye, and perhaps, if convenient, throw in of boiling water, and immediately thereafter, 100 some hay chaff, and the surface is left to blow pounds of strong acid. The high heat analysis during the winter and arms of the limit of the li pounds of strong acid. The high heat evolved away during the winter and spring. After the from the union of the acid and hot water, so ex-rye is harvested it is suffered to lay three or four pands the fatty matter that surrounds the parti- years, and then to go through the same process, cles of lime in the hones, as to permit the acid to and so on. Now, any one may see, that in time reach them and effect new chemical combinations, all of the alkaline and vegetable substances are The elevated temperature of an acidified bone taken up in the stalks of corn and rye, and noth-compost for days and weeks, was entirely want-ing in the small laboratory experiments of Prof. nothing will grow in such exhausted land, not G. They disprove nothing as against the chemical action of the oil of vitriol under widely differdone, is, either to put on muck and manure, and ent eireumstances.

The error of Mr. Browne was hardly worth to suffer it to grow up into a pine forest. correcting, unless other greater misstatements of

fore the public.

I will say a few words more on the subject.— Country Gentleman.

DEEP TILLAGE.

fruitfulness in crops; yet it is never safe to turn ries. I have seen such land as the above-named up too large a portion of the subsoil at once. perfectly restored, and at the same time, more The work of deepening the vegetable stratum of than doubly pay the expense while undergoing soils should be consummated gradually; a little of the substratum only being brought and the substratum of the subs of the substratum only being brought up at a way is to plow the ground, and in the fall collect time, -- say from half to a third of an inch at each leaves and acorns or elm seed, and scatter them successive plowing, and so on till the soil has in the field and brush them over. If it is desirabeen stirred and improved to the depth required. ble, walnuts, chestnuts, beech or maple seeds Manure should be applied liberally, and lime sowed every time a fresh layer is brought to the surface. The fall is, perhaps, the most favorable I have trees of most of the above-named varieties season for this operation, as the soil will then only fifteen years old, that are from twenty to experience the greatest benefit from the neutral- fifty feet high. izing effect of the calcareous matter applied, and it would be advisable to cut and put on brush from the pulverulent and disintegrating influ-over the surface, and by doing this, matter will collect instead of being blown away. When I

The quantity of lime required in this process compost becomes dry and breaks down with a supplied, and caustic lime is the best article that Doubtless Prof. Norton saw many operations can be used, though wood-ashes, in liberal quan-

For the New England Farmer.

EXHAUSTED SANDY LANDS.

plow deep to restore it to its primitive state, or

The first can easily be done; for in most places his relating to phosphates are also set right be- where sandy lands abound, peat swamps are at hand, and in the fall, large quantities of muck As phosphates are important constituents in could easily be carted out, and in most cases it all home-made manures, and enter largely into would benefit the swamp meadows to make widthe composition of most commercial fertilizers, er drains through them, and in such case obtain two objects at once. If this course of manuring and deep plowing is parsued, in a short time any kind of a crop could be obtained from the old fields; large crops of grass, corn, rye, potatoes, turnips, melons, &c., could be produced-also a A deep and thorough tillage is conducive to good orchard of apples, pears, peaches and cher-

came to Brookline I purchased a gravel hill that cient ponds and beaver meadows. This marl, cially if it is intended to cultivate cranberries. S. A. SHURTLEFF.

Spring Grove, Dec., 1858.

For the New England Farmer.

CLIMATE AND SOIL OF ORLEANS COUNTY, VT.

Vt.,) I perceive there are not a large number of president of the County Agricultural Society, a writers for your pages. Having resided in this few years since, may aid in answering that quescounty nearly twenty years, and having, during tion, and also show the productiveness of our that period, been several years engaged in the soil. geological survey of the State, I have had a better opportunity to compare the soil in this with other portions of New England, and especially, and ten two-year olds. two horses, three colts, one, other portions of Vermont, than, perhaps, any two and three year olds and twelve sheep, and other person. I think it is of some importance, sold two or three tons of hay. I raised 300 that the readers of the Farmer should be made acquainted with some facts in regard to our cliter bushels of wheat." The stock was fully mate and soil, of which many are probably igno-equal to forty cows! The amount of straw, &c., rant.

This entire county lies north of forty-four 100 acres. degrees of latitude, but we are not, on that account, so "buried up in snow" as the citizens of Massachusetts and southern New England might suppose. It is, indeed, a very rare thing, that we are incommoded with snow or drifts, so as to impede travel or prevent business during any part of the winter. Frosts have been later, not uncommon.

produced neither grass nor weeds; I put on mud when converted to lime and mixed with the muck, all over it and plowed it in about a foot deep, and makes a manure worth from fifteen to twenty then cross-plowed it, and put on manure, about per cent. more than cow-dung. I have taken two cords to an acre, and plowed it again, and pains to survey most of the muck-beds in one then harrowed it, and then planted it with corn town, and ascertained that there were more than and potatoes and obtained good crops, more than 730 cords for every acre of land in the town, enough to pay all the expense and trouble, and Many other towns are equally well supplied, laid it down to grass, and have had a good crop. This will, in future ages, therefore, be a rich of hay every year since. It does not dry up, as it farming territory, when the "German Flats" and formerly did; the deep plowing prevented that Western prairies have become impoverished. trouble. Fifteen years since it was broken up, There are found few resources for supplying what and it produces good crops now. It does not get is transported from those regions by the export heavy and cold as land does where muck has not of wheat, beef, pork, &c. There is a constant been plowed in; the value of muck is much great-drain of the richest elements of the soil, which er in gravelly or sandy land, than it is on clayey in time must produce the same effect now exland. Sand and gravel are worth more than perienced in Virginia and some portions of New manure on clayey ground and meadows, espe- England. In this portion of Vermont are resources adequate to prevent any impoverishing of the soil for scores of centuries.

If you foot up the number of cattle and sheep from Vermont, taken to Brighton and Cambridge, as reported in the Farmer, for a year, you will find that the little State of Vermont furnishes more at those markets than all the rest of New England. This, to many, has been surprising. MR. BROWN:—Though you have a considera- The question is often asked, "How is this possible number of readers in this (Orleans county, ble?" Perhaps a few facts obtained from the

> "I have in grass thirty-five acres, from which fed out, was only what is common on a farm of S. R. Hall.

Brownington, Vt., 1859.

For the New England Farmer.

APPLICATION OF MANURE.

Mr. Editor:-In the first place, should not usually, in autumn than they have in Worcester every farmer consider what the crop is to which county. You mention frost that injured cran- he can apply his manure to the best profit, whethberries, &c., last fall, a month earlier, near Bos- er it will be to increase his hay, or corn, or the ton, than we had in this county. Tomatoes were small grains. If his farm is one better adapted green in my garden, both last year and the year to hay than grain, that is, if he has a large probefore, till about the first of October. This is portion of low land or swale hay, then it would t uncommon.

The soil of a large portion of Orleans and ledding counties is made by the decommonistic grain; but if otherwise, he should have a Caledonia counties is made by the decomposition greater proportion of upland hay, which needs of the calcareous mica slates which constitute the manure to keep that crop good, then it apthe rock in place. These slates are an inter-pears that here is the crop needing the most stimstratification of clay-slate, lime-slate and horn-ulant. Now let us consider what per cent. each blend. The rock is very friable, and decomposes or apidly that there is a good deep soil now, where the ledges appeared on the surface twenty years ago. The lime, clay, silex and mica are so well mixed that they furnish in great abundance and the surface twenty and then sow down to grain and grass the section of the surface twenty and then sow down to grain and grass the section. the elements required by vegetation, especially ond year, which is allowed to take twenty-five wheat, barley, grass, corn and oats. Should the per cent. of the remainder of the strength of the soil ever deteriorate, we have immense quanti-manure,—then we have only twenty-five per ties of the richest variety sphagnous muck, much of which lies above shell marl, in the beds of angress crops, which, if there be four of those nures, for four crops of hay.

der that we have light crops of hay, when we At other points, the land rises in long undulaconsider that some of our old fields have thus tions, affording occasional and delightful views of

are spending a larger portion of our manures on now peeping forth from the delightful shade of a the grain than on the grass crops. This may thick grove—the white farm-houses with the neatbe the best course to pursue, but will depend on looking out-houses, the sheep basking on the discircumstances; if the amount of grain we pro-tant hills, the lowing of the herd in the adjacent duce can be converted by the least expense into field, the merry song of the farmer as he gaily that which will re-produce the most from the plied the rake or bound in sheaves the rich refarm, then it is best to cultivate the land for ward of the husbandman's toil, formed a view, those crops; but for some farmers, no doubt which, to my eye, was truly delightful. hay will be the crop for them in preference to any other. T. G. HOLBROOK.

Bedford, N. II., $D\epsilon c.$, 1858.

For the New England Farmer.

THE CORN HARVEST.

O, saw you the golden-eared corn, As the Eusbandman gathered it in, When he rose in the purpling morn To garner his treasures of grain?

The seed which his generous hand Had strown in the spring o'er the plain, Had grown upon his furrowed land, 'Mid the sun and the dew and the rain;

'Till the autumn had chilled with its cold. The insect that bathed in sun-light, And robed in gay beauties untold, The wind-waved forests so bright

O, heard you that mellow-toned song, Gushing up from the husbandman's breast, As it echoed the hill-side along, And waked them all smiling from rest?

The West may boast her rich gold, And the East her wines and her oil, But the husbandman's treasures unfold When he coaxes his corn from the soil. New Ipswich, Dec. 21, 1858.

W. D. L.

For the New England Farmer.

THE MASCOMMA VALLEY.

Mr. Editor:—It may not be uninteresting to a portion of your readers to hear something of ing house, two stores, and all the various methis beautiful valley, situated, as it is, in the chanical trades necessary to make a flourishing mountainous region of Grafton county, N. H., place. and lying in the towns of Lebanon and Enfield; it is only some 14 miles in length, not very wide the valley is magnificent, and especially from the at any point; but it is rich and productive, and residence of T. J. Colby, Esq., on George Hill, the farmers in this valley are independent; they an elevation of several hundred feet, and overstand upon their own acres, and can boast of as looking the valley on the north-west, presenting good farms, as good crops and as good stock as the farmers of any other valley in the State of New Hampshire. In the month of August last, I passed through that portion of this beautiful responsed through that portion of this beautiful responsed through that portion of the source and Garage. gion lying between Lehanon Centre and George small pines, spruce and fir, shading the distant Hill in Enfield, and was filled with admiration at and nearer landscapes, and forming a scene fit the rich gifts of Nature which were displayed to for the hand of an experienced writer. In the the traveller. Beautifully undulating lands, clad distance stretches the beautiful Mascomma Lake, with all the varieties of majestic trees, shooting into the air, while here and there meandering level of the sea, in the towns of Lebanon and crystal streams were seen gliding onward to the bosom of Lake Mascomma and the Connecticut mantic lakes in New England, for the beauty of

crops, as is commonly the case, then we have only country I ever beheld. At some points on either six and a quarter per cent. yearly, of all our ma-side of the valley, mountains throw up their granite peaks high into the air, descending abruptly According to these calculations, is it any won- or gracefully towards the Little Mascomma river. been managed for the last half-century or more? the scenery—the bright river runs like a natural If this theory be correct, it is certain that we mirror, now meandering through the plain, and

> There are thriving and beautiful little villages in this valley that are deserving of note; the first in order, as we pass from the Connecticut eastward, is Lebanon Centre. This is a business place, traversed by the Northern Railroad, surrounded with a good farming country, pleasantly situated, tastefully laid out, and has become a

place of considerable wealth.

About three and a half miles from this place, at the north-western extremity of Lake Mascomma, is situated the village of East Lebanon, a brisk little place of business, with its complement of farmers, merchants and mechanics requisite to make it what it really is, a smart New England

village.

The next place worthy of note, as I passed along the western shore of this beautiful lake, (after passing the submerged bridge which crosses the lake at a point near its centre,) is the village of the Enfield Shakers; here are elegance, neatness and convenience combined. I certainly never saw a place where such perfect order and neatness prevailed. The grounds are laid out with the utmost exactness, the buildings and fences of the best materials, built in the most thorough manner, and kept in the best repair. The whole appearance manifests the watchful care of the prudent and experienced managers.

Next in order come the three little villages o. Enfield, called North-End, Centre and Fish Market. These three villages united, would make one large village. The centre village presents quite a lively appearance, containing one meet-

The view from the south-eastern extremity of river: I thought it the most beautiful inland its situation, its irregular shores, indented with numerous coves, creeks and inlets, and imbedded in the midst of magnificent hills and lofty mountains. It may justly vie in beauty and grandeur with Winnipissiogee or Lake George, or with the more celebrated and far famed Scottish lakes tinguished by a peculiarly pungent odor. When Katrine and Lomond.

about this region, and its industrious inhabitants. Perhaps at some future time I may have something to say about my own Sugar River Valley. W. C. A. CLINTON.

Claremont, N. H., Dec., 1858.

AMMONIA.

This substance, which performs a very important part in the economy of vegetable development and growth, is always found in rain- when applied to vegetables; but in his very elewater, dew and snow, particularly in the vicinage of cities and densely populated districts, where ammonia is profusely generated by decomposing matters. It is a volatile substance, and unless absorbed and fixed by some article capable of attracting and retaining it, passes into the atmosphere, and is lost. That it actually abounds in rain water as it descends from the heavens, the production of vegetable phenomena, is atand in no inconsiderable quantity, may be de-tracted and decomposed by gypsum, and soluble monstrated by simply distilling a few gallons, sulphate of ammonia and carbonate of lime and mixing the first two or three pounds distilled formed. As this salt of ammonia possesses no with a little muriatic acid. A very distinct and volatility, it is, of course, retained in the soil, beautiful crystallization of muriate of ammonia, and effectually economized for the use of plants. or sal ammonia, will thus be formed, the crystals Both the above salts, however, have a decidedly having a dark or brownish color.

If a small quantity of muriatic acid be added to a quantity of rain water, and the mixture evaporated to dryness over a hot fire, the ammonia will remain as a residuum, in combination with the sulphuric acid. It may be detected by adding a little pulverized lime, which will combine with the acid, and the ammonia will be set free. In this state, it is easily detected by its nication from Mr. Collamore, in the Farmer of

is probably one of the most efficient and valuable articles known, as it is capable, under ordinary years among crops of corn, and laboring forty circumstance, of absorbing ninety times its weight years among corn crops. The laborer has greatly of ammoniacal gas, which it retains until it is the advantage over a mere proprietor, in noticing freed and washed into the soil by rain. Here, Mr. C. asks some eight questions two or more partly, no doubt, by the voltaic action of the of them being double ones. These questions parspongioles, it is conveyed into the vegetable systake somewhat of the process of dodging respontem and circulation, and becomes the principal sibility. When Mr. C. says I am "mistaken," source of nitrogen, so indispensable to vegetable the alth and growth. Gypsum, another valuable article, is also a powerful fixer, and is highly valuable article, is also a powerful fixer, and is highly valuable. uable as an application, on all soils, especially perience, and I venture to prophecy that in less those that are dressed with animal substances, than twenty years very many farmers will be which in the process of decomposition evolve considerable quantities of ammonia, and which,

Mr. C. asks, "has it never occurred to him, that like charcoal, it serves to fix and retain for the he could compost his manure?" I wrote about benefit of the growing crop."

Urate is evolved or given out by putrid urine, and by stable dung in a state of fermentation. It is always a colorless product, and disdissolved in water, it is known as "hartshorn.' . There is much more that might be written It is volatile in a very remarkable degree, possesses the common properties of soda and potash, and combines readly, as we have already shown, with acids. Its effects upon vegetation, are very marked. For fixing and economizing this volatile and highly important product of decomposition, gypsum, or plaster of paris, as it is more commonly denominated, possesses a very high degree of value. It was formerly supposed that gypsum operated merely as a stimulant gant and elaborate work, Professor Liebic has presented a solution of its action, which experience, we have no doubt, will demonstrate to be

> According to his views, carbonate of ammonia, which is known to be present in rain-water, and in itself a most energetic and salutary agent in beneficial influence upon the humus of the soil, and, by a specific action, tend to advance its preparation as a soluble food of plants.

> > For the New England Farmer.

MANURES .-- COMPOSTING AND EX-POSING.

MR. EDITOR:—I was pleased with the commupungent smell.

As to fixers, a recent writer on agricultural chemistry remarks:—"For this purpose charcoal is probably one of the most efficient and valuable "forty years" labor among corn crops."

December 18th. He quotes from my communication of November 27, as follows: "forty years among the corn crops." I wrote it as follows, "forty years" labor among corn crops."

There is a great difference in spending forty

Mr. C. asks some eight questions, two or more

Mr. C. asks, "has it never occurred to him, that composted manure, and supposed it was so unthis I fully believe can be done better out of the good deal of work for the muscles of one pair of cellar than in. Mr. C. is informed in this, as well jaws, if they have the whole burden of its reducas my former communication, that I have "learned tion to small bits and powder; this labor affects that the caustic qualities of powerful manures the whole system, like other labor, retarding the will prevent the germination of seeds." He inquires if I am in earnest in recommending this sary to supply the waste of its tissues. The same theory; if he will take away the word "ruinous," reasoning applies to grinding other food for I answer I am in earnest, and have practiced it stock.—Country Gentleman. for forty years. I think my labor has not been wholly vain in the corn-field, and should I be permitted to slumber, as did Van Winkle, I fully believe that when I awake, I shall find the barn eellars occupied for a different purpose than the composting of manures.

What surprises me the most, is his first parenthesis, "And I think you, Mr. Editor, must have caption by Wilson Flagg. Notwithstanding Mr. a large share of moral courage to publish it." Flagg's able and well-written article, he does not Was Mr. C. serious, when he penned that? Did convince me that there is danger to the small. he think an editor had no other attribute than independent farmer, growing from the formation courage? and if he has other attributes, does he of the "Mammoth Farm Company," in Western think that the reason of his publishing my arti-cle was to try his courage? If farmers acted from a sense of duty, I believe we should often "destructive to the prosperity of individual farmfrom a sense of duty, I believe we should often record our failures, for the benefit of others. I ers" at the East, or any where else, I have not hope we shall have both sides of this subject dis the sagacity to see. The productions of the cussed in the Farmer, as the sooner we know the truth, the better. ROBERT MANSFIELD.

West Needham, Mass., Dec., 1858.

For the New England Farmer. CUTTING STALKS OF CORN.

marks on the "cutting of corn-stalks" noticed by the better, if the raisers are remunerated. And a man so sensible as Mr. Emerson, of Hollis, for me, I am under the least apprehension that appears to be. Without the honor of his personal acquaintance, I judge him to be a man of good sense, from his style of writing. In years jury of the small, independent farming interest gone by I have known many reliable men of Hol-in the Eastern and Northern States, however it lis, and among others I presume I knew the fa- may operate upon them on the prairies at the ther of Mr. Emerson, when he attended market West. at Salem, as many of the inhabitants of that town were accustomed to, with their loads of to which steam could be advantageously applied;

and leaving other eight rows similarly situated all the consumers at the East, West, North and uncut, is a perfectly fair one. And if he found, South, that the steam plow will prove successful as he says he did, more soft, unripe corn where in capsizing the surface of the indurated prairies, the stalks were not cut than where they were and fully realize the expectation and confirm the cut, this would go far to show that it is best to hopes of the "Mammoth Farm Company," in cut them. Another reason why it is better to plowing those stubborn prairies which require cut them than not, is, the stalks themselves are so much animal power to perform. The fear of more valuable. But the chief reason is, that injury to the small, independent farmer in the the corn ripens better; the ear being the object | Eastern and Northern States, that creates such

December 25, 1858.

to grind hay," says the London Farmers' Maga-rine, "the ground article would approximate in value to unground oats in producing fat and muscle." Chopping hay and stalks is the pro-cess that comes nearest to grinding, and relieves Union.

Silas Brown. the animal of just so much labor as it takes to do! North Wilmington, Dec., 1858.

derstood all through my communication; and it. Twenty-five pounds of dry hay a day is a

For the New England Farmer.

AGRICULTURAL PROGRESS --- MAM-MOTH FARM COMPANY.

MESSRS. EDITORS:-In the N. E. Farmer of the 18th Dec. is a communication with the above caption by Wilson Flagg. Notwithstanding Mr. West are generally the very articles which New England does not produce in sufficient quantities for her own consumption. From the West and South very few articles are transported to New England which are produced in it as surplus. The more grain, pork, cotton, sugar, molasses, rice, sweet potatocs and other articles of MR. EDITOR:—I am pleased to have my re- warm climates, and the cheaper they come to us,

The plow is the only "mammoth implement" barrels; and when these loads came together, that being the case, other farm operations must we were accustomed to look upon it as a sign of with horses, oxen and hand laborers. I hope, His experiment of cutting eight rows of stalks, for the benefit of the farmers at the West, and for which it is grown, and not the stalk. I have apprehensions in the mind of Mr. Flagg, I think heard it said if the stalks were left on, the juice must subside, when he takes into consideration of it would settle into the kernel and increase the difficulty and expense of purchasing the small the weight of it; but this is theory only; I have farms, leveling the ground, clearing away the no confidence in the fact.

ESSEX. swamps, and above all, of procuring manure to enrich this chaos of gravel, clay, sand, mud and GRINDING FEED .- "If a machine was invented other mineral matter, to make it productive.

For the New England Farmer.

MATERIALS FOR ROOFING.

I notice in the Farmer of Oct. 16th a wellwritten article on this subject; also, another in the number dated Dec. 11th, in which are set forth some facts, and in my opinion some errors; and as but few, comparatively, are well acquainted with the article of roofing slate, the public mind might be led astray, from some remarks that have been made in previous articles on this subject, and more especially those in the October number, from the pen of Rusticus. I deem it my duty to at least give my opinion, and the reasons for the same, and let the people judge for themselves.

That slate is the best material for roofing, there is no doubt in my mind, reasons for which

were given by my brother Rusticus.

cessarily be composed of such properties as will quickly as on shelves from five to eight feet from fude, which theory must be carried out, if we ad- the bottom around which a free circulation of mit that the Glen Lake and the Eagle slate are pure air can be had from the latticed windows. the best. I admit, as Rusticus says, that there are slate that are soft, brittle, and do not fade, which cannot be split thin on account of their tweleve hours on suitable shelves, six feet from tenderness. I mean more particularly those he mentions, or the Western Vermont. There are bottom of the same cellar in twenty-four hours. also hard slate, so brittle that they cannot be split thin. A slate need not necessarily be hard or soft to split well. I am more or less acquainted with the slate from more than twenty quarries in the vicinity of Hydeville and Fairhaven, and this fact I have observed among these slate, that both the hard and soft have their good and bad qualities for splitting. Slate, to split well, must not be soft, like elay, or chalk, nor hard and brittle, like cast iron, or glass, but be of pure, fine quality, solid and elastic. Good splitting slate, both hard and soft, will bend apart in splitting some of the largest sizes, some six inches or more.

As to the question whether the color has any thing to do with the strength of slate, I am willing to take Rusticus on his own ground. says the Welsh slates are a standard, and the Glen Lake are equal to them except in color. Why must the Vermont slates fade in order to give them strength, any more than the standard Welsh slates? Slates fade in consequence of the metallic properties of which they are composed. Those composed of iron will fade and rust, while those composed of lead or copper will remain for

ages unchanged.

enty to the foot.

As another instance of the splitting properties post, so as often to save many footsteps. of this stone, blocks from six to ten feet long by two or more in width, can easily be split the of time

thickness of one-fourth of an inch or less. These are softer than those of Glen Lake, the Eagle or the Forest Slate Co.'s, equal in strength and superior in fineness of texture, evenness of surface and duration of color, and in no respect inferior to any Welsh slate. Another Subscriber.

December, 1858.

MILK STAND AND BUTTER-WORKER.

We are permitted again to copy from FLINT's admirable work on "Milch Cows and Dairy Farming," and place before the dairyman or woman a representation of an excellent mode of setting away milk, and also a convenient form of a butter worker.

Milk should never be set on the bottom of a In regard to the strength of slates, Rusticus cellar, if the object is to raise the cream. The sets forth that a slate to have strength must ne- cream will rise in time, but rarely or never so

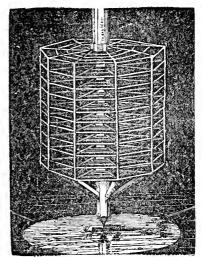


FIG. I .- MILK STAND.

One of the most convenient forms for shelves A good splitting slate that fades is better than in a dairy-room designed for butter-making is a tender slate that will not fade, but a slate that represented in Fig. 1, made of light and seasoned is both strong and never fades is better than wood, in an octagonal form, and capable of holdeither. Such as these are made at a quarry ing one hundred and seventy-six pans of the or-within two miles of Hydeville and Fairhaven de-dinary form and size. It is so simple and easily pots, and within one mile of the quarries of the constructed, and so economizes space, that it Eagle and Forest Slate Co., owned by William may readily be adapted to other and smaller L. Farnam & Son. This quarry yields a variety rooms for a similar purpose. If the dairy-house of colors, the top layers are beautiful, light variegated colors, while those below are dark variegated or clouded purple, and still farther down are taken out by another, and thus keep a constant a fine purple, capable of being split sixty or sev-circulation under the milk-stand, which may be so constructed as to turn easily on the central

The pans designed for milk are generally made more in

be, on the whole, the best and most economical, country where greater care is manifested in the and subject to fewer objections than most other selection of good models than in this vicinity, I materials. Blazed earthen ware is often used, find that a great diversity of opinion prevails upthe chief objection to it being its liability to on these points. oreak, and its weight. It is easily kept clean, however, and is next in value to tin, if not, in-plan is adopted, it having cost the projector no deed, equal to it. A tin skimmer is commonly little head work, he is very reluctant to admit used, somewhat in the form of the bowl of a that the child of his adoption is not pretty near spoon, and pierced with holes, to remove the perfection, at least as good as any of his neighcream. In some sections of the country, a large bors. white clam-shell is very commonly used instead of a skimmer made for the purpose, the chief objection to it being that the cream is not quite so carefully separated from the milk.

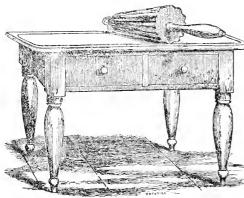


FIG. 2 .- BUTTER WORKER.

The butter-worker with a marble top, is an important addition to the implements of the dairy. milk, without the necessity of bringing the hands in contact with it.

APPLE GROVE FAMILY SCHOOL, Sandwich, Mass.-We feel quite confident that parents who place their children under the charge of Mrs. E. GOULD WING, the Principal of this School, will find every advantage for them in the way of acquiring an education for them that they desire.

EXTRACTS AND REPLIES.

BARNS-CLAPBOARDS OR BATTENS-TIE-UPS.

I am about building a barn, and am puzzled to know whether to clapboard it, to have my tongues shrink from the grooves. I am inclined to try the battens, but am assured that, being applied to the sappy edges of the boards, they prevent them from drying when wet, and thus cause your correspondents, for me?

upon the north side of my barn, from whence the manure will fall into the back part of the cellar, or shall I place it in the south side, where the anamals it would seem might be more comfortable, but the manure more exposed to the weather?

I notice, however, that when any particular A Subscriber.

Danvers, Dec. 28, 1858.

REMARKS .- We should use the battens, but not upon "wany-edged" boards. We have never known the edges of hoards to decay under the batten to make such a course objectionable.

Tie the cattle on the north side, by all means; otherwise you so obstruct the barn cellar as to make it almost valueless for any purpose but that of keeping the manure.

There is no settled opinion yet, as to what the best arrangement for a barn is.

INJURED HORSES.

Will you or any of your subscribers inform me whether a horse receiving a cut by a dull instrument, like the step of a wagon, one of the cords being cut off, will recover so as to be fit for future use; and also, whether a horse, with sprung forward ankles, will recover and if any of you know of any thing to assist nature in the recovery of each.

Taunton, 1859.

REMARKS .- We do not think a horse so in-It effects the complete removal of the butter-|jured will recover so as to be of any service. A horse with "sprung ankles" or knees, is able to perform a good deal of slow work.

SULPHUR FOR CATTLE.

I was gratified to see an article in your paper of Nov. 13th, on the use of sulphur for stock, taken from the Ohio Valley Farmer, which I consider worth to a common farmer what he pays for the paper, (if properly used.) There are many things rendered valueless by misapplication. I use quite a quantity of sulphur every season My way of using sulphur among my stock. among my eattle is as follows: I melt lard with a little sulphur, double a piece of candle wicking a few times, draw it through the melted lard and tie it round my calves' necks, and let them wear it. boards matched or battened with strips some three I give my cattle sulphur once a day for three or four inches wide. Those who have buildings days, then omit three days, so continue to do uncovered with matched boards complain that the til I give it nine days, then omit two weeks. One teaspoonful a dose for a calf, a large spoonful for a full-grown animal. I give it at night on their provender, and keep my stock housed, that it may better operate on the surface of the animal. them to rot. What advice have you, or any of I find by giving it a little more freely for a few weeks, before turning to pasture, it supersedes Furthermore, shall I locate my cattle tie-up the necessity of bleeding, and makes the cattle more healthy during the season.

Deerfield, Mass., 1858. Apollos Clary.

Remarks.—The reference which our correspondent makes to the old practice of bleeding Upon examining several barns in a part of the eattle in the spring, and of cutting off their tails,

at any time when fancy suggests it, affords us the opportunity of asking again, what this blood-letting and mutilation are for? It is said the end like some information, what it is, and the cure for of the animals' tail is soft, and therefore, unhealthy. Is it so? We are inclined to think it will be found diseased when it it is as hard as a rake tail and as unbending as a hoe handle. was made soft and flexible, or it would not have answered the purpose for which it was intended. It is just as sensible to cut off a teat, or an ear, as the tail. If the animal is sick, administer proper remedies, but do not deprive it of those parts of its body which its Creator intended should be used as one of its means of protection, as well as give it those fair proportions which make it pleasant to the eve of man.

So of the barbarous custom of bleeding cattle in the spring. What is it for? Cattle are not usually sick in the spring, that have been well fed and tended during the winter, and if they have not received this treatment, and are thin and lousy and weak, do not deprive them of what little vitality they have by bleeding them! but rather administer in liberal doses, good red-top hay, a few sliced roots daily sprinkled with a quart of sweet corn meal, and let the patient partake freely of good cold water, and bathe frequently in the warm beams of the sun, and out of the wind. Then apply gentle friction frequently with a soft card and brush, and you will soon gallon of blood which you did not take away, has much? been stimulated to action by your generous diet, so that the hair has become sleek, the skin soft and eyes bright, and every part of the animal would say to you if it had a tongue-"I thank you, sir; I thank you, sir; I had no blood to spare, I merely wanted something to eat."

BUCKWHEAT AND CLOVER ON SANDY LAND.

I have a piece of plain land that I wish to break up next spring, as it is infested with that plague, the ox eye daisy. I should like to sow buckwheat. Will it do to sow clover with the buckwheat, harvest the buckwheat, and plow the circumstances in life. The thoughts of the igclover in another year, and repeat? Will it exterminate the daisy? R. Butler.

Spencer, Mass., 1858.

Remarks.—The operation you describe will probably keep the daisy down, so long as you continue to cultivate-but would not exterminate the seed. If you get a good crop of clover, it will be much better to cut it and let it wilt before plowing it under. The principal value which the clover contains, is in its sugar and starch. When it is plowed under in its green state, it slow, and all that is valuable in it secured to the each from his own stand-point, appearing in different form and arrayed in different colors. To this soil.

FATAL DISEASE AMONG CATTLE.

As I have a disease amongst my stock, I would it. I have lost four cows since they came up to hay; the ones that have died all ran together in the fall feed, in which there was some swamp. Those that did not run in the same mowing, are now well. In the first place, their bags are hot and their milk dries up; they are dumpish, run at the eyes and nose a corrupted matter of a vellowish color; their eyes turn white when they are first taken, but before they die they are bloodshotten. They live three or four days, and sometimes a week, from the time they are taken, and then die. The same disease is amongst other stock in the neighborhood; there has been fifteen head of cattle that have died near by me within a short time of this disease.

Windham, Dec., 1858. Benjamin S. Bemis.

Remarks.—We cannot tell from the symptoms described, what the disease is that is taking off the cattle at such a rate. Perhaps some of our readers may recognize it, and be able to recommend a remedy.

SOUTH DOWN SHEEP.

Mr. E. K. Danforth, of South Newberry, Vt., wants to purchase some pure South Down Sheep.

FLOORS OF HORSE STABLES.

Will you, Mr. Editor, or some of your correspondents, inform me whether the floor of a horse become sensible of a rapid improvement. That stable should be level or incline? If incline, how

For the New England Farmer.

THE WORLD OF THOUGHT.

The intelligence of man, which forms his crowning excellence, is an emanation from the Divine Mind, and thus of characteristic elements and always active. Ever during his conscious existence are its powers employed in thought; thought succeeding thought without perceivable connection, yet each suggested by its relation to the one preceding. The trains of ideas or thought depend much on the culture and development of mind, with its habits and peculiarities, and norant man are grovelling; tending to animalism. Nature, in all her glorious forms, he admires only as ministering to sensual wants. Thought is limited to the narrow circuit which forms his sphere in life. But the educated mind. on thought's airy wings, finds throughout Nature's limitless domain, beauty and happiness.

No two minds are alike constituted, nor therefore of the same thoughts. But this difference, with the degrees of mental culture, the influence of various occupations and circumstances in life, forms a world-wide diversity. A case of murder presented to a lawyer, physician, and clergyman, goes into rapid fermentation and decomposition, would suggest to each a train of thought in harand the sugar and starch are thrown off in the mony with his profession. And any subject, preform of gas. But if wilted, the process will be sented to a number of persons, will be viewed by fact may be traced the cause of many conten-

The mind being ever occupied, considers an infinite number of subjects, flowing incessantly through its avenues of communication with the external world. It may detain, and concentrate its powers on one, or allow all to float on, finding its pleasures in novelty. Looking inward it may gaze on memory's stores, or on wings of imagination soar out in the boundless future. muen or the lan-made some to make, the mast flavor so fine that we obtained of Mr. Parker the Youth lives in the future, old age in the past, and all in both.

Turning our eyes toward that untried world, ness. The gentle breeze wafts to us pleasing odors. The star of hope sheds kindly beams on our pathway, and we fondly dream it winds only murmuring rivulets. Perchance memory comes, gently takes us by the hand and leads us along down the past. We review the scenes of childhood, visit our early home, the favorite haunts of youth, and gaze once more on the happy faces of those we loved. Our first great grief comes fresh before us, as she leads us to the silent room, and we gaze on a loved one struggling in death. We again see the cold form shrouded for the grave-take the last fond look-and follow with breaking heart to its last resting-place.

Though the mind meditates on the past and worthy the attention of farmers." present; speculates on the future; considers the evil and the good; things earthly and things heavenly; is absorbed in its own passions or emotions; or dwells much in the world without; yet man has the power of subjecting his thoughts readers, inform me what is the comparative value to his will. Let him, then, beware! For, "as a of roots for cattle and hogs? man thinketh, so is he."

Wayland, Dec. 20.

L. H. SHERMAN.

NET WEIGHT OF HOGS.

At this season the following table for determining the net by the gross weight of hogs, may be useful to dealers in pork. It is based upon the Kentucky rule, that is, for 200 lbs. gross nett deduct 26 lbs.; for the second 100 lbs. subtract $12\frac{1}{2}$ lbs., and for the third 100 lbs. deduct $6\frac{1}{2}$ lbs. All over 300 lbs. is calculated as net:

100 gross will net	200
10579	205167
11083	210
11588	215
12092	220181
12596	225
130101	230
135	235
140110	210
145114	245
150118	250214
155122	255
160127	260
165131	265
170136	270232
175140	277
180143	280
185149	285246
190153	290251
195	295

Dr. E. Holmes, Editor of the Maine Farmer, has been elected President of the Maine Pomological and Horticultural Society, and D. A. Fairbanks, Augusta, Secretary; and Russell Eaton, Publisher of the Farmer, Augusta, Treasurer and Librarian.

TO MAKE GOOD WINTER BUTTER.

At the annual meeting of the Jefferson County Agricultural Society, at Watertown, on the 14th of January, a tub of superior winter-made butter was exhibited by Mr. Daniel Parker, of that town, for which a premium was awarded by the discretionary committee. "The butter," says the Northern Journal, "was quite as yellow as much of the fall-made sent to market, and the mode of manufacture. He states that as soon as he has finished milking, the pails of milk are set we are dazzled by visions of beauty and happi-into kettles of boiling water, where they are allowed to remain thirty minutes, then the milk is strained into pans and allowed to stand until the cream is ready to be taken off, which will depend through flowery meads, shady groves, and by upou the temperature of the room in which it is set. Before churning, the cream must be kept in a warm room at least twelve hours; then it will require churning less than an hour. He washes his butter immediately after taking it out of the churn, and at the same time salts it. His cows had been fed on clover hay, without grain or roots, for six weeks previous to the time of making this sample. Butter made in this way is perfectly sweet, of a good color, and will bring from two to four cents per pound more in market, than that manufactured in the ordinary way. It is

COMPARATIVE VALUE OF ROOTS.

Mr. Editor:-Will you, or some of your

There are many farmers that practice feeding roots that have never made any accurate estimate of their value, compared with different kinds

of grain, hay, &c.

In conversation with a gentleman upon this subject he said, that he had practiced feeding his horse with eight quarts of oats and eight quarts of carrots a day, and that he performed more labor and was in better condition than when fed sixteen quarts of oats a day. In this case a bushel of carrots is equal in value to a bushel

What is the value of ruta bagas, carrots, beets, parsnips and potatoes, compared with rye, oats, peas, barley, buckwheat, corn and hay, when fed

to cattle and hogs?

I want to investigate this subject, and take this course, hoping to receive information from those who have made accurate experiments; and any such information will be gratefully received by a Subscriber.

Fort Fairfield, June 23, 1858.

Note.—We have several times given statements of chemists and others, of their experiments to ascertain the comparative value of the different roots and other substances used for fodder—good hay being the standard.

In No. 21, Vol. 24, we published the following editorial upon this subject, which may give some light to our friend by way of an answer to his

queries:

It is a great object to the farmers of Maine to raise a supply of the best kinds of fodder for their stock during the winter. Hay, we all know,

is the great dependence—the staple material for "I am all for cheap luxuries, even for animals; this purpose, but there are many other crops now all animals have a passion for scratchwhich can be raised to advantage among us, and ing their back bones; they break down your which are very valuable for furnishing food to gates and palings to effect this. Look! there is stock, and thereby saving hay.

ard.

Experiments, and close and careful comparison fields. of the results of many trials, have given the following as the comparative difference between the articles mentioned and good hay. We have published these results before, but we now put them in tabular form, so as to give the reader an easier mode of comparing them.

100 pounds of hay are equal to

275 pounds of green Indian corn, 442 pounds of rye straw,

164 pounds of oat straw,

153 pounds of pea straw, 201 pounds of raw potatoes, 175 pounds of boiled potatoes

339 pounds of mangel wurtzel,

504 pounds of turnips, 54 pounds of rye,

46 pounds of wheat, 59 pounds of oats, 45 pounds of peas or beans, 64 pounds of buckwheat,

57 pounds of Indian corn,

68 pounds of acorns,

105 pounds of wheat bran,

100 pounds of rye bran, 167 pounds of wheat, pea, and out chaff, 179 pounds of rye and barley.

articles which you may raise. For instance, if you Acts of Parliament in relation to the subject. have 504 lbs. of turnips, they will give as much The conservatism of England, in the view of an or in other words, it will take 5 lbs. of turnips to American, is striking. She never takes a step be equal to 1 lb. of hay.

An ox, it is said, requires 2 per cent. of hay per day if he does not work, and 2½ per cent. if he works. Suppose, therefore, you have an ex to feed him in part with turnips. If you give are emphatically real estate there. him 15 lbs. of hay, how many pounds of turnips must you give him to make up the supply? Ans. 75 lbs., which, at 60 lbs. to the bushel, will be 5 pecks.

half a pound of Indian corn is equal to a pound of improving the condition of the people, of inof hay. If, therefore, you give the same ox but 15 lbs. of hay, how much Indian eorn must he have to supply the 15 lbs.? Ans. A little over 8½ lbs. bushel, it will take 5 quarts and a third.

Allowing the estimates in the table to be correct, they will be a convenient guide to farmers in feeding cattle, &c, on other articles, in order to save their hay.

A milch cow is said to require 3 per cent. of her weight per day. A sheep, full grown, 3½ per shall be compelled to contribute to present imcent .- Maine Farmer.

Rev. Sidney Smith, that when on his farm, each cow and calf, and horse and pig, were in turn visited, and fed and patted, and all seemed to ervliving being around him. He used to say, - Government has itself furnished funds, by way

my universal scratching, a sharp-edged pole, rest-In order to ascertain the real value of these ing on a high and low post, adapted to every crops for the purpose above named, it will be height, from a horse to a lamb. Even the Edinnecessary to compare the nutritive properties of burgh Reviewer can take his turn; you have no the several articles with good hay as the stand-idea how popular it is. I have not had a gate broken since I put it up. I have it in all my

LEGISLATION---LAND DRAINAGE COMPANIES.

BY HENRY F. FRENCH.

[There are few subjects in which a large number of farmers can be more interested, in all parts of New England, at least, than in that of Drainage. There are comparatively few farms but need it in one place or another, and there are few other things that have led to so much misunderstanding and litigation, and that have destroyed the pleasant social relations in neighborhoods, as flowages and drains.

We have been permitted to read some chapters of a work on the subject designated in the title of this article, in advance of its publication, and do not believe we can better meet the wants of the general reader, than by transferring some portions of the chapter on "Legislation" in relation to crainage and flowages, and of "Land Draining Companies," to our columns.

We understand the work is to be published in the course of two or three months, by the enterprising Agricultural book publishers, A. O. MOORE & Co., of New York]

Nothing more clearly shows the universal in-From this "bird's-eye view," it will be easy to terest and confidence of the people of Great Britcalculate the fodder value of any of the above ain in the operation of land drainage, than the till she is sure she is right. Justly proud of her position among the nations, she deems charge an unsafe experiment, and what has been, much sufer that weighs 1500 lbs., he will require 30 lbs. of than what might be. Vested rights are sacred in hay per day if he does not work. But you wish England, and especially rights in lands, which

Such are the sentiments of the people, and such the sentiments of their representatives and exponents, the Lords and Commons. Yet Eng-Again, according to the table, a little more than land has been so impressed with the importance creasing the wealth of the nation, of enriching both tenant and landlord by draining the land, Allowing corn to weigh 50 lbs. per that the history of her legislation in aid of such operations, affords a lesson of progress even to fast young America. Powers have been granted, by which encumbered estates may be charged with the expenses of drainage, so that remainder-men and reversioners, without their consent, provements, so that careless or obstinate adjacent proprietors shall be compelled to keep open A LUXURY FOR ANIMALS.—It is related of their ditches, for outfalls to their neighbors' drains, so that mill-dams and other obstructions to the natural flow of the water, may be removed we come him; he cared for the comforts of ev- for the benefit of agriculture, and finally, the of loans, of millions of pounds sterling, in aid of vert the rich and slimy sediment of the poud, improvements of this character.

usually compelled to yield to the good of the floods in midsummer, to overflow the meadows whole, and where selfishness and obstinacy do and corn-fields of the farmer on the intervales not long stand in the pathway of progress, ob- and bottom lands below. structing manifest improvement in the condition of the people, we are yet far behind England, in tack upon the rights of mill-owners, or ask them legal facilities for promoting the improvement to sacrifice their interests to those of agriculture, of land-culture. This is because the attention of it surely is proper to call attention to the injury the public has not been particularly called to the which the productive capacity of the soil is suf-

such compensation as a committee or jury shall no more cursed with a flood?

are hundreds and often thousands of acres of ture may grant the right to flow lands against fands, that might be most productive to the far- the will of the owner, to promote manufactures, mer, overflowed half the year with water, to drive the same legislature may surely grant the right. some old saw-mill or grist-mill, or cotton-mill, upon proper occasions, to remove dams and othwhich has not made a dividend or paid expenses er obstructions to our streams, to promote agrifor a quarter of a century. The whole water-culture. The rights of mill-owners are no more power, which perhaps ruins for cultivation a sacred than those of land-owners, and the interthousand acres of fertile land, and divides and ests of manufactures are, surely, no more imporbreaks up farms by creating little creeks and tant than those of agriculture. swamps throughout all the neighboring valleys, We would not advocate much interference with is not worth, and would not be assessed by im-private rights. In some of the States no special partial men, at one thousand dollars. Yet, though privileges have been conferred upon water-power there is power to take the farmer's land for the companies. They have been left to procure their benefit of manufacturers, there is no power to rights of flowage, by private contract with the take down the company's dam for the benefit of land-owners, and in such States, probably the agriculture. An old saw-mill which can only run legislatures would be as slow to interfere with a few days in a spring freshet, often swamps a rights of flowage, as with other rights. Yet half-township of land, because somebody's great there are cases where for the preservation of the grandfather had a prescriptive right to flow, when health of the community and for general conlands were of no value, and saw-mills were a venience, governments have every where exerpublic blessing.

knowledge, where the very land overflowed and To preserve the public health, we abate as nuisruined by some incorporated company, would, if ances, by process of law, slaughter-houses and allowed to produce its natural growth of timber other establishments offensive to health and comcarried by the water-power.

Not satisfied with obstructing the streams in dred miles inland, as reservoirs, to keep back taken like that of individuals. water for the use of the mills in the summer off when a dog-day climate is just ready to con-expenses of such fences. We assess bachelors

into pestilential vapors. These waters, too, con-In America, where private individual right is trolled by the mill-owners, are thus let down in

Now while we would never advocate any atfering, by the flooding of our best tracts in sec-Manufacturing corporations are created by tions of country where land is most valuable. special acts of legislation. In many States, rights Could not mill-owners, in many instances, adopt to flow and ruin by inundation most valuable steam instead of water-power, and becoming lands along the course of rivers, and by the land-draining companies instead of land-drownbanks of ponds and lakes, to aid the water-power ing companies, at least let Nature have free course of mills, are granted to companies, and the land-with her gently flowing rivers, and allow the owner is compelled to part with his meadows for promise to be fulfilled, that the earth should be

We would ask for the land-owner, simply equal-In almost every town in New England, there ity of rights with the mill-owner. If a legisla-

cised the power of interfering with private prop-There are numerous cases within our own erty, and limiting the control of the owners. and wood, furnish ten times the fuel necessary fort, and we provide by compulsory assessments to supply steam-engines to propel the machinery upon land-owners, for sewerage, for sidewalks and the like, in our cities.

Everywhere for the public good, we take pritheir course, the larger companies are of late vate property for highways, upon just compenmaking use of the interior lakes, fifty or a hun-sation, and the property of corporations is thus

Again, we compel adjacent owners to fence droughts. There are thousands of acres of land their lands and maintain their proportion of didrowned and rendered worse than useless, for vision fences of the legal height, and we elect the water is kept up till midsummer, and drawn fence-viewers with power to adjust equitably the

and maidens, in most States, for the construction nearly every one of the strata composing the of school-houses and the education of the chil-earth's crust. This fact proves another, that as welfare.

"THE SALT, IF YOU PLEASE."

Everybody has a partiality for dinner, and one of the most frequent expressions at a dinner-table der that our readers may know something of the substance they are using, we will tell them a few facts about salt. Salt is a chemical compound of twenty-three parts by weight of a beautifully silver white but soft metal, called sodium, discovered by Sir H. Davy, in 1807, and thirty-five parts of a pungent, yellowish green gas, called chlorine, discovered by Scheele, in 1774—these two combined form this, the most widely diffused and useful of any compound in the world. It is found in the sea, and in the rocks, from which our principal supply comes. The most wonderful deposits are in Poland and Hungary, where it is quarried like a rock, one of the Polish mines however, salt rocks taking their place in regular ful deposits are in Poland and Hungary, where it is quarried like a rock, one of the Polish mines having been worked since 1251. These Polish salt mines have heard the groan of many a poor captive, and have seen the last agonies of many a brave man, for until lately, they were worked entirely by the State prisoners of Austria, Russia or Poland, whichever happened to be in power at the time; and once the offender, or fancied hindrance to some other person's advancement, was let down into this subterranean prison, he never saw the light of day again. So salt has its history as well as science. Other large deposits are found in Cheshire, England, where the water is forced down by pipes into the salt. the water is forced down by pipes into the salt. American. and is again pumped up as brine, which is evaporated and the salt obtained. To such an extent has this been carried that one town in the "salt the ground, to fill up the cavity left by the extri- almost miraculous to a spectator standing by the cated salt.

nesia in every form.

"But how did this salt come into the rock?"

dren of others, and in various ways compel each lakes left in the hollows of the rocks by the remember of society to contribute to the common cedence of the sea, the sea has through all the geologic ages been as salt as it is to-day. Let us take the Great Salt Lake as an illustration, it being the largest salt lake in the world, but by no means the only one, as such inland masses of saline water are found over the whole earth, but as ours is the greatest in extent, it will form the is the one which forms our caption; and in or-der that our readers may know something of the 4,200 feet above the sea, on the Rocky Moun-

THE NEW YORK BANK TELLERS.

There is nothing in bank history more remarkcountry," as it is called, has scarcely an apright able than the unfrequent and comparatively trinouse in it, all the foundations having sunk with fling loss by forged signatures. It would seem counter of one of our active city banks, to wit-In Virginia there are beds of salt, and the ness the rapidity with which the Teller pays Salmon Mountains, in Oregon, are capable of af-checks (often at the rate of three in a minute,) fording large quantities of the same material, whilst at the same time he is subjected to per-The brine springs of Salina and Syraeuse are betting the subject of the syrings of Salina and Syraeuse are betting the subject of the syring in Chic.

The brine springs of Salina and Syraeuse are petual interruptions from within and without. At the end of the day, he has paid from four to brine, one bushel of salt is obtained. There are also extensive salt springs in Chic.

The brine million of dollars—a large proportion to strangis pumped up from wells made in the rock, and ers. In the fifty-three city banks, during the into which it flows and runs into boilers. These same six hours, there have been paid from fifteen boilers are large iron kettles set in brickwork, to twenty thousand checks, covering thirty miland when fires are lighted under them, the brine lions of dollars, and not one forged signature! is quickly evaporated. The moment the brine begins to boil, it becomes turbid, from the compounds of lime that it contains, and which are channel has reached the predigious aggregate of application and the production of the contains and which are channel has reached the predigious aggregate of applications. soluble in cold, but not in hot water; these first seven thousand millions of dollars. Another sediments are taken out with ladles called "bit-large amount, not represented in the exchanges, turn ladles," and the salt being next deposited is paid over the counters, making a grand total from the brine, is carried away to drain and dry. of probably eight thousand millions in three hun-The remaining liquid contains a great quantity of magnesia in various forms, and gives it the nity is startled by an announcement that a forged name of "bittern," from the taste peculiar to mag-check of any importance has slipped through the hands of the Paying Teller in our city banks!

It is doubtless to the terrors of the law, partly, is the natural query, and the wonder seems great-that banks are indebted for this fortunate immuer when we recollect that salt-beds are found in nity. But these are operations mostly at a single instance of time-when the check is present-inquiring readers. I agree with your corresponed. That passed, the forger is comparatively dent, upon the evanescent properties of guano. safe. He may set rewards and telegraphs at de- I presume the gentleman's dinner or supper fiance. It is, therefore, the skill and discernment becomes evanescent in the course of a few hours; of the Teller, first and last, that keeps the forger at least, should think it might, unless he should at a respectful distance—skill not only in detect-consume a little beef, or the Yankee dish of ing false signatures, but in reading men at sight pork and beans there ith. by the most obscure of all characters, written upon the manner, and covered by practiced dis- is to raise corn, small grains and grass, in rotasemblance, more quickly than you would Roman tion; and land well manured after corn, and the capitals. The value to the bank of this detectorop of grain at seeding, generally produces two tive faculty can hardly be exaggerated.

The Paying Tellers of New York disburse put in corn, &c. daily near twenty-five millions, and in the course of a year eight or ten thousand millions of dol- would be like making water run up hill; one lars; and the aggregate of all losses incurred could grow the stalk, but the rounded and wellthrough them by mistake or by abuse of trust, filled ear of golden corn, would come up missing is not, at the highest, as much perhaps, as the like Paddy's flea.
one-ten-thousandth part of one per cent.! This It is considered, by many farmers, the surest is strong testimony in favor of their general way to put money in pocket, to consume on the fidelity as a class, in view of the extensive pow-farm all the hay and coarse fodder, and much of ers with which they are entrusted, and especially, the grain, making the marketable products of the in view of the power of certification, which in farm consist for the most part, of beef, pork and the manner of its use up to the present day, has dairy products. been without any other protection than their own sense of propriety and honor. - Gibbon's "Banks which to secure the manures, and muck, and of New York."

For the New England Farmer.

ANIMAL MANURES, &c.

Mr. Editor:—Being one of your less scientific, but inquiring readers, I am disposed to inquire further of your correspondent, who gives us "Corn Again," in your weekly of Nov. 27.

I have fallen into the error, which I apprehend is quite a common one, of believing that animal manures do, in New England especially, form an important basis of all farm improvement.

The two first gardeners were placed, no doubt, in far different circumstances, than any of your "inquiring" farmers find themselves, as regards tertility of soil, and other agricultural requisites.

Even in those days, best suited to your correspondent's theory, animals were by no means overlooked; being created prior to man, and consequently, considered necessary to complete

the harmony of a perfect world. As to the Chinese and Japanese, I have no desire to pattern especially after their mode of agriculture, but think your correspondent will find

them placing a higher value on animal manures than he would have us infer.

Spade husbandry, at the present ratio of labor, for farmers who have notes to meet, and families to maintain and educate, as a general method, would be more expensive than profitable.

I have found a yoke of oxen and an Eagle plow, or two yokes and the Universal sod and lighted with gas. The extent of this gentleman's subsoil, equal in amount and thoroughness of operations may be judged by the fact that he has labor to as many Irishmen with spades, as would 1,800 acres in green crops, and 4,000 in grain, have eaten the oxen at one day's meals, and con- with about 4,000 head of cattle. siderable corn bread beside.

Instead of animal manures being to the soil as the condiments to our food, I have been educated to believe them the food of the plant. Indeed, every corn or oat or grass crop I raise so John Huyler, of New Jersey, Richard Mott, of Present Lawrence II. proclaims them, and I believe the plant as good Ohio, James B. Foley, of Indiana, James L. Gilan analyst of the condition of soil necessary to its lis, of Pennsylvania, R. P. Tripp, of Georgia, W. growth, as many of your more scientific, but less H. Keim, of Pennsylvania.

good erops of grass, and then is manured and

To grow good corn, without animal manures,

This system, with care in providing cellars in loam to absorb the liquids, with now and then a load of muck in the hog-yard, "for the scavenger of the family," gives more corn, more rye or grass, and more money, with which to keep the wheels greased, and pay for the N. E. Farmer, than the opposite,

With most of us, inquiring farmers, a full belly makes a strong back, even if the food be somewhat of such matters as corned beef and pork

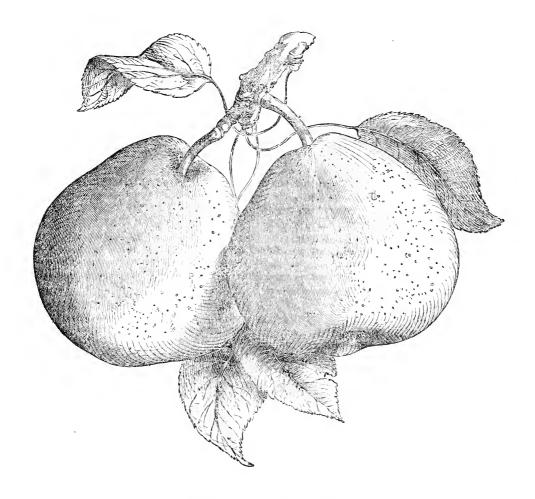
and beans.

I venture to assert that many of the most potent charms of farm life are found in good crops, well filled barns, plenty of cattle, horses, sheep and swine, sleek and contented, to devour the contents of the same.

I may add, that many farmers, possessors of such charms, and taking pleasures from these fertile sources-advocates of thorough culture, liberal application of manures, a generous but thrifty policy everywhere upon the farm, pay for and highly appreciate the Farmer, and are known, by force of introduction, as your less scientific but inquiring readers. A FARMER.

Vermont, Jan. 1, 1859.

GIGANTIC HARVEST HOME.—The Irish papers contain an account of the gigantic harvest home on the estate of Mr. Pollock, in the county of Galway. About 1,400 persons (only one-half of his servants,) were liberally entertained in the Home Farm Stead at Lismay. The roof covers nearly two acres of land, and the building was



THE GRAY DOYENNE PEAR.

and St. Michael Dore.

eral appearance, except that its skin is covered keep many weeks." all over with a fine, lively cinnamon russet. It is a beautiful pear, usually keeps a little longer, tention. Shoots upright, grayish brown.

ly covered with smooth cinnamon russet, (rarely cious, untrodden mud.

This fine pear is known in different localities a little ruddy next the sun.) Stalk half to threeby several different names, such as the Gray fourths of an inch long, curved, set in a narrow, Butter Pear, the Doyenne Boussouck, Gray Deans rather deep and abrupt cavity. Caylx small, closed, and placed in a smooth, shallow basin. Downing says, "The Gray Doyenne strongly Flesh white, fine-grained, very buttery, melting, resembles the White Doyenne in flavor and gen-rich, and delicious. Middle of October, and will

and is considered by many rather the finer of Observer contains an account of some brickmak-BRICKMAKING BY ELEPHANTS. - The Cevlon the two, but in the valley of the Hudson, where ing works recently visited by Sir Henry Ward. both are remarkably fine, we do not perceive its The works, which turn out about 20,000 bricks a superiority. It richly deserves more general atday, are only six miles from Colombo. The clay tention. Shoots upright, grayish brown.

for brickmaking is prepared by elephants. The Fruit of medium size, obovate, but usually a litto shirk their work by endeavoring to put their tle rounder than the White Doyenne. Skin whol- feet in old footprints, instead of in the soft, tena-

A NEW MOVEMENT.

OLD CHESHIRE COUNTY AWAKE.

The Cheshire County Agricultural Society of New Hampshire, at its last annual meeting, some months since, then instituted, and has already partially carried into effect, a movement which is destined in our opinion to have an important influence upon our agricultural interests. stead of continuing to exhaust its treasury, annually, in paying premiums, and in the other expenses incident to an autumnal show, they voted to hold meetings in various parts of the county, and to discuss some of the topics supposed to be of paramount importance in exciting better systems in practical agriculture, and to bring more profitable results from its labor.

In accordance with this plan, the first of the series of these meetings took place at the beautiful town of Winchester, on Wednesday, the 29th of December. The day was a severe one, the wind and snow blowing furiously, and the cold intense. But this did not deter the zealous from gathering, and the afternoon was spent in an earnest discussion upon the subject of Soils, their reclamation, and adaptation to particular crops. The meeting was addressed for an hour by the editor of the Farmer, then by Benjamin READ, Esq., of Swanzey, the presiding officer of the meeting, by Dea. BUFFUM, of Winchester, by Capt. Adams, of Fitzwilliam, and others. After an adjournment of two hours for tea, a numerous audience of both sexes assembled and listened to a lecture upon Agriculture as an Avocation. After the lecture, the President called upon several persons to speak, and an interesting discussion was continued until nine o'clock. A vote was passed to form a Farmers' Club in respected is to bind a withe of straw about the Winehester, and the initiatory steps taken to es-|trunk, in token of ownership. tablish it.

The second meeting of the series was holden at Troy on Friday, Jan. 7th, and was organized by choosing Benjamin Reed, Esq., of Swanzey, qualities of mind and heart which delight in beau-President, and Dr. CAVERLY, of Troy, Secretary. tiful objects, which are susceptible of moral and The weather was again unpropitious; it being religious growth. And as home is the cradle of all virtues, and as external adornments, especially those natural ones which lie within the and a dense fog covering the face of the earth reach of every citizen of our favored land, such in the evening. But notwithstanding this, a as trees, shrubs, flowers, tasteful lawns, arbors, goodly number was present, and the exercises and trellises, are among the strongest means of commenced at a little past two, P. M., and con- making home attractive, it should be the desire tinued until five. The subject, Manures, was and the labor of all good men to diffuse throughout the community a sentiment of regard for rudiscussed with energy, and with an eminently ral works and pastimes. To do this, lies within practical bearing, by Messrs. Brown and Rey-the power of no one man or woman; all should NOLDS, of Concord, Mass., PARKER, KENDALL make it their object, and he who labors most will and Adams, of Fitzwilliam, and WRIGHT and have the satisfaction of knowing that he has Boyce, of Troy. In the early part of the evening a spirited discussion took place man the ing, a spirited discussion took place upon the Culture of Indian Corn-its value as a crop, and work willingly, or as a machine; he may work the best modes of cultivating it. A variety of top-ics were incidentally introduced in this discus-knowledge of the great principles which govern

sion. At eight o'elock, a practical, sound in doctrine, and finely written lecture upon Farm Management, was delivered by Dr. Joseph Reynolds, of Concord, Mass.

By this time, a new spirit of inquiry had been awakened, and a succession of questions elicited replies until nearly ten o'elock. It is only possible that any person attending that meeting, left it without resolving to seek new information to aid him in the pursuit of his calling, and to conduct his agricultural labors in a more intelligent and systematic manner.

This movement, projected with admirable foresight and wisdom by the Cheshire Society, has already excited an interest and made an impression that will pervade the county in producing more profitable practices, in increasing the amount of their crops, and in swelling the aggregate sums of value on the assessor's books.

The next meeting is to be holden at one of the villages in Marlborough, near Keene, on Friday, Jan. 21st, at ten o'elock, A. M. The subjeets to be discussed are, The Grasses, Grains and Stock. The meeting will undoubtedly be one of much interest.

"FRUIT TREES ON THE ROADSIDE."

Writing of trees reminds me of another peculiarity of this country, from which "Young America" might learn an important lesson. Along the public roads, for hundreds of miles, are rows of fruit trees, unprotected by ditch, hedge or fence; yet the ripe fruit may hang in profusion on their boughs, or cover the very roadside, and not an apple or pear will be purloined, not a cherry twig will be broken. Frequently some poor man buys the fruit of one or more trees for a season. All he must do to have it sacredly

It is not enough that we have plenty to eat and drink, fine elothing, comfortable houses, and productive farms. Every man owes it to himself, his family, his country, to cultivate all those

Man must work, he must labor. But he may

the development of the soil, is always slavish. Is there the grand design of agricultural schools, to lead the tiller of the soil to take an intelligent interest in all the wonderful processes of nature which continually pass before his eyes, in order that, with his powers of observation thus quickened, all the better faculties of his mind aroused and exercised, he may make every hour of labor attractive, and add new grace, refinement and happiness to his home?

The nation must look for true wisdom and strength to the education which controls and shapes the home policy of the family circle. Let us then define patriotism, true patriotism, to consist in love of home. There can be no love of home; and on the contrary, show me a man who loves to adorn his home with those peaceful and refined charms which God designed it should possess, and I can show you a good citizen, an honest patriot, and a true man."—tiov. Wright's Letter from Germany to Ohio Farmer.

THE PHILOSOPHY OF RAIN.

To understand the philosophy of this beautiful and often sublime phenomenon, so often witnessed since the creation of the world, and essential to the very existence of plants and animals, a few facts derived from observation and a long train of experiments must be remembered:

1. Were the atmosphere everywhere, at all times, at a uniform temperature, we should never have rain, or hail, or snow. The water absorbed by it in evaporation from the sea and the earth's surface would descend in an imperceptible vapor, or cease to be absorbed by the air when it was once fully saturated.

2. The absorbing power of the atmosphere, and consequently its capability to retain humidity is proportionably greater in warm than in cold air

3. The air near the surface of the earth is warmer than it is in the region of the clouds. The higher we ascend from the earth, the colder do we find the atmosphere. Hence the perpetual snow on very high mountains in the hotest climate. Now when from continued evaporation, the air is highly saturated with vapor, though it be invisible and the sky cloudless, if its temperature is suddenly reduced by cold currents descending from above, or rushing from a higher to a lower latitude, its capacity to retain moisture is diminished, clouds are formed, and the result is rain. Air condenses as it cools, and like a sponge filled with water and compressed, pours out the water which its diminished capacity cannot hold. How singular yet how simple, the philosophy of being of the same opinion in regard to the matrain! What but Omniscence could have devised such an admirable arrangement for watering the and stakes will last longer than those set in an earth?—Scientific Journal.

invented a means of applying steam power to the traction of sleighs, by which journeys can be made with rapidity over the frozen snows and the steppes covered with ice, which abound in the Russian dominions. Such an invention, it seems bound lakes. - Scientific American.

THERE'S WORK ENOUGH TO DO.

The black-bird early leaves its rest To meet the smiling morn, And gather fragments for its nest From upland, wood and lawn. The busy bee that wings its way 'Mid sweets of varied bue. And every flower would seem to say-"There's work enough to do."

The cowslip and the spreading vine, The daisy in the grass, The snowdrop and the eglantine, Preach sermons as we pass; The ant, within its cavern deep, Would bid us labor too. And writes upon his tiny heap-"There's work enough to do."

The planets, at their Maker's will, Move onward in their cars, For Nature's wheel is never still-Progressive as the stars! The leaves that flutter in the air, And summer's breezes woo, One sofemn truth to man declare-"There's work enough to do."

Who then can sleep when all around Is active, fresh and free! Shall man-ereation's lord-be found Less busy than the bee? Our courts and alleys are the field, If men would search them through, That best the sweets of labor yield, And "work enough to do."

To have a heart for those who weep, The sottish drunkard win: To rescue all the children, deep In ignorance and sin; To help the poor, the hungry feed, To give him coat and shoe; To see that all can write and read-"Is work enough to do."

The time is short-the world is wide, And much has to be done : This wond'rous earth, and all its pride, Will vanish with the sun! The moments fly on lightning's wings, And life's uncertain too: We've none to waste on toolish things-"There's work enough to do." Christian Witness.

For the New England Farmer.

INVERTED POSTS.

Having noticed an article on this subject written by Zina Round, of Nevada, Wis., and inserted in the N. E Farmer, Aug. 21st, 1858, and ter, I would give a few reasons why inverted posts upright manner, and why wood will season better set up top end down, than in any other way.

In order to come at this, we must understand STEAM SLEIGH .- A Polish exile in Siberia has a little of the nature of the growth of plants, trees, &c. The plant or tree consists of roots, which are located in the soil, leaves which are spread in the air, and a stem or trunk and limbs which connects the roots and leaves. This stem is intercepted with sap vessels or tubes which to us, might be valuable in this country for win- extend from the end of the roots to the surface ter traveling over our broad prairies and ice of the leaves, thus affording a passage for the sap, a circulation of the moisture taken in by the roots from the soil to sustain the growth of the ing farm owned by a non-resident. His crops on towards the leaves, where it is evaporated. Now one of these causes is the action of these sap vessels or fibres of wood which serve as valves to force the sap upward similar to those in animals in the blood vessels, (as the vegetable and animal kingdom are similar.) This being the case, which is, undoubtedly, in my mind, and which can be proved by experimenting on trees in the sap-running season, it accounts for posts and stakes lasting longer set in an inverted matter, than those set in an upright manner, and also for wood seasoning better set up, top end down; for the action of the sap vessels (while set in this manner) aided by the attraction of gravitation, drains the timber of all its moisture, it becomes seasoned, and will not decay, while those set in an upright manner will retain their moisture, fermentation takes place, R. A. Damon. hence decay.

Ripton, It.

THE FARM OF ELIJAH WOOD, JR.

IN CONCORD, MASS.

He who manages a farm profitably, setting a good example to his neighbors, and to the stranger who passes by his gates, is a public benefactor. He may make two blades of grass grow where only one grew before, but if it is done at a loss, he must eventually starve, and he is not a public benefactor, nor his example a good one.

He does not manage a farm profitably who increases the fertility of his acres, enlarges his barns, multiplies his kine, and makes his trees drop fatness, if in so doing he starves his soul, breaks down his health, and brings up his family about him in a state of servitude that is only one degree from intolerable.

Such a course is extravagant, unreasonable, and will be ruinous in the end, no matter how many shares may be accumulated in the bank, mill or railroad, how many fair acres teem with fertility, or how many scores of cattle and sheep may graze upon the hills which the owner calls his own. There is no real profit in it all.

The farm of which we are speaking has not been managed in this way,—for while the stock has increased, and the rough places become smooth, and while luxuriant grain and corn, and grass fields, have yielded to him their rich and varied crops, and rivers of milk have been flowing from his healthy and well-tended cows, his own soul has expanded and kept progress with the material things about him. The farmers' club, the lyceum, the church, the school, all the social relations of life, have been cherished and cultivated as well as the farm, -and this is what we call profitable cultivation. For what profiteth it a man if he gain a whole farm, and lose himself!

principally from its own resources, and an adjoin-lare so safe and lucrative as these?

plant, and from various causes it is drawn up these, last season, were 20 acres in potatoes, 13 acres of which were planted in swamp land, in process of reclamation, 20 acres in corn, 4 in southern corn for fodder, 11 acres in oats, 11 in rye, and cut 160 tons of hay! He is wintering 90 head of cattle, principally milch cows, and sold, between the first of October and the first of April of last year, one thousand, nine hundred and seventy-five dollars worth of milk, and for the then ensuing six months, expected to sell something over one thousand dollars worth more. He thinks the two farms capable of supplying \$5,000 worth of milk annually. But he sells the milk as a matter of convenience, and not because he thinks that the most profitable way of disposing

> Within a year he has built more than 150 rods of balance and bank wall, bogged and partially reclaimed fourteen acres of swamp land, and has arranged to build not less than 400 rods more of wall, and to reclaim 20 acres more of swamp land, where young trees and bushes are now standing.

> On finding that the aggregate of his cultivated land was 66 acres, exclusive of mowing land, the inquiry was a natural one, whether he could give so many acres sufficient manuring to make it profitable to have so many at once under the plow? The reply was, that no acre had been planted without its complement of thirty ox-loads of manure, except the swamp land, which had been planted without any. In the summer preceding the crops of which we are speaking, he had tied up about fifty head of cattle, and to their droppings he had added muck, and whatever other valuable materials he could command, in order to swell the heaps and add to their value.

Mr. Wood long ago learned that his low, moist lands were those which he must depend upon for his grass crops, and by a judicious management of them, by a thorough working of them when plowed, by liberal manuring and seeding, followed by a top-dressing of rich, well pulverized compost every other year, he can keep them sufficiently active to produce an average of two tons per acre for ten or twelve years in succession. This is one of the causes of his success in farming; for from land valued at \$100 per acre, he gets an annual crop worth \$30 for the two tons of hay, and a crop of rowen which is either cut and cured or fed by the stock, and worth at least \$8 per acre, making an aggregate of \$38 an acre. The cost of getting this hay is not more than \$5 an acre; the interest on the cost of the land \$6, leaving a net gain of \$27 per acre, without any palpitations of heart as it regards Mr. Wood manages two distinct farms; his own, the solvency of these acres! What investments in which he has brought to a high state of fertility, mills, banks, railroads, or even commerce or trade,

At one of the barns where the stock is kept, water is brought by a hydraulic ram, to the yard, bers from the size of a pea to that of a walnutand thus an otherwise heavy and constant labor is averted. Arrangements are being made to introduce water to the other barn by the same means. Just as we were leaving the premises, we noticed eight fine shoats, and about 100 fowls. Mr. W. informed us that he had made careful experiments in feeding the fowls, and had ascertained that he could feed them liberally on a variety of food, at a cost not exceeding one-third of a cent per day, and that the results were so less sunken than most potatoes-most of them favorable that he intends to increase the number are hard and require thorough boiling, and then to five hundred, the coming summer.

In managing these farms, Mr. Wood introduces the best implements he can find, whether his great grandfather ever used them or not. His of a failure, and while it would have been gratigrass is mostly cut with mowing machines, and raked by horse-power, while his plows, harrows, seed-sowers and weeders, are all of the latest con-culture in its various departments. struction, if he finds they work better and quicker than older ones. He is a man of progress. His farm-work is all twice performed; first by Head-Work, and then by Hand-Work,—so that his men are moved by a system, and are never vexed by delays and contrary directions. He BARN CELLAR VS. OUT-DOOR MANURE. makes his "brief," as well as the lawyer, and a glance at it shows him precisely where he stands, in the Farmer from the pen of Mr. Mansfield, of or in other words, where he stuck up his hoe! Needham, on the subject of manure; and as I do When he is appointed to lead in a discussion at not believe in the doctrine therein advanced, I the Farmers' Club, he devotes an evening to an to himself.

Last summer he had some dozen acres of rye to harvest, very little of which stood less than six feet high. It occurred to him that reaping assertion that there cannot be found that number rye was a slow and laborious process, so he in- of adjoining farms in New England where better troduced scythes into his fields, and before three acres had been gone over, skill had been acquired to cut it, and lay it out in rows quite as well than that, we have no trouble about our corn as the reapers did, and at least five times as fast. coming up, so far as I have learned.

For the New England Farmer.

POTATOES FROM SEED.

"Reader, will you write for ---- ?"

some small return for the valuable information I and ought to lose his crop a few times, until he obtain through agricultural journals, none of can learn better. Your correspondent says not which do I prize more highly than the New Eng-one word about the way he uses his manure, so land Farmer. I have no theory to maintain, but that we may infer that it kills, let him use it as in what I have to say, and with full leave for the free use of scissors or fire, I will give you my manure, dried in the cellar, and another 100 experience in

RAISING POTATOES FROM SEED.

Five years ago, finding on some early purple potatoes an abundance of very large balls, it ocand a good one to test the experiment of invigor- pens or on horse manure. ating the tuber, and producing new varieties.

The first year I obtained about a quart of tuthe second season some of them increased to a moderate size for the table-the third many of them were full size—and the last year they average as well as potatoes generally for size.

Though the seed was from an early dark purple roundish potato, the produce is nearly all of a yellow cast-many of the Carter shape-some ripened with early potatoes, some are late.

Now as to quality. I have never found one decidedly good. Some few, not many, have rotted. They are generally pretty smooth, the eye appear more like a natural than a cultivated plant. What may be the result of further culture, remains to be seen.

We are more inclined to speak of success than fying to me, I prefer to state facts, and the result of experience and observation, believing it to be the true way to promote the cause of agri-

Truly yours, S. S. Amherst, Jan. 3, 1859.

For the New England Farmer.

FRIEND Brown: -I have read lately an article

propose to say a few words about it.

If his doctrine is true, it must be that I live in investigation of the subject, and is thus prepared a very benighted neighborhood, so far as manure to speak upon it with profit to others, and credit and barn cellars are concerned, at least. There are in this neighborhood twenty-three farms adjoining each other; seven in Dracut and sixteen in Pelham, with cellars under the barns where manure is kept and composted, and I will venture the corn, in quantity and quality, is raised than we have raised since those cellars were built, taking the quality of land into the account-and more

It is well known to every good farmer that manure may be, and often is, strong enough to kill corn and other tender plants, when the seed is put directly upon it, and the man who does not compost and reduce this cellar manure, or This question, which I find in a leading agriuse it in some other way than putting it in the cultural journal, awakened a desire to make hill, has scarcely taken his first lesson in farming, from under the eaves of the barn, and make them separately into a liquid and give them a fair trial, before he gives up his cellar.

I am well aware that hogs do not do as well curred to me that it must be a healthy variety, in a cellar under cattle, as they do out in good B. F. CUTTER.

Pelham, N. H., Dec. 23, 1858.

For the New England Farmer.

INTELLECT ON THE FARM.

very general effort among those who are consid- the question; you take a leaf or two, a bit or so ered leaders of agricultural improvement, to in of moss, place them under your glass, and you fuse more mind into the various operations of need not doubt longer; a great and interesting the farm. Your correspondent has often referred truth finds its lodgment in your brain, to be to this subject. There is no danger whatever of brought out on some future time for a useful a man being too learned to carry on a farm; he may possibly make brains pay better in some other calling, but there is no other which will the whys and wherefores of those thousands of I do not take into the account loafers and the you. lazy; it makes little odds what becomes of these. They do not give themselves that leisure for intellectual improvement which they ought to have. A farm, of all the places in the wide world, offers the greatest field for mental culture, and I am happy to know that our New England farmpily to glorious results.

them great helpers, accomplishing more in a day generally cultivated, both for timber and shelter for the benefit of the farm, than all the hands of from the wind. the farm could muster; while others are equally destructive. Do you know which are your friends bly the best for timber or fuel. The seed can be and make insect study interesting, you will need the ground is in good condition to plant corn. a microscope, and my object in writing this article is to tell you where you can obtain just the it rain water, nearly boiling hot. Let it stand instrument you need, and its cost. If you will in a warm place, say under the stove, or near the suitable, which you may have collected through so warm as at first. the day. My word for it, you would soon have and you would soon learn that there is one gen-eral law or type peculiar to each and every spe-cies. Then too, as you has around in the or-plant when it first shoots is very tender and small.

chard, you might see some particular favorite tree, its leaves looking sickly and its limbs and trunk covered with moss or fungi. You guess Mr. Editor:-There is at the present day a something is the matter with it, but what, that's

make a greater demand upon it, if he takes hold operations which are every day going on about of the business in earnest, and as it is capable of that glorious farm of yours, and be able to exreceiving. My desire is to see our New England plain those operations, so far as it is in the pow-farmers put more of this material into farm busi- er for human intellect to do. This privilege is farmers put more of this material into farm busisers than they have done heretofore. I feel confident if they will do so, they will find an increase of profits. True, muscle and mind or brain must go together. Our people, both men and women, particularly the latter, work too hard, honor enough, and what Norfolk wishes to see

King Oak Hill, 1859.

CULTIVATION OF THE YELLOW LOCUST.

For the information of D. P. Powers, of Maders, their wives and daughters, as well as the ison, Wis., I will undertake to answer his inquirsons, are beginning to appreciate their calling in ies respecting the growing of locust timber. I this light; depend upon it, farmers, you are in believe I "really know something about it," havthe right road; it will lead you safely and hap-ling sown the seed in three different localities, and brought them to a profitable maturity in each Permit me to call your attention to a delight-case. And permit me to say, that I look upon ful source of entertainment as well as instruction. the locust as the most profitable timber for cul-How few farmers, or of those not such, know tivation in our country; and have often, in my much about the habits, offices and structure of visits to the prairies of Wisconsin and other the hosts of insects found on the farm; many of Western States, wondered why it was not more

The yellow is the kind used here, and probaand which your foes? Do you know the vari-procured at any of the large seed stores of Albaous transformations many of these insects pass ny, Rochester or Buffalo, and probably at Chicaous transformations many of these insects pass my, foreigned on Bunko, and probably at chicathrough? Do you understand the general charge acters by which the different species are known, and whenever seen, easily recognized? Here is a study for you, full of interest, and easily understood. One that nine-tenths of our New hards seen trees bearing seed, on the prairie a few sides work of Boiles and Bondon and probably at Chicathronic from them at this time, as it remains on the trees all winter, and is not injured by the storms. It have seen trees bearing seed, on the prairie a few sides work of Boiles and Probably at Chicathronic from them at this time, as it remains on the trees can be found of sufficient age. England farmers can comprehend, if they will miles west of Racine. Probably plenty can be only take the little trouble required to do so. I procured in that region merely for the gathering, know that in order to obtain the information, Plant the seed about the 15th of May, or when

send to J. & W. Grunew, of New Haven, Ct., chimney corner, until the seeds have most of them inclosing twelve dollars, they will send you one swelled to about double their usual size; and of the most beautiful little microscopes in this are so soft as to be easily cut in two, by pressure or any other country, every way complete and between the finger and thumb nail. This reready for use. With this little instrument you can devote an hour at the close of the day's work to the study of such insects, or any thing else and repeat the soaking, but with water not quite

Prepare the ground in the most thorough manwife and children and hired men about you, all ner. It should be rich, dry and mellow, and free eager to behold the wonders and the wisdom of from the seeds of weeds. I have succeeded well, God as manifested in the minutest of His works, on a green sward, freshly plowed, and the sur-

Plant shallow, not over one inch deep, and tread and condition of the agricultural societies of the the ground or roll it after the seed is in. Rows State, and what they had done and were doing, about four feet apart, and seeds three or four and of the origin and manner in which the Board inches apart in the row; so as to insure plants enough for one to each space of twelve to eigh- of Agriculture was constituted, and a succinct planting. With these, as with every other young Questions being asked with regard to the State plant, careful attention is necessary, to insure the best success. If well attended to, an average growth of four feet each may be expected operations and management, in the importation the first season. After the first year, but little of stock, in offering premiums, &c. It was attention is needed. Do not undertake to improve them by trimming, except to prevent discussion be, The interest and the duty of the crotches, which are objectionable if timber is the object.

bly as any other tree. The only enemy we dread is the borer, which is sometimes troublesome, but not seriously so. The general advantages are, rapid growth, fourteen to sixteen years pro- P. M. ducing trees large enough for posts, great durability and weight, with strength and toughness, fitting them for wagon-hubs, railroad-ties, &c. No other timber, I think, equals it for the purposes desired, and certainly none in the facilities

FIRST LEGISLATIVE AGRICULTURAL MEETING.

It was ordered by the Legislature on Monday, Jan. 10th, that the use of the hall of the House of Representatives he granted for the purpose of holding the usual Legislative Agricultural session.

The first of the series was accordingly held on last Monday evening. The meeting was called meetings were held, with a sketch of what they much as they endanger the entire fabric.

A Massachusetts Farmer. had hitherto been, and what they had accomplished, and suggested by way of organization, that a chairman be appointed for the evening, when Mr. MILLER, of Coleraine, was called to

The Chairman stated what had been done in his own town by way of forming a farmers' club, how it had been conducted, and what its influence had been.

Mr. FLINT suggested the propriety of appointing a committee to nominate a permanent committee of arrangements to have the general supervision of the meetings, when Messrs. Peck, of Sterling, PAIGE, of Brimfield, and the Secretary of the Board of Agriculture, were appointed.

Interesting remarks were made by Messrs. MARTIN, of Warren, HAYNES, of Sturbridge, PAIGE, of Brimfield, and several others.

Mr. Flint gave a general account of the origin — Cumberland Telegraph.

teen inches. Hoe them as soon as they are fairly statement of the connection of the Board with up, which will be in fifteen to twenty days after the management of the State Farm at Westboro'. Society, he answered, by giving an account of its

Voted, That the subject of the next evening's Government to develop and encourage the devel-opment of industrial resources of the State, and They will withstand the winds, as well proba-that His Excellency, the Governor, be invited to preside.

Adjourned to Monday, Jan. 17th, at 7 o'clock,

For the New England Farmer.

COUNTY AGRICULTURAL SOCIETIES.

Mr. Editor:—Sir,—I like the plain talk in with which it can be produced.—Levi J. Hop- your columns of this morning, about our County Kins, in the Country Gentleman.

Agricultural Societies, and the support they re-Agricultural Societies, and the support they receive from the State. The original design, at the commencement of the organization, (for I remember it well,) was, that there should be one State society, and one Society in each of the counties of the Commonwealth, and no more, and that each of these should receive \$600 a year from the Treasury of the State. This, if my estimate is right, would amount to a sum not exceeding \$9000—a moderate contribution for the meetings during each Monday evening of the benefit of the farmer. But since then, there have grown up some eight or ten other excrescencies, receiving four or five thousand dollars annually, together with the State Farm at Westboro', three to six thousand more, all of which in my judgto order by the Secretary of the State Board of ment are misappropriations of the funds of the Agriculture, who stated the objects for which the State, that demand immediate correction, inas-

Dec. 25, 1858.

A SINGING MOUSE.

One of these little animals inhabits our office. the chair, and Mr. G. P. SARGENT, of Newbury, For several years past he has made his home in to whom our reporter is indebted, was chosen it. He has become very familiar with all hands, Secretary. around the feet of the compositors, or dancing about the cases, seemingly as little apprehensive of danger as if snugly away in his nest. The paste-cup is his delight, but he never objects to a bit of cake, or fruit, with which his admirers occasionally supply him. He is a most remarkable little animal. A piece of cake puts him in high glee, and when he has devoured it, he gets in a corner and sings like a canary bird, his notes being sweet and melodious. Sometimes he will sing for an hour without intermission. He is a general favorite-does what he pleases with impunity—and is regarded as a sort of fixture in the office. Even while we are writing he is playing on the table, and is so tame that he suffers himself to be handled without any show of fear.

TRANSACTIONS OF THE ESSEX AGRI-CULTURAL SOCIETY FOR 1858.

By the kind attention of the indefatigable Secretary of this society, we are favored with a copy of this annual. It is a handsomely printed pamphlet of 224 pages, and contains, beside the ordinary papers showing the operations of the year, 100 pages at least of permanently valuable matter, that will often be resorted to for guidance and instruction.

First among these are the papers relating to the Treadwell farm. By the persevering efforts of the late President of the society, this farm is now in condition to be creditable and useful. I trust it will, ere long, become a model farm. True, it is not one of the best of farms-but if it can become best improved comparatively, this will be enough.

This society was most fortunate in having such orators as Everett and Loring to address them at their annual show. Their speeches are given in full, and will well reward perusal. There are other finely written papers in the volume, which will be read with interest. I am pleased to see such respectful notice, as appears in this pamphlet, of that model of Massachusetts farming, the late Moses Newell, of West Newbury. He was worthy all that is said of him. I have ong looked upon the publications of this society as models for imitation—and the present, if I mistake not, will be found equal to any that has preceded it.

THOROUGH TILLAGE. - At one of the Irish agricultural meetings, one of the speakers remarked -and the truth may be well applied in this coun-

try:
"What brought out the immense agricultural or thirty acres of land in this country? It was fine pinks. not by allowing three-fourths of a light tillage farm to remain in poor herbage, and making the other quarter pay the rent. It was because the farmers in those countries he alluded to, made they had only put forth their little buds. agriculture a study, a duty, and a pleasure, and because the farmers till their land to the best ad- to await the time of their blooming, and he wished vantage, and because no man there would keep that his flower-bed might be in blossom before one single acre of land more in his possession, all others. He took the buds in his hand, lookhan his capital and his means would enable him to cultivate." to cultivate.'

ied the following method for measuring hay from "Look, my pinks are in bloom!" an old publication, and having verified its general accuracy, I have both bought and sold by it, drooped their heads, and before noon they all and I believe it may be useful to many farmers looked mournful, faded and torn. Then the boy ten solid yards make a ton. Clover will take you will not have bought too dearly the great from ten to twelve solid yards per ton." and difficult art of WAITING PATIENTLY."

BOYS' DEPARTMENT.

THE SLAVE BOY'S WISH.

BY ELIZA LEE FOLLEN.

I wish I was that bird, Up in the bright blue sky; That sings and flies just where he will, And no one asks him why.

I wish I was that little brook, That runs so swift along; Through pretty flowers and shining stones, Singing a merry song.

I wish I was that butterfly, Without a thought or care; Sporting my pretty, brilliant wings, Like a flower in the air.

I wish I was that wild, wild deer, I saw the other day; Who swifter than an arrow flew, Through the forest far away.

I wish I was that little cloud, By the gentle south wind driven; Floating along so free and bright, Far, far up into heaven.

I'd rather be a e.nning fox, And hide me in a cave; I'd rather be a savage wolf, Than what I am-a slave.

My mother calls me her good boy, My father calls me brave ; What wicked action have I done, That I should be a slave?

I saw my little sister sold, So will they do to me; My Heavenly Father, let me die, For then I shall be free.

THE PINK.

"O, dear mother, give each of us a flower-bed; wealth of Scotland? and what enabled the small me one, and Gustavus one, and Alvina one, -and farmer in Belgium, who, on seven or eight acres each will take care of his own." Thus said little of light, sandy land, was able to do better for Frederick to his mother, who granted his request, himself and his family than we can do on twenty and gave each child a flower-bed planted with

The children were overjoyed, and said, "How

Little Frederick, however, was too impatient saw a yellow or red petal peeping forth here or there. But he could not wait patiently: Freder-To MEASURE HAY-STACKS. - "More than ick opened the buds and unfolded the petals altwenty years since," says an old farmer, "I cop- together; then he exclaimed with a loud voice,

where the means of weighing are not at hand. cried about his flowers; but his mother said, 'Multiply the length, breadth and heighth into "Impatient child! may this be the last pleasure each other, and if the hay is somewhat settled, of your life that you mar by your own fault, then

tributor, Septimus Piesse, of London, informs lose what little health they started life with, beus that the marks or devices which some young coming feeble in just about the proportion as people, and sailor boys in particular, make on they become fashionable. In this neglect of the skin by pricking it with needles, and then rub- household cares, American ladies stand alone. A bing the punctures with indian ink, vermilion German lady, no matter how elevated her rank, and indigo gunpowder, are so firmly fixed that never forgets that domestic labors conduce to the to remove them severe means must be resorted health of mind and body alike. An English lato. The following treatment will be found effi- dy, whatever may be her position in society, cacious:—Blister the part with a plaster a little does not neglect the affairs of her household, and, larger than the mark or "ornament," then keep even though she has a house-keeper, devotes a the place open with a green ointment for a week; portion of time to this, her true and happiest finally, dress it to get well. As the new skin sphere. A contrary course to this, results in a grows, the old tattooes will disappear. - Scientific lassitude of mind often as fatal to health, as the

which to take off first, his coat or his boots.

LADIES' DEPARTMENT.

SCHOOL GIRLS IN WINTER.

We wish to put in a special plea for the girls. Make their dresses short enough to swing clear of the snow and mud, and give them good waterproof boots, to wear to school. Yes, we insist upon it—they should have boots. Women's shoes of the present fashion are no more fit to be put upon country roads in winter, than an Indian's birch-bark cance is fit to cross the Atlantic. Boots will not look quite so trim about the ankle, or step so lightly upon the floor, but they bread soaked in a quart of milk; 4 eggs; 4 tathe health to show off these graces in after life, and to take a great many elastic steps that otherwise might be fewer, and those leading directly down to the grave.

Another thing we are glad to see coming in fashion: the ladies are learning to skate, and for this they must have boots. Now, girls, get each of you a pair of neat winter boots, and a pair of the size of a nutmeg. Bake in small tin rounds. skates to fit, and the first ice that forms in your neighborhood, large enough, go out with your in cups; or boiled batter pudding. brothers, or somebody else's brothers, and learn to skate. Be prudent about it, and not overdo of milk; 9 eggs, (if you have got 'em;) 9 tablethe exercise, and you will find it a capital medi-

cine-next to horseback riding.

The only way to bring about a race of healthy women, is to attend to the physical development icacy. of the girls before they are diluted in the false system of fashionable accomplishment, that fits them for nothing but elegant imbeciles.—Ohio Cultivator.

HOUSEHOLD CARES.

Mrs. Kirkland has very truly said that woman is never really and healthily happy, without household cares. But to perform house-work is too frequently considered degrading. Even where the mother, in obedience to the traditions of her nutmeg or vanilla, and bake. youth, condescends to labor occasionally, the daughters are frequently brought up in perfect pare the turkey just as if for baking; then put idleness, take no bodily exercise except that of in a kettle, covering it with water, and closing it walking in fine weather, or riding in cushioned with a lid. Boil until quite tender. Then take carriages, or dancing at a party. Those, in short, it out and brown it in an oven for a few minutes. who can afford servants, cannot demean them- When put upon the table it will be found very selves, as they think, by demectic labors. The tander and labor incl.

TATTOOED SKIN.—Our valued friend and con-result is, too frequently, that ladies of this class neglect of bodily exercise. The wife who leaves her household cares to her domestics, generally The most remarkable instance of indeci- pays the penalty which has been affixed to idlesion we ever heard of was that of the man who ness since the foundation of the world, and eithsat up all night because he could not decide er wilts away from sheer ennui, or is driven into all sorts of fashionable follies to find employment for her mind. If household cares were more generally attended to by ladies of the family, there would be comparatively little backbiting, gossiping, enviousness, and other kindred sins, and women in good society would be much happier and much more truly lovable.—Springfield Re-

DOMESTIC RECEIPTS.

FRUIT PUDDING.—12 lb. each of flour, grated potatoes and grated carrots, and 1 lb. of suet. Salt and spice to taste. Boil 3 hours. To be eaten with wine-sauce.

Boiled Bread Pudding.—Half a loaf of stale will do what is of more consequence—preserve ble-spoonfuls of flour. Boil 3 of an hour; serve with wine-sauce. A little green or dried fruit mixed in is a good addition.

> "WINE-SAUCE" WITHOUT WINE.—Butter and sugar thickened with corn-starch, and flavored with the rind and part of the juice of a lemon.

> Pop-overs.—One cup of flour; 1 egg; butter The same rule is good for nice drop-cakes, baked

> Grandma's Batter Pudding.—One quart spoonfuls of flour, and a little salt. Steam 15 hours-if steamed just enough, the pudding will retain its form, and it cannot be excelled for del-

> Grandma's Marlborough Pie.-12 spoonfuls each of sifted (stewed) apple, beaten egg, and melted butter-all thoroughly mixed, and flavored with lemon and sweetened to the taste. Bake without upper-crust. Less butter than the above will do.

> APPLE CUSTARD.—Take fine apple-sauce, flavor with lemon or rose, and fill the pie-plates with it. Pour over a nice custard flavored with

> A TURKEY BOILED AND THEN BAKED .- Pre-



ARTS AND SCIENCES.

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JOEL NOURSE, PROPRIETOR. Office ... 34 Merchants Row,

SIMON BROWN, EDITOR.

FRED'K HOLBROOK. ASSOCIATE

CALENDAR FOR MARCH.

Spring is but the child Of churlish Winter, in her froward moods Discovering much the temper of her sire; For oft, as if in her the stream of mild Maternal nature had reversed its course. She brings her infants forth with many smiles. But once delivered, kills them with a frown.



ARCH is the first spring month, according to the usdivision time, although one May.

deliciously point of fact, there are "sweet facilitate your labor. influences" which make them-

bare ground which we have not seen before since seed-time will come and go all the same, and if the snow came and covered everything last No- we neglect it, we shall have no harvest. vember-the "softer airs" which breathe upon us in the intervals of east winds and driving fail to improve, will pass by us to return no storms-the more jubilant crowing of our roos- more-but in this case we shall find not alone no ter, who rejoices to tread "his own native heath. harvest, for while the husbandman slumbers, the er" once more, and who holds long conversa- enemy sows tares! tions on the subject with all his neighbors-yes, even the muddy highway, which affords us neith- impressed with the importance of starting right, er sleighing nor wheeling-and the overflowing we must hazard one suggestion for the benefit of rivers, which in some vicinities suggest a second those who have neglected past opportunities,deluge-all these things tell us of returning life, namely, there are some seeds which it is much and we cannot help sympathizing in the general better to sow late, than not at all.

rejuvenation which is taking place in the world. Why! we almost expect to see our own white hair growing brown again, or our wig giving place to a new "native growth."

Now is the time, in this flush of hope, to get all things in order for spring work. See that the farming implements are ready for use-get the seeds together, so that when the frozen ground becomes softened, you may not have that duty to perform—a duty requiring much care of and the exercise of a sound judgment.

Make your plans for the whole season's opersees very little of ations with deliberation, and with reference to that "ethereal the whole of your crops. Decide what field shall mildness," which receive the corn, the oats, wheat, barley, pota-Thomson so pa- toes, roots, &c., so that when the sun has evapthetically invokes, orated the rebundant moisture, and the condition until April or even of the soil invites you to plow and deposite your seed, you will not be delayed by any doubts as Yet long before to where, and to what extent, your various crops the "merry song- are to be placed. This is the head-work of the sters" and "bud- farm, and can better be done by the evening fire, ding flowers" which with pencil and paper in hand, than in the hurry warble and blossom so and responsibilities of the field. A rude map of in poetry, your plans, one that any hand can sketch in a make their appearance in few minutes, would greatly aid the memory and

There is an old saying, "Time and tide wait for selves felt by all. Those patches of no man." We may procrastinate, if we will, but

There is also a moral seed-time, which if we

And yet, while the young cannot be too much

as we know, throughout New England, is the to be made beautiful with flowers, "God's mes-May-flower, (trailing arbutus.) It is commonly sengers," as some one has called them, and there supposed to have received its name merely from shall be a trellis for a vine and a climbing rose the fact of its being found in May, but as it is over our portico. We will have an orchard with found still more abundantly in April, we are in-apples, pears and peaches somewhere in the rear clined to receive the tradition that it was so called of our dwelling, but it need not interfere with by the Pilgrim Fathers, in honor of the vessel in the shade trees and shrubbery in front. which they came over—it being the first flower they discovered in their new home. This, certain-plow, and while he goes on with his labor, comly, is the more interesting, and as we think, the poses one of his sweetest poems: more probable theory. We have found its buds late in the fall, thus showing that it makes its preparations for blossoming some months beforehand. We have tried the experiment of placing these buds in a tumbler of water in a sunny window, hoping to produce the novelty of

"A May-flower in December,"

be hastened in spring by a similar process.

Then there are violets, snow-drops, anemones, -all lifting up their heads in the most out-of-learn them; and who has a better opportunity the-way places-many of them "born to blush to note them than the farmer, whose life is passed unseen," and each one the very synonym for pu-in watching the processes of animal and vegetarity and modesty. Did it never occur to you, as ble life? What a world of information he ought you have come suddenly upon one of these wild to collect, and does, if he keeps his eyes open. gardens of nature, "Why are so many beautiful "Scarcely a branch of natural science," says a things placed where man seldom or ever sees writer, "but has an intimate relation to the busthem?" And did not the answer suggest itself, iness of agriculture, and peculiar claims upon the "It must be that God loves to see them!" With farmer." And he goes on to say-"Nor can any this thought, the solitary places of the earth are good reason be assigned why he should not have no longer solitary. If we include our thoughts the benefit of full instruction in all the branches a little further, is it not easy to suppose these of useful learning." places filled with the spirits, minds, or intelligences of those made holy, not subject to the condi- as the study of the book of Nature herself, to tions of animated matter, and all progressing and which we now refer, and for which the just qualrejoicing in the love and wonderful works of our ification is a habit of observation. Creation is Heavenly Father! All these flowers and trees of full of wonders and mysteries, and perhaps, you of the forest, the springs that run among the hills, feel this as much in looking at a grasshopper's the insects that sport in the sunbeams, and the leg through a microscope, as at the most distant whirlwind that scatters the flocks or strips the planet through a telescope. Perhaps there is as hills, are just as much the work of His hands, much mystery in the fact that an apple falls and the objects of His care, as that far-off Heav-down instead of up, and that grass grows up inen that is so indefinite, and undefinable in the stead of down, as in the revolution of the sun, popular mind! The field for reflection in this moon and stars! matter is infinite.

There are people in the world—but we hope you are not one of them—who look at everything leave the soul entirely out of the account.

and cabbages and turnips, and take good care of cial duty to the other months, let us glance at

The first spring flower which blossoms, so far it too,—but then there shall be a spot set apart

Burns turns up a "Mountain Daisy" with his

"Wee, modest, crimson-tipped flower, Thou'st met me in an evil hour, For I maun crush amang the stoure Thy slender stem: To spare thee now is past my power, Thou bonnie gem."

A less delicate nature would have passed it carelessly by, or, if he noticed it at all, would, but have never yet succeeded, although they may perhaps, have wondered why it could not just as well have been a potato!

Nature has many lessons for us, if we will only

It is not, however, the study of books, so much

FARM WORK FOR MARCH.

The duties that devolve on the farmer in the through the medium of "What is it good for?" month of March, though not so instant and press-"What did it cost?" and perhaps still more to ing as at some other seasons, can no more be disthe purpose, "What will it bring?" Now it is a pensed with and have the farm managed well, good thing to be practical,—but we have little than can a field be well plowed with the off ox sympathy with those intensely practical people half the time out of his bow. There is so intiwho ignore the refinements of taste, who labor mate a connection and interweaving of the busiall their lives to feed and clothe the body, but ness of all the seasons, that the omission of the cares of one must sadly impair the whole. In Let us have our vegetable garden, with its beets order, then, that March shall discharge its spesome of the things that she must not shift off we have alluded must still be a familiar and upon April or May-and first, because of the pleasant and profitable one. Let the flax be first importance-

Manures.—There should be as much pride fore April, or it may become an unwelcome task. with the farmer to keep everything systematic and neat, as with the merchant to keep his store so, glory of the family. What will more directly or the captain the deck of his ship, or the me-tend to this than a wood-house filled with seachanic his shop and tools; for thrift usually fol-soned oak, maple, beech or birch, fitted for the lows neatness and systematic industry.

the farm, we think as much of the manure should to convince you that a good husband will probe hauled to the fields in the month of March, vide this before planting time, if he can, and so as can conveniently be done. There will be lit- we will not suggest it. But we urge the prestle or no loss while it freezes and remains so, and ervation of peace in the family, if it does require as soon as the ground thaws it may be slightly dry wood! covered. Here it is, on the field where it is to be used, and where twice or three times as much brook, so does a neat, systematic housewife for can be applied to the soil in a day, as could be an abundance of pure, soft water. This is not done if it were to be taken from the barn-yard always to be found in wells, or to be brought by or cellar. The finer it can be reduced, the more aqueducts; but every person who has a roof, may prompt will be its action, and larger the crop, have soft water. Make a cistern in the cellar. other things being equal. In order to effect this, either above or below ground, and conduct the as soon as the frost will permit, work over, pul- water from the roofs into it. This will be found verize and mingle the mass, returning it into a cheaper than lugging water from the brook, or well-rounded compact pile. Leave two or three wasting soap to bring hard water into a condismall, long stakes inserted in it, and occasionally tion fit for use. A plenty of pure, soft water in draw these up and notice by their warmth how the family, is a wonderful promoter of the virfar fermentation has gone on,—as nothing more tues and graces too! than a gentle heat should be allowed to take All these things, and many more, are the propplace. A manure heap in this condition, mingled er work for March-how can they be omitted, two to four inches deep in moist, porous soil, without detriment to the business of the other cannot fail to produce favorable results.

The Stock.-Milch cows will need especial care, as if they become thin and weak, it will take until near midsummer to get them into vigorous condition for the dairy.

ing to restore it to its original condition.

afford the highest profit.

cultivation of this article fallen into decay. But an account of themselves. among some of our readers, the scene to which January, 1859.

broken, swingled and hatcheled or combed, be-

Wood.—A calm contentment is the crowning hearth or stove where it is intended to use it? In order to preserve these appearances upon Not anything. It needs no suggestion of ours

Water.—As the hart panteth after the water-

months?

For the New England Farmer.

BOARDS OF AGRICULTURE FOR STATE, TOWN OR COUNTY.

What have they done, or what are they now Calves should be generously treated. It is doing? This is a fair inquiry, suggested by the thought by some that an early stunt is a stunt perusal of his Excellency's address to the Legi for life; however that may be, it is clear that if lature. Among the expenses of the State, he en aa calf once loses its healthy and vigorous habit merates \$12,000 annual payment to sustain the control of this? To the of growth, it requires much time and high feed-sure, certain gentlemen are prominent in office, by these organizations; some are Presidents, some SHEEP.—Bring to their yard, pine, hemlock, Treasurers, some Trustees, &c. &c., all gratuitousblack birch and other branches from the woods, ly, of course, except the consequence attached to and they will be "much obliged to ye." A lit- hardly expedient to draw upon the hard earnings tle better feed than usual will strengthen them, of the people for this. Can it be shown that the and be of much service to the lambs. Liberal grounds of the State are better cultivated? that feed to them of the best kinds of fodder, will the products are increased? that the condition of the farmer is improved thereby? that the wellbeing of the community is improved thereby? if FLAX.—We have not forgotten the sunny days so, then we say, God speed the enterprise. Man in the open barn floor in February and March, is a social being, and will often do in connection when the eaves were dripping, the bundles of with others what he would not presume to atflax drying in the sun, and when the clatter of the tempt alone. This is illustrated in every benev-"brake" and the "swingling knife" merrily wore olent effort; and why may it not be, when our away the day. In this region, the terms used in speaking of the processes of getting out flax. of Agriculture in the State of Maine; and should would scarcely be understood, so much has the be pleased to see our own Boards giving as good

A Massachusetts Man.

BECOND LEGISLATIVE AGRICULTURAL and death. MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

Subject for Discussion—The duty of the Government to encourage the development of its industrial resources, especially the improvement of its Agriculture, as being the foundation of the prosperity and security of its people.

The members of this Society met in the Representatives' Hall on Monday evening at 7 o'clock. The attendance was respectable, and included many gentlemen whose practical opinions have been fortified by sage experience in the art and science of farming. His Excellency, Gov. Banks, presided.

Mr. Flint, the Secretary, reported the names of the following gentlemen as a Committee of Arrangements for the meetings of the Society, Coleraine, PAGE, of Brimfield, SARGENT, of

lowing resolutions as the basis of the evening's discussion:

Resolved. That it is the duty of every civilized government to encourage the development of its industrial resources, and es

encourage the development of its industrial resources, and especially the improvement of its Agriculture, as being the true foundation of the prosperity and security of its people. Resolved, That the formation of Farmers' Clubs for the discussion of Agricultural topics, the promotion of Agricultural Labraries for the use of the prople, the holding of local or town fairs as auxiliary to the county and State exhibitions, and the collection of Agricultural products and objects illustrating the various departments of the Netural History of the country, are intelligence of the community.

Gov. Banks, although he said he was unprepared for the task, spoke to the resolutions at length, and with great ability. We can only furnish a brief epitome of his speech, and those which succeeded it. He argued that it was the duty of the national government to give its protection to the interests of Agriculture, although particular included the assertion that, in respect have reached. to all our material industrial interests, the duty of the government was to protect them to the idea until last summer of the extent of the agriextent of exacting as much revenue as sufficed cultural interest in the Commonwealth, but he for its support, and no more. Regarding the determined that he should place himself in the duty of the local government in encouraging the best position to know. Placing himself at the industrial interests of the people, His Excellency direction of his friend, Mr. Secretary FLINT, his thought there could be no question, generally; first inquiry was relating to the places and periout the query arose-What is the best method for ods where the required information was best attheir development? The people of the Common tainable. But almost every portion of the State wealth, he believed, to be willing to sustain and had its agricultural exhibition about the same encourage that of Agriculture, as it was with us, time, and but a few of the whole could be seen by as with the States at large, the original universal one individual. This certainly was not right, interest from which all others had to draw re- and nothing but failure could proceed from such cruits to fill the avenuer made in the profes- malarrangements. People must go beyond the

What did we see in State Street every day? Men born in Boston, building high the professional and commercial fame of the city? No! but men from the country, who came here, not with jaded look and weakened minds-men with the strong, solid frames, of such as breathed the mountain air, and lived by healthy, invigorating employment. And as it was here, so was it everywhere else. In this respect the encouragement of agriculture was important. But, in another point of view, a more liberal attention to agriculture was necessary as tending to show what the true wealth of the State really was. We required from time to time to realize what we could do. We ought to know, and how should we manage to inform ourselves? Only by the accumulation of the products of the Stateand the report was accepted :-Messrs. BAGG and their aggregation precisely in the way followed PECK, of the Senate, and Messrs. MILLER, of by commercial men in regard to the products in which they had a peculiar interest. If the pro-Newbury, BARRETT, of Auburn, and NASH, of cess showed that we have wants, it also told the manner of their supply, and was useful in this Mr. FLINT, the Secretary, then read the fol-|special degree; if it exhibited the power on our part to export, it showed our strength-that we had the whole world to trade with, and to draw upon for whatever our requirements suggested. If such accretion of products was not also made for the purpose of example, even, improvement would lag behind. Community of example and opinion have ever been the best incentive to the advancement and improvements; for it had alamong the most practical modes of developing the Agricultural ways been found to be the best way to interchange visits where the results of each year's exchange and labor were brought together, where comparisons could be instituted and valuable snggestions taught. No better mode of proceeding could be adopted than that specified in the second resolution. Bring on, then, our products, and show us what has and what can be done; and, although we may not attain to a perfect orthe extent of that protection was a subject con-ganization and superior merit in a day, or even cerning which there was much division of opin- a series of years, we may ultimately reach a posiion. The substance of his observations on this tion which, without incentives, we would never

His Excellency proceeded to say that he had no sional and mechanical occupations by retirement limits of their own town, or district, or county,

to see what they have not been accustomed to see perity was emphatically bound to that of the at home. They ought to have opportunity to see Commonwealth, and whatever he did to improve the best products of the State aggregated, and his own interests, in similar degree did he conthen they would be ready to exclaim-"Why is tribute to those pertaining to the general welthis? What cattle and products I see here! fare. These observations, His Excellency said, Why is it that I have never heard of such be- in conclusion, were thrown out without any prefore?" Of course men thus surprised would be paration, and he hoped the discussion would have very apt to inquire how these superior animals such attention from the meeting as to elicit the and products were cultivated and perfected- most reliable and safe opinions. glean lessons of value in the answers—and hence the value of the example, which never could have was called on by His Excellency to speak. been had through a merely local exhibition. As exhibitions of what we have in Massachusetts, one which had occupied his thoughts for many they are insufficient, for they furnish no idea years, although he doubted his competency to lay of what we can or may do; and as this defect his views respecting it before the audience in so constituted a great evil, its correction should clear a manner as he could wish. He proposed be kept for a moment out of sight. No oppor- to confine his observations to the subject of the tunity was furnished at meetings for discus-second resolution, which related to the State. sion-although there were very fine speeches Massachusetts stood high among her sister States made-excellent anecdotes related, and small talk in point of education, morals, arts, sciences and plentiful. The least instruction in respect to any-agriculture. Her institutions were of the most thing is found in an after-dinner speech, for in liberal and enlightened character, and were them there is just a glimpse at practical matters, everywhere copied because of their perfection; And so one might go from table to table—from her laws were approved on the same grounds, pen to pen—and solid information invariably and no section of the union was oftener looked keeps well aloof. But by the very nature of up to and copied as an example, than Massachutheir gatherings, farmers require instruction.— setts. It would be strange, then, if she should They have a previous knowledge of whatever is be found to have neglected any one of the promiworthy in their own localities, and they do not nent interests of the people; but it was otherrequire to have it repeated. But example and wise with her, for she had done everything to discussion are both; therefore, let useless prac-promote their welfare. Glance over her territory, tices be abandoned, and clubs be formed and dis- and it would be found that her charities recogcussions take place all the year through, and the nized every citizen within her limits-that those result would turn out good. To spend one day who were lowest, and who had the least care from or two per annum in sober trifling, never would those who ought to provide for them, are never be of any value. The interest of the State de-forgotten or neglected. She had made ample manded that a better system should be inaug-provision for the alleviation of the unfortunate urated-a more advanced and profitable cultiva- and the suffering. Look at her alms-houses! How tion of the soil—and to effect this end, discus- many are there? Not only her own citizens, but sions such as were recommended in the resolu- people from almost every nation in the earth. tion would be highly beneficial. The State al-|Could such a State neglect any one of her interready gave some \$13,000 per annum for the en- ests? Decidedly not! Bounties have been in couragement of Agriculture, and was probably turn offered by her to everything which needed ready to be more liberal, in the shape, it might protection. The County Agricultural Societies be, of employing agents conversant with rural receive \$12,000 from her per annum, and in past affairs, to visit the several localities, and teach times she has spent much money in their behalf. farmers the most improved manner of enlarging But had her generosity always been properly aptheir products; and in this connection it would preciated, and her kindness acknowledged? They be well to institute such clubs as the second reso- were not? Some of the counties were endowed lution specified, that these teachings could be dis- with as many as four societies, receiving, severalcussed and their value applied in practice. It ly, bounties amounting to \$400 and \$600 annualwould ultimate in a much greater benefit to the ly, and what had been the conduct of some tofarming interests than the present system of lo- ward this liberality? If a farmer raised a pair of cal shows, and at the same, or very little more fine oxen to which a county prize was assigned, expense. County exhibitions might be retained the State required of him a specific statement with some degree of profit if their meetings could how he had accomplished it, so that his skill and be distributed over the districts; but, periodical-mode of practice should be imparted to every ly, the people should be called together to see other citizen of the State. And this ought to

Simon Brown, editor of the N. E. Farmer,

He said the question before the meeting was what the State could do; for the farmer's pros- end the whole matter between them—the farmer

as an equivalent for its bounty, a specific state- ready awarded for agricultural encouragement. ment of the manner of producing the article. If the treasury was wide open, Mr. Brown said, But it is quite often otherwise; the information he would not take a dollar to add to that boungiven is frequently incomplete, and the stock, or ty. Farmers did not want it in order to obtain the article receiving the premium, is taken to other information they need. In respect to agricultushows, and premiums again awarded, thus per-ral information the best way was to commence at petrating a fraud upon the bounty of the State, the soil, and educate the farmer thence upwards, and cutting off others from the privileges of a so that he might be proud of his products as the fair competition! These facts are well known-mechanic was of his invention, or the sculptor of that the same plowman, the same stock, the same his finished marble. Make a man proud of his old rug, vegetables, grains and implements, after vocation, and much to ennoble it would be achaving once received the highest premium at one complished. Why was the hall not filled toexhibition, are entered at another and again paid night? Because the people do not care for the highest prize! This is evidently contrary to farming, although they all acknowledge it the the intention of the Legislature, a misapplication organic element in the general prosperity. It of its bounty, and certainly not the spirit in which this were a discussion of some political party, the generosity of the State should be met; in or-these seats would be crowded, and the speakers der to prevent such practices in future, the Legis-cheered with audible approbation. These vacant lature should enact a law that there should be only seats are so many records of the indifference of one agricultural society receiving bounty from the the community with regard to agriculture as an public funds IN EACH COUNTY in the State. She occupation, and of the importance of instituting long ago employed Mr. Colman to make agri- a series of meetings and discussions among the cultural surveys of the counties, and to whose people themselves, to aid them in obtaining a betvaluable reports we were so much indebted-for ter knowledge of the practical operations of the sending Prof. HITCHCOCK abroad at her expense farm, and of the elementary principles that are to inspect the agricultural schools there, and indispensable in its profitable pursuits. The pershow us what we could do at home, if we had the son who wrote the article in the Atlantic Monthly, will; for publishing works on the Fishes, Quad- which has created so much comment, was right rupeds, Insects and Geology of the State, each be in his estimate of some farmers; but he made a ing a monument of her liberality and high pur-mistake in constituting a general rule for the pose, and for establishing a Board of Agriculture exceptions he had too truly before him. The which she still generously sustains. Had she fault lies mainly with the farmer that his calling ever been parsimonious? By no means; she had is thought ungenteel; he is content to hear and done all she ought to do; we ought to be satis- profit not-to listen perpetually to others and fied with her liberality, and if we had not made a produce nothing mental himself. progress in propotion to its extent, it was our

stood? Massachusetts should legislate for the should endeavor to make his son understand it farmer as faithfully as she has done for the man- as well. He had no objection to Colleges for inufacturer. Scope for that duty was ample. Let struction in the scientific principles of agriculture, her, among other things, fix on a mode for the for the investigation of theories, or for any good measurement of milk. What is a can of milk? purposes which they may subserve, but our first a myth, a fabulous hydra, which nobody knows effort, the effort of the present moment, must be, or can reasonably pretend to understand. So to begin with the simplest elements, and teach far as it could be practically described, it was 9½ them in various portions of each county in conquarts when the producer was concerned, and 7 nection with the true principles of the practical when the buyer became interested, and 10 quarts operations of the farm. If a college were already when resold to city customers!! Let us know in operation, he knew of no young men ready to what a can is, so that those who furnish large enter it, merely because they had enjoyed no opquantities of milk per diem for use in the city, portunity to qualify themselves for such a posimay know how to sell. In this connection, proper tion. Who had taught them, and where? On officers should be employed to investigate the the contrary, we should begin at the lower round quality of milk, and detect its adulteration. One- of the ladder, and climb progressively and surely fourth of it would be found to be Cochituate wa- to the top. This object would be effected if farter after it came through the hands of the sellers, mers only loved their occupation. They would as could be proved if pains were properly taken. cherish it, and talk of it earnestly, and men would

having received the first premium, and the State, needed from the State beyond the bounties al-

Now what is wanted, is simply that the farmer should understand his business-that he should What, then, ought to be done, as things now know how to do what he undertakes—and that he So much for law; and as for money, none was listen to them and be taught to profit by their

words. Prompted by this love of their occupation, individual effort among farmers would soon of Pepperell, W. J. Buckminster, Esq., and work wonders, and on individual effort everything, almost, depended. In conjunction with the table, with the view that time should be Farmers' Clubs no limit could be placed to the granted the society to consider and act upon it good it would accomplish; and if gentlemen deliberately. would go home determined to institute them, if in five years hence they failed to pay for them-lits close Mr. FLINT announced the subject for selves, Mr. Brown said he would, if able, be responsible for the intermediate outlay. Besides af stock are best adapted to mixed farming?" the credit of aiding the noblest of all human interest up to the mark of its highest improvement, it should be understood that the benefits of such associations, intellectually considered, would be important and useful to individuals in teaching them to condense and express the promptings of their minds. Mr. Brown concluded by advising uary, 1859, has come to hand, and "looks like a that no society should be allowed to duplicate its premiums year and year again, in favor of the does it the periodical. Its type and paper are same article or animal; that counties spend a por- excellent; worthy the matter it presents and the tion of their bounty money in the encouragement price charged. Good, substantial, white paper of meetings and discussions among the people, gives good typography, as good land good crops. as where this had been done in New Hampshire and elsewhere, the very best results had followed, to !" But it is what you might have expected and the meeting might rely on it that such good from a lawyer; and there is no doubt, from his would follow as they had never known to proceed own admission on the stand, that he smuggled from any hitherto tried means.

was the next speaker. He endorsed the senti-ably claim no "kith or kin;" and undoubtedly, ments of the previous speakers; advocated an ex- on the first opportunity, you will make him feel tended area of comparison in connection with the lex talionis. products of the State, and illustrated its benefits by relating sundry appropriate anecdotes; re- French is a man after my own heart. commended but one society in counties, which he is regarded as a "good lawyer," (if the phrase should have its exhibitions distributed over the is not a contradiction!) and an unimpeachable territory; approved of Farmers' Clubs, and stated his belief that a due attention to their interests has some critical knowledge of agriculture—neat would enable farmers to add a very large per cent-of course, must be tage to their products at a very trifling expense of labor as contrasted with the unscientific manner in which many of them operated at present.

John Brooks, of Princeton, spoke in opposition to the importing of foreign scientific agriculture to American farmers, as it had always proved unreliable, and in favor of our constituting a science from what our experience taught us. He approved of State exhibitions if conducted by the Board of Agriculture.

for the right of every man to have a portion of the public territory to till—in other words, that it was the burden and duty of Uncle Sam, seeing he had the means, to "give every man a farm."

Mr. Brown, of Concord, then offered the following resolution for the acceptance of the meet-

Resolved, That the Legislature be requested to pass an act of Agricultural meetings and discussions in various parts of the exists a peculiarly rich alluvion, (formed from county.

After being discussed by Rev. Mr. Babbidge, others, the resolution of Mr. Brown was laid on

The meeting occupied over two hours; and at discussion Monday evening to be, "What breeds

For the New England Farmer.

CONGRATULATORY ... THE FRENCHES ... NEW ENGLAND.

Mr. Editor:—The monthly Farmer for Janpicture," as fond mothers and nursery-maids say. As "the apparel oft proclaims the man," so also

Your associate, Judge French, I perceive, has given you and your rural home a regular "set the article in, in utter violation of the lex scripta, SANFORD HOWARD, Esq., of the Cultivator, lexes of the lex non scripta, and all the other recognized lexes of the land! With such a man you prob-

But, "Know all men by these presents," nevertheless, however, notwithstanding - Judge Probably

"Great on the bench, great in the saddle "

Besides, he possesses a fine vein of wit and humor. It crops out in all his topics, or rushes melting into all their chasms. In other words, he overflows with mirth; and no system of un-derdraining has sufficed to abate it! Whether in charging a grave jury or "teaching the young idea how to hoe," I apprehend it must be forever welling up. This agreeable humor, often coming in contact—perhaps through the Farmer with that of a sourer and graver nature, forms a Mr. Sheldon, of Wilmington, put in a plea kind of neutral salt, which may be of some benefit to agriculturists, if not to agriculture! A disposition like Mr. French's, capable of diffusing so much happiness among others, surely need not go abroad for its own.

But there is another French who writes for your paper. If I read understandingly, he was raised in New Hampshire, but was taken up and transplanted into the polyglot city of Washington, where the sword of the nation officially hangs, and where he has been spreading his branches, requiring each county society receiving a portion of its bounty to devote one-third of the whole amount received to the support perhaps in more than native luxuriance, for there

the occidental Pactolus in which exotics are usu- to come down. I accordingly had the roost alally planted,) not readily found in any other getered, the top one not over 4 feet from the floor, ological district! His botanical initials are B. and the hers then came down in the morning B. When he first began to write for the Farmer without difficulty. Since that time, I have not I supposed him to be a spurious French—an in-|been troubled with diseased fowls, or eggs brokferior species of the genus that had been falsely en under the roost. labelled—but I am now convinced of my error, and feel satisfied that he is a regular-"Yankee refuse lime, pounded bones or shells within her doodle dandy.

New England is not so grave as formerly. The bustle and business of her great cities and ex- who keep fowls, which I think brings on disease. panding villages, together with more wisdom. It is in allowing too many cocks to run with the have dissipated her "physiognomy of grace." She hens. Many cocks are large and heavy, and they now looks with a smiling face upon her embel- not only worry the hens badly, but frequently lished farms and industrious workshops, rather break them down, and cripple them. I have seen than with a sad one into her churches. She has become as independent, if not more so, than any other section of the Union, and her stability is no case should there be more than one cock to not likely to be disturbed. Read the following ex- eight hens. I have at this time but one to twenty tract from a speech of Hon. Tristam Burgess, de-hens, and I find an increased supply of eggs in livered in Congress in the times of southern nul-consequence of it, but in the breeding season, lification, when much sectional feeling was exhib- keep more. My rule for some years being, to ited against the north respecting a protective tar- purchase the best cock I can find in the spring, iff. Read it, New England men, and if you never using one raised by myself as a breeder, cannot heartily respond to it, search for some- and never keep a hen over one, or at most two thing more sublime elsewhere in the English winters. By adopting this plan, and giving them language.

the solid stone, and like the staff of the Prophet. eased hen, and a soft-shelled egg.

Compared of the Prophet. Canton. Jan.. 1859.

Low Roost. rock, without earth or water, our labor shall drill plenty of eggs, and the case is rare with a disshall beat the flint into small dust, and cover the whole surface with soil The dews and the rain, and the sunshine of Heaven, the only creatures of God left by you in amity with us, shall give to our new earth moisture and fertility; and time, and labor, and God's blessing, shall cover the whole region with verdure.'

W. Medford, Jan., 1859.

For the New England Farmer.

DISEASED HENS---LOW ROOSTS.

your January number, from C. T. Paine, respecting diseased hens, and with your permission, I will give what I think the main cause of it is It is in the construction of the roost. I was former- ner. Now, if the runner were bent up, instead ly troubled in the same way, and it was sometime before I discovered a remedy. My roosting room is 12 feet square, and 8 feet high in the clear. My roosts were formerly constructed like ladders, two of them, say 7 feet wide, placed leaning against each other, at an angle of 45°, the rounds or roosts 2 feet apart, the top one being 7 feet from the floor. I noticed that the hen was never satisfied unless she could place herself on get down, she would almost invariably jump the whole 7 feet, hitting herself against the building, ter falling annually on each acre of land. At or striking hard upon the floor. Some of the Dearbornville Arsenal, Mich., the mean annual under the roost dropt from these fowls. I sometimes took them down from the roost by hand, remained on the roost until compelled by hunger acre. - Farmer's Companion.

Should a hen lay soft shelled eggs, put chalk, reach, and you will have no more of it.

I also find another bad feature among persons plenty, and a variety to eat, with care and clean-"O no-place New England in a region of liness, I am never without good poultry, and

For the New England Farmer.

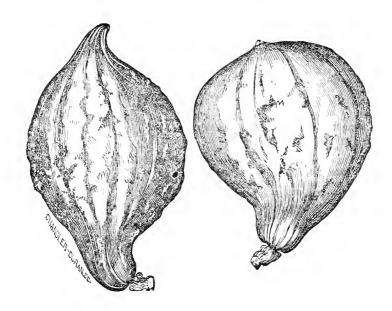
SHAPE OF SLEIGH RUNNERS.

Nearly all our sleighs are made with one defect. The hind part of the runner should slant upward to correspond to the forward part. The cast iron sled shoes used on the heavy Boston sleds are shaped right in this respect. They are alike at each end.

Whenever a sleigh, whose runners are straight MR. EDITOR:-I notice a communication in clear out, goes over a hollow place in the road, the runner at the extremity cuts in, sometimes into the hardest road; because, perhaps, nearly the whole load presses down upon an abrupt corof cutting in, as so often noticed, thereby greatly increasing the draft, as well as jarring unpleasantly the occupants of the vehicle, it would glide smoothly along, and go through the cradle holes without cutting them deeper. W. D. B.

Concord, Mass.

EVERY INCH of rain falling in the course of a the topmost round, this being the height of her year, is equal to a weight of rather more than ambition. In the morning, instead of jumping 100 tons of water per each imperial acrc. The to the next roost below, and so on, in order to mean annual quantity of rain in Detroit, is 28.300 inches; equal to nearly 2,900 tons of water falling annually on each acre of land. At oldest and fattest hens would at times not come rain is only 21.610, the smallest quantity, or the down all day, for fear of hurting themselves, and dryest place, given in the Army Meteorological occasionally I found eggs broken, and soft eggs | Register, for the whole United States. The highest mean or wettest place is West Point, N. Y., where 64.670 inches of rain is the annual mean that they might eat, or I believe they would have quantity, equal to 6,467 tons of water on each



THE HUBBARD SQUASH.

This squash is an important acquisition to our qualities unimpaired about three months later list of vegetables, as nothing of the kind ever than these, until late in the spring. we have ever tasted. Mr. G. says:-

With the single error of the absence of a concave ring in the stem where it unites with the mail the following note:squash, the engraving conveys to the eye all that is possible without the aid of color. The color furnished by J. J. H. Gregory, of Marblehead, of one variety is a dark, dull green, about an ol- I have raised and tested repeatedly, and find it ive green, usually accompanied with lines of a superior to any other variety I have ever met. dirty white color, which begin at the calyx and It is as superior in the quality of its meat, as it is two-thirds the length of the sutures, about two-thirds the length of the squash; that portion of the surface exposed to the direct action of the surface exposed to the direct action of the surface exposed to the direct action three to eight pounds, generally not more than of the surface is of a light clay blue color. Each of the varieties have usually a dense, lard clay blue color. Each of the varieties have usually a dense, lard clay blue color. South Danvers, Jan., 1859. shell, somewhat thicker than a cent, and often abounding with rough, knotty protuberances. The flesh is usually of a very deep orange color, rank at the head of the numerous varieties of the of which attain the hight of five feet five inches, squash family cultivated in the United States and are three feet broad across the chest. Its Its characteristics are an exceeding dryness of head is double the size of a man's, and its exexcels the Marrow and its varieties, keeping its as it slunk away from man, but they dreaded the

served upon our table equals it in quality either of squash, is, not how long it will keep from dementioned in the extract which follows from Mr. mentioned in the extract which follows from Mr. qualities. In weight the Hubbard averages the GREGORY'S circular, and that is, that the Hub-same as the pure Marrow squash, though specibard squash, in the early stage of its growth, is mens have been raised under circumstances pefar better for boiling than any summer squash culiarly favorable, weighing upwards of twenty

While making up this account, we received by

South Danvers, Jan., 1859.

A NEW KIND OF APE.—Prof. Owen, the celeusually thicker than the Marrow, and remarkably brated naturalist, delivered a lecture with diafine-grained and compact in its structure. In grams, on man-like apes, and described a new quality this squash is universally conceded, as far species recently discovered on the western coast as opinions of its merits have been expressed, to of Africa, named the Gorrilla species, the adults the grain from the time of harvesting until the tremities are enormously developed. They exmiddle or close of November, after which it be-isted in some numbers in the interminable forcomes less dry, but very sweet and fine-flavored, ests of the Grambia river. The negroes of the tasting sometimes like a sweet potato, at others country, in their excursions into the forest in like a boiled chestnut. In keeping properties it search of ivory, exhibited little fear of the lion

gorrilla, for when he saw men advancing, he came down out of the trees to the attack, and could strangle a man with the greatest ease. The strength of this man-ape is enormous; his jaw is as powerful as that of a lion, and his canine teeth equally formidable.

For the New England Farmer.

HUNGARIAN GRASS SEED.

Will you please inform me through your paper where I can obtain some of the Hungarian grass seed?

Warren, Mass., Jan., 1859.

Remarks.—Among the new forage plants which from time to time have been introduced to the farmer, the Hungarian Grass is one which has met with much favor, and promises to become one of the staple grasses of New England. We suppose it receives its name from the country, Hungary, where it is probably indigenous, and supports vast herds of cattle on its fertile and widely extended plains. If such be the case, it must be adapted to our Western prairies, and pounds of milk produced a pound of butter; but become invaluable there both for pasture and in the month of May only 18.3 pounds were rehay crops.

If this grass is to prove a valuable acquisition, as we believe it will, the pure seed ought to be afforded to the farmer at a fair profit, so that he may avail himself of it at once.

draw upon the pocket of the purchaser, we find a regular spring laying: duty resting upon us which we embrace the ear- TREATMENT OF HENS.—Two flocks of hens liest opportunity to discharge. The pamphlet were compared. One laid eggs almost all the before us reads thus:-

ing sufficient to seed an acre.

The prices will be as follows:-

One bag for one acre......\$3.00

Now we beg leave to say to our friends that the pure Hungarian Grass Seed will be for sale in this city, at the Agricultural Warehouse of ican. Nourse, Mason & Co., Quincy Hall, or of Nourse & Co., 34 Merchants Row, for \$4,00 per bushel at retail, and \$3,00 in large quantities, thus saving about the sum of \$5,00 on each bushel purchased, for it takes, as we learn, three bags of twenty-eight pounds. about sixteen pounds each, to make a bushel!

For the New England Farmer.

A COMPARATIVE STATEMENT

OF THE PRODUCT AND VALUE OF MILK AND BUTTER.

BY GEORGE S. BOUTWELL.

I commenced saving milk for butter on the 10th of May last, and continued until October 1st. The milk was weighed once a week, and twenty pounds were considered equal to one can of eight quarts. The milk would have sold for eighteen cents a can, and the butter was sold for twenty-four cents a pound. I give the result of each month's operations:

MILK.	BUTTER.
May, 163 cars\$29,34	177 tbs\$42,60
June, $241\frac{1}{2}$ cans	201 lbs48,36
July, 1881 cans33,93	
Aug., 211 cans38,07	1933 lbs46,50
Sept., $202\frac{1}{2}$ cans36,45	174 lbs11,94
\$181,26	\$219.42
Cost of making 9141 lbs.	\$219,42 Value of residue of 1007
butter at 5½c\$50,28	cans at 8c\$80,56
4202.54	1,300,00
\$231,54	\$299,98 231,54
Difference in favor of butte	r\$68,44

It is thus seen that during the entire season 22 quired.

Groton, January 10, 1859.

HENS LAYING ALL THE YEAR.

Some people think that if they keep their hens warm in the winter, that they will lay eggs freely Side by side with the inquiry of our Warren all the year, but that is a mistake, as fowls can correspondent, we have a little pamphlet entitled, be made to lay but about 10 dozen eggs each in "Honey Blade Hungarian Grass Seed," emblaz- the year, if ever so great pains are taken with oned with the Coat of Arms of Hungary, and deal in the winter; and when they lay a good giving a history of the grass, with numerous ex-spring, so that not over the average of 10 dozen tracts from newspapers, by one Felix H. Benton. eggs are obtained usually. The Prairie Farmer The pamphlet bears upon its title the imprint, has the following statement, which leads one to "J. M. Emerson & Co., No. 406 Broadway, N. infer that his hens may be made to lay 100 or 7." Of all this we make no complaint—it is one ment of them. Still the better treatment spoken of those amiable weaknesses often resorted to, of is advisable, as more eggs will be laid in the to catch the popular eye and ear. But when we winter, by adopting it, when they command a come to the git of the thing, the point that is to better price, but it will be at the expense of the

time; the other laid scarcely any. On examining their treatment, the following differences were It will be put up in uniform bags of about found to exist: the former had a warm cellar to sixteen pounds each, the amount in each bag be-roost in during the winter; the latter roosted in a stable where the wind blew in. The former had a fine place in an open cellar for scratching among ashes, lime, and earth; the latter scratched in the manure heap, or in the stable when the cows were put out. The forner had plenty of of good water, with milk, &c., the others had no drink except what they could find.—Rural Amer-

> LARGE Hogs.-Mr. Benjamin Derby, of this town, has slaughtered this week two hogs which weighed thirteen hundred and thirty-five pounds. The weight of the larger was seven hundred and W. D. B.

Concord, Mass., Jan. 7, 1859.

For the New England Farmer.

CORN AND CORN STALKS.

crop is seeing the then universal practice pursued the ear to give the kernel maturity, while an inof cutting the stalks. This was generally done early in September. They were bound and stooked ripening of the grain, which, matured in this way, the same day, and in two or three weeks, as the con- unless the stalk falls to let it on the ground, venience of the farmer directed, they were housed will long remain uninjured by storms. for winter fodder. It was an animating sight, to see the ripe and ripening corn crops, the husks up the buts at harvesting with the stalks already falling from the long golden ears, reflective of properly secured, will not lose in comparison of rich maturity as the sunbeams fell upon them. the fodder saved by cutting up the whole at once. But innovation was in due time to spoil these Stock will do well on the leaves of the butts if beautiful features in the autumnal landscape. fed to them in early winter, to the exclusion of Somebody tried the experiment in a cold season other fodder, which may, probably, if given out, of cutting up corn when half matured and stack- create a distaste for them; for animals, like men, ing it an indefinite period. Circumstances favored will leave the less valuable food for the best the experiment. Perhaps an early frost cut off the standing corn and prevented its attaining the same degree of maturity with that which was cut of grain, the fodder coming in as an extra. Then, up. At any rate, the thing took, and for a few years every farmer, nearly, adopted the practice of cutting up his corn early, to ripen in stacks. For a year or two, I was among the popular number that adopted this course, but my experience was so bitter that the "old fogy" arose with broadcast, and harvest when the stalks have atin me, and I returned to the old way, which I have persistently followed.

The objections that I found to the "new way," were that it made a heavy work of harvesting; that in order to have the corn get sufficiently dry for husking and housing, a length of time was required that materially injured the stalks for fodder, and, what was worse than all, the corn

favor of grain ripened on the hills. Farmers, too, are beginning to see the difference as every year's observations go to show, while some who still cut up their corn admit the experience in corn raising for the last three years. inferiority of their mode of harvesting, but plead there can be no doubt but the stalk and leaves spring is all fine, and I am not troubled with what above the ear are of service in elaborating sap, is called "long manure." and in absorptions from the atmosphere long afthem.

After the tops reach the condition above alluded to, and are taken off, the point of separation soon dries over, so as to prevent the evaporation Among my earliest recollections of the corn of sap through the wound, and it is turned into creased exposure to the sun urges forward the

> Then the amount of fodder saved by cutting properly secured, will not lose in comparison of

when both are set before them.

The idea of raising corn, is, first for the erop the next thing is to get the largest amount of sound, bright corn. This, in my experience, is gained by cutting the stalks as soon as they begin to show full maturity. If corn stalk fodder is the thing sought, the better way is, to sow tained their growth. W. Bacon. Richmond, Jan., 1859.

For the New England Farmer.

WHEN AND HOW TO USE MANURES.

Mr. Editor:—Being a reader of the N. E. was not so bright and heavy, while the good, Farmer (monthly,) I notice that there are various rich, old-fashioned golden puddings were out of theories about the use of green manures, especialquestion. There was not the life or nutriment ly that taken out of "barn cellars." More parin the meal, I find in that where the grain ripens ticularly a communication from A. WARD, in the "the natural way." Such were my impressions, at least, and in order to convince myself whether MANSFIELD, in the January number of 1859. Mr. it was a whim, I inquired of several millers, of W. seems to be at a loss how to apply his mathe relative value of corn harvested in the two nure, and Mr. M. seems to suggest the idea that ways, and found them unanimous in declaring in the south side of, and under the eaves of the barn, is the most suitable place for manure to be kept,

Four years ago a cellar was made under my the saving of labor at the cost of the ultimate barn 8 feet deep, for a shed for cattle and deposit value of the crop. Then others have taken the for manure, the cattle being kept in the stable other extreme, and question the propriety of dis-labove, the manure falling directly underneath, turbing the stalks at all until the crop has ri- and thus receiving the urine of the cattle. I cut pened. After the pollen has fallen from the tas- all kinds of fodder except hay, and what is left, sels, one service of the stalk is performed. Yet if any, is used for litter; thus my manure in the

My practice has been, generally, to break up ter the follen has ceased to fall, and when the my green sward, which is a sandy loam from 8 tassel is becoming dry, and the greater the to 10 inches deep, late in the fall; in the spring amount of elaborated sap that is thrown into the roll my ground, cart out my manure in its green ear, the more rapidly it will mature, and the more and crude state, from 15 to 18 cords to the acre. perfect its maturity. But when the leaves begin Spread upon the ground and immediately give it to dry upon their edges, and exhibit around the a thorough harrowing, or cultivating so as to border a torn appearance, it matters but little thoroughly mix the manure with the soil; then, how soon the stalks are taken off, which should just before planting, plow the ground from 3 to always be done in fin weather, and they put in 5 inches, and harrow again. For the last three a condition to hay as fast as possible. A few fine years I have raised from 60 to 70 bushels of corn days will hav them thoroughly, and if they are per acre. My success I attribute to the strength well secured, all kinds of stock will thrive upon and thorough mixture of the manure with the soil All the manure from my cattle, horses and hogs, is kept under cover until carted out in the ened an interest in the improvement of this the spring, and as long as my crops of corn, oats, most important implement in agriculture. potatoes and hay are about double what they used to be under the old system of having the manure scattered about the yard, and the heaps at the windows "under the eaves on the south eral years, and contained a large number of valside of the barn," I think I shall continue the uable papers, and was not discontinued till agripractice of keeping it from sun and rains until wanted for use, or until I am convinced that I W. C. White. am in an error.

Barre, Vt., Jan. 9, 1859.

Remarks.—Statements of such practical operations as the above are valuable, and will help at Brighton. In the same year they gave varito settle the question under discussion. We ous premiums for agricultural machines, and imshall be glad to have Mr. WHITE still further aid us in settling it.

THE OLD MASSACHUSETTS SOCIETY.

The Transactions of the Massachusetts Society for the Promotion of Agriculture have been laid on our table.

This time-honored Society has now been steadily and diligently pursuing the bject for which it was established, for sixty-six years. Associated in its labors, have been from the beginning, some of the most talented, philanthropic and patriotic heifer. men in our Commonwealth. This society is believed to be the third in order of time, formed, established and endorsed, (in any part of the world) to promote the cause of agriculture, and has never lost sight of its object. It has been stock. chiefly sustained, and its funds furnished by the "merchant princes and solid men" of Boston, who have been as fully awake to the importance of agriculture to the prosperity of the Commonwealth, as any other class of its citizens. were the first to take into consideration the low state of agriculture in the State, and to associate themselves and procure from the Legislature an act of incorporation for its promotion. have held monthly meetings and devoted unstinted labor to the object. They have initiated a large proportion of the improvements and institutions to which the State is now indebted for the advanced condition of its agriculture. will now enumerate a few of them.

In 1801, Fairs for the sale of stock were proposed by them, which were the origin of the present fairs held at Cambridge and Brighton.

In 1802, Merino sheep were introduced into the State, under their auspices.

In 1804, the Botanic Garden at Cambridge owned its establishment to their efforts, and was sustained in part by their funds for several years.

In 1808, they offered \$1000 in premiums for various agricultural and mechanical improvements.

In 1813, an agricultural journal was issued under their supervision, which was continued sevcultural newspapers were ready to supply its place.

In 1814, they gave the first premium to a strawcutter and threshing-machine.

In 1816, the Society held its first Cattle Show ported two Alderney bulls and two cows.

In 1817, they established the first plowingmatch ever held in the State, and which led to their establishment throughout the State.

In 1819, they imported wheat and turnip seed from France and millet from Russia.

In 1821, they offered \$2000 in premiums for stock, farms, farm products and implements.

In 1823, they offered large premiums for farms, and introduced the mangold-wurtzel and ruta-

In 1824, they procured a Hereford bull and

In 1825, a Yorkshire stallion and mare.

In 1835, they imported at large expense, an Ayrshire bull and three cows.

In 1845, they imported specimens of Devon

In 1850, they imported more Alderney stock.

For the present year they have offered \$1000 for the best plantation of forest trees suitable for ship timber, of five acres, and \$500 for the best conducted farm.

During this long period, they have aided by their funds and influence the several county societies, all which may be considered the legitimate offspring of this venerable parent. The Middlesex Society, the oldest of the flourishing family, owes its origin to a circular addressed to several gentlemen in the interior of that county by this Society, and the rest have been born in regular succession. Since the county societies have established annual fairs all over the State, the Massachusetts Society has ceased its annual exhibitions, and appropriated its funds to the diffusion of information, the importation of stock and other measures designed to promote agriculture throughout the State, and especially such measures as would not be likely to be undertaken by the county societies. Its action for the few years last past has not brought its officers so directly into personal contact with the farming population of the State, as formerly. As its movements occupy a smaller space in public, and make In 1809, they imported a plow, which, with less show and parade, some have been led to inthe premiums they subsequently offered, awak-|fer that it is falling into its dotage. But we are not at all disposed to make this inference. It should not be increased. What he means in ically, have been forgotton.

Recording Secretary, and suggests the value and interest of a more extended selection from the records of the Society. A history of the agriculture of the State would show who have ever been the true friends of the farmer, and if prepared as it would be by the Secretary, would be a noble monument to the memory of the noble men who founded this Society.

scattered among the people, would not only be a matter of justice to the Society itself, but would correct that spirit of complaint which has been mass meeting of meadow-owners in Concord, Demanifested within two or three years past. Those cember 27th, in the Boston Journal, also copied in who conduct its affairs are men of the world, of the Farmer, presents something of a view of the integrity, and of sound judgment, and are un- nature of the case. questionably desirous of promoting the agricul-their wrongs, as honest farmers not accustomed tural interests of the State in every way, so far to litigation, and allowed one or two individuals their control will permit.

gratitude, and we wish it a long life of usefulness and high character, such as it has always Not even an uninterested mind with a knowledge sustained.

by a large number. It has done well in the past, thirty and forty acres each, is the main depenture.

For the New England Farmer.

THE GOVERNOR'S NOTIONS OF AGRI-CULTURE.

Very properly, (as I think.) does the Governor tracts from their income. place the interests of agriculture in the front pared with the benefits to accrue.

ganizations should be disturbed, at the same distance. time clearly indicating that these inequalities But it is argued by some in opposition that

is aiding the good cause, by means, which, though speaking of town societies is not readily seen; quiet and unostentatious, are yet powerful, and but I presume he would not recommend an apwill be felt for good, long after the more noisy such societies. That they can be advantageously displays of those who are good farmers period-organized, we have no doubt; that they may be made useful auxiliaries to county societies, I be-The present volume is highly creditable to the lieve is equally clear; but that it is not expedient to increase the number of societies (favored by bounty) beyond the number of counties, has ever been my deliberate opinion.

Jan. 12, 1859.

For the New England Farmer.

FLOWAGE OF LAND ON CONCORD RIVER.

The injuries sustained by meadow-owners on A brief statement of what the Society has done, Concord River and its tributaries, together with

These meadow-owners have too patiently born as their personal labors and the funds placed in to pursue the subject alone. But their growing their control will permit. For our part, the Society has our respect and action, and they are now banding together for a thorough investigation in view of an ultimate remedy. It is not a question of trifling moment. of the facts can call it such. It has sufficient lo-We were honored with an election to this So- cal interest to entitle it to public consideration, ciety several years ago, but have never attended the welfare of a large community. It is even any of its meetings, or known of one having ta- connected with matters concerning every inhabken place. While there is probably no rule of itant of the State. Thousands of acres, much of exclusion to any, we cannot doubt but its affairs which is more valuable than upland, rendered are better managed by a few than they would be worthless to swell the coffers of a very few. This meadow land, owned by farmers, from five to and we have entire confidence in it for the fu-dence of their profit in farming. It demands no expenses for cultivating or fertilizing, but yields its annual crop with only the cost of harvesting. And farmers have depended on it for their winter's supply of hay; its loss subjecting them to the necessity of buying hay, or keeping a less number of cattle; either of which methods de-

But aside from pecuniary loss to farmers thus rank in his message, not to be cut down by the interested, another important and more general enemy, but to be greeted by friends; for credit view of the subject regards it as the cause of deis given to the exertions of those who have so terioration of health. The miasma from standdisinterestedly and effectively sustained our ag- ing water on the meadows, and the decomposiricultural associations. All praise be to him, who by precept and example does justice to the industrious tiller of the soil, by whose efforts (next world as grave advice, and I think through the to the smiles of Heaven,) we "live, move and Farmer, not to suffer vegetable matter to lie have our being." No complaint is made of the about, exposed to the atmosphere, to absorb its annual appropriation of \$12,000 for the sustain-noxious qualities, because injurious to health. ing of these institutions—a mere pittance com- But if this advice should be deemed necessary on with the benefits to accrue. account of a few small quantities, how much His Excellency appears to have a just sense of more so when the air is tainted by thousands of the irregularities, in the present distribution of tons of decaying matter lying on the banks of a this bounty, but doubts whether the present or- river for miles, with dwellings within a short

those situations on the plains near the river are healthiest. This may be a fact; but it determines society I cannot say as much. Premiums for nothing against the principle. If they are health- horses, in every possible form, and twice as much iest, it is because the miasma rising into the air as for neat stock, are still proposed. This seems passes over the plains. But somebody gets it to indicate, a sort of bravado interest, as much those who live on the hills and highlands. Fogs as to say, we know what we are about, and will will be seen settling on the hills. This may be do as we please, let others say what they may the reason why some situations on the hills are against it. I do not run to horse, so much as do so unhealthy, as some in this town are more so our friends at Plymouth, at Springfield, and at than other places; and thus by the miasma rising Worcester, and I think the time will come, when higher into the air, the injurious effects are more they will see the error of their ways. If they do widely spread. For even a light wind, moving not, I think their practices will be a great damat the rate of twenty or thirty miles an hour, per upon healthy agricultural improvement in will carry the noxious effluvia over a broad ex-|the Commonwealth. tent of territory. Therefore the question is not altogether local, but concerns the inhabitants of distant parts of the State. The flowage of so much land in various parts of New England may be one cause of a decrease of health; for few things are more injurious than impure airwhether in doors or out.

Then, as flowage of land, not only in this case, but in others, is for the advantage of a few individuals to the injury of many, is it not the duty of every advocate of equality of rights to define the privileges of all according to strict justice? Will future legislators show the blindness of their predecessors to common rights and privileges, by further enactments, or remain silent regarding the present, favoring incorporated companies at the expense of general loss? Can an individual man, without money and without to buy. I would like to see a statement of the influence, boast of an independent government exact cost of raising a field, from the time the and equality of rights, if money and influence are ground was plowed in the spring, till the last weights in the scale of justice?

It is to be hoped that the agitation of this question will not cease, until justice shall have asserted its power in determining the rights and privileges of incorporated companies, and in sustaining the common rights of all.

L. H. SHERMAN.

Wayland, Mass., Jan., 1859.

For the New England Farmer.

AGRICULTURAL TRANSACTIONS AT PLYMOUTH COUNTY.

them. I was particularly pleased to see in the land for a root crop?" publication for 1850, a compendious digest of most vigorous, ultimately left in the hill. These or timber. will give a sufficiency of stalks to yield an abunabout our barns and pig-sties he gives a prefer-extra corn on an acre enough to fat him. ence, not rejecting entirely the new-fangled pre-parations, far-fetched and dear-bought. Such "That no turnips, no hogs." I have thirty of sound advice as this I respect, wherever found. | the hog kind, large and small, and I do not find

For the equestrian spirit manifested by this

January, 1859.

For the New England Farmer. ROOT CROPS.

Mr. Editor:—As I am the only one of your correspondents, who does not think much of turnips as a crop to raise for stock and hogs, you will allow me to be heard oftener than you would if others took the same side. Your correspondents give me all sorts of advice, and recommend turnips for all kinds of stock. Gentlemen. I am much obliged to you, but I have tried them to my entire satisfaction, and reject them.

They raise them much cheaper than I ever did, but even at their tables of cost, I do not wish bushel was fed out, either in hours or dollars, not estimated, but kept from day to day. Your correspondent, Mr. Bassett, gives his statement, but I presume he will not say that \$7 was the exact cost of raising his 103 bushels of turnips, but only the estimated cost, in his opinion.

He took sixteen rods, or one-tenth of an acre, and calls the manure \$1,00. I do not know the worth of manure with him, but here at \$5 a cord, and to those who buy it costs more, it would be about one-half an ox-cart full, or allowing that but half the goodness of the manure was spent, one cart full, or ten loads to the acre. To I always look at these with great interest, know- use his own language, "Would any sane man vening the wisdom and experience that has directed ture to put ten loads of manure to an acre of

He recommends me to read a communication the mode of growing Indian corn, in that region, signed "The Desponding Farmer." I do not by a gentleman who has probably given more at-think that would apply to me, as I both like tention to this matter than any other in the farming, and think I find it profitable. I love State. On looking it over, I do not find any estate. On looking it over, I do not find any estate farm, the stock, the barn, the produce, and sential difference in his rules, from what I had all that a good farm produces. I have had quite been taught from my youth. He would have a number of farms thrown upon my hands, as the ground plowed six or seven inches deep, and guardian, executor and administrator, and in evdressed with about eight cords of manure to the ery instance, I have been able to show an income acre. He would have the seed selected in the in dollars and cents, more than the interest of field—well-formed ears, that ripen the earliest; what the farm brought, over and above the carry-hills about three feet apart, and four stalks, the ing on, taxes, &c., and that without cutting wood

I agree with Mr. Bassett that the hog, properdant harvest-say eighty bushels to the acre. ly cared for, is a very important consideration More than this may not be expected, without with regard to the corn crop, and all other crops. extra hoeing and manuring. For the manures I believe that a hog, well cared for, will make

But his last conclusion I do not believe in :-

weeks, from twelve to fifteen months old, that little. averaged over 350 pounds each, and I do not mother, or turnips, and yet they cost me eight give rise to striking differences. cents a pound. I admit that hogs, and all other sell or do to use in the family.

We have as good a set of farmers in Hollis as you can find in the State. They have drawn minous plants. premiums for their farms, their nurseries, their crops, their teams, almost always where they have tried. They have almost all of them tried roots, and after a few years given them up, and I venture to say, that the gentleman that raised 2500 bushels this year will not raise 2500 bushels a year ten years from this time, or in 1868.

State, and for the last fifteen years has been in He went into the roots are crops largely, prize of one hundred and fifty dollars. the milk business, where roots will tell, if any raising English turnips, ruta bagas, sugar beets, farm, his nursery, and various kinds of produce, ably treated. The author sayscorn, oats, wheat, apple and hay crops.

turnips, apples or any of the roots for stock or under the floor, and to convey it into a cistern in hogs, when wood is worth \$4 or \$5 per cord; but the cellar, or outside of the barn. This may be when it is not more than \$1 or \$2 a cord it may pumped into a water-cart, to which a sprinkler is do. Nor will it do to compare our farming, where attached, similar to those used in watering the labor is so high, with the farming of England, streets. If it is pumped in through a strainer, the Ireland or Scotland, where labor costs compara-sprinkler does not become clogged, and it may tively nothing, and where they cannot raise corn. be rapidly conveyed to the field, and distributed If they could raise from 30 to 100 bushels of corn, as a top-dressing, upon grass or grain, with imin England, to the acre, you would not hear much mediate effect. When the soil is not deficient in of their turnip crop. People should raise what carbonaceous elements, there can probably be no their climate is best calculated to raise to profit, better top-dressing applied. It is not as permaas their great crops.

they came out well. I have kept my young cat- one dressing of solid manure. The cost of the tle through, on corn fodder and meadow hay, for necessary apparatus for saving and distributing years, without the turnips and they came out it, is small. As a top-dressing for a field where well. I prefer to use a part corn fodder for my turnips are to be grown, it is very excellent. As oxen and cows, to all English hay, and they do a top-dressing in the spring, or during the sumbetter on it, and the cows give more milk.

Hollis, Dec. 25, 1858. E. EMERSON.

SCIENTIFIC CONCLUSIONS.

Scientific experiments, as well as theoretical hypothesis, have established the following posi-siderable attention, and the writer has given tions. We believe they may be set down as agricultural truths:

Substances, rich in nitrogen, increase the verdure, lengthen the straw, and promote and prolong the growth of plants.

pening of both corn and root crops.

the least difficulty in making them grow without comparatively in minute quantities, on some soils, turnips or milk. I have killed three within a few produce a remarkable effect, on other soils but

While one substance, applied alone, produces think they ever tasted milk, except from their little or no effect, a mixture of two or more may

Phosphoric acid, lime, and some form of orstock, will do better on a variety of food. I use ganic matter, are essential constituents of such corn, rye, shorts, rice-meal, and such refuse po- a mixture as shall everywhere and under all cirtatoes, apples and other stuff I have, that will not cumstances produce a marked, beneficial effect on old, worn-out land.

Sulphuric acid has a beneficial effect on legu-

PRIZE ESSAY ON MANURES.

We have before us, and have perused with a lively interest, an Essay on the Preparation and Application of Manures, by Doct. Joseph Rev-Our late townsman, William P. Saunderson, NOLDS, of Concord, Mass. This essay was pre-Esq., was as good a farmer as there was in the sented to the Massachusetts Society for the Promotion of Agriculture, and received their highest

The essay commences by stating that Salts, carrots, &c.; but after a careful trial of at least Gases, Acids and Water are all essentials, and twelve years, he gave them all up. In apprais- then proposes the inquiry, How many of these eling his estate, last week, not three bushels of ements are necessary to constitute a manure? The roots, potatoes excepted, of all kinds, were found subject of Liquid Manure is also introduced, and in his cellars. He has taken premiums for his ably treated. The outbox care

yet he gave up the root culture, and spent his la- | The saving and use of liquid manures is deservbor, his manure and his best land to increase his ing of more attention than it has yet received in this country. It is easy so to arrange the stalls I do not believe that it will pay to boil potatoes, of cattle, as to receive their urine into troughs nent in its effects as the solid excrement, but One man tells me he kept some young cattle more immediate, and it may be applied twice a through, on corn fodder, straw and turnips, and year upon grass, with less expense of labor than mer, for pasture lands, it is perhaps superior to any dressing that can be applied. If the undiluted urine is thought too strong, it may be easily diluted in the field, if water is at hand.

> The Application of Manures has received conmany facts, and offered suggestions that will prove of high value to the attentive reader. He

One great necessity for applying manure in Lime generally shortens the period of growth, our climate, is, that plants may be forced more strengthens the stem and hastens the time of ri-rapidly through all the stages of their growth, since if left to themselves, the season would not Saline substances, applied alone, and even, be long enough to bring them to perfection; and

that system of culture which pushes them for- and mountain. Moss, turf, shrubbery, and trees ward early, that they may get well rooted, and formerly took hold of the moisture, forming it therefore be the better able to endure the droughts into lively springs, and quiet brooks; now the cultivate many crops, with a much less amount try. In flat regions and closed valleys, where of stimulants than we require at present. Now the forests are destroyed, the waters accumulate we have to guard against the droughts of sum- and form unhealthy swamps. Formerly the trees hill. In this way, with a season at all favorable, mountains, where in ancient times was the celethe erop will rarely fail.

the writer has had the advantage of a practical experience on the soil to blend with his chemical a value which a mere theorist cannot impart to his productions.

THE DESTRUCTION OF FORESTS.

By ROBERT DEMCKER, Landscape Gardener in Cincinnati. Translated for the Ohio Farmer, by Dr. C. A. Hartman, from the German of the Cincinnati Hochwachter.

The social life of the plants has recently given rise to many contemplations and experiments, those great means of national welfare and genthe results of which are of the highest importance eral blessing. All wise governments have comto the tiller of the soil, as well as to the horticulturist. We have learned, that the existence have provided a regular protection and care for of a great many plants depends on their associa- it. This regular management of the forest is, at tion in large masses, while others, small herbs present, preserving and culturing the few reand even shrubs, need the protection of their tall-maining mountain-forests in Germany, France, er relation, the trees, under the shade of which and Belgium, is producing new forests in desertthe earbonic acid finds the necessary temperature ed and swampy districts. Such a scientific and for its decomposition, and proper assimilation by the smaller plants; for these the trees also prepare the humus wanted for their further nourishment, in the leaves and other parts falling off every year. Many social plants deprive the around of certain inorganic ingredients, which ground of certain inorganic ingredients, which are absorbed again and given back by other plants partly in their decomposition, partly in the secretions of their roots. All these plants live harmoniously together, supplying each other; Now we do not want to quarrel with the farthe life of the one kind wholly depends upon the mer for cutting down his trees, be it for the purexistence of the other. These facts have led to pose of making money out of them, or to get the alternation of crops, and have made agricul-more room for his agricultural propensities; we tural chemistry one of the most important assis- deem it his duty, however, to repair the damages tants on the farm and in the garden.

plants, commonly called forests, are the genera-most useful to himself. We will show how it tors and regulators of the vital air needed by the may be accomplished supposing a man is willing animals; they are also the fathers of the springs, and persevering enough to try it. attracting the rain and spreading it successively as well as proportionately over the ground where mosses, and other herbs, with densely arranged sive orchards with high-growing trees ought to

of July and August, and thus arrive at early ma- water runs down unimpeded, breaking loose and turity, before the frosts of September, we think carrying off the ground, spreading sands and must be the best system. Could we add another stones all over the fields and meadows, swelling month to the summer of our elimate, we could the rivers and inundating the surrounding counmer, and the early frosts of autumn, and I do consumed, in these places, all superfluous fluidinot esteem it safe practice, to deposit the manure ty, and the obnoxious gases arising from the for the corn so deep in the soil that the growing stagnant waters. The Roman Campagna, for incrops cannot reach it till late in the season, stance, once the well cultivated home of whole na-When stable manure or compost is plowed in tions, where now the most pernicious fevers are deep, we would recommend the application of raging, the dreaded malaria drives off in summer well diluted guano, ashes or fine compost in the time the few inhabitants to the neighboring brated granary of Rome. This, and the present This essay is valuable, because in preparing it, condition of Spain, Greece, a part of upper Italy and of the southern part of France, show in the most evident manner, the productiveness of soil and men is diminished by the destruction of the acquirements in the laboratory; and this varied forest; islands like England may overcome to a knowledge has so tempered both as to give them errtain degree the fatal consequences of such destruction.

The forest is the greatest benefactor of mankind; it is a necessity everywhere, and still it is everywhere more and more destroyed. Room is wanted for the fields and meadows; wood is wanted in great quantities; the forest has to furnish both, without regard to its own preservation; human wickedness and foolishness, political storms, and other causes, destroy inexorably prehended long ago the utility of the forest, and

Now we do not want to quarrel with the farnts on the farm and in the garden.

The large associations of high-growing woody more so, as this can be done in a manner the garden.

Wherever the soil is easily washed away by mosses, and other herbs, with densely arranged roots, detain the water so received for quite a long time, and retard its evaporation. The disappearing of the forest causes not only want of wood and water, a dry and poor vegetation, but usually promotes inundations. The falling rain then washes down unhindered the soil from hill

orchards can never replace the forest completely; they are, however, important and profitable means to diminish the fatal consequences of the disappearing forest. Apples, pears, cherries, peaches, peccan-nuts, Italian or Spanish chestnuts, are particularly adapted to such a planta-Treasury for this purpose, and distributed to tion. Ditches, swampy flats, and similar locali-ties, may be covered with Lombardian hazle-ing more than \$600. So far this is well, and as nuts, and all places not accessible to cattle can it should be. I have noticed some complaint of be surrounded by fences of quince trees.

amine these propositions, and to act in accord-sight in the Legislature in making the grants, ance with them. Whoever feels interested in more than in the societies who received them. the welfare of his contemporaries and their de-Such irregularities will hereafter be guarded scendants, will do well in setting an example to against. It was a condition of such grants from

his neighbors.

A SCOTCH LOVE SONG.

[FROM THE GREENWICH AND WICEFORD PENDULUM.]

They told me thou wert false, Jamie, And did na care for me; I heeded not their voice, Jamie. I thought it could not be, So loving were thy words, Jamie, So winsome was thy smile; I did na think that it, Jamie, Could veil one thought of guile.

Dost thou recall the hawthorn glade Where we sat side by side, When, on a summer's night, Jamie, Thou sued me for thy bride? My heart was very full, Jamie, As in the pale moonshine, I promised to be thine, Jamie, To be forever thine.

Together there we knelt, Jamie, The bent and reverent knee. And prayed our Heavenly Father's love Might rest on thee and me. So radiant seemed my path, Jamie, My cup so full of bliss. How could I e'er dream, Jamie, That it would come to this?

I never see thee now, Jamie-Thou comest not to me: 'Tis said thou seek's another's love Ah, Jamie. can it be? They tell me she is rich, Jamie, And of a lordly line, Not thrice her wealth and rank, Jamie, Could buy a love like mine.

My cheek that erst was red, Jamie, Is palin' day by day; I felt it in my heart, Jamie, I'm wearin' fast away. Then, Jamie, when the Summer comes, And blossoms clothe the tree, Bestow one loving thought on her Who died for love of thce.

н. А.

Rose Insects.—If our lady readers are desirous of keeping their rose-bushes free from the small green vermin that so frequently infest subject. them, the following remedy will be found a most effectual one: To three gallons of water, add one peck of soot and one quart of unslacked lime. Stir it well-let it stand for twenty four Mass., has discovered the cause of the potato hours, and when the soot rises to the surface, rot to be a "general poisoning or corruption of skim it off. Use a syringe for applying it.

EXTRACTS AND REPLIES.

APPROPRIATIONS FOR THE SUPPORT OF AGRICUL-TURAL SOCIETIES BY THE STATE.

About \$12,000 is annually drawn from the there being more societies in some counties than All farmers are respectfully requested to ex- in others. If this be an error, it was an overthe State, that the society should have raised their funds and invested them on interest before they would be entitled to favor from the Stte. How those societies who have laid out all their money in land and buildings—from which no interest or income accrues, or can be expected to accrue,-can entitle themselves to a share of the bounty of the State, is beyond my power to imagine. I think it must be by a hocus-pocus such as is said to be in use occasionally at Uncle Sam's custom-houses. I think if gentlemen so upright as the Governor and Treasurer should chance to run upon any such management, they would hesitate a while before they would suffer the money to be drawn. If they do not, they will ere long find the stool on which they themselves stand to be in a tottling condition. INQUIRER,

Jan. 1, 1859.

COTTON SEED MEAL.

I notice in the April number of the Farmer that you speak favorably of cotton seed meal for milch cows. Does your experience since that time confirm the opinion you then expressed? I have fed it to cows and calves to a limited extent, and have not noticed any injurious effects. But I have recently heard opinions expressed unfavorable to its use, by those who have fed it to a large number of cows. Indeed, the objections to it were very strong, principally, I believe, in consequence of its effects upon the physical condition of the cows.

I should like to hear from yourself and others who have made trial of this meal. Analysis shows it to be richer than linseed meal, and I suppose it can be bought for a less price.

REMARKS .-- We have used a ton or two of cotton seed meal, and we have thought with good results—though we were not able to make a comparison of it with other grains, in feeding it out, in consequence of frequent absence from home. But from what observation we were able to make, and the report of the man who tended the stock, we were favorably impressed with it as a feed for milch cows.

We shall be glad to hear from others on the

A NEW DISCOVERY.

It is stated that a gentleman of Fitchburg, the surface soil." As a remedy, he proposes to

bring the subsoil to the surface, in sufficient from the path of propriety, they would leave a quantities to avoid the use of the surface soil, in record that would shine brighter and brighter, the growing of the plants; just as though the unto the perfect day. same causes that diffused the poison over the surface, had not spread it in the subsoil also. I should as soon think of prescribing "the taking off the skin of a man" for the cure of the itch, or any eruption apparent on the surface. So tion, is a subject which I feel particularly interprone are men, when they get hold of an idea, to ested in, and though my observations of these run it until it merges in absurdity.

BUTTER IN WINTER.

I often see directions how to make good butter in your valuable journal. In making butter, carrots for several weeks; since that time we sons, if any, will deny, but that there is a trans-62) without making the butter come. Do you cepted, few realize, and yet this is true, I believe, suppose the carrots have a tendency to prevent entirely true, and that I can substantiate it.

making of butter.

milk is set in some place, cellar or closet, where now we are suffering from such practices. the temperature will remain at 60° Fahrenheit, eream will rise abundantly, and the butter will come in ten minutes after commencing churning the eream. Some persons scald the milk when it comes to the house-but that is not so essen-clapboards or battens. My experience for quite tial as an even temperature at 60° for the milk to stand in. We are making 20 lbs. per week without the slightest difficulty.

MASSACHUSETTS AGRICULTURAL SOCIETY.

With the mercury 8° below zero, I have just examined the pages of Mr. Secretary Fay's publication in explanation of the doings of the Massachusetts Society for Promoting Agriculture. Although the predominating influence of wealth is apparent on every page of this Society's history, still there is sufficient of good developed to better, and they are better everyway, if it be make the whole worthy of commendation. For worse, for being born a millionare, or chancing the old-lashtoned loose boat to have married a wife that is one; still it must pot believe, come and see. be admitted, that there are some things that such persons can do, that others cannot do. I rejoice that this publication is made, because I think it will put down that ambitious spirit, that appeared in 1857, and is again beginning to show itself ing. December was a pleasant month. the State. If other associations would proceed cheep. As a general thing, farmers here keep with a single eye to the general good as they more stock than hay, so hay is kept high, and have, and not allow themselves to be swerved cattle poor—a poor policy, I think. There are

January, 10, 1859. Essex.

FRUIT TREES-EFFECT OF GRAFTING.

Mr. Editor: - Fruit trees, and their cultivaare home observations, and consequently quite limited, yet if they can be of use to any one, I am willing they should be further published in your valuable paper.

That each tree has a condition of life peculiar I find many obstacles; my cow has been fed on to itself, long, short, or intermediate, few perhave churned several hours (with the cream at fer of such condition by grafting, old age not exit? If so, is there any way to avoid it? Can the But, says one, "If this be true, why then a large cream be churned again by any process? proportion of our fruit tree interests are of no Jan. 11, 1859. A SUSCRIBER. account, for they have been grafted from old trees!" Well, this is even so, and were I to make a comparison of the thing, I should say that ania tendency to produce good butter, and not to mal life can as well be re-instated by the susteretard in any way its coming. If you have churned nance which has established and perfected it, a day or two on your cream, you had better ap-manhood, if you please, as that a fruit tree can propriate it to some other purpose than the flourish any considerable length of time, when grafted from an old one, and the reasons are just as obvious. The truth is, that the life principle, The first thing essential in making good but- the tree life principle has been shortened in, and ter in winter, is to get good milk, and then if the in, until no hing comparatively remains of it, and

> W. T. BLANCHARD. Walpole, N. H., 1859.

CLAPBOARD OR BATTEN BARNS.

A "Subscriber" wishes to know if he shall use a number of years is, to use neither for ordinary barns. My practice is, to use half-inch lining boards, and then board with straight-edged boards one inch thick, taking care to make them break joints with the lining. It has this advantage over battens, that, with a less number of girts to nail to, wind and storm is perfectly excluded, it being understood that the boards and linings are well-seasoned before they are used. I find by experience, that hay can be put into a tight barn much greener, and it will keep much better, than it will in a loose boarded barn; the myself, I do not think a man any the better or properly ventilated, than they possibly can be in the old-fashioned loose boarded barn. If you do D. D. Powers.

Pittsfield, Mass., Jan. 10, 1859.

WEATHER AND CROPS IN MAINE.

We are having pleasant weather and fine sleighon the banks of the Connecticut. Every person ground froze up rather early, so that most farmwho reads this handsome volume of 150 pages, ers did not do up their plowing. Corn and oth-will be satisfied that those who have managed er grain did well, excepting wheat, of which there the concerns of this society have had a high and is not much sown about here. Potatoes turned honorable purpose, of doing the best they could out well, and not so many rotted as usual. Hay to advance the best interests of the farmers of is rather high, twelve dollars a ton, and stock

a good many such farmers that will sell their hay, and cheat their cattle, and soil, for the sake of a few dollars, for the present time.

West Danville, Me., 1859.

INJURED HORSES.

To "Taunton"-I have known a horse to receive a very severe cut from kicking against the plate that attaches the whiffletree to the crossbar, severing the cord so that it protruded from the wound, to recover, so as to perform carriage and farm work without inconvenience. Three-fourths of an inch was cut off, and it was then placed back, and, as is well known in surgery, the interstice filled and restored the ankle to nearly its former strength and flexibility. Nashua, 1859.

The one Remarks.—We are glad to hear it. or two horses we have seen thus injured, were it to the action of frost. The same power which utterly ruined.

FLOORS IN HORSE STALLS.

"W. D. L." is informed that it is customary to build horse stalls with inclined floors, but they are usually inclined more than is necessary to secure the object-cleanliness, particularly in salestables, as it makes a horse look larger to have his forward feet elevated three or four inches, but it is very objectionable for a horse that stands much in the stall. One-half inch to the yard is amply sufficient.

It is a very good way to construct the floor of two thicknesses of inch boards instead of one of plank, matching the under layer, and placing the upper boards about three-eighths of an inch apart, using boards about six inches wide, economises the bedding twenty-five per cent.

Nashua, N. H., 1859.

V. C. G.

DANVERS RED POTATOES.

Mr. William Hanson, of Barre, Vt., raised the past season, 505 bushels of Danvers red potatoes on 1½ acres; also 725 bushels of oats on 13 acres (10 aeres greensward.) L. H. THURBER.

Washington, It., 1859.

DUCHESSE D'ANGOULEME PEARS.

J. H. Jones, Esq., Clinton, Illinois, writes us that he raised the above named variety of pear last season that weighed from 12 to 17 ounces

Should like the volume mentioned, if it can be sent free of cost.

BUNCH ON A HORSE'S LEG.

Can you or your readers tell me the cause of a bunch on a horse's forward leg, below the knee on the inside; I think it is called a splint; and if it can be taken off, or if it hurts a horse? The bunch is as hard as bone. A Subscriber.

Millbury, Mass., Jan., 1859.

A MORRILL COLT.

Mr. Perley Roberts, of Washington, Vt., has a Morrill colt, foaled June 13th, 1857, which soaked most water of the three. weighed, Dec. 29th, 1858, 9472 pounds. He had no extra keeping.

For the New England Farmer.

ROOFING MATERIALS

DEAR SIR: -- When I answered your questions about roofing materials through your paper, I did not expect to arouse the wrath of all the proprietors of unmentioned small quarries in Vermont, nor did I wish to involve myself in a newspaper controversy, nor did I suppose I should be purposely misrepresented.

I did not say that slates must fade to be as good as the Welsh, but that all the strong and best Vermont slates do fade upon continued exposure to the weather, whilst all which do not fade are soft and of little value for roofing, however well they may be adapted to slabs, &c. The fact is unquestionable, and may be proved by any one who will trouble himself to try the experiment of wetting a slate which soaks water, and exposing will break your pitcher when full of water, by freezing the water, will in a few seasons' exposure, disintegrate the slate.

My object in writing you was to convey desirable information to those of your readers who may have buildings to cover, and to facilitate their researches; after giving the merits of slate for a roof, I gave tests of value. These tests are admitted by the best authorities to be of absolute importance, and properly applied, will satisfy any experimenter.

For power of resistance to frost and consequent power to resist disintegration, the quantity of water a slate will absorb in a given time, the one

absorbing the most is the poorest.

For strength, elasticity, toughness and long resistance to strain when laid on the roof, or to concussion of hail, of falling stones, bricks, or the tread of persons moving over the roof, the weight a given slate will bear without breaking when supported by its extremeties and loaded in the middle.

These two points settled for or against any different specimens of slate, that one will be best for general use which is equal to or better than all others in strength, &c., and in inability to soak water, and which splits with the greatest uniformity and smoothness, and yields the largests number of squares to the ton.

I am aware that slates according to their size should be thicker or thinner, and that some absolute thickness is proper for each size, but the least increase over this proper thickness, is a loss to the purchaser, in the strain of unnecessary weight upon the roof, in the extra freight paid for that increased and useless weight; and is a loss to the producer in waste of stock. I mentioned the Glen Lake and Eagle as the best Vermont slates, because the Glen Lake first and Eagle next, are uniformly best in all these three qualities. The Eagle is necessarily thickest for the character of the stone, and is thicker than use re-

The Forest slate I know very well; it is an excellent slate, as are many others, but when submitted to the water test, it will be found to soak more water than they. I have seen the experiment carefully tried by disinterested persons, and it always

The Farnham quarries of mottled slate I know very well. The writer who describes them says,

greasy and naturally rotten, always soak more fat alone, without the least injury to the marketwater than harder varieties, and fail in the first ableness of the fish. Besides this leaf fat, the test. The soft slate is like soft wood or any fat or oil is disseminated in a layer of fat and a other soft material, unless pliable, like wrought layer of lean throughout the fish. They are too bear a strain and weight than hard kinds of the like the lake white fish and Mackinaw trout. same material; and in the case of this slate the following fact bears me out.

A large number of squares of the mottled slate were piled last spring at the Fairhaven depot, and were sold this summer to some slaters, who before they could use their purchase, were obliged to pick them all over, and in many cases recut (or dress) the slates; and there was, two months ago, at that depot, at least one eighth of the whole quantity culled and thrown aside as waste. The mottled color he speaks of so enthusiasticalenough for all our slates that they change a little in color when exposed to the sun for a time, but when laid they are uniform in color, and become nearly uniform after the fading is over; but these mottled slate look like a pie-bald horse, at first; a roof laid with them is a real curicsity for one accustomed to observe color, its effect is like a face spotted with small-pox or mottled with the eruptions of scarlet fever; it is neither one thing nor another. This slate, like many others, will find its largest and true use as slabs for marbleizing, for tiles, &c.

But to close all I have to say upon the subject of slate, I would propose that all the slate manufacturers hold a meeting at a convenient place, and select a committee of three careful and scientific chemists and engineers, who shall visit the various quarries, obtain fair samples of the slate, both slabs and slate ready for the roof, which they shall submit to the most severe tests in order to establish their value for the various uses to which slate may be put; let this committee report progress through your paper from time to time, and finally publish in it the result of their labor.

If a careful investigation were made at once, a conclusion satisfactory to all parties could be arrived at before the spring sales commence, and

all might purchase intelligently.

This is the practice in England. Every new slate is tested by competent persons, and their opinions published, so that no one need buy a poor article for a good one. The uses for slate are many, and some kinds not good for one purpose are pre-eminently good for others; let this be known to the public.

I have proposed this plan to the proprietors of the Glen Lake quarries, and they express great readiness to enter into such an inquiry, and are ready to subscribe liberally towards it, or to pay their share of the cost; this seems to me very fair, and I hope the plan may be adopted by all quarry owners. Rusticus.

A FAT FISH.—The siskawit, a fish of Lake Superior, is reported to be the fattest fish that swims, either in fresh or salt water. The fishermen say that one of these fish, when hung by the tail in the hot sun of a summer's day, will melt, and entirely disappear, except the bones. In packing about fifty barrels, a few seasons ago

at start, that they are soft. Soft slates, unless and a half barrels of oil from the heads and leaf iron or copper, or other metals, is less able to fat to be eaten fresh, and are put up for market

STATE BOARD OF AGRICULTURE.

A quarterly meeting of the State Board of Agriculture was held at the State House on Tuesday, Jan. 18. Gov. Banks, Lt. Gov. Trask, and nearly every member of the Board, were present. His Honor the Lieut. Governor in the chair.

The management of the State Farm at Westly is the worst feature about them. It is bad boro', during the last year, has been in the care of a Superintending Committee of eight persons, and the report of this committee, and its consideration, was the first business in order.

> The report gives in detail the operations of the committee in regard to the stock, crops, methods of seeding and cultivating, reclaiming, trenching, laying down lands, draining, and all other matters that have engaged their attention. As an illustration of their mode of proceeding we cite an experiment in seeding land to oats. They had six acres to seed with oats-they were all sown broadcast, April 27 and 28, and harrowed in as follows. No. 1 received five bushels per acre; No. 2 received four bushels; No. 3 three bushels; and No. 4 at the rate of two bushels. The lots were manured with 100 lbs. of plaster per acre, spread broadcast and harrowed in, with the exception of a strip of one acre running across the several lots, which received no plaster. The oats were harvested July 28, and threshed Sept. 2d and 3d. The yield of lot No. 1 was 42 bushels; that of No. 2, was $35\frac{1}{2}$; that of No 3. was 40, and that of No. 4 was 26½ bushels. The acre that received no plaster yielded 20½ bushels, the grain weighing 28 lbs. to the bushel, and being much the same on all the lots except on No. 1, on which both the grain and straw were much the lightest.

> The results of this carefully conducted experiment would seem to settle the question pretty conclusively, that three bushels of oats is the amount most profitable to be used for seeding an acre of land that is in fair condition. This committee reported as much in detail upon all the other crops of the farm.

The committee close their report by saying, that the aggregate amount for permanent improvements during the past five years has been no less than \$13,727 58, while the aggregate amount for boys' labor was \$9,437 75. The value of personal property is \$4,804 36 greater than when the Board first took charge of the farm; or, in other words, the Board leave that amount of personal t Isle Royale, one of the fishermen made two property belonging to the State over and above

in 1854.

for the labor of the boys—for implements, stock, pacing horses for money, in direct contradiction &c., amounts, during the five years, to \$32,423- to both letter and spirit of the statute of the 17. The aggregate amount received from the Commonwealth. It was stated that no society Commonwealth during the same period, inclu-|could plead that it did not offer money itself, for ding the value of the inventory received from the it was liable for whatever was done by its consent Trustees in 1854, was \$29,081,00, showing a bal-on its grounds. Other violations of the statute ance of \$3,342 17, which the farm returns to the were also pointed out. State more than the whole amount received.

SECOND DAY.

Wednesday, Jan. 19, 1859.

to the chair.

In consequence of the Board having decided at a previous meeting no longer to conduct the select such as should be referred to sub-commitaffairs of the farm, a committee was appointed to tees for their investigation. report a plan of business for the year, and they reported that the Board be subdivided into committees, each of whom should investigate a special subject, and report to the full Board, annually, in January, the result of their investigations. we must give at another time. This report was adopted.

Under a resolve of the legislature of 1857, the Board of Agriculture was authorized to "investigate the various methods of arresting the disease itself, yet having an eye withal toward which if of the potato," proposed by certain applicants for one finds himself moving he will be sure to feel the premium of ten thousand dollars offered by its force if he does not see its form. It is strongthe legislature of 1851. The Board committed armed also, beating down opposition with relentthe legislature of 1831. The Board committee this subject to a committee of three persons, who reported that some fifty applications had been the plaint of an wolian harp; then life-like whispresented to the Executive from time to time, tles loud and clear. It sobs among the pine cones, but that only about twenty out of this number rustles in chestnut's summer leaves, and rattles could be found and placed in their hands. These were carefully considered, and so far as was practicable, the methods proposed of arresting the the methods proposed of arresting the though in fact unseen, along the waving grass disease were tried at the State Farm, and all and corn, which bend in reverence as it passes. failed—they, therefore, reported, that in their Judgment no person is entitled to receive the preeye. It has breath, too, now smiling in the sirocmium. This report was accepted by the Board, and its Secretary was directed to communicate erally it may be inferred that it possesses a good these facts to the legislature now in session.

ited the various county societies, and judging usually it is a good creature enough. from these alone, the conclusion must be, that they have all reached a remarkable degree of perfection. We cannot believe that the management received. templated by the legislature, or justified by a woo us to repose. sound discrimination, and we regret that these on any departure by any society from the plain all sorts of manufacture. As an entertainer it intentions of the legislature.

the aggregate amount received from the Trustees some of the innovations introduced into the county societies plainly pointed out, -especially that The sum spent for permanent improvements, of occupying so much time in racing, trotting, or

THIRD DAY.

Thursday, Jan. 20, 1859.

The report of the special committee to propose The Hon. MARSHALL P. WILDER was called a plan of operations for the ensuing year was considered in committee of the whole, and a wide range of subjects was proposed from which to

> The Board probably continued its settings through one or two more days, but an engagement out of the State deprived us of the pleasure of remaining with it. Its concluding business

THE WIND.

A truly mysterious agent is the wind, viewless

The common saying that it is an il. character. Reports were next made by delegates who vis- wind that blows nobody any good, implies that fection. We cannot believe that the management oceans? Winds derive their character, as men of these Societies has been such that they are do, from the country of their origin. Those susceptible of no improvement, or that there from the land of boreas are apt to be savage in have not been innovations introduced not con-those from the tropics softly kiss our cheeks and

It makes itself useful in a thousand ways, one reports have not spoken plainly and forcibly up. of which is turning mills and powerfully helping is unrivalled. How sublimely it brings up the thunder-shower; how beautifully it floats along Before the sitting closed, these reports were the sky, the billowy clond. It causes the hail or pretty thoroughly discussed and criticised, and rain drop to patter against the window; and, if

you are a good-for-nothing sloven or slattern in farmers' daughters, in Massachusetts, have gen-While fishing in the lake or lying under a shady plished female scholars, whose brothers are very tree upon its banks, the wind is ever ready to deficient in knowledge. The daughters, perceivanuse one. Now it stirs to myriads of tipples, ing the necessity of preparing themselves for running after one another over its surface, and some employment away from home, have chosen, the chestnut above his head.

master of the revels. In the character of aven-ger it now and then rushes upon the stage and observed, however, that these you g women were makes its audience tremble. Wide forests are unfitted, by their literary acquirements, to be good instantly laid low by its irresistible yet viewless housekeepers; but we have known many of the arm; dwellings torn asunder and crushed be- young men, who, on account of their ignorance, neath its weight; men and animals are lifted up were miserable farmers. and whirled about like snow-flakes in a winter's

storm. So it is on the land.

into rolling mountains. Earth and the heavens or negligence. These are often the affectations meet and mingle together in night and chaos. of one who has the vanity to imitate the sup-The elementa put forth their voices, but above posed eccentricities of genius; and they are comall their horrible thunder the wind rides trium monly observed in those who are wanting in naphant, and utters its trumpet summons to the tive good sense-that intellectual jewel, which is universal uproar of battle. It rages, it screams, as rare as genius, and infinitely more valuable. it shrieks. Over all other sounds the blast of Some of the best housekeepers we have ever the invisible is heard; and that power which is known, surpassed all their neighbors in mental the cause of the boiling of the deep, the agony cultivation, and compensated for their want of of the cracking ship, yet is itself forever unseen. physical strength by their superior management. -Newark Daily Advertiser.

For the New England Farmer.

FEMALE EDUCATION. *

BY WILSON FLACG.

Thus far the education of young men has been the principal theme of discourse, but the intellectual improvement of the other sex must not be disregarded. The interest and happiness of the female sex are not to be overlooked in our schemes for advancing any department of busi-ing farmers' girls to the highest point that is ness. Welfare must not be sacrificed to wealth, compatible with their attainment of practical inif the two are incompatible; and it is better that formation. And it may be remarked, that as the the farmer's crops should suffer, than the members of his household. But the two things are within doors, there is less necessity that they aids to one another, and the generality of pleasant, rural homes are connected with well-cultivated farms, and he who pursues a liberal and that arises from the influence of study and other progressive system of agriculture is commonly sedentary occupations upon the physical constituthe generous father of a happy family. No man, tion, is more compatible with feminine than with however, is likely to be a successful farmer, if his masculine occupations. It is also well known that wife or housekeeper be not well-instructed in all the strongest women are not the best housewives, that concerns domestic economy. Yet the aim nor the strongest men the best farmers. Good of our endeavors is not the training of young health and a symmetrical development of the women to be patient drudges, who are destired form, are of more value, in the present state of to be farmers' wives. It is sufficient for their society, than mere muscular strength. The pubpractical education, that they gain, with habits of lie are prone to consider these two qualities as neatness and industry, a good knowledge of house-wifery and the arts of the dairy. But something than to find stout, muscular people who are pre-must be added to these qualifications, to make disposed to certain diseases, from which those of them intelligent mothers and valuable members a more slender habit are free. Even pulmonary of society, as something must be added to the consumption is not confined to persons of infefarmer's practical knowledge, to render him a rior muscular power; though it will not be deuseful and respectable citizen.

your house-keeping, it will drive the snow or wa- erally received a better literary education than ter through the broken pane or dilapidated roof farmers' sons; and some of them are accomnow it fans the lounger with the big branches of in numerous instances, to be educated for teaching a school, while their brothers have let them-It is not always, however, that it appears as selves as journeymen, to other farmers, or have

Useful knowledge does not foster a silly pride; and though studious habits may partially inca-At sea its power is terrific. The ocean is lashed pacitate one for labor, they do not beget idleness On the other hand, a farmer's daughter is often disqualified for the performance of duties devolving upon a farmer's wife, by practising some manual art that leads her into the city, or by employment in a factory. We are also persuaded that a young man is more likely to acquire a distaste for farming, by serving four years in a dry goods store, than by studying four years at college. It is at the footstool of science that one learns to venerate the pl w, while trade too often generates a taste only for the frivolities of

town life.

No evil, we think, is likely to arise from cducatemployments of women in this country are chiefly should possess that robust vigor, which is required by the labors of the other sex. The evil nied, that health and strength are to a certain It is a matter of common observation that extent mutually dependent, and that the physical powers must be cultivated by exercise, or the * This Essay on Female Education is the Supplement to the author's "Prize Essay on Agricultural Education," but was omitted by the Trustees in their publications. It is now published for the first time.

powers must be cultivated by exercise, or the health will decline. It is more important, how omitted by the Trustees in their publications. It is now published for the first time. Ithe vital organs, by good air, generous living,

temperance and cheerfulness, than to strengthen sults. While we would carefully guard every the muscles by labor or gymnastics.

man is pleasing to the other sex, especially to admit that there is no danger of real degeneracy, those who are educated and refined. Hence, in while the general health of a class is improving; proportion as farmers are intellectually informed, especially, if there be a gradual gain of intellecwill they demand in their wives an amount of tual power and longevity. delicacy of person, which may be incompatible Volumes of cant have been written and spoken with their ability to perform the laborious tasks on almost every subject, and cant has been freely which have usually devolved upon the mistress used in discussing upon female education. Too of a working-man's family. This is a matter for much praise has been bestowed upon mere "smart serious consideration. If our farmers' wives women," as if women were horses, and were to were to become, on the average, as feeble as those be esteemed in proportion as they are able to individuals of the sex who have never been ac-perform an extraordinary amount of brute labor. customed to any kind of labor, we should be ex- A young farmer who marries one of these smart posed to national degeneracy. Yet it cannot be women, is regarded as peculiarly fortunate, bedenied that the direct tendency of improving the cause he is thereby saved the expense of some social condition of any class is to diminish their hired help. Her intellect is not taken into the physical power, though they may be improved account. We might, with equal reason, congratin health and symmetrical development. It is ulate the wife of a man who can perform the laimportant, therefore, to determine whether the bor of an ox, because the family is thereby saved amount of general health may not be increased, the expense of an additional farm-laborer, though by certain improvements in our social habits, so all his neighbors, by expending more intellect on as to compensate for this infirmity in animal their farms, are more thrifty than he. We can-

favorable hopes, when we consider that as society always consider that unintelligent labor cannot relinquishes the laborious habits which were ne- avail much, except in a menial or subordinate cessary at an earlier period, it adopts the more situation. of disease are diminished, because the most of the head is directing the tasks of others. our vices, especially that of drunkenness, origiof his ancestors.

The farmer, with the aid of improved agricultu- ilies of superior cultivation. ral machinery, is not obliged to toil so severely Let our farmers' daughters, therefore, be wellanimal power, are able to accomplish superior re-fluence over the other sex. Let us endeavor to

class of the community, especially the rural class, A certain amount of physical delicacy in a wo-from all effeminating habits, we are willing to

not set too high a value on capacity for labor, We are disposed to look upon the subject with when it is united with intellect; but we do not

prudent and healthful customs of a better civili- In reviewing the housekeeping qualifications zation. For centuries past the grand causes of of our female acquaintances, several instances disease have been excessive hardship and imper- will probably occur to almost every one's recolfect sustenance among the lower classes, causing lection, of women of feeble frame, who have perthe destruction of the individual; and indolence formed the duties of a farmer's household with and luxury among the higher classes, causing a admirable success. She who perfectly underdegeneracy of the race. Intemperate drinking, stands the way in which every thing ought to be at the same time, has prevailed among all class done, can always find hands for the work. There es, and produced more disease than all other is light work enough in the house to keep one's causes. As civilization advances, these sources feeble hands always diligently employed, while

Our aim in making these remarks is not to nated in the customs of a barbarous age, and are discourage any rational attempts to preserve that lessened as we improve in knowledge. At the hardy vigor, which, if not absolutely essential to present time, intemperance is most prevalent health, is still a great blessing to either sex. But among the rude and ignorant, notwithstanding we would discourage that vulgar contempt for the fact that the higher classes are not entirely the refinements of life, which we observe in many free from it. The tendency of a higher civiliza- places, and the notion that if a young woman is tion, therefore, is to ameliorate disease, no less well-educated and refined in her taste, she canthan to improve the muscular strength. As the not be fit for a farmer's wife. It is true, that refinements of life are multiplied, the injurious such a woman would demand more intellect than vices are diminished, and man improves in health, one with less culture would require in a husband; in symmetry of development, in intellectual pow- and this very circumstance is calculated to eleer, and as the best statistical tables show, in lon-vate the farmer's occupation, by imposing upon gevity, while he degenerates from the hardy vigor those who follow it the necessity of more intellectual culture, to be acceptable to the fair sex. We speak of these matters in this connection, Such a woman would also demand more educabecause women are more liable than men, to suf-tion for her children, and thus in a great variety fer from the want of those exercises that strength- of ways would her influence tend to advance the en and invigorate the frame. If the sex, how-respectability of farming and of farmers. The ever, are led to the adoption of habits, by which refinements of life are too commonly classed in they avoid the causes of disease; if they strength the same category with the vanities of fashion; en the vital organs by exercises which are yet in-but there is this remarkable difference between sufficient to produce great muscular power, we them, that while fashion is idolized by all the vulneed not be fearful of the general consequences. gar, the refinements of life are found only in fam-

as his more hardy predecessors, to obtain an educated, to save them from the love of vulgar equal amount of profit. The female members of amusements and extravagance, from bigotry and the farmer's house enjoy similar advantages, com- frivolity, and to make them effectual aids in adpared with those of earlier times; and with less vancing the interests of agriculture, by their indispel those barbarous notions, that all the education a farmer's wife should possess, must be FARMERS, LOVE YOUR CALLING, AND confined to the dairy and the kitchen; that woman was created but to be a servant to man, and to administer to the physical wants of his family. When we meet with a woman of superior education, we find one who is attached to rural life, and who, if she were married to a farmer, would administer his affairs in the most acceptable manner. She would also render his house agreeable by her conversation and her good sense, and by enlisting his sympathy with her own love of nature, make him more contented and happy, when employed at home or in the field.

Another important consideration is the power that is placed in the hands of an intelligent mother, to afford her children a superior domestic education. Λ mother enjoys more opportunities than the father for exercising influence upon the children. It might be allowed, therefore, that we should first educate the daughters, rather than the sons of farmers, even if the interest of the latter were the only object of our concern. mother, who is capable of instructing her children, seldom fails to exercise her capacity for their benefit; but the same cannot be so generally said of fathers. We have no doubt that the provements that they would on farms of their talents of the father as often descend to the offtalents of the father as often descend to the offspring as those of the mother, though a contrary notion prevails; but it will be admitted by all, that the mother's ignorance and the mother's education are more generally transmitted to the offspring than those of the father.

women of the rural classes that should be only regarded. Inducements should be offered to them prove their farms, and in rendering their homes to make themselves acquainted with the theory The knowledge of the intelli- gressive farmers. of agriculture. gent and believing wife might often convert the ignorant and unbelieving husband to faith in new improvements, and induce him to learn and to be progressive. Her instructions to the children, ple with these ideas, and the price of good land if she could not influence her husband, might re- in New England will advance twenty per cent. deem them from the bondage of ignorance, and in less than five years. lead them to improve upon their father's practice. The farmer's wife should be well acquainted with the farm and its wants; she should have sufficient practical knowledge of agriculture, to be able, if it were necessary, to superintend the exercises of the farm. A woman does not unsex edge; but rather by assuming the masculine manners and habits of the other sex.

the educational wants of the female sex must not in the field, though heavily manured. These facts be overlooked. There are some studies and ex- I cannot exactly harmonize with Mr. Reed's ercises that are supposed to be peculiarly adapted theory. I read with hope the plan your Concord to female taste and genius. This is said of bot-correpondent was so fortunate to peruse, and any, which certainly enjoys more favor among practice with success. I inserted peas in the poyoung women; and perhaps it is only through tato according to directions, and waited patiently their influence, that young men could be induced the result, which I am sorry to say was not very to give any general attention to it. But it is favorable. Several varieties which I tried, rotneedless to dwell any longer upon the share which ted just as bad as those planted without peas. I woman may have in imparting a taste for the cut the tops from some soon after they commenced study of nature, and for the refinements of life, drying, and covered the stubs with earth. I dug sion, that if we would improve farmers and farm-that but slightly. My hired man dug the rest, ers' sons, in taste and in the amenities of socie-but said there were no rotten ones among them. ty, they must receive their culture through the The same varieties in other hills and rows, were female sex; but all practical knowledge and tact one fourth perhaps affected. must proceed from their formal experience and chservati "n.

For the New England Farmer.

MAKE YOUR HOMES PLEASANT.

Mr. Editor:—Probably mine is a hackneyed subject, but as it seems important, it may be well to "keep it before the people."

When we look around over many farms of our land, and observe the absence of improvements, the indifference paid to making things convenient about them, and the absence of shrubbery, and shade trees, and sundry fixings about the house to beautify and give an idea of a "pleasant home," we see that some do not appreciate the beauties of landscapes, trees and flowers, or are disposed to make the most of the things around them in life, so far as rural enjoyment is concerned. But some may say that common farmers having nothing but their farms, which may be small, cannot afford to spend large sums of money like the rich, in beautifying their grounds; true, yet it costs but little to set out a few shade trees, and shrubbery, in a tasty manner, and to have the rose, the dahlia and the peony to blossom in the yard. I am aware that many live on farms not their own, and so cannot be expected to make those imthe proprietors of small estates, merely because they may get better returns from the banks than they could from farms, perhaps, and so live on, farming for gain without being in love with their calling, and ignorant of the superior enjoyments But it is not the literary education of young of those intelligent farmers who live on their own acres, and take pleasure in endeavoring to impleasant and happy places, and fit abodes of pro-

Portsmouth, R. I.

REMARKS.—Excellent. Indoctrinate the peo-

For the New England Farmer.

POTATO CULTURE.

I have always noticed in this section that poherself by extraordinary acquisitions of knowl-tatoes planted on old pasture or mowing land, newly broken up, and planted without manure, were nearly or quite exempt from the rot, and In the preparation and distribution of tracts, that some particular varieties have never rotted to the other sex. We may remark, in conclu-part of them, and found only one affected, and W. I. Simonds.

Roxbury, Vt., Dec. 22, 1858.



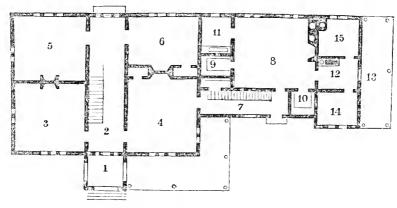
DESIGN FOR A FARM-HOUSE OF THE RURAL GOTHIC STYLE.

tect, Lynn, Mass.

and communicating on the fourth with the hall lery of the same size. No. 2, 8 feet wide, and extending through the 15. This room, if desired, may be used for a li- finished, and used for drying purposes. The cel-

The accompanying drawings are a design and brary. No. 7 is a back entry containing the serplans for a farm-house of the Rural Gothic style, vants' stairs to chamber and cellar, and opening with conveniences for an estate of considerable into the kitchen, No. 8, 18 ft. by 18. Connecting size. The designs were furnished expressly for with the kitchen are two large china closets our columns, by Geo. E. Harney, Esq., Archi-Nos. 9 and 10, and a store-room, No. 11: No 12 is a pantry, 7 ft. by 8, opening upon the small The accommodation is as follows: The first veranda, No. 13; No. 14 is a dairy or milk-room floor contains No. 1, a porch, open on three sides, 8 ft. square, and No. 15 is a wash-room or scul-

The second story contains seven good-sized house, with a door at each end. This hall con-bed-rooms with their necessary closets. Those tains stairs to the chambers, and opens into the in the L being entirely distinct from the main principal rooms of the house. No. 3, parlor 15 body, and reached by a different flight of stairs. ft. square; No. 4, living room 15 by 16; No. 5, may be used for servants and hired men. The bedroom 13 ft. by 15; No. 6, bedroom 10 ft. by attics, if not needed at present, may be left un-



GROUND FLOOR FLAN.

corresponding to those on the first floor, to be used for storage, fuel, &c.

Construction.—Although we greatly prefer stone or brick for the construction of such buildings, yet as there seems to be such a prejudice in favor of wood, (especially in New England,) we nave designed the above to be built of that material. For outside finish, we should prefer plank stout inch-and-a-quarter plank-put on in the vertical manner, and the joints covered with two and a half inch battens. The ornamental portions, window-hoods, verge-boards, &c., should also be made from inch-and-a-quarter plank.

We have designed the windows to be filled with lozenge or diamond panes, but these, although more in accordance with the style of the house may be omitted, and rectangular squares inserted in their place.

Cost .- Built in the above manner, the interior finish of a plain, inexpensive character, this house would cost, in the neighborhood of Boston, from \$3800 to \$4000.

For the New England Farmer.

VARIETIES OF PEARS.

MR. EDITOR:—I have taken the liberty of sending to you a list of those varieties of pear which have fruited well the past season in our locality. There is probably no fruit tree which hence the Bartlett will assimilate to itself mate- ten to answer him at my earliest opportunity. rials for an abundant crop in almost all good list several questions, in substance, are, "Why soils, while the Beurre d'Aremberg, Diel, Wilsit that a building well ventilated will not be kinson and Lewis require a strong and deep soil. struck by lightning?" I answer, simply because It is hardly possible for any single individual to the cause is removed, and where there is no cause decide upon this desideratum, hence the neces- there can be no effect. most experienced of our cultivators. There are is not changed by ventilating the building any some varieties which bear the largest and best more than the waters of the ocean would be fruit upon young trees, the Flemish Beauty, for changed by turning into it a tub of fresh water, example, while the Glout Morceau require years but by ventilating you do change the air inside of bearing before they will develop good fruit; of the building and make it in the same condition the various and conflicting statements made at one of the bodies is confined. Pomological Conventions. At a recent meeting two cultivators living within 20 miles of each other, their grounds being exposed to the sea, with similar aspects, were diametrically opposite in their statements of the Napoleon pear; with one it was "very poor in quality and withal, a shy bearer;" with the other its "peculiarly fine quality was never surpassed, as well as its abundant bearing."

From my own experience of the Napoleon, I have always found it poor and astringent when it doubly valuable. grown upon a warm and sandy loam, while upon a strong and retentive soil I have seen it juicy and fine. The Belle Lucrative as a fall pear, and Λ kind no is often more agreeable than a rough the Bloodgood as a summer fruit, when grown yes.

lar occupying the whole of the space under the upon our warm and light soil, we have found to house should be divided into several apartments be the two best of their season. There are but few varieties which are equally good in all soils, where the tree will grow, the diversity of soil and culture necessary for some varieties must influence cultivators in forming a list, and this diversity of soil and culture should be given, to enable them to make a selection for their locality. "I have known," says one, "fruits which were very fine immediately around the spot where they originated; but worthless when planted a few miles away in another exposure." Now this word exposure, as well as the often misapplied word acclimation, have little to do with facts; the want of a congenial soil has more to do with the matter than exposure.

The following pears have generally fruited well in my vicinity, particularly in the season of 1858:

Summer. Bleodgood. Rostiezer.

Early Fall. Bartlett. Andrews Golden Beurre of Bilboa.

Fall. Beurre Bosc. Urbaniste. Belle Lucrative. Louise Bonne of Jersey. Thompson. Seckel.

Salem, Dec. 27th, 1858.

Native Fall, very Hardy Bleeker's Meadow. Buffum. Fulton.

Best Eating Binter. Winter Nelis. Lawrence.

Winter Baking. Pound Black Pear of Worcester.

Fall Baking. Rushmore's Bon Chrelien.

J. M. IVES.

For the New England Farme.

ELECTRICITY.

MR. EDITOR: -I notice in your paper of Dec. varies so much upon different soils; each variety, 25th some inquiries made by Non-Electricity, in we may almost say, has a peculiarity of its own; reference to ventilation and electricity, and has-

sity for an interchange of opinion among the The atmosphere on the outside of the building there are others which produce the best specimens of that outside, thus taking advantage of one of when worked upon our largest standard trees; the laws that govern electricity, viz., "Likes the Seckle, for instance. A want of knowledge have no affinity for each other," thus avoiding of these peculiarities accounts in a measure for the disastrous effect of natural equilibration when

Groton, Jan. 12, 1859.

ELECTRICITY.

CEMENT FOR BROKEN CHINA.—Take a very thick solution of gum arabic dissolved in water, and stir into it plaster of Paris until the mixture becomes a viscuous paste. Apply it with a brush to the fractured edges, and stick them together. In three days the article cannot be broken in the same place. The whiteness of the cement renders

Our very manner is a thing of importance.

CHESHIRE AGRICULTURAL SOCIETY.

We look upon this as an important movementwill not be slow to adopt

of the beautiful town of Marlborough, N. H., about five miles from Keene. The exercises commenced at 10 o'clock, A. M., and with adjournments for dinner and tea, were continued until after 9 in the evening, and notwithstanding the rain and extremely bad travelling, there were good audiences during the whole time of highly interested men and women.

The subjects under discussion were, "The Grasses, Grains and Stock"—but most of the afternoon was devoted to the subject of the Grass-The President of the Society, Gen. Nelson Converse, occupied the chair, and with happy facility called up those to whom no special duty had been assigned. All the other officers of the Society were present, and the time between the regular addresses was occupied in inquiries, and in the expression of numerous valuable facts and suggestions by practical men. In these discussions Messrs. LEVERETT, MAY and ELLIOT, of Keene, Dr. Richardson, Messis, Harvey, Hol-MAN and WISWELL, of Marlborough, Col. REED, of Swanzey, and others whose names we did not learn, took an active part,—the President occasionally eliciting experiences too good to be lost. by his happy manner of getting intelligent, but too modest farmers, upon their feet.

true mode of expending a considerable portion ["The Branch," to turn out still more pails and of their funds, as a hundred dollars will go far tubs and children's toys! What a pity, that towards holding a meeting in every portion of some accomplished artist had not occupied our the county. Like the morning paper, it brings place, who could have perpetuated this delightthe intelligence desired to the very homes of the ful mountain forest view, to please and instruct people, and lays it before them in an informal the thousands who never will be blessed by a and agreeable manner. But more than all else, personal contemplation of a Winter scene among it leads them to express their own views, public- these Crystal Hills. ly, upon matters of vital importance to their interests, and introduces a spirit for discussion and investigation which will not fail to work out the happiest results.

We look with impatience for the projection eers for the ensuing year: of similar plans in our own Commonwealth.

The village of Marlborough is a beautiful one, romantically nestling among the hills, with the Grand Monadnock ever keeping "watch and Temple; Thos. G. Holbrook, Bedford; David Clement, Hudson romantically nestling among the hills, with the

ward" over it, and breaking the progress of the On Friday, the 21st inst., we had the pleasure fierce northeasters that would otherwise pour of attending another meeting of the Cheshire themselves into its bosom. A busy little stream, County, N. H., Agricultural Society, in pursuance called "The Branch," a tributary of the Ashuelot, of their plan to "have gatherings and discussions babbles through the valley, urging the machinery in various portions of the county, instead of ex-|by which is wrought out all manner of children's pending all their funds in paying premiums." toys, and wooden ware. The village is remarkaable for the uniformly neat appearance of its a movement better calculated to promote the in-buildings, for the air of thrift and comfort which terests of the cause than any other within our pervades them all, and for the number of young knowledge. It is an example for Massachusetts, shade trees which line the roadside, and give which we hope all her agricultural associations taste and refinement to the dwellings. It has, also, one of the best hotels in New England, kept The meeting was held in one of the churches by Asa Maynard, Esq., where the traveller will not only find the utmost neatness and order in every department, but his wants anticipated by the kind attentions common at his own fireside. Sancho Panza would have said, perhaps, "Blessings on the man who invented taverns!" have great affection for a good old-fashioned country hostlerie, away from railroads and the gongs and other pestering particulars of cities, where we can eat and chat and pass the otherwise lonely hours with the family, and be cared for and feel that we are at home! Come you here, who travel and climb mountains, and desire to get above the clouds. This is your starting point for the Grand Monadnock, and the home of good cheer while you ramble.

At 9 A. M., we left this pleasant spot for the station, three miles distant. There had been a slight fall of snow the previous night, and now the graceful branches of the hemlocks, loaded with pure white snow, contrasting beautifully with the lively green upon which it rested, bowed themselves on either side, reminding us of the Eastern custom of partial prostration, when those whom it is wished to honor pass out or in. Graceful silver birches, rock maples of exquisite symmetry, and noble beeches, skirted the way, while the mountain streams, swollen by the January There is no doubt on our mind but this is the thaw, were dancing cheerfully on their way to

> HILLSBOROUGH SOCIETY.—The Hillsborough County Agricultural and Mechanical Society has elected the following named persons as its offi-

President—P. M. Rossiter, Milford. Rec. Sec.—Gilman Wheeler, Milford. Cor. Sec.—H. A. Daniels, Milford.

For the New England Farmer.

SOIL AND CLIMATE IN VERMONT.

Mr. Editor:—I noticed with interest a communication in your late issue from S. R. HALL, on the climate and soil of Orleans County, Vt. It is certainly of importance that the climate and soil of our State, especially its northern portions, should become more generally known by your readers; and facts, communicated from such a source as the one referred to, will naturally command attention. But one or two points claimed by Mr. Hall need farther attention. He says, "Should the soil ever deteriorate, we have im- by different kinds of stock. mense quantities of the richest variety of sphagnous muck, much of which lies above shell-marl, in the beds of ancient ponds and barren meadows. This marl, when converted into lime, and mixed with muck, makes a manure worth from fifteen to twenty per cent. more than cow dung." Now the point is this, if it be true that lime of. mixed with muck, which is found in great quantities throughout our State, and even New England, forms a fertilizer of one-fifth greater value than common stable manure, it ought to be more generally known. Such a fertilizer, the materials of which are so abundant, would soon bring about a new era in our agricultural operations. But in this matter we want something definite, farming? and fully established on scientific principles. We do not wish to rely on hasty conjectures based on mere theories. We must have something practical and substantial. It is an undisputed fact, that lime and muck form a valuable manure, but that it is fifteen or twenty per cent. more valuable than stable manure, is not generally believed. A matter of such importance to the agriculturist should be thoroughly investigated and fully understood.

Again, your correspondent has manifestly fallen into error, where he quotes from "the President of the County Agricultural Society," and states that the stock therein mentioned, viz., four oxen, ten cows and two year olds, two horses, three colts and twelve sheep, is "fully equal to forty This statement seems absurd, for where is the farm in Northern Vermont, of one hundred acres, which produces sufficient in one season to winter forty cows? The amount of the stock mentioned, is only thirty-one head, while a great part of it would require much less than an equal number of cows. But let us investigate the matter more closely, taking the data published in the same number of the Farmer which contains Mr. H.'s letter. Four large oxen, supposing their weight to be 6000 lbs., (probably a high estimate) will require in six months, (from 1st Nov. to 1st May,) nearly eleven tons of hay; ten cows and [ten-Ed.] two year olds, supposing their tion to the subject. weight to be \$500 lbs., will need about twentythree tons; two horses and three colts, say eleven tons; and twelve sheep, if their average weight be eighty lbs., about three tons more. The whole foots up in round numbers forty-eight tons. Now forty cows, weighing 850 lbs. each, according to the same data, will require nearly ninety-two tons, sufficient to winter almost double the amount of stock mentioned; or, reckoning them at an average weight of 700 lbs., they must have seventy-five tons.

not to pass unnoticed, though it come from a source so eminent. We should suppose that Mr. H., who has resided in Orleans County nearly twenty years, and who has, "during that period, been several years engaged in the geological survey of the State," and who has "had a better opportunity to compare the soil in this, with other portions of New England, and especially other portions of Vermont, than, perhaps, any other person," would be able to form a more correct opinion of the productiveness of a farm of one hundred acres, and also a more correct estimate of the comparative quantity of fodder required

Brookfield, Vt., Jan., 1859.

REMARKS.—We suppose Mr. Hall intended to convey the idea that the shell-marl was to make a component part of the fertilizer he speaks

THIRD LEGISLATIVE AGRICULTURAL MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.] Subject for Discussion—What breed o stock is best adapted for the purposes of general

The Legislative Agricultural Society met in the Representatives' Hall, last Monday evening, for the special discussion of the above subject-Hon. JOHN W. PROCTOR, of Danvers, in the chair. There was a very full meeting.

In opening the business of the meeting, the CHAIRMAN apologized for his non-preparation to speak on the subject for debate, which was one of much interest, and one on which opinion differed. We had various kinds of imported cattle among us, besides our common red or native stock. Some thought they had better cattle from the imported descriptions; but it was notorious that the majority of our best cattle were from this native stock. Some upheld that there were no native cattle, as all came from imported stock at some time. As well might it be said that there were no native men. As he understood the question, it meant what class of cattle would be best for mixed farming? There were gentlemen present who had had more enlarged opportunity to give information than he had, consequently he would not dilate on the question, but call on Dr. LORING, of Salem, who had given much atten-

Dr. LORING responded. He had come to learn and not to teach, for he was only a tyro himself in the branch of husbandry under discussion. Their practical experience was worth a world of theorizings. What is the breed of cattle, if any, which were best fitted to the dairy and the stall here in Massachusetts? About \$15,000,000 in value of cattle was owned in this State; and the question might arise as to what was the most Such a statement, so wide of the truth, ought profitable description to cultivate. The statistics

rule of necessity, farmers designed to convert their would be. produce into butter, cheese and milk. Now the chusetts.

in favor of the Devon cattle, and did not expect

of the commonwealth showed that the farmers had information from a party of experience that aimed at the perfection of a dairy stock, and they the half-breed Devons would do one-third more were right; for their best interests lay in this work, with a sixth less food than the Durhams, feature of husbandry. In accordance with the and not be fatigued or fagged out, as the latter

SANFORD HOWARD, of the Cultivator, was the question was, what kind of cattle was best for the next speaker. His observations substantially perfection of this object. We had heard of the were, that he had recent opportunity while in old red cattle, which, in the ranks of lower ani- Scotland of seeing Aryshire cattle, and had inmal life, stood in the same rank as the old red quired into their origin, of which he gave a sucman did compared with the present New Eng- cinct history. The breed had assumed a characlander. With this red stock there was no rule ter of its own as much as any other which was by which like would produce like. Perfection held to be artificial, and was as popular as any amongst that class of animals was always acci-other in Britain for dairy purposes. Jerseys dental, and it was of no use to talk of scientific were also popular; but the Avrshires were prebreeding from that kind of animals, either for ferred above all others, and their adoption was fattening or for the dairy. What, then, could we extending much in England and on the Contido? In Connecticut we might be told that the nent. No other breed was kept in Scotland for short-horn cross was the best; but bring it here, dairy purpose. They were hardier than the Short and it would soon deteriorate. We had not feed Horns or the Channel Is'and cattle-neither of for them, while our physical circumstances were which could be adapted to the climate of the west adverse to their profitable rearing. And how of Scotland, where the Ayrshires had their oriwas it with the Devons? Could any one ever gin. Whether or no the Ayrshires would make say that, at home, they were favored as dairy superior oxen, as compared with other breeds, stock? No! With the exception of the Ayrshire was a question; but, from what he had seen he stock, we had none worth our cultivation here in had no reason to doubt that they would compare Mass. We would find them fine healthy cattle, well. It was not uncommon to find cows making with a hardy constitution, and a lacteal develop- 250 lbs. of butter or 500 to 600 lbs. of cheese, ment showing emphatically their value. As oxen, where from 60 to 100 cows were kept on a farm. they had all the advantages that could be de-In England, Devons were not generally kept for rived; and the farmers of Massachusetts would dairy purposes, but for beef. Herefords were find it so if they deigned to try. The Alderneys much the same-and it might be considered that were not, in any respect, a race of animals that fattening was a leading characteristic of both could be adapted to our wants. Finally, Dr. kinds. The Short Horns were the most profita-Loring thought the question one of the most ble kind for beef in the richer lands of England, important that could be discussed, and advised but they were valuable no where else, and seldom his audience to get stocks of cattle on whom they good for milking purposes. Generally, in Engcould rely in producing their like in regard to land, they were very unlike the improved Durphysical and productive properties. He related hams we saw here. The best beef cattle in Scothis experience as it proved that it was foolishness land were the Galloways and the Kylore or West to go into the process of correct breeding without Highland cattle. These and the Galloways would unquestionably pure stock, as they never would prove profitable for beef in the prairie and mounproduce herds intended by nature for the advan-tain districts in this country; but if their milking tage of the farmer, and the interests of Massa- qualities were cultivated they would be spoiled. Mr. Howard had little sympathy with the idea W. J. BUCKMINSTER, of the *Ploughman*, spoke that one kind of cattle was best for the farmer.

LEANDER WETHERELL spoke approvingly of ever to see better for all general purposes, or for a cross of the Short Horn, if the farmer wanted size and adaptability to the wants of the farm. to make good beef at three years old; but you One point about them was that they were easily must have good blood as well as symmetry of kept and throve well on very poor feed, and even form. This cross would best suit the Connectifatted well on common meadow hay, which costs cut valley for both fattening and working purless than English hay by nearly one-half. One poses. Almost all the cattle there had Durham cow, he saw, which weighed nearly 1200 lbs., blood in them, and it was essential for successwhich was a very respectable weight. But the ful breeding for working purposes. They were size interfered with the milking properties, and strong, enduring and patient, and when they beit was not assiduously cultivated by farmers, came too old to work, were generally in a fine There were no ring-streakings and specklings condition to make beef. But the quality of the among the produce of the Devon stock. Mr. B. beef of Durham cattle was not so good, it might

tion in favor of the grades. If weight was of the prizes. He further urged that whenever perany importance to the farmer, he had the advan-fection had showed itself in eattle, it had been the tage in cultivating the Durham grades. For fruit of previous importation of foreign stock. raising calves the adoption of the Durham grade It was his opinion that, wherever there was a was the best that the speaker knew. He men-really valuable herd of eattle, it had its origin tioned that an instance was within his knowledge from foreign importations. should keep out of sight.

ly to the question, throwing out hints that the to Boston, and took the premiums when pitted disposition of premiums at shows was not the best against all the breeds that could be exhibited calculated to encourage improvement. ought to be no distinction made between the in improving as we have done in importing, our breeds, but all should compete on the same level. improvement would have been much greater and When it was otherwise, the effects were profita-more reliable. ble, and, in a series of competitions within his The subject for next week's discussion will be knowledge, the native stock, for three years suc- "Fruit and the Cultivation of Fruit Trees." cessively, took the first premiums. This was Amotion was made by Mr. SARGENT, of Newproof that the native stock made the best dairy bury, that the Ayrshire cattle were the best stock stock here, and it would be again, provided op- for general purposes. portunity for proof were given. The production Mr. Page, of Brimfield, spoke briefly concernof milk and oxen were the two grand objects ing a purchase he made of eattle which he with the Massachusetts farmers; and it was Mr. deemed to be native-and which possessed ex-S.'s opinion that the native stock were the most tra properties. At 23 months old one of their reliable for oxen. Mr. Sheldon said he raised produce brought \$50, and when 4 years old, she his own stock, and described the peculiar marks gave 40 lbs. of milk per day for three weeks in which, in his estimation, denoted perfection in succession, and could not be bought for \$100. his breeding animals, and related a curious anec- But it turned out that the dam of this cow was dote concerning one of his eattle.

improving farmers. These differed essentially fecture comes from imported stock. from what we have them among us. He thought attention to native stock would perfect them to in support of his resolution. He had long been the extent of production of imported eattle.

The CHAIRMAN was in favor of native cattle, him the Ayrshires were preferable. and quoted statisties showing that they were, on the average, preferable to any other stock.

pounds of butter. If this could be done in one substituted. instance, why could it not be in many instances?

Sheldon,) several competitions had taken place at cattle in such manner as to prove them uncrossed.

be confessed, although there might be an excep- which no native cattle were produced worthy of

where this grade stock had, for fifty years, in one Mr. Sheldon retorted that when the imported stock, produced five milk cattle, very similar in cattle were shown against the native cattle, in the productive properties. To keep the best cattle instances he had quoted, none of them had taken for breeding purposes was a rule that no family a premium. As certain evidences of the superior merit of the native cattle, he had spoken of Asa G. Sheldon, of Wilmington, spoke brief-they were brought down from Middlesex County There against them. If we had taken half the trouble

an Ayrshire cow! All her produce was thrifty Mr. JOHN C. MOORE made a few observations, and easily reared; and as there was little native by request, relative to the mode of breeding and stock now to be found, the fact spoke favorably treatment of eattle followed in Ayrshire, amongst for the opinion laid down by Dr. Loring, that per-

> Mr. SARGENT, of Newbury, made a few remarks in favor of Durhams, but his experience had told

SIMON BROWN, editor N. E. Farmer, was not satisfied that the Ayrshire cattle were the best Mr. Davis, of Plymouth, also spoke of the na- for all purposes, otherwise he would vote for the tive breed, and thought that, if improvement was resolution. He had seldom seen Ayrshire oxen, to take place, it might as well be among them as and was not ready to give an opinion of their by the means of other eattle. He quoted instances merits. He believed Ayrshire cows, or grade which tended to show that the process might be Ayrshires, the best stock for the dairy. He apa profitable one, and that there were cases of proved of systematic breeding, in order that pure great productive ability among native stock, results should flow from its practice. He would Four pounds and a half of the milk from a cow vote for the resolution if the words "general use" of a friend of his had yielded one and a quarter were stricken, out and the words "dairy purposes"

Dr. REYNOLDS, of Concord, spoke briefly to Dr. LORING reviewed the arguments of the the general question, arguing that cattle were several speakers, and drew consolation from improving, and that the eause was judicious crosthose of his opponents, in so far as they support- sing with imported blood. He doubted the ability ed his own in showing that, (as stated by Mr. of any gentleman to trace the pedigree of native

The CHAIRMAN said that all cattle were native that could not be proved to belong to the imported races.

much to do with improvement of cattle as had foreign importations.

Several other gentlemen spoke, and the meet-ing broke up after 10 o'clock—Mr. Sargent's ricultural Division of the Patent Office Bureau, Several other gentlemen spoke, and the meetresolution being first laid on the table.

For the New England Farmer.

BOOK KNOWLEDGE VS. EXPERIENCE ---SALTING PLUM TREES.

Farmer an article appeared with the above cap the various branches of farm and plantation mantion. The writer does not inform us of the mo- agement. This information to be published in dus operandi of his applying this article. Hav-the Reports, with a view to the "elevation of aging had some experience in this matter of salt on riculture, so essential to our wealth and prosperland, I can only say that in February of 1845, ity, as a nation, at least to an equality with other I applied to one acre five hogsheads, and for the pursuits." two following seasons my trees produced greatly, particularly the Green Gage; I had at that Hon. Marshall P. Wilder, of Massachusetts, was time upwards of twenty-five varieties of the chosen President, and Major Ben. Perley Poore, plum. Previous to this my fruit was badly stung of the same State, was chosen Secretary. The by the curculio. I could not, however, perceive roll of names being then called, it was found that that the salt had any effect upon the black wart. the different States and Territories were reprewhich has since destroyed nearly all the plum sented. trees in this section; my fruit was most satisfactorily preserved for two years from the curculio. sented by Mr. Browne. A friend from a neighboring city on a visit to my place while the salt lay upon the surface, on name by which the Convention should be known. his return home applied brine to a few trees, and it was finally voted that it should be called which killed them outright; salt as well as gua-the "Agricultural Advisory Board of the Patent no must be used in a proper manner; crude salt Office." or brine must not come in close proximity to the roots; it should be applied to the surface of the divisions, as follows: ground early in the spring, to the extent or spread of the branches, and remain upon the sur- Jersey, and Pennsylvania. face some two or three weeks before spading in. The plum is naturally a marine tree, and it is Virginia, North Carolina, South Carolina, and surprising how much salt it will assimilate and Georgia. thrive upon. The asparagus is also a marine 3d. Fl thrive upon. The asparagus is also a marine and Jad. Florida, Alabama, Mississippi, Louisiana, plant, hence a sprinkling of salt over the bed in Texas, Indian Territory, Arkansas, Missouri, early spring is beneficial, but we should not reason that if a small portion would be good, a large quantity would be better. A servant of Judge consin, Iowa, Minnesota, Nebraska, and Kansas. P., of our city, reasoning after this fashion, destroyed his plants.

Regarding the severe experiment, as it was then called, on my land, Mr. Downing, who visited my place when the crop of plums was upon the trees, remarked in his Horticulturist, that my garden was in a neighborhood not remarkable for plums, and that the abundant production of

of the salt on the curculio.

Many writers in our agricultural papers are too indefinite; they should be more explicit, not only in the precise article recommended, but the only in the precise article recommended, but the season and mode of applying it. We often find cio;) F. G. Cary, of Ohio; Dr. John A. Kennihighly commended by Mr. Pell, the great apple- Hon. Delazon Smith, of Oregon. grower in New York, is shell, and not stone lime, nation, which is deleterious to the land.

Salem, Dec. 15, 1858.

J. M. IVES.

CONVENTION OF AGRICULTURISTS AT WASHINGTON.

The delegates invited by the Secretary of the Mr. Sheldon thought that good keep had as Interior to represent the agricultural interests, from the several sections of the United States, met in the Patent Office in Washington, on the

3d January.

was present, and explained to the members of the convention the objects of the meeting to be for the purpose of aiding the department in obtaining more thorough and reliable information in regard to the present condition and progress of agriculture throughout the Union, both as it regards statistical facts, and as to the results of im-Mr. Editor:—In this month's number of the provements instituted and practices followed in

The Convention then proceeded to organize.

The Secretary then read a list of questions pre-

A discussion then sprang up in regard to the

It was also voted to divide the Board into five

1st. The New England States, New York, New

2d. Delaware, Maryland, District of Columbia,

Kentucky and Tennessee

4th. Ohio, Indiana, Illinois, Michigan, Wis-5th. New Mexico, Arizona, Nevada, California,

Oregon, and Washington.

The delegates of each division form a committee to examine and report upon the interrogatories submitted to them, with power to change and to propose others, or more, as they might think proper.

It was then voted that a committee of five be this fruit, he attributed to the destructive effect appointed by the chair, as a business committee, to bring forward subjects of discussion during evenings, and the following gentlemen were ap-

pointed:

lime recommended, but whether stone or shell cutt, of Illinois; James G. Holmes, of South Carlime we are not informed; the article lime, so olina; Frederick Holbrook, of Vermont, and

It was then voted that there should be a reguthe latter having frequently magnesia in combi-lar meeting of the Board, each morning at ten o'clock, after the adjournment of which the several divisions should go into session by themsuch special business as devolved upon them .-Maine Farmer.

For the New England Farmer.

LEGISLATION-LAND DRAINAGE COMPANIES.

BY H. F. FRENCH, EXETER, N. H.

How far it may be competent for a State Legislature to provide for or assist in the drainage of extensive or unhealthy marshes, or how far individual owners should be compelled to contribute to a common improvement of their lands, or how far, and in what cases one land-owner should be authorized to enter upon land of another, to secure or maintain the best use of his own land, these are questions which it is unnecessary for us to attempt to determine. It is well that they should be suggested, because they will, at no distant day, engage much attention. well, too, that the steps which conservative England has thought it proper to take in this direction, should be understood, that we may be better determined whether any, and if any, what course our States may safely take, to aid the great and leading interests of our country.

The swamps and stagnant meadows along our small streams and our rivers, which are taken from the farmer by flowage, for the benefit of mills, are often, in New England, the most fertile part of the townships, equal to the bottom lands of the West; and they are right by the doors of young men who leave their home with regret, because the rich land of far-off new States offers temptations which their native soil cannot present.

It is certainly of great importance to the old States to inquire into these matters, and set proper bounds to the use of streams for water power. The associated wealth and influence of manufacturers is always more powerful than the individual efforts of the land owners.

Reservoirs are always growing larger, and dams continually grow higher and tighter. The water by little and little creeps insiduously on to and into the meadows far above the obstruction, and the land-owner must often elect between submission to this aggression, or a tedious law-suit with a powerful adversary.

The evil of obstructions to streams and rivers, is by no means limited to the land visibly flowed, nor to land at the level of the dam. Running water is never level, or it could not flow, and in crooked streams which flow through meadows obstructed by grass and bushes, the water raised by a dam often stands many feet higher at a mile or two back, than at the dam. It is extremely diffi-

selves in committee room for the transaction of vented from running out. The natural drainage of the country is obstructed, and land which might well be drained, artificially, were the stream not obstructed, is found to lie so near the level, as to be deprived of the requisite fall, by backwater, or the sluggish current, occasioned by the dam.

> These obstructions to drainage have become subjects of much attention, and of legislative intervention in various forms in England, and some of the facts elicited in their investigations are very instructive.

> In a discussion before the Society of Arts, in 1855, in which many gentlemen experienced in drainage took a part, the subject of obstruction by mill-dams came up.

> Mr. G. Donaldson said he had been much engaged in works of land-drainage and that in many instances great difficulties were experienced in obtaining outfalls, owing to the water-rights on the course of rivers for mill-power.

> Mr. R. Grantham spoke of the necessity of further legislation, "so as to give power to lower bridges and culverts under public roads, straighten and deepen rivers and streams;" but he said authority was wanting, above all, "for the removal of mills, dams and other obstructions in rivers, which in many cases did incalculable injury, many times exceeding the value of the mills, by keeping up the level of rivers, and rendering it totally impossible to drain the adjoining lands."

> Mr. R. H. Davis said if they were to go into the midland districts, they would see great injury done, from draining the water for mills.

> In Scotland the same difficulty has arisen. "In many parts of this country," says a Scottish writer, "small lochs (lakes) and dams are kept up for the sake of mills, under old terraces, which if drained, the land gained by that operation would, in many instances, be worth ten times the rent of such mills."

> The river Nene, running a sinuous course of sixty miles from Northampton to Peterborough, possesses a natural fall of 31 feet per mile. This is held up in levels throughout, by no less than thirty-three water mills for grinding flour, and thirty-four lochs and eleven staunches, some for the mills and some for the purposes of navigation, the natural fall being 177 feet and the aggregate heads of the lochs and staunches 1634 feet. This occasions the water at the dry weather level to be higher than the adjacent meadows for about one-third the length of the valley, but the full-water level stands above the adjacent meadows for three fourths of the length of the valley.

So long ago as 1633, a commission sat to incult to set limits to the effect of such a flowage. quire into the best mode of redressing the abuses Water is flowed into the subsoil, or rather is pre- causing such damage to the lands on the Nene, and they ordered the dikes to be seewed and ob-obstructions, which is worthy of attention. structions removed, and the river widened to its Commissioners under the Act of 1846 removed ancient breadth. They fixed the number and the mill-wheels and substituted steam-engines width and guage of all the gates at the mills. corresponding to the power actually used by the But an investigation 200 years later shows that mills, compensating, also, the proprietors for inthe mill-owners could not be thus restrained |convenience and the future additional expensive-By raising their dams, by putting on flush-boards. ness of the new power. by stopping up outlets and various other devices, they had greatly enlarged their privileges, so fisheries and tenants' damages through derangethat by a survey made in 1826, and another sub- ment of business during the alterations, were dissequently, it appears that only five mills out of posed of without much outlay, and the pecuniary twenty-one inspected had their wheels and waste-advantages of the work are apparent from the ways according to the prescribed levels. The fact, that a single flood such as frequently overinches to two feet of water at each mill, and of- age, if fairly valued in money, than the whole ten to three feet. It was found that the land-sum expended under the Act." owners could not even enforce the well-known ordinances of the Court of Sewers. "It was found that nothing could be done to restrict the PRICE AND MEASUREMENT OF MILK. millers, but by plunging into endless lawsuits."

By authority of various old acts giving powers to Sewers Commissioners, and to navigation so much attention is being given by the milk-companies to maintain the river Nene navigable raisers of our State in selecting the best cows for for boats, &c., and by a new act in aid of a grand milk, and discussing the various breeds as to enterprise for draining the whole valley, it is sup-their milking qualities, and paying exorbitant posed that the navigation will be improved, the prices therefor, and of raising different crops of water-power of the mills increased generally, as to produce the greatest quantity of milk, they though one at least must be removed, the health- say not one word about the price they are to refulness of the district be much increased, and im- |ceive for their milk, or give it the slightest attenmense tracts of land thoroughly drained and tion, but submit to whatever price the milkman made productive in agriculture. "The district chooses to pay them, be it ever so ruinous. With will also possess the essential conditions needful vicinity of Boston, milk is the main product of for irrigation, a fresh water stream on a permather farm, and to which the farmer gives his exnent level, sufficiently elevated to supply a flow clusive attention. With all other products of the over the surface of the meadows, combined with farm, the farmer generally has a price, but with a competent system of dams for carrying off the his milk, the main thing he has to depend upon, spent floods."

Under the provisions of the Nene Valley Act are divisions of 6000 acres of the lands benefit-dealers generally—there is no competition with ed by the drainage, and subjected to an annual them—they make the price both with the raiser "outfall tax" of about one shilling per acre, and and consumer, and stick to those prices. If one a "district tax" for their own interior works at and if possible, his customers got away from him. the rate of five shillings per aere. Both these If he proves too able for them, and believes in rates are to be apportioned according to the de-the manly art of self-defence, they despise him, grees of benefit received by the lands from the as belonging to an unhealthy organization, not proposed improvements, the graduation to be fit to associate with. fixed by valuers or referees. The whole cost of the improvements will be about £275,000.

ley is given merely as an illustration of the mode of operation in the mother country, and to show how the rights of land-owners are constantly and almost inevitably encroached upon by those who thing to the milkman? control the water-power.

In another instance, that of the Rye and Derwent Drainage, an account of which is found in the 14th vol. of the Journal of the Royal Ag. Soc., a plan of compensation was adopted, where it became necessary to remove dams and other liked your suggestions very much, and I hope it

"The claims of a short canal navigation, two excess of water generally amounted to from eight flowed the land, has been known to do more dam-

For the New England Farmer.

MR. EDITOR :- I wish to make a single inquiry through the columns of your paper; that while roots, and of the manner of feeding the same so he has no price, but takes whatever the milkman chooses to give him!

Milkmen are different in some respects from of their party happens to "bolt," he is kicked out,

Is there no system by which the milk-raisers can have a voice in the price of milk, or are they willing to remain dormant, and take whatever the This sketch of the operations in the Nene Val-milkman chooses to give them?—a system by which the farmers can co-operate together, and break up this infernal practice of buying by one measure, and selling by another, and regulate the price of their milk instead of submitting every

> The milkman adheres strictly to beer measure, and will buy by no other. Cannot the milk-raiser

will meet with the favorable consideration of the farmers of the several towns, as also the best method of raising and selling milk.

Lexington, Jan. 24, 1859. A Subscriber.

REMARKS .- We have long been surprised that this subject has not received more attention by those directly interested in it. If the milk-buyers of Boston and the surrounding cities were they would rise in their might, establish milk de-is about 150,000, producing annually a quantity the milk brought to them.

of the need of important changes, and we assure said to contain a specified number of quarts; a less price than they now do, while the profits sult from such confusion of the standards of measure, the Cans varying from 84 to 83 quarts. that are now divided among the go-betweens, would partly go to the producers, where they be- by law, under adequate penalties, that no Cans

gets for his milk; it would be worth litteen to with a figure or figures denoting the capacity of twenty per cent. more to him made into butter— such Can in quarts by Wine Measure, with a while such a system of corruption has crept into proper allowance to be by law prescribed, for the the trade, and milk itself, that children cannot reduction of the bulk of the milk in cooling. live upon it, nor all honest men thrive upon it, who are engaged in its purchase and sale

We have intelligent and active committees upon agricultural subjects in our present Legislature, and we now suggest to our friends to make another effort.

First, To settle the law beyond all question and gallon of 231 cubic inches, or a beer gallon of 282 cubic inches. The people do not un-

capacity, because the necessities of the trade demand it just as much as the grain trade

country, but conceives so rapidly on the way to the city, that on arriving there, it will disgorge ten quarts with the greatest ease!

Thirdly, To ask the legislature to legalize certain persons to inspect milk offered for sale, upon them.

Now is the time to act. Pour in your petitions to the Legislature in the course of next week. We subjoin the form of a petition, so that all may have it to act upon at once.

TO THE SENATE AND HOUSE OF REPRESENTA-TIVES, IN GENERAL COURT ASSEMBLED.

Your Petitioners respectfully represent, that the Farmers of this Commonwealth are deeply interested in the production and sale of Milk; aware of the impositions practiced upon them, that the number of Cows kept within our borders pots, employ their own agents, and apply at once of Milk, valued at the low rate of three cents per to the Legislature for proper officers to inspect cow, at the sum of six millions five hundred and We hope our correspondent—whose name is before ns—will arouse the community to a sense cers in Tin Cans furnished by the purchasers, him that numerous enterprising and intelligent that many of such purchasers still continue to use the Ale Quart, which is not recognized by the Statutes now in force, while others use the some one to lead off in the matter. Under a prop- Wine Quart, which is the measure prescribed by er system of buying and selling, purchasers in law; and that great inequality, injustice, and the cities would get better milk, and more of it, at fraud, both to the producers and consumers, re-

Wherefore, they pray that it may be prescribed shall be used in the delivery or sale of Milk, ex-The farmer cannot live by the prices he now cept such as shall be legally sealed by the town or gets for his milk; it would be worth fifteen to city sealer of weights and measures, and marked

> And your Petitioners, as in duty bound, will ever pray.

> > For the New England Farmer.

MAINE BOARD OF AGRICULTURE.

The Maine Board of Agriculture met at the State Farm, Jan. 19th. Robert Martin, of West Danville, was chosen President, N. T. True, of Bethel, Vice President, S. L. Goodale, Secretary. cavil, as to what a legal liquid gallon is in The Board, representing twenty-four societies, this Commonwealth. Whether it is a wine held two sessions a day and a public discussion every evening, to continue for ten days. The Board is an able body of men made up of practical and intelligent farmers who are earnest in their labors to elevate the condition of agriculture. Secondly, To legalize the "can" as a measure of Reporters are constantly present who spread broadcast through the papers, among the people, every important point discussed, so that the whole agricultural population of the State are at once, demands a fixed legal capacity for the half to a great extent, on an equal footing with the bushel.

This we think is an important point. Shut up the doings of such a The "can" is now a sort of hydra-hellied mon-Board in Reports merely, and the few only will ster that will take in only seven quarts in the be the wiser. The last year, topics were assigned to each member to be reported and incorporated into the Secretary's Report of the present year, which to Maine farmers is becoming a most important document.

The close observer of our history will be struck with the marked improvements that are going on in many parts of our State, in agriculture. and affix heavy penalties upon those who We have better stock, barns, deeper and more adulterate it, when that fact shall be proved careful tillage, more reading, thinking men every year. Farmers' Clubs have sprung up even here.

that the most elegant building in the city is the opinions of men whom we know, and who have new jail just erected. Punishment in jail, means now, loss of personal liberty and nothing more, while to some poor fellow it may be a comfortable refuge.

Augusta, Me., Jan. 22, 1859.

EXTRACTS AND REPLIES.

MANURE ON SOWED CROPS-LIME, ASHES AND PLASTER IN THE HILL.

I wish to inquire whether it is best to spread on all manure in the fall for a sowed crop, or let it lay in the heap until spring? Whether the strength will not soak down in the spring when the ground is not beyond the reach of the roots? (a.)

Also, whether lime or plaster should be mixed with wood ashes, or whether all three be mixed together, or used separately, to put in the hill

for corn or potatoes? (b.)

A portion of my farm work for a number of the vines have been eaten by some insect, but the insect I could never find. On reading the statements last fall, made, I think, by Mr. READ, of Baltimore, I was satisfied that rot was caused by the bug he had discovered. But when I began to dig I did not find a single potato in those ces of roseword and mahogany, and in furniture, hills where the vines were eaten that was affect- for panel-work. It was patronized by the noed with rot, while in the hills by their side, where bility, speaking well for both the enterprise and the vines had not been eaten, there were rotten potatoes. W.

New London, N. II., Jan. 6, 1859.

Remarks.—(a.) If you mean by a sowed crop, rye or wheat sowed in the fall, we should say spread the manure and plow or harrow it under before sowing the grain. If you, fortunately, get manure after this work is done, and you wish to give the crop the benefit of it, make it as fine as possible and spread it on in the fall.

(b.) Mix your lime, ashes, and plaster, and apply them all at once. No harm will be done by the mixing that we know of.

POTATOES IN 1858.

Mr. Secretary Flint, in his letter to Gov. Banks, says that the crop of potatoes in Massachusetts has been uncommonly good, and that the yield amounted to six million bushels, at least, of the value of \$3,000,000. If this be so, what has become of the bugs that threatened to poison and destroy all the potatoes? I believe by this time, Mr. Editor, you, like myself, have become satisfied that this bug or insect theory of potato-destruction is one of the humbugs of the day. If you think otherwise please say so, that we may know where to find you, before we plant again.

REMARKS .- Well, Mr. Star, we are not entirely satisfied that the bugs do not have something witnessed. to do with the disease in potatoes, after all. At Dec., 1858.

In looking over the capital of our State, I find any rate, we have a good deal of respect for the bestowed much time and money upon their investigations. The opinion of a person so watchful and observing as yourself, checks us in giving full belief to the bug theory; so that while our opinions are thus balanced, we hope they will not influence your planting, or that of any other person, the coming spring.

A DISCOVERY OF OLD TIMBER IN THE OCEAN.

Not long since I had the pleasure of reading in your instructive journal an article on the value of wood and the planting forest trees. It makes me avail myself of the present opportunity to send you a short reminiscence for your monthly. The accompanying strip of bark, from an English oak, was taken from a log twenty feet long and two to two and a half feet in diameter, at one of the Liverpool, England, timber-yards, visited in the year 1845, where was seen a vast A portion of my farm work for a number of logs, say a ship load, brought from years has been, raising potatees for the market. the coast of Scotland. These logs having been and I have read everything in the Farmer with fished up at a distance of two to three miles from interest, on the subject of the potato rot. For a the shore, in open sea. The time is not known number of years I have noticed that a portion of when the ocean had so invaded the earth as to make these desposites.

> This timber was of the most desirable character to a people who so much admire the wood, and indeed we are assured its value paid largely to the fortunate discoverers. It was used at pri-

patriotism of the nation.

A Reader and Subscriber. January, 1859.

MOWING MACHINES.

"Facts are stubborn things." A working man informs me, that he has cut the present season, with one of Allen's mowers, 325 acres of grass, yielding on an average, at least, one and a half tons to the acre, amounting to 450 tons, besides many acres or second crop, yielding one ton to the acre. This has been done on an average of time to the acre not exceeding 50 minutes. The machine has been moved by the same pair of horses, which he has used for three years, for this purpose. He has driven them himself, with no assistant near. On some days has cut ten acres at least, with no re-sharpening of the knives.

I have repeatedly seen the grounds on which this implement has operated, and know no reason to question the correctness of the statements. If these facts do not prove that mowers can be advantageously used, where there is grass enough grown to justify their use-say on farms where there are fifty acres or more to be mown; or in neighborhoods where several can produce as much as this by combining together-then I will admit my notions of the labors required in carrying on a farm are erroneous. I do not say that other machines may not be used to equally good advantage. I only speak of what I have Essex.

PEAS IN POTATOES TO PREVENT ROT.

May 11, I planted in the garden twenty hills of pogie potatoes; holes were made in the potatoes with a penknife, and from four to six peas were thrust into each potato. The soil was a black, moist loam; no manure was put into the hill. September 4, the potatoes were dug. Every hill had potatoes in it affected with rot, fully as stitution. much as potatoes in the same garden, planted in the ordinary way; nor was there any difference Brown, of Middlesex, were pretty fully discussed, in yield in favor of the experiment. The pea vines, which were quite scanty produced very few and inferior pods.

Melrose, Mass., January, 1859.

DISEASE AMONG CATTLE.

In looking over your paper of January 8th, I noticed an article headed "Fatal Disease among About the year 1850 I lost seven head with this same disorder, and for the benefit of those who may have cattle similarly afflicted, I send the following receipt:

Take 1 pint of vinegar, 1 teaspoonful pepper, 1 teaspoonful salt, and mix and stir well together; turn up the head and turn this into the ears. I have never known this to fail if applied in season. I have had several taken since I first adopted this remedy, and have found it a sure cure.

PHILIP JUDKINS.

Carthage, Me., Jan. 10, 1859.

BUNCH ON A HORSE'S LEG.

To a Subscriber in Millbury.—I had a bunch form on the inside of the leg of a young horse, plain to the caused by the pole striking against the inside of modification. the leg, which I removed by using the Mexican Mustang Liniment.

Sutton, Mass., Jan., 1859.

MILK AND BUTTER AFFECTED WITH THE FLAVOR OF WILD ONIONS AND LEEKS.

Can you inform me if there is any way to take the taste out of milk and butter where the cows have eaten wild onions or "leeks?" I have a pasture which is connected with a piece of woodland, where they abound in the spring of the year, and the milk is rendered useless only for the pigs. SUBSCRIBER.

Danville, Vt., Jan. 8, 1859.

A. P*****k, Saugus, Mass., need not keep back his light for the reasons he gives. Let it shine, and illuminate our columns.

Vail, who has had much experience as an agricultural instructor and lecturer, is now located at Springfield, N. Y., where he receives pupils for a course of agricultural instruction, in which they Lewis and Lathrop. are indoctrinated in the connexion of the sciences with the successful cultivation of the soil. Vail claims for his system of instruction that it is simple, thorough and efficient, and that it has water. the approval of the best cultivators and scientific

STATE BOARD OF AGRICULTURE.

FOURTH DAY,

Prof. J. W. P. Jenks, of Middleboro', was appointed Zoologist to the Board for one year. A committee was also appointed to transfer the State Farm to the Board of Trustees of the In-

The following resolutions presented by Mr. and severally laid on the table.

Resolved, That the Legislature be requested to pass an act requiring each county society re-ceiving a portion of its bounty, to appropriate one-third of the whole amount received, to the support of agricultural meetings and discussions in various parts of each county.

Resolved, That, in the opinion of this Board, whenever any article, stock, implement, or anything else, has once received the highest premium in its class, of any society, it should never receive another premium from any incorporated

society within the limits of the State.

Resolved, That it is the opinion of the Massachusetts State Board of Agriculture, that the establishment of more than one agricultural society in each county of the Commonwealth, and receiving its bounty, is not conducive to the agricultural interests of the State.

The committee on the $Dog\ Law$ were directed to prepare a new draft of that law, and lay it before the joint committees on agriculture, and explain to them the necessity that exists for its

A committee previously appointed to consider the subject of the distribution of agricultural tracts, made a majority and minority report. The committee was charged and further instructed to carry out the views expressed in the majority re-

A committee was appointed to petition the Legislature for the sum of \$3000 to aid in scientific and practical investigation, and to promote the general interest of agriculture, enlarging the museum, &c., &c.

Committees were appointed to inquire whether anything can be done to avoid collision in the time of the exhibitions of the several societies; to recommend some uniformity of action on the part of societies in awarding premiums; and to consider the propriety of instituting meetings Scientific Agriculture.—Mr. Henry C. and discussions to be continued one or more days and evenings.

> Manures-Messrs. Fisher, White and Brooks. Renovation of Pasture Lands—Messrs. Felton,

> Market Fairs — Messrs. Tracy, Sutton and

Root Crops-Messrs. Brown, Gardner and At-

Fruits and Fruit Culture—Messrs. Wilder Bull and Durfee.

Farm Fences-Messrs. Sewall and Davis. Cattle Husbandry-Messrs. Lathrop, Tracy and

and Knox.

Diseases of Vegetables-Messrs. Bartlett and

Improvement of Horses-Messrs. Atwater and Marston.

Grain Crops—Messrs. Bushnell and Bull.

FOURTH LEGISLATIVE AGRICULTURAL MEETING.

REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

The meeting of this Society in Representatives' Hall, last Monday evening, was well attended. Hon. MARSHALL P. WILDER was called to the chair.

the Culture of Fruit Trees."

The Chairman said it gave him great pleasure to make a few remarks on the subject of discussion, which was one of the most important that could be debated. Fruits, as articles of market value, were among the most important of the products of the farm, and as much so to the country tend the labor of producing them unless it was as to the Commonwealth. Their cultivation had made great progress among us within the past fifty years. The crop in 1835 was valued at \$700,-000. In 1845 its value was \$1,300,000. In 1860 it could not be less than two millions of dollars its operation the more troublesome diseases and -more than the value of the wheat, oats, rye and barley in the State. Such had been the re-ough drainage, Col. Wilder insisted, was an absults of pomological science in Massachusetts solute associate of success. He then made a few that her exhibitions sustained the highest rank. One gentleman who had had opportunity of judg-soils of orchards in a rich condition, by manuring said that he saw more choice fruit at one of | ing, and of planting the various descriptions of our exhibitions here than he saw at twenty in Europe, where, as in Germany, the greatest encouragement had been given to pomology by the government. But great as was our credit here, it was eclipsed by that of California and Oregon Territory, correspondence from which regions showed that they were blessed with wonderful natural facilities for the growth of fruits of all kinds. Col. Munroe, Oregon, stating that he had forwarded a box containing an apple forty ounces in weight each! Another correspondent from the same region informed him that ten millions of nursery trees had been sold in Willimet Valley; and Col. W. added that at Washington, a few days ago, he best sorts to cultivate, and best modes of cultivat-|concluded by saying that he hailed with pleasure

ing them. The pear crop in this State was valued at \$100,000 per annum, and also demanded a full share of attention, with respect to kinds Sheep Husbandry-Messrs. Grennell, Bushnell best suited to our soil, and to the most approved manner of cultivation. We had among us many varieties of pears adapted to our climate and soil, and of these varieties the Bartlett, Vicar of Winkfield, and others which he named, were well adapted.

> The following were recommended as the six best varieties of apples :-The Williams, Early Bough, Gravenstein, Fameuse, Hubbardston, Nonsuch and the Baldwin; and if twelve varieties were desired, the Red Astracan, Rhode Island Greening, Ladies' Sweet, Porter and Talman Sweet might be added.

For pears on their own roots the following were recommended as the best six:-The Bartlett, Urbaniste, Flemish Beauty, Belle Lucrative, Onon-The subject for discussion was, -"Fruits, and daga and Doyenne Boussock; and if six were desired on quince stocks, the Chairman recommended the Louise bonne de Jersey, Urbaniste, Duchesse d' Angouleme, Vicar of Winkfield, Beurre d' Anjou and Glout Morceau.

With regard to the conditions of proper cultivation of fruits, no great success could ever atconducted with a care equal or superior to what was spent on any other kind of production. One of the primary and most essential conditions had proved itself to be thorough draining, as through parasitical affections were obviated. This thorremarks on the great necessity of keeping the trees in the soils best suited to them. He repudiated the fashion of adopting too many foreign trees; for, as a general principle, trees and plants flourished better on the soil of their origin than they did in localities foreign to them. Col. W. recommended raising seedlings, as on them we would ultimately have our surest dependence for good, reliable fruit trees. We had doubtlessly a Wilder read a letter from a correspondent at number of fine fruits already native to the soilat the head of which stood the Baldwin apple of which 50,000 barrels were last fall exported, and twelve others averaging a pound and a half from this city. At a late meeting at Rochester, N. Y., the Baldwin had three marks of merit to one for any other kind, and the others which received the next highest commendations were the Rhode Island Greening, the Russet and the saw a pear from that place which weighed four Tompkins' County King. Col. Wilder went on pounds! Grapes, when their value was considered, to give the statistics of apple and peach culture either as an article of luxury or commerce, had in the West and South, showing that it was much important claims on attention in respect to the more extensive than was generally believed. He

the wide-spread interest now manifested in rela- many places the healthy grape, in place of the tion to the cultivation of the grape. The time, diseased one. Mr. B. was not in favor of pruning he said, was within the recollection of some pres-close, but commended what is called the spur sysent, when the Catawba and the Isabella were first tem, and he found it the most profitable and its brought into notice. Hundreds of cultivators results the most productive. Other practical rewere now raising seedlings, and the day would marks were made which were too elaborate for soon come when our markets would vie with those our space. He wished that all grape growers of Italy, Sicily, and other grape-growing coun-would commence to grow from seed, as by that tries, where this luscious fruit is not only a lux-process they would best arrive at their main purury to the opulent, but the food of the humblest pose-improvement. peasant. Our native wines were attracting at- Mr. Sheldon, of Wilmington, made a few obtention in Europe, and at a late convention in servations on the evil of opening apple trees too Belgium, our Catawba was pronounced superior much on the top by pruning, which he thought to the best varieties of Rhine wine. Our own was too much talked of and practiced to be prof-Concord grape, also, had attained great estimation itable or prudent. He objected to planting fruit among wine-growers, as had been testified to by trees too far apart, and recommended 30 feet, as Mr. Longworth, of Cincinnati. We have been that distance was more favorable to the proteccompelled to give merely the substance of Col. tion of an orchard from heavy winds than any Wilder's remarks.

favor of draining the soil for the production of ards; but thought if it was decided on, the the finer fruits, as the higher the culture the more squash was the best crop that could be adopted. perfect the produce. His subsequent remarks The best apple he knew was the Baldwin, for all were very practical, and of great value.

time in cultivating the grape, and had not been first Baldwin tree grew in Wilmington. The spot rewarded for his labor, because experience was well defined, and he hoped the suggestion taught him that our imported varieties were not would be carried out, as nothing had proved to be depended on, and suggested that our na- more profitable to Massachusetts than the Baldtive varieties would have to be resorted to in win apple. Mr. Sheldon stated that the original order to produce a grape suited to the circum-tree had been destroyed by lightning. stances of safe cultivation. The carrying out this | The Chairman confessed that he had been lax idea produced the Concord grape, and others from in his duty as a member of a committee appointit which he thought to be of greater value; and a ed to attend to the matter of this monument; continuation of the same process would result in but Mr. Sheldon excused the presiding officer, the obtaining of a great variety of grapes, each on the ground that he had always over-worked suited to the soils and circumstances of the Com- himself in the cause of agricultural and horticulmonwealth. As to the field culture of the grape, tural progress. if wine-making was all that was required, it was ready for adoption; but if it was desired that the and LAKE, of Topsfield, severally made some field grape should be a good table grape here, valuable practical remarks. The latter gentleexperience and research, and time, must bring it man went in for thorough draining as the primaforward. The combination of delicacy of aroma ry condition of successful fruit-raising. He comand hardiness in the meantime was not to mended the Seckel and Winter Nelis and Easter be found in openly cultivated grapes, although Beurre as being among the best pears we could the day was close at hand when it would be so, grow, and gave his preference to the Rebecca Speaking practically of the cultivation of the grape, the Delaware, Diana, Clinton and Congrape, Mr. Bull commended the use of sulphur cord. as a preventive of mildew in the case of the imthat would not require such artificial cultivation the best, nor was the system apparently ap--that would be hardy under any common cir- proved, as the fear seemed to exist that the imkind, and Mr. Bull hoped that he might be in a in time, and using no implement more formida-

other-always providing for a sufficient ventila-Hon. B. V. French, made a few remarks in tion. He disapproved of all croppings of orchpurposes—shipping included—and he suggested Mr. Bull, of Concord, had spent much of his a monument to be erected on the spot where the

Messis. Buckminster, Wetherell, Davis,

The questions of hybridizing and pruning were ported varieties, as the absence of it aggravated incidentally touched upon. With respect to the the mildew; but it was better to have a grape former no rule of management was decided on as cumstances—such a grape as would not demand portation to a hardy rough grape of the qualities unusual attention on the average of soils, one of a finer one would give it also a proneness to that might be treated in the commonest manner. the diseases which infested our finer sorts. As The Concord grape had proved itself of this to pruning, the general idea was that beginning position to be the instrument of restoring to ble than the pocket-knife was the best mode of proceeding; but that when it was necessary, the Legislature of this Commonwealth, as that of

"Sheep Husbandry."

ECHOES.

A good ear cannot distinguish one sound from another, unless there is an interval of one-ninth of a second between the arrival of the two sounds. Sounds must, therefore, succeed each other at an interval of one-ninth of a second, in order to be heard distinctly. Now, the velocity of sound being eleven hundred and twenty feet a second. in one-ninth of a second, the sound would travel and common justice, and the spirit of the age. one hundred and twenty-four feet.

Repeated echoes happen when two obstacles are placed opposite to one another, as parallel walls, for example, which reflect the sound suc- "MILCH COWS AND DAIRY FARMING."*

cessively.

At Ademach, in Bohemia, there is an echo which repeats seven syllables three times; at Woodstock, in England, there is one which repeats a sound seventeen times during the day, and twenty times during the night. An echo in the villa Smionetta, near Milan, is said to repeat so much literary taste as is to be seen in this a sharp sound thirty times audibly. The most celebrated echo among the ancients, was that of the makes one feel comfortable in reading it, the Metelli, at Rome, which, according to tradi-tion, was capable of repeating the first line of ter Pindar's razor," made only to sell. He, how-Eneid, containing fifteen syllables, eight times distinctly.

Dr. Birch describes an echo at Roseneath, Ar- ment commits a blunder. gyleshire, which, it is said, does not now exist. When eight or ten notes were played upon a trumpet, they were returned by this echo upon a work makes ample ame key a third lower than the original notes, and tions in this particular.

at Belvidere, Alleghany county, N. Y. The echo plished their purpose, and will never be worth repeats eleven times a word of one, two or three syllables; it has been heard to repeat thir een a particular object in view, and their statements times. By placing oneself in the centre, between are neither valuable nor trustworthy. Cattle the two barns, there will be a double echo, one in the direction of each barn, and a monosylla-

ble will be repeated twenty-two times.

A striking and beautiful effect of echo is produced in certain localities by the Swiss mountaineers, who contrive to sing their Rans de rect information on this branch of farm economy, Vaches in such time that the reflected notes form an agreeable accompaniment to the air itself.-Prof. Silliman.

INJUSTICE IN FLOWAGES .- In another column may be found a second article from Judge FRENCH's forthcoming book "On Drainage," to meant, the opinion of a very large majority of which we wish to call the especial attention of those, who have given so much attention to the the reader. There is no subject, in our opinion, *MILCH COWS AND DAIRT FARMING. By C. L. Flint, Secretary that so imperatively calls the attention of the of the Board of Agriculture.

best time to prune large limbs was in Septem-|flowages. All the mill acts ought to be repealed, and an entirely new form and spirit of legislation The subject for next Monday's discussion is, enacted, more in accordance with justice and the common rights which every where exist between man and man. We hope that some enterprising and fearless champion of the "Rights of Man" will be found in our present legislature who will devote himself to this work, and institute such proceedings as will call public attention to the outrageous partialities and inequalities that now exist, and result in the enactment of laws on the subject more in accordance with common sense

For the New England Farmer.

I have just completed an examination of Mr. Flint's book with the above title, and cannot for-

bear to say a word in its praise.

In the first place, its size and style both commend it. Very few agricultural writers exhibit work. The paper and print are also superior. ever, who gets up a book with mean type and cheap paper, having a view to profit, in my judg-

Many of the cuts are very good and some are very poor. But the general execution of the work makes ample amends for trifling imperfec-

It has come at a time, too, when such a work shortly after upon a key still lower. Dr. Page describes an echo in Fairfax county, Virginia, was very much needed. A great deal has been describes an echo in Fairfax county, Virginia, was very much needed. A great deal has been describes an echo in Fairfax county, Virginia, was very much needed. which possesses a similar curious property. This written within a few years, in relation to the subecho gives three distinct reflections, the second jects of which it treats, and a very large proporecho much the most distinct. Twenty notes to make the most distinct. Twenty notes to find the valuable part, would be a great-clearness. But the most singular property of this erho is that some notes in the scale area. echo is, that some notes in the scale are not returned in their places, but are supplied with notes which are either thirds, fifths, or octaves.

There is a convenient of this places, the scale are not returned in their places, but are supplied with notes which are either thirds, fifths, or octaves. There is a surprising echo between two barns ject are everywhere scattered, which have accombringing again to the light. Many writers have breeders are able to find no defects in the breed which they favor, and no merits in any other. Stock speculators praise those only, which for the moment will yield the largest profit. Men, therefore, who were really desirous to get corwere at a loss where to find it.

This work of Mr. Flint supplies the deficiency. It may be regarded not only as comprising the opinions of the author, which years of experience as Secretary of the Board of Agriculture have made valuable, but also as a compendium of well digested and reliable public opinion. By this is

judgment is of value, because it is unprejudiced physiologists, that the fat of animals when taken and honest. The man who has devoted a good into the stomach becomes fuel for the body, and deal of study and thought to the subject, will de- shows conclusively, why the Esquimaux is so intect nothing new in it, but he will find the results different to the cold, and why Dr. Kane and his of his own investigations and convictions much party could endure an Arctic winter in latitude better expressed, probably, than he could express eighty degrees. Now it is almost certain that them himself.

land," which is an elegant and finished translation experience the Arctic winters, and reasoning from from the German, and Mr. Horsfall's statement analogy, should in some degree adopt an Arctic in the appendix, give increased value to the work. diet. Fat meat to warm the body when the ther-No farmer whose money does not yield him more mometer is at zero, will not be amiss; but in sumthan 100 per cent. interest, can invest the amount mer, when the south winds blow and the tropical of its cost half so well, as in the purchase of this season comes, and with it tropical diseases, the little book. Unus.

For the New England Farmer.

WHAT SHALL WE EAT?

every individual, notwithstanding a person may at this season of the year is like dressing in furs subsist for a time, at least, on a meagre diet to in dog-days. Am I wrong then? Why has Naall appearances, as well as on the most sumptu- ture so abundantly supplied our wants, and scatous living. Physiologists and reformers, from tered her blessings in such profusion? Why has eloquence to prove that one article of food is Arctic Circle with the whale, the scal and the wholesome, another pernicious, until even at this walrus, whereby he may obtain that fuel for the late day and generation, the question, What shall body, so essential to enable him to endure the sewe eat? is as perplexing and difficult to answer verity of that climate? Or why in more genial as it would have been to the sons of Noah, the climes has she planted the date, the cocoa-nut, the day when the Ark first rested on Mount Ararat, banana and the plantain? Is it not evident that labored with a zeal worthy a reformer, to prove body may be found in our very midst, planted that mankind were not carnivorous, and there- and nurtured by the hand of Nature, ever wise fore animal food was the slow poison that brought in its dispensations, ever beneficent in its designs? on our infirmities, and consequently shortened human life. Many were his proselytes, who abstained from animal food, at his suggestion, believing that they might attain to the age of Methuselah, by adhering to his physiology, when, lo! the Doctor died in early manhood, perhaps a victim to his own delusion, not having arrived at the scriptural age of three score years and habits of eating and drinking-not because we

Vegetarians have not been wanting, who maintained that a vegetable diet was the proper food for man, or that he was graminiverous, and should and perhaps, reformation, in some particulars. subsist on roots and herbs; in fine, that man, like the ox, should eat grass and ruminate. So even at this day we may use the language of the poet:

"Who shall decide when doctors disagree?"

Now it is evident that mankind are so differently constituted, that no rule on dietetics will apply in all cases; what is poison for one, is an antidote for another, and vice versa. The truth in this matter, in and out of the State. There is 's, people of limited means should consult econ- evidently a new desire awakened in New England omy, and if upon trial it is found that six dol- to conduct the business of farming with more lars in flour will support life as long as ten dollars in meats, and with it good health besides, be met with a corresponding interest on the part Nevertheless, it may be that the staff of life of the agricultural press, and by the active men would not be sufficient nutriment in all exposures of agricultural associations. The Massachusetts and at all seasons of the year. The Esquimaux State Board of Agriculture has taken an impor-Indian of Northern Greenland, throughout the long, dark winter, subsists chiefly on walrus beef and seal; Dr. Kane, in the same inhospitable place before the public. The views of others, region, found the greasy Esquimaux's diet far communicated to us, may aid in this new movepreferable to the variety usually carried on ship- ment.

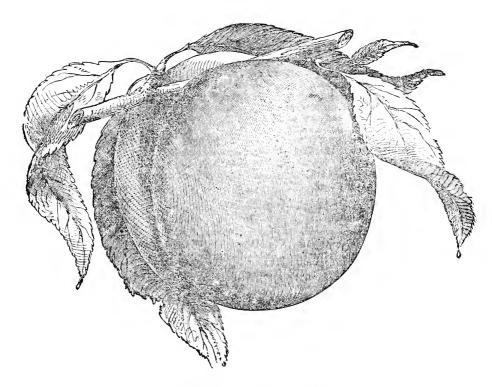
subject as to be competent to judge, and whose board, which goes far to prove the assertion of such a diet in the tropics would be fatal in a The chipter on the "Dairy Husbandry of Hol-short time. In this latitude, we, in a measure, diet should be very different.

In summer we plant shade trees around our dwellings, open the windows, dress in cottons and muslins, and fan ourselves, in order if possi-Truly this is a question which deeply concerns ble to keep cool; now patronizing the butcher time immemorial, have expended much brain and she so generously supplied the inhabitants of the In view of these facts the celebrated Dr. Graham whatever food is necessary to give health to the

Stow, Jan. 1, 1859. H. FOWLER.

REMARKS .- A sensible, practical view of the case. The reader will please remember that we have admitted into these columns several articles commenting with considerable severity upon our adopted as truths all that was said, but because Other reformers have advocated different views. we thought such articles would not fail to attract attention, and prepare the way for investigation,

> FARMERS' CLUBS .- We gladly acknowledge the receipt of valuable suggestions with regard to the best modes of bringing the subject of agriculture more directly home to the people, and shall consider it a favor to receive the opinions of our friends system and intelligence, and this desire should



THE CRAWFORD EARLY PEACH.

This is one of the most splendid, as well as ble the space to fill, we should scarcely find any "it is perhaps the most popular of the day, and others. it is deserving of the high favor in which it is held by all growers of the peach. It was originated by WILLIAM CRAWFORD, Esq., of Middletown, N. J. The tree is vigorous, very fruitful and hardy." The fruit from which our engrav-Esq., of Roxbury, Mass.

The leaves of the tree have globose glands. the last of August. Flowers small.

one of the most excellent, of all early yellow-difficulty in doing it. The writing and publishfleshed peaches, and is scarcely surpassed by any ing a good article, is like that charity that blesses other variety in size and beauty of appearance. twice; it is of more benefit to the writer than We have raised them so that three would weigh would be the reading of a dozen articles, and a pound. "As a market fruit," Downing says, then the article goes forth to benfit thousands of

For the New England Farmer.

EXPERIMENTS IN RAISING CORN.

In the spring of 1857, I had but five acres of ground to plant to corn, and, not being very badly ing was taken, was grown by CHARLES D. SWAIN, hurried with work, I concluded to try an experiment, in order to test the different ways of applying manure. My field was an oblong, forty rods by twenty, and I divided it into five plots, each Fruit very large, oblong, the swollen point at the four rods wide. On the first I put twenty loads of top prominent, the suture shallow. Skin yellow, long manure, and plowed under to the depth of with a fine red cheek. Flesh yellow, melting, eight inches. On the second plot, ten loads of sweet, rich and very excellent. Ripens about fine barn-yard manure, on top of the ground after plowing, and then thoroughly dragging before marking. Plot third, manured in the hill, with two quarts of very fine stable manure. Plot fourth, To Correspondents.—We are under obliga- manured in the hill with one quart compost, tions to our correspondents for many articles that we have not yet published, but for most of which without any manure. The kind of corn planted we shall find space soon. The circle of corres- was the yellow smut, or red blaze, the kernel of pondence is still widening, and if we had dou- which is large and flat, and ear good size. It was

planted on the twenty-fifth or twenty-seventh of another. We hold that corn is not fit to be meas-May, dropped dry, and plaster dropped on it before covering, and then plastered again as soon as up.

When I could see the rows, it was cultivated both ways, and in a few days cultivated again and hoed, which was all that was done for it until it was large enough to hill, when it was plowed both ways, two furrows in a row, and hilled up a very little. It was furrowed three feet apart, making just 22 rows on each plot or acre. As soon as it was ripe it was cut up at the hill, and well set up in small shocks, so that the corn might dry as soon as possible, and the latter part of October it was husked, each plot by itself, and accurately measured in the ear as it was put in the bin. The poor corn I made no account of. The following is the result:

Plot 1, 84 bushels of ears. Plot 2, 90 " " Plot 3, 99 " " Plot 4, 95 bushels of ears. Plot 6, 68 " "

From this I conclude, that, for present profit, manuring in the hill is the best, as the plot manured with barn-yard manure in the hill gave 15 bushels more than the long manure plowed in, and 31 over the one without manure.

The result is also in favor of spreading the manure on top of the ground instead of plowing under for the first crop; but how this will affect the succeeding crops remains to be seen. This year it was sowed to oats and I have kept them in separate parcels, and as soon as I get them all thrashed, I can tell how much each plot produces and their weight per bushel. It is now sown to rye, and this crop will in a measure determine which method will give the most permanent ben-JAMES BAKER.

Oak Hill, Jan., 1859.

REMARKS.—We accept the proposition made in your private note.

TRANSACTIONS OF THE NORFOLK AG-RICULTURAL SOCIETY.

This handsome pamphlet of 120 pages presents one feature, such as we have never before witnessed, capable of being imitated in every society of the Commonwealth. The supervisory committee framed a series of questions, embracing the essentials of farm management, and addressed them to intelligent cultivators. In this way they elicited the actual experience of the best cultivators of the county. Several of these papers contain the essence of good farming. There is one gentleman, page 38, who states how he has grown, year after year, crops of Indian corn, amounting to one hundred bushels to the acre, no mistake, and no fictitious measure. This is good doings, better by one-half than most farmers do. We venture the assertion, that the crop two tons of good hay per acre, without any mausually raised throughout the State does not ex- nure. The appearance of the soil is wholly curing and measuring this crop, so that the crops remunerative crops to the farmer .- Country Genin different sections can be compared one with tleman.

ured, until it is dry enough to be ground, and that the statute should define the number of pounds to constitute a bushel at this time.

One gentleman (p. 35) speaks of growing three or four hundred bushels of currants to the acre, in his orchard, in addition to the fruit of the trees. This is a valuable crop indeed, for we presume such currants will readily command half a They are a palatable and dollar a bushel. wholesome berry.

We are pleased to see that these Norfolk farmers stir their soil from seven to ten inches deep, and that they are not sparing of their manure, applying from eight to twelve cords to the acre. No man can expect a full crop, who feeds skrimpingly. The liberal donor shall be rewarded accordingly. We think we should prefer Mr. Robinson's instructions about draining and seeding land, to those of old Father Elliot, who lived more than one hundred years ago. We think we trace on many of the pages of this volume, the industry and good sense of our old friend Sewell-and have no doubt he will do as much good in his day and generation, by his labors on the farm, and among farmers, as he ever did in the pulpit.

AN EXPERIMENT IN DRAINING.

When we witness the change of a sterile soil into a fertile one through the influence of draining, it is conclusive evidence of the value of labor so applied. Such has recently come to our notice, and we shall recall it for our readers.

It not unfrequently happens in hilly or gently undulating districts, that intervals and damp, springy soils abound, requiring draining before it can be brought into profitable cultivation. The instance in question, was a field of fair surface, quite free from stone, but receiving from more elevated land a continual supply of clear, cold, soft spring water, which ran over nearly the whole surface. The owner, faithless of reclaiming the lot, was yet desirous of collecting the water to supply a reservoir for cattle. This was mainly accomplished by cutting a drain across the slope of land near the upper side of the field, for about a hundred rods in length, which did so much for draining the surface that other ditches were cut completing the work. The drains were finished with the flat stone usual in such districts, carefully laid and covered with a good coat of straw, before replacing the dirt. Now of the change produced.

A crop never grew upon this lot from the time it was cleared until after it was drained. Water grasses and weeds were the only product; but since draining, it has produced annually over ceed forty bushels, fair measure. We think there changed, from a tenacious blue clay, adhering to ceed forty bushels, fair measure. We think there one's boots like tar—it has become a clear, black, is great need of some uniform rule of harvesting, clay loam—just such a soil as always produces

FIFTH LEGISLATIVE AGRICULTURAL MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

The meeting on Monday night was very respectable in point of number, and included many of our most enterprising farmers throughout the State. The subject for discussion was, "Sheep and Sheep Husbandry."

effect. The proneness of cultivated grass lands hay, grain or other produce. to go back to a natural state was also a considermeans.

As to winter-keep of sheep, it was an advan-taken to cure this evil. tage to the farmer, although it was thought to demand housing so much as other stock—they lands adapted to the support of half a million of

requiring only a yard, hay-rack, and a shed during storms; they were less liable to disease than any other stock; in fact, all they demanded was the simple attention of feeding, and they improve in condition in the same ratio as cattle feeding for the shambles. Sheep consume two pounds of hay, per day, or its equivalent. Eight pounds of roots would be an equivalent. As Hon. RICHARD S. FAY, of Boston, occupied compared with cattle, sheep produce much more the Chair. He apologized, because of ill health fertilizing manure than any other kind of stock. and engrossing avocations, for want of prepara-| Spengel, a German chemist, said that 1000 sheep tion in introducing the subject. Sheep husbandry would produce as much manure in twenty-four was a most important item in the husbandry of hours as would put an acre of land in the best the State. Referring to the system of stock condition. This looked rather strange to Mr. Fay keeping, and the proposition laid down at a for- when he first saw it, and he determined to look mer meeting-that no farm could be properly into it. This would give fifteen well-manured managed unless it kept a stock capable of con- acres out of as many tons of hay—a rather startsuming its produce—he took up the question of ling statement. Professor Johnston, in an artiwhat was the best kind of stock to keep, espe- cle on the comparative value of manures, raticially with reference to the progressive improve- field it by stating that sheep droppings were as ment of the farm. The prominent question is 12 to 7 in fertilizing qualities, compared with -What shall we do to renovate our worn-out the excrements of cows-nearly one-half more. pastures? Cattle had been tried, and the conse- In conjunction with other stocks, and not at all quence had been failure; for in connection with to displace them, all farmers ought to keep cattle culture, the true American system was to sheep. Their droppings are as good as guano, take all out of the farm and return nothing to it, and few farms were independent of the use of In the mind of the speaker, sheep husbandry such manures-for few were without spots where was the best means of renovating the soil. Top it could be top-dressed by the use of sheep, dressing was out of the question; for the pas- when any other means would not prove half so tures would have to be brought to a reasonable effectual. Sheep, also, had always a ready marstate of fertility before this could be done with ket, which was another advantage they had over

As to the objection against sheep on account tion to be thought of, and the means of keeping of dogs-their number in this State had dwinthem in good condition another. Sheep grazing died from 550,000 to 120,000! It was a matter would do this more effectually than any other, of shame to think that dogs were so allowed to as the excrement of sheep, in its nature, and in mar such a useful branch of rural economy. In the manner it was distributed over the soil, re- old times, a premium was offered for the heads stored to pastures what they had lost from feed-of wolves, for the reason that they destroyed the ing, kept down the natural and coarser grasses, domestic cattle and sheep; and now when dogs and retained the fertility of the lands in a great- were so much worse, and the fact was made plain er measure than by the use of any other descripto to the Legislature, it was as good as laughed attion of grazing stock. Mr. Fay said he possessed for the law passed last session was of no conse-200 acres, which, ten years ago, would have quence. Had it passed as originally presented, starved ten cows to death. It was a matter of the bill would have added to the value of the too much expense to cultivate it—in fact, it was sheep stock, in a few years, \$1,000,000. Everyno more in his estimation than a piece of waste body was protected in their rights but the farland. It was of no use, only as it was liable to mer. If a man established a nuisance alongside call for a tax. On 100 acres he put 150 sheep, his neighbor's property, he was liable to punishfour years ago, and now, on the same pasture, ment; but a man who was not worth a cent, but there are fifteen to twenty cattle grazed six who owned an untaxed dog, was suffered to keep months in every year. This was through pastur- his sheep-killing nuisance with impunity. The ing with sheep. The land was rocky, and could option of cities and towns to adopt the existing not be brought into cultivation through any other laws was fatal to any idea of its ever being useful. Mr. Fay hoped that means would soon be

As to wool, New England manufactured be different. They required less care, did not 40,000,000 of pounds, when Massachusetts, with 400,000 pounds. In England there were about fed by sheep, it could support five cows, and re-44,000,000 sheep; while in the United States, ceived the best premium the Essex county could where cheap land and other facilities were superi- give. Several other gentlemen had tried the or, we had only 15,000,000. The fact appealed to same description of experiment, and all had been our patriotism. Gentlemen here wore broad-similarly successful. cloth coats and pants, and not a thread of them Mr. SANFORD HOWARD, of the Cultivator, were grown within three thousand miles of agreed in the opinion that sheep formed a most where they were. Mr. Fay concluded by appeal-important feature of our agricultural prosperity. ing to the gentlemen of the Legislature to furnish As to dogs, they were kept as numerously in Eufarmers such protection as would protect their rope, in sheep countries, as they were here; but interests, and, as he had endeavored to show, probably the greater safety of the "wooly people" those of the common country.

of the improvement made by sheep-grazing on ard coincided with the several speakers with relands that were not otherwise capable of being gard to the fertilizing qualities of sheep, and well treated, and recommended that farmers their value as stock, on poor lands. He then should give at least some attention to sheep-briefly alluded to the question of what kinds of keeping, if the dogs would let them. In fifteen sheep should be kept in the different sections of months he had sixty head nearly destroyed by the country. In the neighborhood of cities, dogs. He concurred in what had been said by where mutton was high priced, the kind easiest the president on this subject, and also regarded fed would of course be chosen; where the object the superiority of sheep-droppings over all other was to improve hilly pasture, the production of kinds of manure-even although they were fed wool would be an important consideration. The on the coarsest of hay. In answer to a question character of the soil, and circumstances, would put, Mr. Marsh said that in winter, sheep re- regulate choice; but, if he should give an opinquired more water, according to their bulk, than ion in the matter of sheep for mountainous disneat stock. A disease had appeared among his trict, he should speak in favor of the black-faced flock which had induced him to change them en-mountain sheep of Holland and Wales. tirely, and it had not since made its appearance, Mr. Howard continued to make some valuable and this step he would recommend. He said that practical observations on stall-feeding sheepemulation was rapidly inducing farmers in his urging, however, the importance of proper feedneighborhood to procure sheep; and if facilities ing, even although they were capable of being were favorable, their culture would be much more sustained on the coarsest kinds of food. He algeneral.

ty, said that he had experience of the value of in course of a rotation system of husbandry. sheep in improving land; and held them to be a Mr. WETHERELL made some very pointed reprofitable article to keep. From 12 sheep he marks on the great evils arising to sheep culture had in value in lambs, wool and premiums from dogs, and urged a determined effort to pro-\$116,80. He had received for a cross of the cure a law that would operate as a sufficient pro-South Down \$6 a head for three months' lambs, tection. Mr. W. referred to an instance within which he held to be a fair price. Dogs were a great his knowledge, wherein a few sheep had caused nuisance, and it was time that the Legislature a great improvement on a farm. should put about as much value on sheep as they Mr. MARSH also joined in the demand for a evil must be cured.

cure good wholesome laws, strictly and properly made imperative on all dog-keepers. executed.

next. His observations were confined to sheep which showed a large per centage over other ma-

sheep, only produced the paltry quantity of support one cow, whereas, five years after being

was owing to farmers keeping dogs whose nature Mr. Marsh, of Danvers, spoke experimentally was to protect, not to destroy sheep. Mr. How-

so spoke of the property sheep had of improving Mr. JOHN D. G. WILLIAMS, of Bristol coun- the grasses of meadows on which they were fed

did on dogs. One of his neighbors had lost his more stringent law against dogs; for it was nowhole flock, thirteen, in one night, and instances torious, that, when a dog once tasted the blood of were numerous of similar depredation. This a sheep, there was no limit to the extent of his depredations. It was of little use to hunt after The President here read a humorous account these depredators; the better way would be to of what the author called the Disease of Dogs, find means to prevent their existence, which a as it afflicted sheep-which recommended as a heavy tax would be most likely to do, were it

The President spoke of the fertilizing prop-Mr. John W. Proctor, of Danvers, spoke erties of sheep manure in the matter of grasses, as improvers of wild pasture land, and described nures. He also said that the profit of sheep, an experiment by Mr. Marsh, who had previously per annum, as represented to him by a compespoken, on land which, ten years ago, would not tent authority, was equivalent to the annual value of the flock, independently of the other advanta-there would be a similar meet. ges which had been specified.

Mr. WILLIAMS gave evidence much to the same effect; approved of raising sheep for lambs; held a cross of the native and South Down to be the best for this region; and said that the average price of lambs in Bristol county, in June, was about \$4. In the richer valley lands the price of lambs might reach \$5 per head.

The subject for next Monday evening's discussion is, "Fruit, and How to Raise it," when Hon. SIMON BROWN, of Concord, will preside.

[Note.—By an unfortunate transposition of the reporter, EXPERIMENTS IN FATTENING SWINE. the list of PEARs recommended by Col. WILDER at the meeting when the subject of "Fruit and Fruit Trees" was discussed, was not properly printed in last week's N. E. Farmer. The following is a correction:

of Winkfield, Buffum, Beurre d'Anjou and Lawrence.

For the best twelve, add-Rostiezer, Merriam, Doyenne Boussock, Belle Lucrative, Flemish Beauty and Onondago.

Best six on quince roots-Louise bonne de Jersey, Urbaniste, Duchess d'Angouleme, Vicar of Winkfield, Beurre d'Anjou and Glout Morceau.]

For the New England Farmer.

CHESHIRE COUNTY MASS MEETING.

Mr. EDITOR:-I attended another of the other good fellow to our party. Soon after six as above stated, 630 pounds. the President opened the meeting by appropriate remarks, and then Col. Read made one of his straight-forward, business-like speeches. Then killed Dec. 12th, and dressed off 250 pounds. It than were the people in some other States, and proof of the advantage of the fast-feeding of they wanted to discuss these subjects, and other young animals—and none probably doubt that matters of local importance, which they could the meat is sweeter through all its stages. not expect to find in papers of other States. I add the following, not as an example of rap-

Thursday, the 17th inst., and on the Friday, at Marlow, at which meetings Brown, editor of the New England Farmer, expected to be present and address the meetir J. REYNOLDS. Yours truly,

Concord, Feb. 7.

Remarks.—Our correspondent sent us a full and interesting account of this meeting, but it came ofter our paper was nearly made up, so that we have been obliged to sadly abridge it.

For the New England Farmer.

Mr. Editor:—I send you herein the result of a few experiments in pork-raising in our village. It is not pretended that there is anything very Best six pears on their own roots—Bartlett, Urbaniste, Vicar unusual in the cases mentioned. If it should appear, however, that frequent feeding and fullfeeding of spring pigs is the surest and readiest way to turn a penny in raising pork, I shall not be disappointed. Nothing, I apprehend, is more common or more unprofitable than to buy shoats in the fall, weighing in the neighborhood of one hundred pounds, and in a year to turn out three hundred and fifty pound hogs, and not much more.

Last June, Mr. Daniel Norton, Jr., of this Cheshire Co. Agricultural Meetings on Friday, town, purchased two spring pigs for \$4 each, said the 4th. The meeting was appointed at one to be of the Chester county breed. They were o'clock. Col. Read, of Swanzey, joined me at taken from the sow about the last of June, being Marlboro', where he had been waiting for the then two months old. They were slaughtered two haves the control of the chester county breed to be a control of the chester county breed to be a control of the chester county breed. train three hours. The colonel is a man of en- December 2nd, when one of them weighed 320, ergy, and has done his duty in this matter faith- the other 310 pounds. These pigs had the skim fully. At Keene we were joined by Samuel milk of one cow about three months, and of two WOODWARD, Esq, Editor of the Sentinel. We the remainder of the time. But they had as reached the hotel of mine host of the Walpole much Indian meal as they would cat. They were House, a little after 4 o'clock, where we found never fed less than three times a day, often four about fifteen or twenty of the citizens awaiting and sometimes five. Pigs recently from the our advent. The people assembled in the after-mother, may safely and profitably be fed frenoon, and organized for the evening by the quently. The digestive powers are most active choice of I. HOWLAND, Esq., as President, and in the young animal, as matter of theory even; in Mr. Stearns, Secretary, and adjourned to six practice it is found emphatically so; and if the o'clock. Just before the meeting, Mr. T. Breed, animal is fed always, the growth is never stunted editor of the New Hampshire Journal of Agriculation and the animal does about all it was made to do, ture, came in. He is an energetic, intelligent in a short time. These pigs were seven months man, full of life and animation, and added an- and four days old when butchered, and weighed,

your humble servant occupied the floor for was a cross of the Suffolk and Essex breed. about an hour, and was followed by Mr. Breed. This pig had the skim milk of one cow only, and He spoke with special reference to the importuelly and one-half bushels of meal. This was tance and advantage of sustaining an agricultu- his entire keeping, with the exception of from ral paper in New Hampshire, adapted to the two to three bushels of potatoes, in addition to wants and circumstances of their State. They slop from the house. Here was a gain of just were more engaged in stock and sheep raising about one and a quarter pounds a day: another

They should have a paper which was in some id growth, for it goes to show, like the cases becort common property, upon whose pages they fore cited, that the gain is less rapid as well as could meet. He did not wish them to drop the more expensive, as the animal advances in age; New England Farmer, or any other paper, but to take the Journal of Agriculture in addition. At experiment was conducted. It is really to be the close it was announced that in two weeks wished that all engaged in the fattening of swine or neat eattle, would keep accurate ac- we found the manure all on fire and put it out, counts for the benefit of others.

a shoat, in April last, I think on the 3d. then went with my hired man and dug down some weighing 120 pounds. The cost was \$10,20: two feet and found at the bottom a large bed of He was butchered Dec. 29th, and weighed 353 fire. Now the question is, is it probable or is it pounds; this was eight months and twenty-six possible, that the barn took fire from spontaneous days from the time when his live weight was 120 combustion? If so, my advice is for every one pounds, as before stated. Mr. P. fed out 24 bushels of Indian meal and one-half bushel of rye meal, which was his entire living, with the exception my opinion they will not do quite as well as tion of slops from the house, (no milk at all,) and when kept out in a good dry place. The entire cost of the animal and his keeping, or any number of swallows, and put them in the follows, viz:

Cost of the	shoat, A	April 3	\$10,5	20
One bushe	l meal b	ought sam	e day	34
One bushe	l meal			90
May 6.				
May 15,				
May 21,				
June 2,	do	do.		
June 9.				
June 17,				
June 25, 6 bushels, at 90c				
Aug. 4, On	ie masnei			20
4				
	ne-half b	bush. rye r	neal, given in small quan-	
tities,	ne-half b mixed v	bush. rye i vith India:	neal, given in small quan-	
tities,	ne-half b mixed v	bush. rye i vith India:	meal, given in small quan- neal	10
tities,	ne-half b mixed v ne bushe	bush. rye i sith India: d Indian n	meal, given in small quan- neal	10
tities, Aug. 14, o	ne-half b mixed v ne bushe do.	bush. rye i vith Indian do.	neal, given in small quan- neal	10 9 6
tities, Aug. 14, o Aug. 25, Sept. 17,	ne-half t mixed v ne bushe do. do.	bush, rye r vith Indian el Indian n do. do.	neal, given in small quan- neal	10 06 (6
tities, Aug. 14, o Aug. 25,	me-half t mixed v ne bushe do. do. do.	bush. rye i vith Indian el Indian n do. do. do.	neal, given in small quan- n	10 06 (6
tities, Aug. 14, o Aug. 25, Sept 17, Sept 30, Oct. 11,	me-half t mixed v ne bushe do. do. do.	bush. rye i with Indian el Indian n do. do. do. do.	neal, given in small quan- neal. 1, 1, 1,	10 06 (6 06
tities, Aug. 14, o Aug. 25, Sept 17, Sept 30, Oct. 11, Oct. 23,	me-half l mixed v ne bushe do. do. do. do.	bush. rye i vith Indian do. do. do. do. do. do.	neal, given in small quan- neal l, 1 l, 1 l,	10 06 06 06
tities, Aug. 14, o Aug. 25, Sept. 17, Sept. 30, Oct. 11, Oct. 23, Nov. 6,	me-half l mixed v ne bushe do. do. do. do. do.	bush. rye i vith Indian el Indian n do. do. do. do. do. do.	neal, given in small quan- neal. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	10 06 06 06 06
tities, Aug. 14, o Aug. 25, Sept. 17, Sept. 30, Oct. 11, Oct. 23, Nov. 6, Nov. 8,	me-half i mixed v ne bushe do. do. do. do. do. do.	bush. rye i vith Indian el Indian n do. do. do. do. do. do. do.	neal, given in small quan- neal 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10 06 06 06 06 00
tities, Aug. 14, o Aug. 25, Sept. 17, Sept. 30, Oct. 11, Oct. 23, Nov. 6, Nov. 8,	me-half i mixed v ne bushe do. do. do. do. do. do.	bush. rye i vith Indian el Indian n do. do. do. do. do. do. do.	neal, given in small quan- neal. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	10 06 06 06 06 00

The meal was purchased as often as wanted, and the date of the purchase of each bushel shows pretty nearly the amount in the different stages of the animal's growth.

Mr. P., as the result of his carefully conducted experiment, knows that his pork has cost him just about ten cents per pound, not reekoning anything for time spent in feeding—or rather, perhaps, offsetting this against the manure, which should certainly be done.

Essex, Dec. 21, 1859. DAVID CHOATE.

Remarks.—We are greatly obliged to Mr. are always valuable.

For the New England Farmer SPONTANEOUS COMBUSTION IN MANURE.

inform me on a few things? The last of October days of poor sleighing. This was nearly all the all the leaves, old shoes, boots, &c., that we have, not even on the most elevated points of Hampand cover them up in the manure. After the fire den and Hampshire counties.

as we supposed; the second day we found it on Mr. Samuel Proctor purchased from a drover fire again; the third day it was still burning. I

a few potatoes, not exceeding three bushels in all. One more question:-Can any man take one (not reckoning the potatoes,) and allowing for mud, a hollow tree or log, or in a sand-bank, or the butchering, was \$34,73, and is made up as in any other condition whatever, and keep them follows, viz:

Alive through the winter? My opinion is that it can't be done without food.

> REMARKS.—We do not think the barn took fire by spontaneous combustion, under the circumstances mentioned.

> > For the New England Farmer.

THE WEATHER OF 1858.

FROM MY WEATHER JOURNAL

The most noticeable feature of the weather of 1858, was the remarkable mildness of the winter season. During a large portion of January, at least two-thirds of the month, the ground was entirely bare in this part of the Connecticut valley, and for seventeen days in succession no snow fell. Towards the close of the month of January, the frost left the ground, the roads generally became settled, and the ponds were free from ice. Farmers might have plowed, and to my knowledge, did plow, without difficulty from frost, there being four days, commencing with the 25th, in which the temperature ranged from four to eighteen degrees above the freezing point. Violets in blossom in the gardens, fully exposed to the weather, were not uncommon; and other plants were reported in flower by the newspapers, including the strawberry; but the violets I saw myself in full, bright bloom.

The first ten days of February were as mild as any consecutive ten in January, the temperature sometimes rising to 50° in the shade, in the open Choate for the above; such precise statements air; and the remainder of the month, though eonsiderably colder, deserves to rank only as

quite mild winter weather.

The first two weeks of March were more winter-like than the same length of time in either of the preceding winter months, producing a temperature of 12° below zero— 6° lower than any in Will you or some of your readers of the Farmer the winter months-and about a week or ten my large and nearly new barn and sheds, with all sleighing of the season, and the greatest depth their contents, were consumed by fire. We have of snow on the ground at one time was not more and do now think it was the work of an incendiary. than five inches. In short, the weather of March There was a cellar to said barn; fifteen feet on was about as ordinarily for this month, and be-the west side was partitioned off by a stone wall, fore the close of the month the frost generally which made a pit for manure, fifteen by forty left the ground. During the last days of the feet, and every year till the last I kept hogs and month, farmers began to plow, and only now and let them run under my stable in the cellar. I then a mud hole could be found in the roads. No have used common brakes for bedding, (as they snow fell here after the 20th of the month, grow among us plentifully;) we put into the pit and at the end of the month none could be seen,

ture of the month.

ings of May, and at its close had brought vegedevelopment at this season. The month was No man should be above his business, and that rather too dry, but otherwise exceedingly fine business which emits the strongest stink is likely was extreme. Thermometer in this vicinity ranged end. from 90° to near 100°, in the shade. At the West, and paticularly along the valley of the Mississippi, the month will be long remembered on account of its disastrous freshets.

July was mild in respect to heat, and although there was a scanty supply of rain, growing crops suffered but little in lack of it.

northeast wind, equal to one day in three throughout the month.

September and October were golden months; and, besides bringing in an abundant barvest, tion, a question arose as to the duties of the brought a remarkably large share of sunshine standing committee. Will you inform us, through and clear weather. Indeed, I think that it is a the Farmer, whether the secretary should re-rare occurrence to have two as fine months in port the substance of the discussion, or whether succession, as were September and October of that duty belongs to the standing committees, 1858.

November was cold, cloudy, and gloomy, with much wind; and squalls, snow flurries and severe frosts were noticeable and characteristic features of the month.

December was a moderately cold winter month, not alter the general character of the winter. An of the annals of the town. absence of snow was also noticeable in this month, only about four inches falling in all. The greatest fall at one time was between two and three inches; consequently there was comparatively no sleighing during the month.

Jan. 4, 1859. J. A. ALLEN.

the "Journal of a Farmer's Boy," who has always worked on the farm, and enjoyed no special advantages whatever. It is succinct and exwriters.

For the New England Farmer.

PRESERVATION OF MANURES.

nis neighbors who were regarded as good farm-churned into butter in less than fifteen minutes. ers, used to keep the droppings of their eattle as thrown out of the barn windows, where the rain fell upon them from the caves, and worked and soaked them so completely as to remove

April continued mild, even more than usually mingled with muck gathered from meadows and warm, and marked by no very severe changes, swamps, and worked over by swine. In this way At the close of the month the buds on the trees the quantity of manure is increased three-fold, were very forward in their incipient stages of de- and although it smells a little when handled, this velopment; but May was cold and advanced the smell soon ceases to be oppressive, because it is season but little from where April left it. Apple believed to be a valuable ingredient of the matrees were not in full bloom till the 25th, and nure. I think it is called in my children's schoolvegetation in general was proportionally back-books, ammonia; but whatever it may be, I think ward. Cloudy weather was the predominant fea-the manure none the worse for it. Whoever by the farm would thrive, must not be afraid of soil-June strove hard to make amends for the failing his hands or his trousers. I should just as ugs of May, and at its close had brought vegesoon think of meeting a sweet-scented currier tation up to rather more than its usual stage of who worked daily in his shop, as a clean farmer. for the farmer, though towards its close the heat to produce the cleanest chink of dollars in the AN OLD SCHOOL FARMER.

January 22, 1859.

EXTRACTS AND REPLIES.

FARMERS' CLUBS.

In accordance with a suggestion in the Farmer of Dec. 11th, a few friends of agriculture met and August was cool, with a large proportion of organized a farmers' club in Calais. The constitution published in your paper was adopted with slight amendments.

> The organization being a new one in this secand oblige a subscriber.

Calais, Me., Jan., 1859.

REMARKS.—The most difficult post of duty in the Farmers' Club is that of Secretary, as he ought to be a pretty good reporter. The discusbut in connection with the other two winter sions and essays should be reported and entered months of this year, January and February, does in a substantial record book, and become a part

MAKING BUTTER IN WINTER.

Having noticed an article by a subscriber under date Jan. 11, 1859, in regard to making winter butter, I would say in reply, that the reason why butter does not come quick in winter, is REMARKS .- The above is a literal extract from that the milk is set in a cold place where it attains to nearly or quite a freezing point. To remedy this, the only way that I know of is to take the eream when it is found it will not come, and seald it, and set it away till cool, when it will pressive, and is pretty good evidence that he be found that the cream part of it will rise, which will soon become one of our best agricultural skim off and churn in the usual way, and you will find no difficulty in fetching your butter.

Middlebury, Vt., Jan., 1859.

REMARKS .- If milk can be set where the temperature is 55° to 60° the cream will rise readi-When I was a boy, my father and several of it, and if kept in that temperature, may be

AYRSHIRE STOCK.

I listened attentively to the recent discussion nearly all the stink. But a different practice has at the State House, of the question, "What breed grown up on these farms within the last twenty of animals is best adapted to general farming years; and nearly all of these owners let these purposes in New England?" And although I droppings fall into celtars, where they are inter-was strongly inclined to the belief that the advocates of the Ayrshire had the strongest side of the argument, I am clearly of the opinion that it was not expedient to pass any vote to this effect, as was proposed. I was therefore gratified when this proposition was laid upon the table. think that the best hopes of stock are to be found in the association of first class, pure-blood-ed Ayrshire males, with the best Yankee females. The primary object of keeping stock being for the milk they give, I think the prospect ure and profit to make some rural rambles with for quantity and quality is from Yankee cows. I use this term as expressing my views more clearly than any other. I was somewhat astonished that so little was said in favor of the milking qualities of the Devons. I had supposed that the venerable farmer of Framingham had sounded his trumpet so often and so loud, that the reverberation of the sound thereof would not cease while he lived. So true is it, that "the fashion of this world passeth away, and the memory thereof shall be no more forever." Jan. 25, 1859.

Remarks.—The above was not received until several days after its date, or it would have been material for this under-garment may be in sumgiven in our last.

HAMPDEN COUNTY AGRICULTURAL SOCIETY.

On looking at the constitution of this society, (p. 113,) it appears that five of the officers constitute a quorum for the transaction of business, There is still existing a pernicious practice of to wit: President, Vice President, Treasurer, Secretary and a Director, all of whom can be for walking out, all boots should have soles of found in the city of Springfield—so that although tolerable thickness; in damp weather, the soles it is a county society, having officers in every should be very thick, or overshoes of some destown, it can be governed and controlled by a cription should be worn with them. The founsingle town. This strikes me as a singular and dation of many a consumption has been laid by questionable provision. It becomes the more a young lady walking or standing in the damp, worthy of notice, as there seems to be a disposi- with her feet ill-protected by mere gauze-like tion to make this society the controlling centre stockings and thin summer boots or shoes. Even of a State Society. I admire the energy and in the house, this important part of a lady's dress efficiency of a concentrated government; but do appointments is by no means, as a general fact, not believe the yeomanry of Massachusetts are sufficiently attended to. In cold weather, thinready to go for it, to this extent, be it never so soled slippers are not at all a sufficient protec-good. My views are republican, and I do not tion for the feet in walking on uncarpeted pas-like aristocracy in any form—and least of all, in sages; and the "unaccountable" colds that so ofthe government of farmers. Feb. 1, 1859.

Nov. 12, 1857, she dropped a seven months' calf; her milk came, and the did as well as ever. When seven months in calf again, she did not Republican. appear well for several days, and I thought she would do as she did the year previous, but she did not-she got better, and was hearty and well to all appearance. It is now some days past the time for her to calve, and there is nothing that any way indicates it. She discharges large quantities of matter but still appears in good health. What can be done for her?

WHAT AILS MY COW?

Constant Reader. West Roxbury, Jan., 1859.

Remarks.—We have not the skill to recommend anything but a warm and convenient stable, plenty of nourishing food and kind treatment, all of which she probably has now. Perhaps some of our friends can.

A CORDIAL INVITATION.

If you should make New Jersey in the way of some of your agricultural tours, I should be most happy to receive a visit. I think I can show you some good farms as well as farmers (to say noth-I. W. Black. ing about the bad.)

Sykesville, N. J., Jan., 1859.

REMARKS .- It certainly would give us pleasyou through a portion of your State, and we shall bear you kind invitation in remembrance.

LADIES' DEPARTMENT.

LADIES' WEARING APPAREL.

Flannel is the proper clothing for the skin, preserving the natural heat of the body from being a non-conductor, in winter, and protecting the skin from the danger of a chill after perspiration in summer. However fine and thin the mer, still it should be woollen—in colder weather to be exchanged for one of a thicker and warmer quality. Beyond this, there should also be a sufficiency of upper garments proportioned to the season; it is not desirable that, even in winter, they should be heavy, but always warm. wearing thin-soled boots and shoes. If intended ten attack ladies in winter are often attributable to this cause. The covering for the head should be light, cool, and open, to admit the air. Close night-caps are an evil, and have long been discarded by persons of sense; but if ladies are disposed to wear them to keep the hair tidy, they should be loose and transparent.—Springfield

To CLEAN GLOVES .- Lay them on a clean board, and first rub the surface gently with a clean sponge and some camphene, or a mixture of camphene and alcohol. Now dip each glove into a cup containing the camphene, lift it out, squeeze it in the hand, and again rub it gently with the sponge, to take out all the wrinkles. After this gather up the cuff in the hand, and blow into it to puff out the fingers, when it may be hung up with a thread to dry. This operation should not be conducted near a fire, owing to the inflammable nature of the camphene vapor. The receipts given in all the books we have consulted for cleaning gloves are barbarous. Scientific American.



DEVOTED TO AGRICULTURE AND ITS KINDRED ARTS AND SCIENCES.

 ${
m VOL.~XI.}$

BOSTON, APRIL, 1859.

NO.

JOEL NOURSE, PROPRIETOR. OFFICE ... 34 MERCHANTS ROW.

SIMON BROWN, EDITOR.

FRED'K HOLBROOK, HENRY F. FRENCH, EDITORS.

CALENDAR FOR APRIL.

'Tis the glorious Spring, as she passes along, With her eye of light and her lip of song, While she steals in peace o'er the green earth's breast; While the streams spring out from their icy rest, The buds bend low to the breezes' sigh, And their breath goes forth to the scented sky; Where the fields look fresh in their sweet repose, And the young dews sleep on the new-horn rose.

> PRIL ushers in the round of Months in which the farmer finds the duties of his occupation the most pressing. -The ice and snow has mainly disappeared, cold winds are tempered by blowing in to us from milder regions, and the earth, warmed and softened by longer visits from the sun, unlocks itself and grows light, and porous and genial, inviting the husbandman to scatter his seed in generous hope, and wait in the same spirit for the fruition of the Harvest,-cultivating in the meantime with diligent and assid-

In sunny and sheltered places, the earth assumes her wonted green, and fresh flowers unfold themselves, look out into the peaceful glen varying seasons, and makes a capital application where they were born, bathe in the warm rays of the sun, and shed their rich fragrance all around the place of their nativity. And though of many birds call for resurrection over the graves all alone, they bud and bloom, and exhale their sweet odors, and perform all their duty, just as they have lost. What have ice and snow, and precisely as though cultivated and tended with storm done unto them? How did they fall into unremitting care, in a well designed and expen- the earth, stripped and bare? How do they come sive garden.

As the sun takes a broader sweep over the ful a thing to be in the grave? earth, its rays penetrate the soil, impart unusual | "In its wild career, shaking and scourged of

warmth and cause free evaporation; the cold surface water is thus taken up and scattered abroad, returning in gentle rains filled with the elements of fertility which they have sifted from the atmosphere, and which now find their way down the light and porous soil to supply the roots of plants which are about ready to commence their new work for the year. Vegetable life is reanimated, and shows returning signs of vigor and activity everywhere. The buds are swollen, and the tree tops thickened up long before leaves or blossoms have shown themselves.

And so it is in the animal kingdom. The birds, our last summer friends, begin to return; the Warbling Sparrow began his cheerful songs in March, singing all through the middle of the day in the piles of brush, and gathering its insect food from the rough bark of the wood. The Blue Jay screams from the tall elm, while the Crow, poised on the topmost shoot of a hundred foot pine, calls to his fellows in the distant wood, to come and partake with him of a breakfast which he has just discovered. The Bluebird, every morning, looks into the boxes in the garden, and seems to take into grave consideration the expediency of domiciliating herself another summer in the old quarters,—while the Robin flits from tree to tree, lifting a straw from this old nest and a twig from that, and then pouncing upon some hapless worm that shows its head above the surface for a moment's sun.

Mr. Beecher has been a close observer of the of what he has seen. He says :-

"APRIL! The singing month. Many voices of flowers, and they come forth. Go, see what forth opening and glorified? Is it, then, so fear-

storms through its orbit, the earth has scattered charms and real advantages than cities can posaway no treasures. The Hand that governs in sibly confer. APRIL governed in January. You have not lost of flowers to their roots, yet be patient. Thou charms which every returning spring unfolds. shalt lift up thy leaf colored boughs again. Thou shalt shoot forth from thy roots new flowers. So be patient. Wait. When it is February, APRIL is not far off. Secretly the plants love each other."

APRIL is, in a great degree, the Month of preparation. Plans not entered upon and started now, will rarely come to maturity. All the work of the planting season should be mapped out and kept constantly in view, for working by a plan is as important to the farmer as to the man who is to build your house. The work may be done without a plan, but the uncertainties, changes and alterations incident to such a course, are anything but comfortable and economical. As a general rule the farmer has not been accustomed to anything like a rigid plan, and it may at first seem an irksome and unnecessary restraint to have one; but when he enters upon his field. and finds at a glance just how much land he wishes to plow, how deep, and there is no delay as to whether he shall back furrow or go round it; or, if he is to underdrain a piece, and he knows just where to strike when the workmen enter the field, he will realize a satisfaction that he could not without a plan, and his work wilt go on more systematically and profitably.

Give the Garden especial attention in April. Some one has said that the yarden is an index of the mind, and we think has said correctly, "that if you desire to judge of the character of a man's mind, go into his garden. Solomon con- the family. sidered a slovenly vineyard or garden good evidence of a slovenly mind, or a mind void of un- of Flower Seeds, and allow the children to pluck derstanding. Depend upon it, when you see a man's fields and gardens laid out with good order, and taste, and notice the neatness of their cultivation, that man's mind is like a well arranged library. A man's plans will appear in his operations. His theory may be judged by his practice."

But the farmer eannot afford to be without a garden; he should draw large supplies from such a source for his table, especially during the summer and autumnal months. Fresh vegetables. seasoned with the corn-fed pork from his barrel, and delicious fruits, of varied kinds, with sweet cream from the dairy-room, are some of the compensations to the farmer for his isolated condition,-and then green fields, cerulean skies, babbling broks, singing birds, lowing herds and stantly receiving letters requesting us to give inflourishing gardens, surround him with more formation upon business matters, by letter

But we cannot dwell longer on the attractions what God has only hidden. You lose nothing of Spring. It calls to us from every side-from in struggle, in trial, in bitter distress. If called soft airs, opening buds and expanding flowersto shed thy joys as trees their leaves; if the af-from the springing vegetation, the new life of fection be driven back into the heart, as the life animals, returning birds, and the new mental

> I come! I come! Ye have called me long, I come o'er the mountains with light and song! Ye may trace my step o'er the wakening earth, By the winds which tell of the violet's birth, By the primrose stars in the shadowy grass, By the green leaves opening as I pass.

Mrs. Hemans.

SUGGESTIONS FOR APRIL.

Put Fences in order.

Head in Peach trees.

See that all your *Drains* are clear.

Do not ruin your trees by pruning them this month. Wait till the middle of June.

Put the Door-Yard in perfect order.

Get the small grains in early—but do not plow until the soil is ready for it; better that the grain should be a little late.

Transplant fruit trees as soon as the frost is out and the ground is warm and mellow. One dozen good trees, well set and well tended, will yield more profit within twenty years, than one hundred trees badly set and indifferently tended.

Set an Asparagus bed by all means.

Do not let the cattle run upon the mowing lands in the spring.

In some sheltered and convenient spot, have a good Kitchen Garden, where you can go for all sorts of vegetables, and some of the small fruits, nothing will be more economical, and few things will add more to the comfort and happiness of

In a selected place in this garden sow a variety the flowers to carry to school, or to look at as they go to church Sunday morning. Set them in a dish or glass filled with cold water, and see how pleasant they will make the sitting-room in a hot afternoon! Or place them on a stand in the sick chamber, to interest and refresh the sufferer.

Purchase a short-toothed rake to use in the garden, and you will soon see how easy it is to prepare a bed for the smallest seeds when you have the right implement in your hands.

Finally, whenever the soil is ready for you, be ready to strike the blow that is needed, and have every thing done decently and in order.

INFORMATION BY LETTER.—We are con-

the reader will but reflect a moment, he will see weak growing, but good grape, or a tender grape, how impossible it is for us to answer business which you cannot succeed with upon its own root. letters from a circle of friends so extended as is In such cases, you can sometimes succeed by that of the Farmer. We have two or three such before us now, and have every disposition to reply to them, but it would require some hours to collect the information which they require.

For the New England Farmer.

GRAFTING THE GRAPE VINE.

Mr. Editor:—Dear Sir—I noticed a communication in the Farmer signed "L-–, Bangor," inquiring the best mode of grafting the grape vine; and as I have not noticed any reply to it, I venture to state my experience, although if your correspondent be, as I suppose him to be, Col. HENRY LITTLE, of Bangor, one of the best horticulturists in New England, I might well be doubtful of my ability to give him anything new on the subject.

I have grafted the grape in the usual mode of cleft grafting, and by boring holes in the stock into which the scions were fitted, and succeeded with both modes—with occasional failures—if the grafting was done at the proper season. This is, perhaps, the most important consideration, for if the scious are set too early, the great rush of sap will drown the scions, so that canker and decay ensues. To avoid this, wait until the vine to be grafted has pushed its first leaves to the size of a dime, or a little more, when the sap will be inspissated enough to form granulation essential to the union of stock and graft. To keep the graft from pushing its buds, bury it in the ground in a cool northern exposure, for if the graft begins to grow before it is put into the stock, it is pretty sure to fail.

I have found the best mode of preparing the stock to be as follows; clear away the earth from the stem of the vine, and with a sharp knife make a sloping cut, as in splice grafting. split the stock across the cut about one-third of the distance from the top; pare the seion as in apple grafting—but not too thin—and place it in the stock, so that the bark of both stock and scion correspond; cover with a good body of grafting clay, pressed close to the wood, and press the earth carefully but firmly around, leaving but one eye of the scion above the soil. It will still further ensure success if the scion is split, and one part inserted into the stock, while the other part is carried down over the scarped stock to the bark at the bottom; there should always be a bud at the base of the scion on the outside. This mode is much practiced in cherry grafting, and is probably familiar to your correspondent. Scions may be cut at any time before the sap beeyes or buds, and if possible, a little of the two years' wood at the base of the cutting. I consider this necessary to success.

take up the vine to be grafted and plant again tion to rural affairs. after grafting. If this is done, you may graft as soon as you can get your vines out of ground, and not one in a hundred will fail.

graft the vine, unless you wish to cultivate a operations.

grafting on hardy and vigorous vines, but the old root is apt to throw up suckers, and, if you do not happen to observe them, they will rob the graft of its nourishment, and before you are aware of it, it dies, and you have got only your old vine again.

I entertain the belief, but have made no experiments to demonstrate it, that the stock of a vine which ripens its fruit early will quicken the ripening of a later kind grafted upon it. If this be true, it would be a resource in cold latitudes where fine grapes cannot be grown, and would repay almost any trouble in grafting.

I have only to add that if what I have written above should be of any service to your correspondent, it will give much pleasure to

Yours truly, E. W. Bull. Concord, Mass., March, 1859.

For the New England Farmer.

PRESERVATION OF MANURES.

When I was a boy, my father and several of his neighbors, who were regarded as good farmers, used to keep the droppings of their cattle as thrown out of the barn windows, where the rain fell upon them from the eaves, and worked and soaked them so completely as to remove nearly all the stink. But a different practice has grown up on these farms within the last twenty years; and nearly all of these owners let these droppings fall into cellars, where they are intermingled with muck gathered from meadows and swamps, and worked over by swine. In this way the quantity of manure is increased three-fold, and although it smells a little when handled, this smell soon ceases to be oppressive, because it is believed to be a valuable ingredient of the manure. I think it is called in my children's schoolbooks, ammonia; but whatever it may be, I think the manure none the worse for it. Whoever v the farm would thrive, must not be afraid of so ... ing his hands or his trousers. I should just s soon think of meeting a sweet-scented curri r who worked daily in his shop, as a clean farmer. No man should be above his business, and that business which emits the strongest stink is likely to produce the eleanest chink of dollars in the AN OLD SCHOOL FARMER.

FARM AGENCY.—The Hon. B. V. FRENCH has opened an office at 51 and 52 North Market Street, Boston, for the purchase and sale of Farms and Farm Stock, either of Milch Cows, Grade or gins to flow-they should have three or four Pure Blood Durhams, Devons, Herefords, Ayrshires, or Jerseys. Oxen, Sheep, Swine, Agricultural Implements, Seeds, and all that is required I have found it best, when it is practicable, to to equip a farm or garden, or anything in rela-

Mr. French has had the most ample experience in these matters, and our friends may find After all, I do not consider it profitable to it to their advantage to secure his aid in their For the New England Farmer.

THE EDUCATION OF FARMERS---COUN-TY SOCIETIES ... FARMERS' CLUBS.

MY DEAR SIR:—I am much gratified with the remarks made at the second Legislative Agricultural Meeting, held on the evening of 17th inst. inasmuch as it appears to me that the second reand in this way the rewards and credits are, to a great extent, limited to a comparatively circumscribed area of territory, since the bounty of the State is scattered over a small territory. And and proper the way at least for a higher standard property of the root of agricultural improvement, yet we don't know that any one is to blame in the ard of agricultural education, which has received matter, further than that a bad management was made in the outset of the matter.

Now will not the people at large be more benefited if these annual fairs are made emigratory, travelling from the centre to remote parts of counties? and thus, instead of letting A, B and C bear off the prizes and honors, place them, october observation and more profound research, and with suitable books at hand, earn-counties? and thus, instead of letting A, B and tents. The whole public, as well as the individual mind, would be brought into vigorous action.

in the State are connected with the agricultural the pure air and ever-varying scenery of pastoral societies? Probably not one in ten, and each of professions. Agriculture as a profession ave. these has no doubt some good reason for non-professions. membership. Inconvenience of locality may be one begin to arise in its native dignity, and soon fairness is used in distributing prizes. The former objection is, no doubt, a serious one. The latter should be met and extended one. The latter should be met and extended one. latter should be met and controlled. Committees position among the sciences of life. should be selected with great care, and then they are very liable to be deceived. But they or the society should watch carefully, in order that no deception is practised, and then, they cannot always detect it. We have heard of a pair of worsted stockings, a piece of diaper, another of flannel, being stereotyped articles for competition, and successful, too, as report said. Perhaps they were entered in the names of different individuals in different years; but would that alter the merits of the article? Now the society has a right to make a by-law allowing them to put a mark on such articles to make them known, if offered a second time, and the individual who offers them should be forever debarred from further competition.

But we have wandered from the main point that is, that the bounty of the State, as it is applied to our agricultural societies, does not equal-

ral population. How shall the want be supplied? We have always been a warm advocate of clubs or town associations. We have known them to exist where they have been magic in their influence, extending it from the valley to the top of the mountains. This is what we like, and would we could see such associations in every town. Now cannot the State, in her acknowledged musolve, introduced in that meeting, if it should be nificence, do something to effect this? A few has accomplished towards the advancement of years ago, she gave, on proper conditions a Webterraculture in our Commonwealth. In saying district in the State—a noble munificence, whose this, however, I will in no way censure or con-benefits reach all. Suppose she make one more demn any previous move in the matter. Our offer to the people—from the people's money; agricultural societies have accomplished much, introducing better animals and better systems of monwealth that will establish and maintain an introducing better animals and better systems of cultivation. But have their good influences been as general as the necessities of farmers require? In many of our counties, from being in fixed localities, they have been inconvenient of access to those residing in remote parts. There are, no annually to the Secretary of the Board of Agrinually the Board of Agrinually the B those residing in remote parts. There are, no doubt, many first-class farmers in the State who are deterred from exhibiting the objects of their successful culture from this cause. In the present arrangement, this evil cannot be obviated. Those living in the vicinity of fair grounds can well afford to take in their animals and products, and in this way the rewards and credits are, to a long plants.

Why would not such an arrangement come diand prepare the way, at least, for a higher standso much commendation for the last dozen years? The meetings and discussions would lead to deeper thought, closer observation and more profound casionally where they shall have the journeying to perform to find competitors in D, E and F. This would awaken a more general competition. This would awaken a more general competition. ual mind, would be brought into vigorous action. Again, how large a proportion of the farmers the pure air and ever-varying scenery of pastoral Agriculture, as a profession, aye, and one of the learned professions, too, would

We have no wish to detract from the merits or usefulness of any of our agricultural societies. But they have been the recipients of State bounty for a long time; so long that it seems as though they are old enough to stand and go alone. Cannot, then, a portion of the funds they are now receiving be appropriated to this new and general object, without seriously injuring their usefulness? Suppose the number of societies that receive funds from the State were reduced to one for each county, and this made migratory to the principal towns, and the amount now given to extra societies were divided on the proposed plan among towns? Would not the whole people be much more benefited than they now are? Or, if it is thought sacrilegious to cut off any of these societies, suppose the funds to each were reduced one-half, and the other half appropriated in the way suggested would not this put the liberality of the State in a more ry reach the merits or demands of the agricultu- philanthropic and appreciable condition? Answer, ye wise men, who are the people's legislators, and for once try the experiment, and see if you do not return to your homes in a full consciousness of a duty nobly performed, and meet your constituents with countenances radiant with joy, uttering from the heart the pure salutation, "well done, ye good and true men."

Richmond, Jan. 24, 1859. W. BACON.

Remarks. — Capital suggestions — we hope they will be put in practice. Town societies should meet for discussion as often as once a week, from the first of November to the first of April, five months. The association should be as thoroughly organized as is the legislature of the State, and all its business conducted with gravity and decorum. We feel quite confident that premium paying has done about all the good it is capable of accomplishing for the present.

STARCH---SUGAR---POTATO.

ticle is found in the seeds of all plants,—or rathconverted into sugar by the process of germination, and serves for the nourishment of the young plant.

Starch and sugar are composed of the same elements and in nearly the same proportion,starch having an additional quantity of carbon. land, and three succeeding crops of corn and starch is evolved, and it becomes sugar. This is of barley. The skin or lower part of flowers, alfor the nourishment of the seeds.

Starch is very abundant in the potato; the tubers of this plant being in large part composed of it. The practice of nipping off the flower buds of potatoes has been frequently adopted by garstarch, and by thus preventing the exhaustion of ing? the store of this ingredient, it will be accumulated in other parts, and principally deposited in the tuber, the growth of which will be increased proportionally.

The amount of starch increases regularly with the growth of the plant, and is in greatest abundance at its maturity. It remains about the same till the period when the seeds are beginning to 10 lbs.

From November to March, inclusive, the starch remains unchanged; and as it is the germination or change into sugar, by keeping in a moist place, that renders seeds unfit for planting, it would seem that the most proper time for spring planting of potatoes should be early in April. As at the time of sprouting of the tubers the starch becomes changed into sugar, it may be supposed that at that time of the year, that is, in May, they might be profitably used for the manufacture of sugar. We know not that any experiments have been made for that purpose.

For the New England Farmer.

ARE TURNIPS A PROFITABLE CROP?

MR. EDITOR:-Various opinions seem to prevail in relation to the turnip crop, and as I have read them from time to time, I am at last tempted to say a few words upon the subject of raising turnips. I have raised, of the various kinds The embryo of plants receives its nourishment of turnips, for forty-five years. I raise them now, from the sugar contained in the seeds. This ar- where and when nothing else can be raised. I do not lay out a spot or patch of land for turnips er exists in them in the form of starch, and is where I can raise corn, for I do not believe they pay; or in other words, I do not believe them a profitable crop. I have never been able to get a good crop of anything after a crop of ruta bagas, and I should like to add to the many questions already put to "W. F. P.," by Mr. Emerson, whether he can show from experience or observation, that a crop of ruta bagas, on, say one acre of By the application of heat and moisture by which grass, is worth more than a four years crop-of oxygen is absorbed, some of this element of corn, first, and three years of barley and grass? I do not care to confine him to the crops named which are to succeed the first year. But set acre the process in germination, and in the malting by the side of acre; set down the expenses of labor and of manure, and show how much is gained so contains starch, which is changed into sugar by raising ruta bagas. I have raised five hundred bushels of Swedish turnips upon one-half acre, and that was an unprofitable crop to me, when compared with seventy-five bushels of corn to the acre by the side of it. The labor of feeding, any one can settle. I think there are great mistakes made in the estimations of the value of turnips deners, which they considered had a tendency to in this part of the country. I admit, however, increase the product. The effect of this practice that when raised they are good feed for stock. The question I would like answered, is, when is to check the demand of the growing flower for compared with other crops, are they worth rais-OTIS BRIGHAM.

Westboro', Jan. 27, 1859.

Drugging Animals.—Continual dosing animals is just as useless and injurious to them, as is the constant swallowing of drugs and poisonous compounds to the human system. It is all folly to allow your stables to become hospitals, and to smell and appear like an apothecary's shop. It is much more humane to shoot a horse, germinate, or the young parts of the plant to or knock an animal on the head at once, than to grow, and is then converted into sugar. It has force down its throat doses of drugs whose qualbeen found that 100 parts of potatoes contained ity of action you know little about, having the effect to create disease when it did not exist, in August, 10 lbs.; September, 14½ lbs.; Novemand prolong suffering much beyond the time in ber, 17 lbs.; March, 17 lbs.; April, 133 lbs.; May, which nature would herself effect a cure.—American Stock Journal.

For the New England Farmer.

AN AUTUMN LEAF.

[I was not intended by the writer of the following touching, truthful and expressive lines, that his name should appear with them. But we cannot consent to any separation. His little introductory note shows how the verses were born, and how they came to meet your eye. We envy the happiness of the person possessed of such a sense of the bountiful and beautiful works of the Creator, and such a power of clothing them with poetic language and feeling. Mr. CANNING is a true poet. His thoughts are not summoned for the occasion, but the occasion itself opens clearly before him, and presents its often minute, but wonderful accompaniments, which fill with tenderness and love, his glowing verses. His descriptions will inspire every one who has husked out corn in the open air, in a balmy autumnal day.]

Gov. Brown,-My Dear Sir :- I took from my vest pocket todov. Brown, My Dear Mr.—I fook from my vest pocket to-day a bit of paper with the following lines pencilled thereon. They occurred to me while husking corn out-of-doors, on one of the glorious "latter doys," last autumn. Thinking they may touch an answering chord in the minds of some of your readers, I take the liberty lo write them out for the Farmer

Yours a-field,

Gill, Ms., January, 1859.

AN AUTUMNAL LEAF

BY THE "PEASANT BARD,"

How beautiful the picture is that nature spreads to day! For autumn clothes her second-born in fancitul array; And through the hazy lift the sun a softened splendor sends, That wraps the scene in quietude,-a sweet enchantment lends.

How like to elves in elfin land you troop of children go, Turning the hill-side leaves to find the bright brown nut below! And every treasure brings a shout, and brings all there to see, Just as the gust scuds, eddying round, the honors of the tree.

The jay, that in the summer days was scarcely seen at all, Flits frequent through the pictured bush, and startles with its call,

And seems to warn its feathered mates, with quick and earnest cries,

Beware of Winter's biting hreath, and bitter brumal skies!

The squirrel on the mossy log, within the hollow wood, Clucks loud to tell that he's secured a store of winter food; His kinsman, clad in "hoddin gray," the hunter fain would see, With tiny claws goes scratching up the rough, nut-bearing tree.

The duck, within the dented shore, where spreads the mimic bay,

Sits silent, motionless, save when a ripple rounds away; And seems to watch the colored tints reflected from below, Or list Dominion's coming step, so stealthy, and so slow!

I see the waters of the brook, that in the summer time Went singing onward down the vale, a kind of "catch-me" chime,-

Now seem to linger by the bank, and linger by the brae, As if all loth, from such a scene, to run in haste away.

Can fairy land,-can "land of dreams," such scene enchanting show?

So soft the heavens smile above! so glad the earth below! As if millennial angels had their banners bright unfurled, And Peace, dear Peace! her censer swung in sweetness o'er the world!

Why call this world "a wilderness"-a mournful "vale of

I think it beautiful; and for a better have my fears; My heart in thankfulness dissolves that I'm alive to see The beauties autumn shadows forth, that by-and-by may be. October 19, 1858,

-but he was always annoyed about his coat. was more like bristles than a horse's smooth preserved, as this is the easiest way to save some

skin, and all the grooming he could get 'wouldn't do it no good.' My friend, who is a great horsebreeder and fancier, made me try giving him a few raw carrots every day to eat out of my hand, saying that he would have a good smooth coat in three weeks,—and he was right, for in that time my horse had a beautiful, sleek, glossy coat, and all from eating a few raw carrots daily. He tells me it is infallible.—Cor. Porter's Spirit of the

ADAMS' PATENT WIRE SCREENS.

We were pleased this morning to see the operation of Mr. Sanford Adams' Wire Screens for separating the various grains, coffee, rice, beans, &c. He took about a pint each of three sizes of white beans, rve, buckwheat, coffee, and caraway seed, mixed them thoroughly in a peck measure, turned them into his machine, shook them rapidly for a few moments and handed them to us, each separated from the others. The inventor states that these screens will not only sort and sprout potatoes, clean and "size out" beans and peas, but will separate buckwheat from oats, rye from barley or wheat, and from all foul seed.

The machine works on eight-cornered rollers or cogs, and discharges the mixed contents into separate barrels at the same time, each kind finding its respective size. A person acquainted with the business will sort from seventy-five to one hundred bushels of grain per day.

The machine is cheap, small, compact, and so light that a man may earry it under his arm. Any farmer raising much of this kind of produce, would not fail to save all its cost in two or three years—indeed, we hear of one person who used the machine in the city last year, and saved refuse grain and small seeds enough to bring him \$25,00, which was freighted back fifty miles into the country, and used for fattening mutton! When this foul and broken seed was extracted from the good, it increased the value of the latter some fifteen per cent. Such a process is worth going through.

This is one of those simple and efficient contrivances that commend themselves to all upon once witnessing what they will do-and we therefore think well of it.

MANAGEMENT OF THE BARN.

Let the utmost neatness be observed in the management of the barn. No more hay or other fodder should be thrown on the floor at once than is requisite to supply one feed. By throwing large quantities from the mows or scaffoldings, there is an unavoidable loss from the drying of the fibre, which renders it less palatable to the HORSES' COATS.—Lately going to the coun-animals, as well as less nutritious. Sweeping try to spend a few weeks with a friend of mine, the floor daily promotes cleanliness, and conduces I drove a very handsome horse, and a good one to the health and consequently the comfort of It animals. The sweeping of the floors should be of the most valuable grass seeds. The mangers good and evil, refuse to allow their land to be and cribs should be daily cleaned out and fre-meddled with. quently washed. "What is the use of being so very particular? I never washed my cattle's manger," said Solomon Shiftless. Very well, speaking judicially, we know of no authority of Solomon, your cows probably have as keen an ap- law, by which a land-owner may enter upon the petite for their fodder as you would have if your territory of his neighbor for the purpose of drainwife gave you the same plate unwashed for a month from which to take your meals.—Rural Intelligencer.

For the New England Farmer.

LEGISLATION --- LAND DRAINAGE COMPANIES.

BY H. F. FRENCH, EXETER, N. H.

Under this Act, (namely, the Rye and Derwent Drainage Act,) it became necessary for the Commissioners to estimate the comparative cost of steam and water power, in order to carry out their idea of giving to the mill-owners a steampower equivalent to their water-power.

"As the greater part of the water-power was employed on corn and flour-mills, upon those the calculations were chiefly based. It was generally admitted to be very near the truth that to turn a pair of flour-mill-stones properly, requires a power equal to that of two and a half horses, or on an average twenty horses' power to turn and work a mill of eight pairs of stones," and "that the total cost of a twenty-horse steam-engine, with all its appliances, would be 1000l., or 50l. per horse-power."

Calculations for the maintenance of the steampower are also given, but this depends so much on local circumstances that English estimates would be of little value.

The arrangements in this case, with the millowners, were made by contract and not by force of any arbitrary power, and the success of the enterprise, in the drainage of the lands, the prevention of damage by floods especially in hay and harvest time, and in the improvement of the health of vegetation as well as of man and animals, is said to be strikingly manifest.

This Act provides for a "water-bailiff," whose duty it is to inspect the rivers, streams, watercourses, &c., and enforce the due maintenance of the banks and the uninterrupted discharge of the waters at all times.

Compulsory Outfalls.—It often happens, especially in New England, where farms are small and the country is broken, that an owner of valuable lands overcharged with water, perhaps a swamp or low meadow, or perhaps a field of upland lying nearly level, desires to drain his tract, but cannot find sufficient fall, without going upon cost of drainage, and of interfering with individthe land of owners below. These adjacent own- ual rights for public or private advantage, can ers may not appreciate the advantages of drain- be found than the exercise of power in the cases age, or their lands may not require it, or what of fences and of flowage. is not unusual, they may, from various motives, If we may lawfully compel a person to fence

Now, without desiring to be understood as ing his own land, and perhaps no such power should ever be conferred. All owners upon streams, great and small, have, however, the right to the natural flow of the water both above and below. Their neighbors below cannot obstruct a stream so as to flow back the water on to or into the land above, and where artificial water-courses, as ditches and drains, have long been opened, the presumption would be that all persons benefited by them have the right to have them kept open.

Parliament is held to be omnipotent, and in the Act of 1847, known as Lord Lincoln's Act, its power is well illustrated, as is also the determination of the British nation that no trifling impediments shall hinder the progress of the great work of draining lands for agriculture. The Act, in effect, authorizes any person interested in draining his lands, to clear a passage through all obstructions, wherever it would be worth the expense of works and compensation.

Another provision of this Act authorizes proprietors or occupiers of land, injured through neglect of others, to maintain the banks, scour and cleanse the channels of existing drains, streams or water-courses, forming boundaries of such lands, or leading to the outfall, to enter after one month's notice and neglect, and "execute all necessary works for maintaining or repairing such banks, or cleansing or scouring such channels." The Act also provides that the neglectful neighbor shall contribute his share of the expense of such repairs and labor.

It should be observed that this provision only applies to existing water-courses and ditches, and not to the opening, or the widening or straightening or deepening of new ones. Its remedies are similar to those in most of the States for neglect of adjacent owners to repair the division fences.

It is not the province of the author to decide what may properly be done within the authority of different States, in aid of public or private drainage enterprises. The State Legislatures are not, like Parliament, omnipotent. They are limited by their written constitutions. Perhaps no better criterion of power with respect to compelling contribution by persons benefited, to the

or if he neglect to fence, subject him to their gaged in like manufactures. It is only necessadepredations without indemnity, as is done in of individual success over them all around you. many States, or if we may compel him to contrib
Stockholders in these mammoth corporations ute to the erection of division fences, of a given can doubtless give a negative reply. height, though he has no animal in the world to be shut in or out of his field, there would seem seem to present the most consolidated form of to be equal reason in compelling him to dig half "association." Their thrift, skill, economy and integrity are unsurpassed. Does this mammoth

islature may authorize a Corporation to flow and inundate the land of an unwilling citizen, to raise a water-power for a cotton-mill, it must be a nice sell. No form of corporation need frighten the discrimination of powers that prohibits the same industrious farmer, neither can they depreciate Legislature from authorizing the entry into lands his products. cross-grained proprietor, to open an outlet for a plowing. Now we have all the improvements in valuable health-giving system of drainage.

For the New England Farmer. STEAM PLOW.

respondent, Wilson Flagg, Esq., seems alarmed the most expensive and the most needful of all? at the introduction of the "Steam Plow," should Give them a "steam plow," a bounty of 12½ cts. on such a discovery be made. He repudiates the no-winter wheat, a generous bounty on a hundred tion that the "Illinois State Board of Agricul-bushels of corn, till it becomes a well established ture" should encourage the use of such a machine, which, in its tendency, would "extirpate your plowing will tell at home in your own pockthe whole class of small farmers in the State."

business a well established fact that New England can raise her bread, and the whole class of small farmers in the State."

cts, and the coffers of your States. In support of this theory, he compares the handspinners and weavers, who should undertake to Give them Legislative sanction and support to compete with the manufactories of Lowell and the utmost, and while we must admit the plow to

breadth, I think is at variance with public senti-shall "speed the plow." ment, and I shall venture a few suggestions in relation to it.

If the steam plow should be introduced by "mammoth corporations" (of which there is lit- Canada West farmer, writing on this question to the to fear,) we cannot see why it would bear untractions of the small farmer." He has given rience goes, the most profitable sheep are of nous no idea of the cost of the apparatus, which breed. Buy poor and inferior ewes (of the natural way but breed. may not be very expensive, in a small way, but tive stock, if possible,) cross them with the best the outlay of a good plowing team, and the expense of feeding, is by no means a small item roughness and other qualities, and they will pay pense of feeding, is by no means a small item with the farmer. Horse power has greatly relieved man, as applied to the mowing, reaping and threshing machines, rake, &c., but how vasting and threshing machines, rake, &c., but how vasting and threshing machines, rake, &c., but how vasting and the first cross is the ly has steam annihilated the horse, yet the horse best. You thus obtain an increase in mutton of than formerly. This kind of "progress" is demanded by all enterprising people, and the growth of our country is their crowning happiness. I should regret to see it otherwise. ness. I should regret to see it otherwise.

When the sewing machine was introduced, the reduced.

ell and Lawrence" are made prominent objects - Scientific American.

his land, to exclude the cattle of other persons, of comparison, with smaller establishments en-

But let us take a family of Shakers who would of a division ditch, for the benefit of himself and corporation threaten destruction to the "pleasneighbor." the "delightful groups of ant old farm-house," the "delig If, again, as we have already hinted, the Leg-trees," a state of "servitude" of families in the

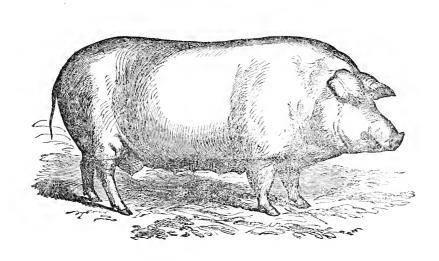
If there is a tedious operation in farming, it is agricultural implements, with new forces and powers. Shall we have the steam plow? If it can be worked on a hundred acres, it can be worked on twenty. Would it not revolutionize New England? Would it not improve the pasturing, enlarge the barns, increase cattle, sheep, MR. EDITOR:—Your able and pleasing cor horses, the dairy, the corn crop, the wheat crop ets, and the coffers of your States.

Hang no clogs upon agricultural enterprises. be the pioneer implement of all farm operations, His article (Farmer, Dec. 18,) in its length and the basis of all hope, let us add any power that HENRY POOR.

New York, 1859.

MOST PROFITABLE BREED OF SHEEP .-- A

Atmospheric Phenomena.—A correspondent needle women were in danger. Wailings and re-writing to us from Byson, Ill., states that some grets were the outpourings of humanity-but peculiar phenomena were witnessed in that place Providence opens new sources of labor, the poor on the morning of the 4th inst., at 9 A. M., conneedle-woman receives her "loaves and fishes," sisting of several rainbows intersecting one anothand by industry and frugality I think she earns er, and at every intersecting point there was a full wages, as I do not learn that they have been bright spot resembling a miniature sun. These bows displayed all the prismatic colors, and were Now what is to be feared from "farm associated exceedingly beautiful. They continued for about capital?" Surely, the argument fails when "Low-three-quarters of an hour, and then disappeared.



CHESTER COUNTY, PA., SOW.

The above is a fine representation of the Ches-sufficiently evident. It seems to be the inevita-No part of the farm economy better deserves atother column.

> For the New England Farmer. CANKER WORMS.

of the ravages made by the canker worm, and ting up the tree. other insects, upon the orchards of New England. fruit growing insecure and hazardous, becomes the substances heretofore used in contrivances

ter County Sow Mazurka, bred by Thomas ble result of civilization, that the birds, the beau-Wood, Esq., of Penningtonville, Pennsylvania, tiful feathered police of Nature, decrease, with and now owned by William A. White of Lanand now owned by WILLIAM A. WHITE, of Lan-portion as the land becomes more cultivated, the caster, N. H. This breed is distinguished for insects, freed from their natural devourers, inlarge size, rapid growth, early maturity and great crease in proportion, and the fruit-grower, obliged propensity to fatten; remarkable, also, for beau- to turn from one remedy to another, finds too of ty and symmetry of form, and docile disposition. ten, now inadequate the contrivances of man are

In order to understand how to apply the true tention than that of swine, as they are manufac- remedy, let us consider for a moment the habits turers as well as producers. More attention of the canker worm. Though the greater numought to be given to breeds, so as to secure those her of these ascend the tree about the middle of that are symmetrical, of quiet dispositions, and the area work the ground during the open weather of every month of winter, and that will gain the largest weight upon the small- of these the largest proportion are females. Havest amount of food. See advertisement in an-ing reached some suitable crevice or twig on the tree, each female lays from 80 to 100 eggs, and covering them with a glue impervious to water, dies. In the month of June these eggs hatch, and the young canker worm soon destroy every green leaf on the tree. The great desideratum, it Few persons are aware, perhaps, of the extent is plain, must be to prevent the worm from get-

A contrivance of WM. W. TAYLOR, Esq., of In Massachusets alone, there are estimated to be South Dartmouth, meets the object better, in my no less than one hundred different varieties of opinion, than any contrivance hitherto devised by the class Geometra, (to which the canker worm the ingenuity of man. It consists of a simple belongs,) according to T. W. Harris. The apple circular cup of iron, cast in two semi-circular sectree suffers most from these worms, but the chertions, so as to be easily screwed tightly together, ry, the plum, lime and elm trees, are often the Between the cup and the tree, a packing is placed subjects of their devastating attacks. The nu- of sea-weed, straw, cotton waste or any other suitmerous pomological societies which have sprung able material impervious to insects, but not so up within a short time are proofs of the increased to water; over the cup is placed, at a distance of interest which the culture of fruit is demanding two inches, a screen, or roof projecting a little befrom the farmers of New England; and when we youd the outer circumference. The cup is then consider the fact that 50,000 obls. of apples were filled with bitter water, which will not freeze in recently shipped from Boston in a single month, any temperature, and is delequescent, (absorbing the importance of staying the pest which more moisture from the atmosphere.) It has also the than any other has hitherto made the profits of advantage of being far cheaper than oil, or any of

having the same object. I have had this invention but little from the true mean of the year, (I of Captain Taylor's in practical operation for some have not room here to introduce a table that I time, and the results have been so highly satisfac- have made out, showing the mean of the sunrise, tory that I confidently recommend it to all fruit-noon, and sunset temperature for each month,

growers as a perfect vade mecum.

The cups of bitter water are half filled with these.) dead insects which have perished in attempting to swim across, and under them numerous cocoons (according to my method.) is 25.99°, of the show that many have found discretion the better spring, 43.98°, of the summer 68.15°, and of aupart of valor, having been foiled in their attempts tumn 55.79°. to reach a more elevated state of existence. Numerous orchards and trees in this vicinity have uary, 1857. been islanded with these bitter waters, which have which guarded the famous gardens of the Hesper-mean of these two extremes is 40°. ides, and I am of opinion that if this impassable circle of Captain Taylor had been extended around March, with a temperature of 2° at sunrise, 6° the tree, in a certain garden that we have read of, at noon and 7° at sunset; and the warmest day the human race might have been considerably was the 26th of June, with the thermometer at better off than it now is, and the world would be 71° at sunrise, 92° at noon, and 76° at sunset, something better than a home for the fellen.

Feb., 1859.

worms, and should think it might prove effectu-al. We know nothing of the cost, or of its prae-northeast seventy-three, and from the north twencorrespondent above.

For the New England Farmer. THE WEATHER OF 1858.

[Concluded.]

year was twenty-one, amounting to about thirtyfour inches on a level, as near as can be easily the west, and only eighty-six from an casterly calculated, or two feet and ten inches, as follows: quarter, which shows that the wind prevailed In January there were three falls, amounting to much more from a more or less westerly quarter, six inches; in February four falls, amounting to than from an easterly point, and accordingly five inches; in March four falls, equalling nine goes to prove a theory in meteorology that the and one-half inches; in November four falls, prevailing wind in the high northern latitudes equal to nine inches, and in December six falls, must be a westerly wind, (or southwesterly.) equal to four inches.

The last fall of snow in the spring occurred on the 14th of March, and the first in the fall, on

the 13th of November.

The number of falls of rain in the year, including thirteen thunder showers, was seventy, oc-dant; ninety-three cloudy days-days in which curring as follows: In Jan. four, in Feb. one, in the sun scarcely shone; and sixty-four designat-March two, in April six, in May six, in June five, ed as quite cloudy-the clouds predomin ting. including three thunder showers, in July eleven, including five thunder showers, in August twelve, including two thunder showers, in September six, including three thunder showers, in October have been strikingly noticeable.

the query, how is this to be accounted for?

ent methods of observation, to conclude varies for the spirits and the change of mind.

and the mean temperature as deduced from

The mean temperature of the winter months,

January, 1858, was fully 18° warmer than Jan-

The lowest temperature during the year was proved, thus far, better than the sleepless dragons 12° below zero, the highest 92° above, and the

> The coldest day in the year was the 5th of and the difference between the mean tempera-

ture is not far from 80°. There were two hundred and twenty days of REMARKS .- We have examined the device of wind from some northerly quarter, during the year, Capt. Taylor to prevent the ascent of canker and one hundred and twenty-three from a southtical operations, excepting what is stated by our ty-one; from the southwest sixty-four, from the south forty-eight, and eleven from the southeast. During twenty-two days the wind was either imperceptible, or so light and changeable that no regular current could be perceived. Had I room I would introduce a table showing the number of days of wind from the points from which it The whole number of falls of snow during the blows for each month. It also appears that there were one hundred ninety-three days of wind from

There were one hundred and four clear days in the year 1858, days in which the sun shone almost uninterruptedly; one hundred and four tolerably clear-days in which the sun shone the greater part of the time though clouds were abun-

Wilbraham, Mass., 1859. J. A. ALLEN.

Effects of Pedestrian Exercise.—A celeeight, including one thunder shower, in Novem- brated English physician says that pedestrian ber two, in December seven. From December, exercise particularly exhausts the spine and the 1857, to April, 1858, but very little water fell, brain, and is, therefore, the kind of exercise less either in snow or rain, and had such a drought suited to intellectually hard-working men. And occurred in any other season of the year it must it is on this account that horseback exercise is the medicine it is-the horse having the fatigue The usual amount of rain fell during the au- and the rider the exercise. To sufficiently jar tumn months, and most of the summer months, the liver and other internal organs, for some conbut in October the springs, and consequently the valescents, the legs and loins must be over-wells and streams, were remarkably low; hence worked. The thorough shake-up which is got in the saddle is without effort, or with the effort of The mean temperature of the year, based upon only such muscles as can best afford it; and the an average of all the sunrise, noon and sunset student-rider comes back with physical forces all temperature, is 45.76°, which I am led, by differ-refreshed, besides the exhibitantion of movement

For the New England Farmer.

THE USE OF LIME AND ITS PROPER-TIES.

MR. EDITOR:—Although not a farmer to any great extent, having most of the time, for twentyfive years past, been grinding grain for farmers, yet I have had the opportunity to study Nature in the development of the vegetable kingdom, and have assumed as a motto, that in order for a full muscles of his animals-increasing their size, and development of vegetables, there must be a complete association of mineral principles in the soil. As most of our soil, in the New England States, is deficient in the principle of lime, the component parts of which are, "a mineral gluten, and a mineral alkali," and, as it is necessary for the principle of alkali to be present in the sand or nures, so much the more he will need a good supsilica of the soil, to enable the spongioles or rootlets of plants to decompose so much thereof to produce 35 bushels of wheat to the acre, he as will be sufficient to give its body the necessary must put in lime enough to produce a straw stiff stiffness to support the head, and the ripened seed, I have come to the conclusion that lime keep it from lodging. Then the sap vessels will must be added to the soil as one of those principles which go to make up a complete association.

papers, and some of our farmers, are advocating sure of the sap in its flow to the head for the purof lime as manure or food for vegetables; but pose of forming the grain or kernel. yet they do not seem to understand why they should do so, or why lime is valuable as a manure. They say, that where they make use of old use in saving a good crop of wheat, which, with-plastering made of lime and sand—no matter how out it, would be a failure, by being spoiled by the old it is—as a manure, they receive great benefit rust, or by lodging—must I appeal to the intertherefrom. Now, what are those wonderful virtues est of the farmer to induce him to use it? Then, which lie concealed in the old plaster? If you if by applying 10 bushels of stone lime, costing should taste of it, you would not perceive that it \$2,00 at the kiln, to the acre, will increase the contained one particle of alkali, which, when it was first made, was so strong with alkali as to erwise would have yielded only 20 bushels, callcorrode one's flesh. I have asked many with ing wheat \$1,00 per bushel—allowing \$2,00 more whom I have conversed on this subject, what has become of the alkaline matter that was at first so land, you will receive the first year for your apparent in the old plaster? Some have conjection on the land, you will receive the first year for your money 133½ per cent, as interest? Is not that tured that it has evaporated—gone into the atmosphere, while others could not tell, yet they thought that alkali could not evaporate.

known to us cannot evaporate it, else it would have escaped with the carbonic acid gas in the process of calcination. Then where has it gone to? what has become of it? Answer—the sand which constitutes a large portion of the plaster had an affinity for the alkali of the lime. An association was the consequence. The alkali and the sand have united in one compound, and is in a proper state for decomposition by the roots of the vegetable kingdom. This is why the old plaster has such wonderful virtues in it to make plants grow—"the silica is rendered soluble by associating with alkali." The lime stone, before calcination, is of no more benefit as food for plants, than granite or any other stone, even when be long before your farms will assume a more comminuted. The gluten of lime differs from beautiful aspect—a richer dress of wholesome the gluten of clay, and when clay and lime are life-giving vegetation. Instead of running over mixed together, they form a very light and porous soil—the tenacity of the clay being destroyed hay and grain, you will not, like the man of whom by the lime; showing at once that lime is of as we read, "pull down your barn and build larger much benefit to clay soils as to any other kind of soils. Should the farmer see fit to dress his land tion of two or three more to hold your crops and

ready for the use of plants, until the whole had passed into the vegetable form; and the glutinous part would combine with other ingredients of the soil, together with such other manures as the farmer does, or ought to apply thereto. It would there be ready to impregnate his crops of grain and grass with the phosphate of lime, that most necessary of all principles to the health, strength and firmness of the bone and of course their value.

Lime ought to, and will yet be considered indispensable by the farmer in growing wheat and the several grasses. Nor should be neglect to apply all the manure he can command; for the more highly he erriches land by animal maply of lime. If he makes his land rich enough enough to support the heads of the wheat, and be kept from bursting at a certain stage of its growth, and forming a rust on the straw—having I am very much gratified that the Agricultural strength and firmness enough to sustain the pres-

After I have thus far shown the chemical propensities of lime—its nature and action on the soil for the benefit of vegetables and plants-its yield to 30 bushels of wheat per acre, which othbetter than to put it into a bank that may fail? Then consider the amount of hay you will cut for several years to come, more than you would They rightly thought. The most intense heat without the lime, and of a far better quality for your stock-rich in the phosphate of lime.

Farmers of New England, if you wish to compete with the fertile lands of the West-if you wish to excel in your wheat, cattle, horses, sheep, in the staple and fineness of your wool, in the flavor of your butter, and in the quantity and quality of your cheese, sow lime on your lands, on your meadows, on your pastures, not stingily, but bountifully. Sweeten up the soil as your mothers used to do with their sour butter-milk, by pouring into it an alkaline substance to nutralize the sour humus located therein, which now has only a tendency to produce sorrel, raspberries, strawberries, moss and wild cherries; and it will not ones," but will be necessiated to make an addiwith an hundred bushels of lime to the acre, the your stock. Instead of going over an acre and alkaline part thereof would soon all be taken a half or two acres to get a ton of poor hay mixed up by the sand in the soil, and would be there with sorrel and weeds, you will be cutting from a good timothy and clover, well filled with the phos- at all, and may, and often do, disappear entirely. phate of lime, of which the bones of your animals

are composed.

If what I have said appears reasonable, adopt it; if not, reject it. If it will set many to thinking, it is what the farmers ought to do-thinkand not only think, but speak out themselves. SAMUEL DAMON.

Ripton, 1t., 1859.

EXTRACTS AND REPLIES.

TOP-DRESSING-LEACHED ASHES-GUANO.

Which will be the best for a spring top-dressing for grass on a sandy loam, -well-rotted manure, leached ashes or guano-and which will be ally with a lock of hay, a nub of corn, or a potathe most economical—not in regard to first cost—but as to the effect? (a.)

Would plaster sowed in the spring be beneficial to a piece of lightish soil pasture, which was seeded down last fall with a manure of bone-dust and leached ashes? (b.) Young Farmer.

North Billerica, Jan. 30, 1859.

rotted compost—not a compost that has been is in punishing—and as a last resort, send her greatly fermented, but one well-balanced in all to the butcher. its parts, ripened, mellow, and just in that condition to become soluble, and afford abundant nutrition to the plants as soon as sufficient heat and moisture reach it after being mingled with the diseases of fowls, particularly the hen, but as yet soil. Such a compost will afford all, or nearly of your readers have had occasion to witness all, the elements that the plant needs. Leached anything similar to this disease, it would be inashes will not, and guano is so volatile, and its teresting to hear from them, and if they can successful use depends so much upon circumstan- show its cause and a remedy, it will be very acces, that we have no hesitation whatever in rec- ceptably received by the breeders of fowls generommending the compost in preference to those or two hundred lost several by this disease. The anything else.

by an experiment.

SPLINTS ON HORSES.

on horses, is referred to an article in the Ameri- connected by ligaments of unnatural growth. can Veterinary Journal for January, copied from Will some one who is acquainted with rearing the London Field, for a full description, cause and doctoring fowls give us a remedy, if they and treatment, but lest that excellent journal be are acquainted with the like disease. not at hand, I will make a few extracts :-

"Some animals have an hereditary predisposition to exostosis, (splints,) which appear before they are subjected to work of any kind, but they are generally produced by the animal being put

too early to work."

have some jaw-breakers as well as the doctors,) will help the farmer in cultivating his farm. The "which consists in making an incision above and author has written it in so plain, easy and pracbelow the bony tumor, then with a seton needle tical a way, that it is a pleasure to read it. raising the skin from the tumor, passing in a Take the analysis of a tree commencing at the knife with a guarded blade, cutting deeply into roots and tracing it up through the bark, sap, skin.

ton and a half to two and a half tons per acre, of at all, as they cause lameness but a short time, if

Nashua, N. II.

A KICKING COW.

I have a cow, five years old, that is apt to kick in the stall. Will you be so kind as to let me know how I can break her of that habit?

A Subscriber.

South Weymouth, Mass., 1859.

Remarks.—If she has always been kindly treated, she certainly shows a great want of good manners in kicking her friends. If our cow, we should approach her gently, quita often, and usuto or an apple in our hand-speak kind words to her, scratch her neck and back, and convince her, if possible, that we desired to be on the most friendly terms with her. If she was a valuable cow for milk, and notwithstanding all these evidences of kindness, persisted in kicking our REMARKS.—(a.) Nothing compared with a well shins, we would, perhaps, try what virtue there

DISEASES IN FOWLS.

Of late there has been considerable said about ally. I have lately among a flock of more than body seems to be filled with a yellowish wa-(b.) On some soils the plaster would be decid-ter, in which the bowels are completely enedly beneficial, on others not. You can only tell veloped, besides which there are clusters of water-sacks connected together, remote from and independent of the ovaries. Some of these clusters contain from half-a-dozen to twenty sacks, from the size of a pea to that of large grapes. "A Subscriber," who inquires about "Splints" These are also filled with a yellow water, and

Peter A. Foster.

Shaker Village, N. H., 1859.

NASII'S PROGRESSIVE FARMER.

Should not this book be taught in our common "The best remedy is peristectomy," ("Vets" schools? It contains much useful knowledge that

the substance of the splint, and finally by pass- heart and pith to the extremities of its branches, ing a seton over it, i. e., between it and the How many are there that know the use of the leaves in the vegetable world around them? The This is an operation that belongs to the veter-tiny leaf, that trembles in the breeze, is so inarian, and should not be entrusted to the vil-formed, that one side of it is constantly drawing lage "blacksmith" or "butcher." It is a ques- in the unhealthy and impure air which the anition whether it is advisable to meddle with them mal world is throwing off, and giving vigor and life to the tree, passing through its laboratory, is now about the bigness of a dollar in circumand is again thrown off, from the opposite side ference, attended with very little soreness, though of the leaf, changed from an impure to a healthy I perceive on working him hard for a day or two air.

it ought to draw the mind from Nature's works but have not been able to find anything that has up to Nature's God. With this knowledge the been of use. farmer, as he walks his farm, surrounded with trees, decked with leaves and flowers, ought to feel happier with his occupation than he would without this knowledge. What a wide field there is open before him for studying the habits of the animals, the fowls and insects that are around him. W. A. P.

Barre, Mass., 1859.

REMARKS.—The little volume spoken of above ought to be read by every progressive farmer. It will suggest a thousand things both pleasant and profitable.

SEVERAL THINGS.

A poor farmer in Orleans county, Vt., wants to know if he shall plow in manure or harrow it, when he seeds to grass? (a.)

Is it best to use a roller on dry and gravelly

land? (b.)

Will not two eyes be better than one in a hill of potatoes? (c.)

Will it pay to spread manure on dry, gravelly

land? (d.)

Would it not be better for farmers if the money expended on fast horses were laid out in premiums on fall crops? (e.) A Subscriber. Orleans County, Vt., 1859.

Remarks.—(a.) Plow in three or four inches deep, and level with harrow.

- (b.) Certainly. The more dry and light the land, the more necessity for the roller. Have you not observed on such land, that where the cattle tread in harrowing the seed in, that the seed comes up earliest in their tracks?
- (c.) Seeding for potatoes is a mooted and delicate question. We can only say, that we seed lightly with small potatoes, or large ones cut, and that we find no depreciation in the crop.
- (d.) By manuring your dry, gravelly land liberally for several years, you will bring it into a moist, rich, gravelly loam-but you must manure freely as far as you go. If it is in grass land, spread the manure as soon as you get off the hay, or, late in autumn.
- (e.) Yes. Or better still, in supporting farmers' clubs and other meetings for agricultural discussions.

WHAT AILS THE HORSE.

My horse is five years old, and eighteen months ago it had the appearance of having rubbed the skin off on the inside of the right gambril joint, about the size of a quarter of a dollar. Since that it has been gradually growing larger in circumference, and projecting in the form of a wart, and a roughness similar to a wart around its edges. The friction caused by the other leg from his laying down, keeps the crown of it raw. It ple will have the benefit of sound instruction.

in succession that it is attended with swelling In this we see the wisdom of the Creator, and and stiffness. I have been treating it as a wart, MERRIMACK, N. H.

Jan. 20, 1859.

REMARKS.—Youatt says if the root of the wart is very small, it may be cut asunder, close to the skin, with a pair of scissors, and the wound touched with lunar caustic. But if the pediate or stem be somewhat large, a ligature of waxed silk should be passed firmly round it, and tightened every da

THREE POTATOES.

I send three potatoes; if you are acquainted with their names and qualities, I wish you would inform me through the Farmer.

So. Strafford, 1859. W. B. HAZELTINE.

Remarks.—The three potatoes you were kind enough to send us are the most perfect in form that we ever saw. The eyes are nearly level with the surrounding surface. Give us some account of them, if you can.

JAVA SPRING WHEAT.

Do you know anything about the Java Spring wheat raised in your section? West Georgia, Vt., 1859.

REMARKS.—This wheat was introduced into this vicinity by Mr. STEPHEN DILLINGHAM, of Falmouth, on the Cape, we believe, in 1857. It has given great satisfaction wherever tried. There will be a limited amount for sale this spring by Nourse & Co., 34 Merchants Row, Boston.

ESSEX CO. TRANSACTIONS.

I wish to procure the Essex County Transactions for 1858. G. S. Johnson.

Montpelier, Vt., 1859.

REMARKS .- Write to the Secretary, ALLEN W. Dodge, Esq., Salem, Mass.

MAINE BOARD OF AGRICULTURE.

We have recently read the discussions of the Board, as reported in the Maine Farmer, with much interest. Its meetings were held for several successive days, and a detailed statement of what was done, and doing, in their respective districts, was given by each member of the Board. Such statements are beneficial to those who give them, and to those to whom they are given. If it is known that this will be required, none but those qualified will accept the appointment, lest their own inferiority should be made apparent; and if none but good reports are made, the peoFor the New England Farmer.

WILL GRAIN CHANGE ITS KIND?

Harvard, February 4th, 1859.

ing extract from the "Boston Gazette and Country" readers of your valuable journal.

JAS. I. WYER, JR.

To the Author of the Grand Magazine.

SIR:-If you have not already heard of the following extraordinary instance of the powers of vegetation, in the transmutation of one species of corn into another, I am persuaded I need make no apology to trouble you, on so im-

portant and curious a subject.

This phænomenon was first observed in Sweden, where it was discovered by mere accident. A countryman having sown some oats in his field, and wanting provision for his horses, mowed the young shoots of the grain soon after they were and the farmer mowed it as before. He did this, protect the end of the shoot, at intervals, three times. The winter coming on, The flowers of the Marvel. no more blades appeared till the following spring, jalapa,) which are very beautiful, do not open in when shooting up as before, they were permitted to grow to perfection, and the erop, to the surprise of the poor husbandman, instead of proving the day-time. Another variety of the same oats, turned out absolutely good rye. This fact coming to the ear of a very ingenious naturalist of that country, Mr. Jop Bern Vergin, he suspected there might be some deception, and ae- which is a plentiful weed in corn-fields, is called cordingly in the year 1750, repeated the experiment, observing exactly the same measures by design as the countryman had taken by chance. The result of this experiment was the same, and always shut up at noon. his oats produced good rye, as that of the peasant had done before. A circumstantial relation bona-now) are large and white, expanding only of this extraordinary discovery was soon af er- at sunset, and perfuming the air to a great diswards sent to their High Mightinesses, the States General, by Mr. de Marteville, their Envoy at finest cloves. It is a native of Bengal, where it the Court of Sweden.

Curiosity, and the desire of further knowledge concerning this surprising phenomenon, induced perstein, one of the Magistrates of Harlem, and the President of the society lately established Words. there for the improvement of arts and sciences. This gentleman sowed a handful of oats on the 21st of June, 1757, and again another on the 26th of July following. The first he cropt at three several times, viz., on the 29th of July, the 8th of September and the 11th of November. The the inclemency of the weather. Five of them, my mind. It is briefly the following: however, remaining alive, shot up in the spring, which was reaped the 7th of last August.

As the utmost care was taken in this experition of the results of their thought and labor. ment to avoid any mixture in the grain, as well sown; this transmutation, however strange it certificates of excellence at the town exhibitious,

may appear to the ignorant, or inconsistent with the systems of naturalists, is looked upon here as an indubitable fact.

With a view of prosecuting this discovery still MR. EDITOR:—As I have lately seen in the N. further, Mr. Syperstein has sown a fresh parcel E. Farmer several articles on the change of one of oats, treating them as before. He has also kind of grain to another, I send you the follow- sown some of the rye produced from the oats, which he has cropped in the same manner as he Journal," published July 23d, 1759, thinking it did the oats that produced it. He proposes also may be interesting to some of the numerous to make several experiments, with a little variation, in order to improve on this discovery.

SLEEPING PLANTS.

The sleep of plants, which was discovered by Linnæus, is caused by the different influences of light and darkness, cold, heat and moisture. The common chickweed (Stellaria medica,) of which birds are so fond, furnishes a beautiful instance of the sleep of plants. Every night the leaves approach each other in pairs, so as to include within their upper surfaces the tender rudiments of the young shoots; and the uppermost pair but one at the end of the stalk, are furnished with longer leaf stalks than the others, so that come up. The grain shot forth again, as usual, they can close upon the terminating pair, and

The flowers of the Marvel of Peru, (Mirabilis hot weather until the evening; but, if the weather be cool, or the sun is obscured, they open in plant is called the four-o'clock flower, from open-

ing at that hour of the day.

The scarlet pimpernel, (Anagillis arvensis,) poor man's weather-glass, and shepherd's barometer, from the flowers always closing before rain; and should the weather be ever so bright, they

The flowers of a sort of convolvulus (Rirea tance, with a fragrance resembling that of the rambles among the forests, and is called the Midnapore ereeper.

The common goats-beard (Tragopogon presome of the naturalists of that country to try the tense) grows in many parts of Britain, and is experiment again. Among the rest was Mr. Sy-ealled go to-bed-at-noon, from the fact of its flowers closing about that time.—Household

For the New England Farmer.

TOWN, COUNTY, AND STATE SOCIETIES.

DEAR SIR: —I am glad to learn from the palast he cut only twice, viz., on the 13th of Sep- pers that there is in contemplation a re-organiza-tember, and the 18th of November. The succeed- tion of our Agricultural Societies, which shall ing winter happening to prove very severe, al- render them more efficient. I wish to suggest most all the grains perished in the earth, through a plan for this purpose, which has long been in

1st. Let there be clubs or societies in every and produced large and full ears of good rye, farming town, for discussion, the support of lectures, the formation of libraries, and the exhibi-

2d. Let there be county societies, which should as to prevent any grains of rye from falling acci-include these town societies, and which should dentally, or otherwise, on the spot of ground hold exhibitions, at which those who had received

the superiority.

3d. Let there be a State Society, which should consist of delegates chosen by the county societies, which should arranget the whole general system for the management of the town and county societies, which should receive the entire bounty which should admit to its exhibitions as competitors for premiums only those who had received diplomas or certificates of excellence from the county societies.

Clinton, Mass.

SIXTH LEGISLATIVE AGRICULTURAL MEETING.

REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

Subject for Discussion—Fruits, and how to raise them.

The meeting on Monday evening, in the State House, was pretty numerously attended, as the series has heretofore been this season. This may be accounted for by the eminently practical manner in which the discussions are conducted, and the confinement of the observations to the sub-'ect under debate. Hon. SIMON BROWN, of Concord, occupied the chair.

The President stated that the subject of growing apples, pears and grapes had been heretofore some attention should be given to the smaller fruits. The Strawberry was one of the most important of these. The kinds grown were numerous; but not above a dozen were desirable to cultivate-in fact, not so many. Among the better sorts for cultivation here were the Horey's Seedling, Early Virginia, Jenny Lind, Brighton Pine, Jenny's Seedling, Walker's Seedling and the Wood. The last of the varieties mentioned without disparaging any of the others, it was during five or six weeks after the first supply ripened. It was an excellent fruit for family use, and to that it would have to be principally conwas so easily damaged. It was nearer in flavor to the wild strawberry than any he knew-indeed, no more palatable table fruit could be were potatoes, and required only such richn-ss of soil as would be required to raise corn, at the black loam, in the experience of the speaker, was the best soil for the culture of this strawberry; but some said a yellow loam would suit—a fact he had no practical opportunity of knowing. general condition of successful cultivation would descriptions might be cultivated with a uch profit

and they alone, should be allowed to compete for proving this question, Mr. Peabody, of Georgia, had raised the strawberry in great perfection, and the secret thereof was the plentiful supply of water he furnished the vines. The Secretary of the Belmont (Mass.) Club had furnished the Chairman with certain statistics, which he partly of the State, and experd it for premiums, and in quoted. These showed, in one instance, that other ways, for the advance of agriculture, and 3000 boxes had been raised on one acre, which, at 25 cents per box, would realize \$750. The manure per acre, cost \$150; picking, \$150; cultivation, \$150, and marketing, \$150; leaving a profit of \$200. But even this was held to be but moderate profit, as market-gardeners in that neighborhood were in the habit of realizing a larger acreable return for their labor. Another party estimated the number of boxes of strawberries at 4000 from an acre, which, at 25 cents a box, would give \$1000. His estimate was \$400 for cultivation and marketing, and the consequent profit would be \$600! A good crop might amount to 4000 boxes the first year, and 2000 the second one. As to planting the strawberry, the best time to do it was the spring-as early as the late frosts would permit. The rows should be three feet apart, and the plants in the rows one foot separate. Between the rows beets might be planted, the cultivation of which would keep the strawberries clean of weeds. After the discussed, and the Committee had desired that beets were harvested, the strawberry vines would run and cover the spaces between the rows, before winter came on. Being well weeded next spring, they would produce fruit plentifully next summer. Some thought it questionable management to let 'the strawberry plants remain over for another year, on account of the trouble and expense of weeding and the diminished produce, and it was better to turn them under. Mr. Brown was of opinion that such should be the rule, so was one which ought to be better known; for, far as marketing purposes were included; but where family wants were merely to be supplied, among the best; a free grower, produced its he believed it would be well to put up with a litfruit on long stems, and continued to furnish it tle extra labor in weeding, when the plants could he saved, and he reasonably productive, even for four years. Experience had shown him that this could be done and the vines bear moderately fined, as it would not safely carry to market, it well. For his own part, however, he would recommend that the vines should be planted in rows two feet apart, the hills a foot distant in the rows, leaving a space of three feet between found. It was easily produced; as much so as the rows to allow room for weeding. When the proper time came, (the close of the second year's bearing.) the weeding path should be spaded, the rate of sixty bushels per acre. A deep, moist. best runners planted and the old rows turned under.

Raspberries.—Mr. Brown next made reference to raspberries, the varieties of which he said, were less numerous than the strawberry. Wild be found in having the land rich and moist. As in gardens, as they were hardy and less liable to

winter-killing than the cultivated kinds. Among vor, was, in Mr. Brown's estimation, the best. the latter was the Red Antwerp, commonly cul- The other most prominent variety was round. tivated in New England, (which was a little ten- On meadows that could be flooded at will, the der in winter;) also the Fastolff, Knevett's Giant, fruit could be grown profitably, after due prepaand a more recent, and in his estimation, a bet-ration. By irrigating the soil the bushes, weeds ter one, viz.: Brinckle's Orange. This was a val- and aquatic grasses obnoxious to its growth uable acquisition to our list of small fruits. It could be killed, when the plants could be put in by and juicy, with a saccharine quality that seemed burn the surface of a meadow had not proved sucto satisfy everybody, and it was an excellent pro-cessful. But the most desirable thing was in the ducer, besides.

In preparing the vines the old wood ought to be white sand was found as the subsoil, successcanes or sprouts left, as a greater number would fact ought to bear its suggestive value.

the fields, for ten years, and with care in its man- acre. agement had found it wonderfully prolific. It had always a tendency to over-productiveness; and ceeded to speak of the apprehension of some unless the cultivator was careful in denuding it of that too much attention was given to the cultitwo-thirds, at least, of the fruit it would strive to vation of apples; but this charge he thought set, it would perfect but a small portion of the wrong, as, through carelessness and maltreatwhole. One-third was as much as the vine could ment not more than twenty-five out of every bring to maturity. He had cultivated the New hundred apple trees planted ever bore fruit! Rochelle or Lawton blackberry, but had not suc- One great cause of this was the time of prunhad been urged that the unripe berry would make All spring pruning was imprudent-the months said he had no experience. The Dorchester variety that process. The physical reasons for this statehe had not cultivated, but report spoke well of it. ment were advanced, but want of room hinders The common black or white Thimbleberry he had their enumeration. The import of the argutried, and found it prolific, and the fruit good-ment was that when the sap is ascending, the none better than this for the tea-table. Its cul- pores of the sap wood are enlarged and filled it could be grown profitably on any good corn every incision made into them; but that after

quently grew an inch in length, in size and fla-lis what is laid on and increases the size of the

was of a fine orange color, semi-transparent, clear the use of the hoe. Attempts made to scarify and first place to find out on what kinds of soils cran-Raspberries should be planted in the spring, berries could be most profitably grown. Where cut down to the ground, and no more than three ful cultivation was the most certain—and this be less productive. The tops of the canes should Brown said he had grown the cranberry on high be cut off, also, when they were about four feet grounds, but owing to the trouble arising from high, at which time they should be tied to a hor- weeds, the removal of which fatally disturbed izontal board, fastened to standards, to keep the tender roots of the plants, they dwindled and them from damage from storms, &c. The rows died. He described an attempt to cultivate the ought to be planted four feet asunder, and the cranberry along the edge of a meadow, through hills in the rows three feet apart; and under reather use of gravel, sand and mud, as an artificial sonable conditions of soil and management they soil, and as far as he had gone, with very good would produce bountifully. No more care was success A want of the advantages of irrigation, demanded by them than that requisite to grow a and a too liberal use of it in some instances, had fair crop of potatoes. The soil ought to be what militated against the production of a sufficient would constitute a good corn soil; and a require-crop to meet the demand, and now the price had ment would be such exposure as would conduce increased a dollar or two per bushel as compared to natural warmth, without any undue restriction. with what it was five years ago. From flowages Blackberries. - The blackberry, Mr. Brown by reservoirs and dams, which destroyed the visaid, was known through fewer varieties than the tality of the plants, he spoke of a single town raspberry; and the most common descriptions which had formerly produced \$5000 worth of yielded liberally to cultivation. He had grown cranberries annually, but which at the present the common high blackberry, taken wild from time did not produce a single dollar's worth per

Apples and pruning.—Mr. Brown next proceeded in ripening it. In extenuation of this, it ing as recommended and followed by some. the best of wine; but in that respect, Mr. Brown of March, April and May being the worst for tivation would well repay very common care, and with a thin watery fluid, ready to flow out at the sap has reached the leaves, it becomes, Cranberries .- The great demand for this fine, through their agency, a new article-is thicker, healthy fruit, made its cultivation a matter of and returns down the tree between the bark and much importance. There were several varieties that soft whitish substance next to the wood, grown; but the oblong description, which fre- and is called the laburnum. This returning sap

tree from year to year. In March, April and brought it to its present very improved state. May, the sap is in the thin condition; by the What had been done for it could, he supposed, middle of June it has become thicker, is a differ- be done for many wild fruits of native character, ent substance, and a wound judiciously made which were more permanent in their existence during a month from that time will rarely bleed, than the peach, which was short-lived. After a very happy allusion to the domestic, so- Mr. Hinckley, of Barnstable, made a few obsercial, and moral advantages of a taste for horti- vations on cranberry culture on the Cape. The culture, floriculture and pomology, the chair- prevailing idea in that district was, that the lands man closed, and invited other gentlemen to on which it was grown should be flowed during speak.

made some practical observations on the culture soon as the vine was exposed to the atmosphere, of cranberries, strawberries and blackberries. the flower was subject to be attacked by a worm. They generally coincided with those of the Pres- As soon as this was observed, the custom was to ident. In relation to pruning apple trees, Mr. reflow the land, when the worm was killed. This Lake thought the greatest evil was pruning too was the secret of success in some instances. One much by the knife, and through suffering cattle gentleman had taken \$600 worth off a small lot to do the duty without any rule, which was too whose facilities for flowage were good. Another often the case. Cutting off of heavy limbs was had six acres, for the crop of which he had been always imprudent, as decay and disease was a offered \$1,000; but the worms came, and no opgeneral consequence. July and August were the portunity having existed for flowage, they desbest times for pruning apple trees. Mistakes troyed the crop, so that he had only two or three had been grossly made in the way by pruning bushels. In view of these facts, Mr. Hinckley pear trees; the nearer their natural condition thought that, unless facilities for flowage were they could be kept the better and more liberal always at command, the propriety of growing this the produce. In regard to dwarf pears espe-crop was questionable. cially, this rule should not be innovated. Mr. Messrs. HINCKLEY, LAKE, and other gentlemen, Lake went on to demonstrate that fruit grown discussed the subject of raking cranberries, as it beyond a certain altitude on a pear, or any oth-related to the injury of the plants, or the contrary. er tree, was not so good as that grown lower. Opinions were in direct conflict; one party up-Fruit too much exposed to the sun, which was holding the fact that damage was the consequence one consequence of too much pruning, was never of raking, and another, that the stirring it gave so good, or so sound, as that grown under con-the plants conduced to their healthier growth. ditions where nature had her own way in prosunshine. Mr. Lake wound up by attacking the instances in favor of this position. He also alludrage for planting what he called fancy sorts of ed to the matter of pruning; holding that it ought apple and pear trees, and commended only such to be done intermediately, between the time of as were well known for their bearing and hardy the production of the fruit and the growth of the

cranberry culture—the great ease with which it | not generally applicable in this country. could be accomplished, and the profitableness of its culture. He spoke of an acre of ground that the months of September (the latter portion of produced \$500 in value. One person he knew it,) and October, as otherwise disease and destrove to sell a meadow of his for \$500 an acre; cay would almost certainly ensue. His experibut recently, the produce of the same meadow ence extended over some time, and included the gave him \$700 to \$800 yearly. This was only a treatment of some thousands of trees, and such small portion of a farm that cost originally had been its teachings. As to the cranberry, he \$1700. Cranberry lands in Worcester county thought it could not be safely cultivated unless were assessed higher than any other lands, on ac-there was a privilege of flowage always at hand. count of their productiveness. Careful cultivation had recently greatly improved the quality of Monday, when Ex-Gov. Boutwell will preside,

Dr. Carpenter, of Warren, spoke of the ral Fairs." peach, which, he said, was a native of Persia, and was also bitter; and cultivation alone had soap is entirely melted; (a farina kettle is most

winter, and until June; and wherever facilities Mr. LAKE, of Topsfield, was called upon, and were favorable, this had been the practice. So

Mr. WETHERELL spoke in favor of taking tecting it from undue injury from storm and hot scions for grafting from young trees, and quoted wood. Further, he wished it to be noted that Senator METCALF, of Worcester, spoke of the rules of pruning as laid down in England were

Hon. RICHARD S. FAY commended pruning in

There will be no meeting until a week from and the subject will be—"Market and Agricultu-

SOAP FOR CHAPPED HANDS, &c.—Take one in its native state was very poisonous, on ac-bar of yellow soap; cut it up small; add to it count of its containing much prussic acid. It the gall of a beef; put it over the fire until the convenient to melt it in;) then add one ounce apparent before leaving it. A gentleman having hol; pour it into a vessel (previously greased) of a size to make the soap at least one inch thick. When firm enough to cut, before it hardens, cut it into cakes of a convenient size. This soap out of woollens and silks.—Maine Farmer.

For the New England Farmer.

PRUNING APPLE TREES

Mr. Editor:—I noticed in the December Mr. Ellis, of Rochester, upon this subject. In your remarks upon that communication you condemn the practice of spring pruning, and say that we ought to know better than to begin to destroy our orchards just as they are coming to maturity. I have been taught from my boyhood to prune in the spring, but if I can find a better time, I am ready to adopt it.

But which shall I follow,-my own reason and observation, or the instruction of the Farmer? If we cut off a branch in the spring, before the dition to heal the wounds made by pruning just after the leaves are put forth as before?

I am aware that some tell us that plants derive most of their nourishment from the atmosphere, then, just as they are prepared to act?

I have never known an apple tree that was pruned in March or April to bleed. In May, we are too busy to prune, so that I cannot speak from my own experience in pruning, in that the tree. month; but I recollect that one of my neighbors May. I was led to notice these trees particularly, from some remarks made by persons who were passing by, as the trees were near the publie road; one said it was too late in the season; he pruned some of his trees last year about that time, and they bled badly; another said it was too early; he thought the middle of June the right time. I think the trees are doing well; they did not bleed, and soon began to heal.

I hope, Mr. Editor, if our lives and health are spared until spring, you will come to Danvers, and I shall be happy to wait upon you, and show you the trees in this neighborhood, which have been pruned in the spring for the last forty years. WILLIAM R. PUTNAM.

Danvers, Mass., Jan., 1859.

the practice of spring pruning, most emphatically:-first, from repeated experiments through a series of years,—secondly, from long and careful observation of the hurtful effects of such pruning,—thirdly, because spring pruning, more especially, violates the laws of nature that govern mouths of the pores wide open! the tree, and fourthly, because we have never yet the reasonableness of the theory has been made and digestion, and the result of their combined

of fine pulverized saltpetre and one pint of alco-the care of a large extent of orcharding, and who had always been an advocate for spring pruning, recently spent an hour with us among the apple trees, where some of them had been pruned at will be found excellent for taking grease spots all seasons of the year, and after a most careful examination of a large orchard, he confessed that he had, undoubtedly, been in error, and should prune no more trees in the spring.

You ask, "If we cut off a branch in the spring, before the leaves expand, do we not save the sap number of the Farmer, a communication from for that which remains? Certainly not,-no more than you would save a man's blood to strengthen the rest of his body by cutting off one of his arms. It ought to be remembered that all grafted or budded trees are in an unnatural or artificial condition, and that pruning is only another step away from nature. We prune because branches cross and chafe each other, or because we fancy there are too many of them, or that the tree may be made, to our eye, with a litleaves expand, do we not save the sap for that the exercise of art, more symmetrical in its form. which remains? Can the tree be in as good con-But in all this there is danger to the tree, so that if we prefer to indulge our taste as to the beauty of the plant and quality of its fruit, we ought to study the nature and habits of the tree we work inhaled through the leaves; why cut them off, upon, and learn, not only how our art shall be exercised, but when. We ought to learn what the condition of the sap is at various seasons, and what office the leaves perform in the growth of

Upon cutting into a vigorous tree any time afgave his apple trees a very thorough pruning last ter the frost is out of the ground, and previous to the 25th of May, a little eareful observation will convince any one that the sap during that period is nearly transparent and exceedingly thin and, limpid. It runs freely wherever a smooth, clean cut is made into the wood. This follows because the roots have taken up in abundance this watery substance, and the pores of the tree are open to allow it to pass freely through the stem and branches on its way to the leaves. It is not improbable that there may be a temporary expansion of the pores, for the very purpose of affording a quick and unmolested passage of the sap.

In this condition of the tree, what would be REMARKS .- We do, friend PUTNAM, condemn the inevitable consequence of cutting off a thrifty limb as large as your wrist? What is there to prevent the sap from gushing out at every one of the tubes or pores which you have cut off? It would be strange, indeed, if the sap should flow up to the wound and there stop, with all the

Having traced the sap along to the leaf, let us entered an orchard with an opponent of our the- see, for a moment, what its action is there. Acory, where we have had a careful examination of cording to Wood, a most accurate observer, its the trees and discussion of the subject, but what functions are exhalation, absorption, respiration

action is the conversion of the crude sap ab-This consists in the decomposition of carbonic sorbed from the soil by the roots, into the proper acid by the green tissues of the leaves, under the juice, for the nourishment and increase of the stimulus of the light, the fixing of the solid carplant, with its various products. This crude sap bon and the evolution of the pure oxygen. consists of water, holding in solution minute quantities of various kinds of solid and gaseous by which we might illustrate these points,—but matter derived from the soil. In its passage it seems to us that the careful reader will now from the root to the leaves its composition is see some of the physiological operations of the somewhat modified by dissolving the previously tree which he is about to prune. He cannot formed secretions, which it meets with on the have failed to see that soon after the middle of

abundant waste of the sap is given off to the at-ascends the stem of the tree and reaches the exmosphere, so that the remaining sap is reduced, tremity of every twig or branch, and that wheras it were, by concentration, and contains a great-lever any cut or rupture takes place in the pores, er portion of solid matter. It is much like the the sap will naturally run out. mis or skin of the leaf.

less little mouths on the upper surface of the leaf, stance under it, and pausing on the way and inthese mouths are opened by the influence of the cumstances, if a cut is made into the sap vessels light, and closed by its absence, and, therefore, sap does not run from it, because there is little 20 to 30 ounces of water daily.

ident that the plant must derive its nourishment covers it the first season! mostly from the absorption performed by the If, on the contrary, the wound bleeds, that is, ticed in your corn-fields many times, how rapidly kills the bark, and the tree eventually dies! the parched and rolled blades of corn will unfold upper exhales. Wonderful arrangement!

Respiration in plants is much like the breathly necessary. It is performed principally by the portant member has been taken away. leaves, and consists of the absorption of oxygen tion of carbonic acid. It appears to be going on and we think they will, if carefully considered. constantly during the life of the plant, and the just as the same deleterious acid is removed er correspondent on the same topic. from the blood of animals by breathing.

Digestion in plants consists properly of all I have noticed in the New England Farmer those changes effected by the leaves in rendering remarks made in regard to a blight, or large, the crude sap fit for the purposes of nutrition. black spots which come on the trunks and limbs

Several things present themselves to our mind March, varying a little with varying seasons-Exhalation is the process by which the super-the sap, then more like water than anything else.

perspiration in animals. It is to be distinguished | But when the sap has reached the leaves it unfrom evaporation; the latter depending solely dergoes a material change there,—the watery upon heat and the state of the air, and being, in particles being evaporated, and leaving it more plants, almost wholly restrained by the epider-solid. This now returns down the tree, not through the sap vessels where it went up, but This exhalation takes place through number- flows between the bark and the soft, woody subcalled stomata, similar to the pores of our skin; creasing the size of the tree. Under these cirexhalation can only proceed in the presence of or none there. The wound made at this season, the light. A sunflower 3½ feet high, was ascer- - say from the 15th of June to the middle of Jutained by Hales to transpire or send off from ly,-should be covered with wax, shellac or paint, and the returning sap, now passing down directly Absorption is chiefly performed by the roots of under the bark, will push out the new, green bark plants, but when the roots are imperfect, it is ev- around and over it, if not too large, and entirely

Every one knows how plants, when the sap runs out, it flows down the outside of the parched and withered by drought, are raised by limbs or trunk of the tree, undergoes a chemical a shower which does not reach their roots, but change as it becomes exposed to the atmosphere. only moistens their leaves, as you must have no-leaves long, black lines on the surface which some

It may not be that the tree perishes from this themselves and assume a lively green, even un-poison alone, but from the want of proper action, dera slight shower that could not reach the roots. as in the case, sometimes, of the amputation of The under surface of the leaf absorbs, and the an arm, the muscles on that side contract, the chest falls away, and in some instances the lungs are seriously affected; and this results, we suping in animals. It is equally constant and equal- pose, from a want of proper action, after an im-

It seems to us that the reasons now given for from the atmosphere, accompanied by the rejec- June and July pruning, ought to have weight,

We have occupied considerable space in reply result is the removal of a certain superfluous to our correspondent, because the subject is one portion of carbon, in a state of combustion with of importance to the farming interest. We give. oxygen, from the nutritive substance of the plant, below, an article long since received from anoth-

BLACK SPOTS ON APPLE TREES.

of apple trees. I have observed these black spots short time, but don't put in but very little salt, or some years. I have asked many farmers the (not half enough,) and then don't let the curd cause of them, but I found that they disagreed stand long enough for the whey to drain off, but respecting their origin, and the information re- hurry it into the press as quick as you possibly ceived from them did not satisfy me.

apple trees, where the bark dies, are very injuri- tend to taking it out-and my word for it, if you ous to the health and longevity of the tree; they don't have a porous cheese to your satisfaction,

ble, and are often ruinous.

have not been able, as yet, to satisfy myself as made without time and care. to their origin, but am desirous of information on the subject. The way I manage them is thus: I pick off the old, dead bark clean, then if the live bark has not begun to grow over the wood, I take my knife and pare off the bark on the edges till I find the bark alive and healthy. As the tree or limb grows, new bark will continue the Washington correspondent of the Daily Adto form on the edges, and increase on all sides vertiser, the leading provisions of Mr. Morrill's till the whole space is covered. If the old bark Land Bill, that the reader may see for himself is not removed and the edges of that bark on the blight pared off till new and healthy bark is what the bill proposes to do, and what are some found, it takes a long time for the spot to be covered over with new bark. During the time the if Massachusetts accepts the provisions of the act, new bark is forming, I keep the wood painted she must erect one college, at least, within five thoroughly, being careful not to let the paint touch the bark. If the wood is not kept painted, it very often occurs on trees not in a thrifty condition, that the wood decays so much where these purchase lands for sites or experimental farms, black spots are, that the bark never grows over beyond the sum of ten per cent. of the interest the spots and then the wood continues to decay accruing on the money she obtains from her till the limb breaks off, or if it is situated on the trunk of the tree a bad hole is made which eventually destroys the tree. So far as I have been able to observe these black spots, they come on tendence of the lands, previous to their sales," the upper sides of the limbs and on the trunks and when she has made the sales and got the of the trees on the southerly side generally.

APPLE TREE.

For the New England Farmer. WHY IS CHEESE POROUS?

MR. EDITOR:—I noticed in your January No. of the monthly Farmer a request of a "New Subscriber," that you, or some of your readers would The amount of land which Massachusetts could inform him of the cause of porous cheese. I would most gladly give him all the information bill, would be 260,000 acres,—and this immense in my power, especially as he hails from the Green Mountain State, my own native place. I tract of land must be guarded from invasion by cannot but express my surprise, if he was raised squatters, managed, superintended, sold, and the in that far-famed cheese-making State, that he money for the same securely invested so that not should not have learned in his childhood, from a shilling of it shall be lost! It is scarcely probhis own mother, the cause of porous cheese. But to remedy his condition, let him visit some go-ahead farm-house wife, who is in the habit of do- party, but in the course of time, to actual settlers, slam; who frequently does her washing, ironing, some twenty-five or thirty years might be occubaking and making cheese in a day, and gets it all done in season to go a visiting in the afternoon,—and when he sits down at the tea-table, if he does not see a plate of porous cheese, it is because there is no cheese of any kind on the table.

can; then let it stand in the press until it is These black spots on the trunk and limbs of pressed enough, or until you can conveniently atform blemishes which are exceedingly disagreea- a slice of which will stretch out by pulling it at each end, like a piece of India rubber, as long as If the cause of these blights could be ascer-tained, possibly a remedy might be applied to into its original dimensions. The world was not prevent their occurrence. I acknowledge, that I made in a moment, neither can good cheese be

East Plainfield, Vt., 1859.

MR. MORRILL'S LAND BILL.

We copy in another column, from a letter of share of the lands sold! She must also incur "all the expenses of management and superinmoney, she must invest it so as to establish a permanent fund, and if all, or any portion of it, "by any action or contingency, be diminished or lost, it shall be replaced by the State to which it belongs," so that the annual interest only can be applied, to promote the interests of agriculture. claim if she should accept the provisions of the able that all this land could be sold to a single ing all her work in a hurry, with a slat and a one hundred acres at a time, so that perhaps babies compared with it. Think of the \$5 per To make porous cheese, in the first place, diem, hotel charges and travelling expenses from heat the milk very hot, not scald it, then throw in the rennet; be sure to get in enough, and if you want a very porous cheese, put in a great ahuila, or some other equally enlightened and deal too much, so that it will come in a very promising region, that would pour out its treasmen, and all for the benefit of agriculture!

All this may be of benefit to the new States, where a college has never yet been established, would be considered a sane man, who invariably though we must confess that we cannot clearly chose from his seed the very poorest and most see how. But in our judgment, there is not the imperfect, to carry on his operations of raising slightest probability that Massachusetts, through fruits, vegetables and grain, save and excepting any legislature she may convene for forty years the potato? to come, will avail herself of the provisions of cussion, whether the potato was a garden or field this act, and place herself under its obligations. vegetable, the directions for propagation were, We would publish the whole bill if we had room, but beg the reader to read attentively those portions of it that we now give.

For the New England Farmer.

MATTERS WORTH CONSIDERING ABOUT POTATOES.

MR. EDITOR:-If your patience is not already threadbare, I should like to be heard on the subject of the knotty and vexed question of the cause and remedy of the potato rot. And I promise to adhere strictly to Caleb's rule of never offering The only wonder is, that disease did not take an argument that "did not stand to reason." them sooner—seven months' growth is all that Neither would he believe one that did not have has continued them to this day. this support to it-would that we all had the gumption of simple Caleb.

Ireland by Sir Walter Raleigh, to Virginia, when ica, but how have we treated it? God knows we it was first colonized, which was about the year have followed in the footsteps of our illustrious 1585; and subsequently it was carried to Eng- ancestors, by generally selecting the very smallland, where it met with no great favor for many est tubers for seed, but with this exception, in-

of the Irish.

people have informed ourselves properly of its culture; and the more we know of that, the more reason we see to banish it the garden. It is hardy enough to bear the exposure, and it requires end is always watery. no great change in the culture; why then should we limit it to the garden? every particular speaks occasional disease of the potato, it would be for its being given into the hands of the farmer, strange, as our seasons are so short; but much especially when near large towns, though every- may be done to overcome this disease, if not to where there will be a great demand."

America. It is in a manner the food of the com- for propagation, and plant as early as our climate mon people of Ireland, and is cultivated in Lan-will admit, on a soil plowed not less than twelve cashire and some other parts of England, in vast or fourteen inches deep, sixteen would be better, quantities. Our interest is to make it more universal. Ten large potatoes is but a moderate years, would, in some degree, restore the potato produce from each small root that was planted in to its original growth and health. To effect the spring; when the ground is more favorable, thirteen or fourteen handsome ones; and in countting with the best possible exactness, in a field
feet, nine; with a plow that will go deep enough, of Mr. Ryder's, near Thorpe, where every need-and amongst the new varieties, there are some ful caution had been taken, we computed this that will turn the soil that depth. It is now but year, 1746, that there were in general eighteen a few years since I witnessed a plowing-match

ures through a small company of select gentle- have the right and privilege, where self-evident facts are not at hand, to resort to analogy. Now I would ask with all humility, what farmer is there, from Adam down to the present day, who

> In England, while the question was under disto choose for seed the very poorest and smallest of the whole family, the smallest of the tubers. This was the way our ancestors treated this vegetable, which was truly a great gift from God to man. And the only saving item in the direction was, that these little worthless tubers were to be planted the last of February, and by the last of September, they were as reported "on Mr. Ryder's farm near Thope." An increase of "eighteen large potatoes for every small one planted."

> And what was the first effect of this damning practice of poor seed? the curly leaf of the stalk, and an occasional diseased spot on the potato.

Now let us look a little at the question in our own country. We have obtained seed from time If history be true, the potato was brought from to time from England, Ireland and South Ameryears, supposing it only fit for the poorer classes stead of seven months, they were allowed only four or five months to give their increase. The In the "Body of Husbandry," printed in Lon-long, red potato was brought originally from the don, in 1758, I find the following:—"The potato La Plata, somewhere about the year 1795. I think may very properly be cultivated in fields. It is better fitted for the great extent and plain fashion of a field, than for the narrow compass and farmers. But who ever saw them ripen! It is divided beds of a garden. 'Tis but lately our true, they never had a season long enough in this

If this country is not always troubled with an "We had the plant originally from North first growth of the potato, the large and fair ones, entirely eradicate it. In the first place, select the large and fine potatoes for every small root that was planted. This for a seven months' increase is very great; but nature has in all things provided, that what is most useful, is most abunchance for a premium! Well, I walked over this In almost every subject that is discussed, we plowed ground with something of the feeling a

where he saw nothing but waste and destruction. in the other way, almost every one was injured

In selecting good seed, take the large and fair by retaining the skin upon the leaves.

Those of my apple trees, where I allowed the tubers that have had the full length of our season to grow in, which is always short enough limbs to come near the ground, I find stand the And it is to my mind a self-evident fact, that ripe cold better, and are not scorched by the sun and mature tubers are better for seed than those around the body of the tree. I also notice that half-grown and half-ripe ones, that are common- the lower limbs bear the largest fruit. ly used. Is it strange that potatoes raised under such circumstances, should not discover to the find that pens where a horse can put himself into microscopist a "mare's nest?" I believe, in every such a position as he wishes to, are more conduthing that has vitality, there can be discovered cive to health. The floors should be perfectly levin its very incipient stage of decay, myriads of cl, and should drain themselves by having herinsects so small that the microscope only could ring-bone gutters cut in them, as there is nothdiscover them, for life and mortality are inti-ling more fatal to the eyes of the horse than the mately blended together.

Let any man turn to the pages of the New England Farmer, and he will there find strong arguments from strong men that small potatoes are just as good, if not a little better, for propagation, than large ones; then, carry the analogy through, and banish the whole race of first-class animals, and say that "like does not beget like."

small end, the imperfect seed to his hogs, and most all my asparagus roots which were transsaves the remainder, should reverse the practice, planted in the fall of 1857 died; and that 50 and throw the best end to the hogs, and save the two-year old plants, set out the 27th of las' July imperfect top-end for propagation? How long in the same bed, grew well. I do not mention should we be able to exhibit our noble "King this supposing it the best time, but to show that Philip corn;" would it not soon grow into poor they may be transplanted so late, in favorable Indian? When I hear men talk of propagating seasons. from poor, green seed, I can't but think, and with your leave, I will say it, there are more many different persons, I thought a strong argugreen things in existence, than is good for the ment against fall transplanting, for probably progress of agriculture. ALFRED BAYLIES. Taunton, Jan., 1859.

For the New England Farmer.

APPLE TREES---HORSE FLOORS.

I like to read the discussions relative to manures. My experience in composting is this: Mix enough muck to take up the liquid; and bought the vines; and I send you a copy show-that under cover in summer, haul out in the fall. ing their replies in answer to the question, "Did During the winter, the frost working amongst it, their Hartford Prolific Grape vine live?" I think adds one-fourth in value. If more earth is added to the green manure than just enough to take up the liquid, I consider that the time employed is thrown away, for when put on the land it adds nothing to the fertility more than if the manure and muck enough to absorb the liquid is put on. The freezing and thawing pulverizes, thereby putting it in condition to be taken up by the roots of the plants. If you take green hog manure and plant on it, ten to one the seed will not sprout; but freeze and thaw it a few times so that it is fine, and there will be no trouble about germinating the seeds. The air, also, has a beneficial tendency upon it, penetrating and driving out those caustic qualities which are deleterious.

For most plants, manure ought to be more than one year old, and in a fine state. I find that in those places where old manure is used, when the plants begin to start, they grow more evenly. In planting squash and pumpkin seed, the last serson, those laid down flat in the hills did better than those planted edgewise; the firstl

man would have in walking over a battle-field, threw off the skin of the seed without injury;

I have done away with stalls for horses, and I ammonia generated under them.

Cape Elizabeth, Feb., 1859.

For the New England Farmer.

FALL TRANSPLANTING.

Mr. Editor:—I notice in the December nun What would you say of a man, who, in select-ber of the Farmer that a correspondent at Wareing his seed-corn, while he always throws the favors Fall Transplanting. It is a fact, that al-

The fate of the grape vines transplanted by so they were not all careless in setting them out; and the vines, I think, must have been good, or they would not have kept green so long. I saw all the vines; the roots had a great many small branches to them. It appears to me reasonable MANURES .-- PLANTING SQUASH SEEDS --- to suppose they would recover from the wounds, and start better in the spring, when the ground is getting warm and the plants waking up their energies for the season's growth. I had the list convenient, and have just been to the people who

LIST OF VINES AND RESULTS.
No. of Vines. Replies.
No. 1 Started late and grew a little.
" 22One leaved out a little very late, and the other
did not start, but the vine is still green.
No. 31Did not start, but stem is green.
" 41,Died.
" 51Started towards fall and grew a little.
" 62One died and the other started late and grew
about two inches.
" 71Died.
" 81Died.
" 9,1Died.
" 101Died.
" 111Died. (Mr. Chapin bought also one from same
nursery, this last spring, which started wel
and made a fine growth.)
" 122Ore died, the other grew moderately well.
" 131Died.
" 141Died.
" 152Both died.
" 161Died.
" 171Died.
" 182Both started late and grew feebly.
" 191Died.
" 201Died.
" 212Both died.
" 221Started and did pretty well.
TIT 1 CV TO 1010

Worcester Co., Dec., 1858.

For the New England Farmer.

THE HUBBARD SQUASH.

Mr. Editor:—I received last spring from Mr. Gregory, of Marblehead, who I believe has the honor of first introducing the Hubbard squash to public notice, one dozen seeds, which I planted in the usual manner of planting squashes, in a rich, loamy soil, just turned from the green sward.

From these twelve seeds, after the usual attention to weeds and bugs, I gathered eighty pounds of squash, which I suppose is quite above the average yield of the Marrowfat or Crookneck, in

similar localities.

It is, however, for another purpose that I write this. I wish to know if any of your numerous experimenters in these things have noticed that the Hubbard is less subject to decay than either the Marrowfat or Crookneck?

Several barrels of other kinds in the same celler have become rotten, while scarce a speck is

seen on the rind of the Hubbard.

I suppose fifty per cent. of Marrowfat squashes put into cellars or stalls for winter consumption. decay before they can be used or sold. If what has been true with me in this respect, is a general fact, it constitutes an important consideration in favor of this kind, making really fifty lbs. of the one worth seventy-five or one hundred of the other.

Hoping to hear from those who have cultivated more extensively than myself, and thanking Mr. G. through your paper for his favor, I remain, Natick, Jan., 1859. OLIVER N. BACON.

MR. MORRILL'S LAND BILL.

Washington, D. C., Feb., 1859.

The Agricultural College bill, introduced by Mr. Morrill, of Vermont, which passed the House any improvements and experiments made, with by a large majority at the last session, has run the roost and results, and such other matters as the gauntlet successfully in the Senate, and to may be supposed useful." become a law awaits now only the concurrence

the approval of the President.

donation of public lands to the several States for certainty of its passage. The amendments adoptthe encouragement of agriculture and the mechanical arts, in the proportion of 20,000 acres to each Senator and Representative to which they are now entitled. All States which contain they are now entitled. All States which contain they are now entitled. within their own boundaries the requisite quan-tity of public lands, of the value of \$1,25 per ditional grant of 20,000 acres for each Represenacre, are to receive them for the purposes of the tive to which any State may become entitled unbill; those States which do not, are to receive der the census of 1860 in addition to its present land scrip to the amount of their respective shares. number, but they do not, of course, make any The proceeds of the sale of these lands and scrip corresponding deduction for any diminution in are to be invested in stocks yielding at least 5 per representation which any State may sustain; and cent. annually, and constitute a perpetual fund-

"The interest of which shall be inviolably appropriated, by each State which may take and claim the benefit of the endowment, to the support and maintenance of at least one college, had a yearling that grew poor, and I could not where the leading object shall be, without exclud-help it. Its breathing became so loud that it ing other scientific or classical studies, to teach could be heard several rods. I thought it would such branches of learning as are related to agri-die. One of my neighbors told me he had heard culture and the mechanic arts, in such manner as that sour buttermilk was good. I procured some, the legislatures of the States may respectively and washed it from head to foot, and in three prescribe, in order to promote the liberal and days his breathing was very regular, and he was practical education of the industrial classes in as smart as need be. I had no more trouble with the several pursuits and professions in life."

Certain conditions are attached to these grants. to which the assent of the several States, by legislative enactments, is required. They are:-

That "all the expenses of management and superintendence of the lands, previous to their sales, and all expenses incurred in the management and disbursement of the moneys which may be received therefrom, shall be paid by the States to which they may belong, out of the treasury of said States, so that the entire proceeds of the sale of the lands shall be applied without any diminution whatever to the purposes mentioned."
That "any portion of the fund invested, as pro-

vided, or any portion of the interest thereon, shall, by any action or contingency, be diminished or lost, it shall be replaced by the State to which it belongs, so that the capital of the fund shall remain forever undiminished; and the annual interest shall be regularly applied, without diminution, to the purposes mentioned, except that a sum, not exceeding ten per cent, upon the amount received by any State under the provisions of the act, may be expended for the purchase of lands for sites or experimental farms, whenever authorized by the respective legislatures of the States.'

That "no portion of the fund, nor the interest thereon, shall be applied, directly or indirectly, to the purchase, erection, preservation or repair,

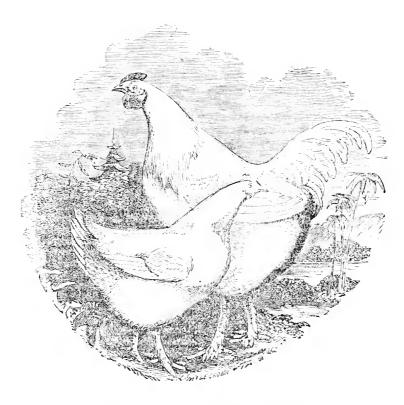
of any buildings."

That "every State which may claim the benefit of the provisions of the act shall provide, within five years, at least not less than one college, as described, or the grant to such State shall cease; and said State shall be bound to pay the United States the amount received of any lands previously sold."

And that "an annual report shall be made regarding the progress of each college, recording

Although the bill has been so long before Conof the House in one or two amendments, and gress that almost everbody is acquainted with its general purport. I have thought the foregoing In its original shape the bill provides for the minute recital desirable in view of the apparent they except mineral lands from the provisions of the bill.—Boston Daily Advertiser.

> LICE ON CALVES.—A number of years ago, I him.—Rural New-Yorker.



A PAIR OF WHITE SHANGHAE FOWLS.

years ago, and touched nearly every class of our the same amount of capital invested in any other people, in relation to the profits and various stock on the farm. breeds of poultry, has now subsided into the domestic economy.

without poultry, as there would be considerable flesh and eggs. loss in some of its products without it; and the more consequence than their actual value.

There will be no doubt about the profit of keeping poultry on the mind of those who keep strict pure White Shanghae Fowls. They are entirely accounts; that is, if they manage them judiciously. white, legs usually feathered. Their eggs are o. They do not need a palace, and will not lay any a nankeen or dull yellow color, and blunt at both more, or any larger eggs, in such a place than in ends. Dr. EBEN WIGHT, of Boston, a gentlea pen, provided the latter is light, dry and warm. man eminently qualified as a judge of poultry, They require a variety of food, both vegetable says of this variety:-These fowls are not slugand animal, and convenient places for laying, sit- gish or stupid; on the contrary they are intelliting and roosting, and under such circumstances gent and confiding, and are invaluable for the

The furor which passed over the country a few will yield twice or three times as much profit as

But it is not on the farm, only, where poultry "sober, second thought," and all are in a posi- yields the most pleasure or profit. In the city, tion to judge more considerately of what is pru-they afford the most agreeable "rural sights and dent and pleasant to be done in this part of our sounds," and have a happy influence upon the family, especially its younger portions, beside The farm, certainly, would not be complete the convenience and profit derived from their

We are not able to say which, of all the vafarmer's family, away from markets, could not ried breeds, are the most profitable, and shall be accommodated with the eggs and flesh of therefore introduce to the reader some spirited poultry, unless they are produced on the farm, engravings of several varieties, with such de-The convenience of these things is frequently of scriptions as we can give of them from personal experiences and the records of them by others.

The cut now introduced illustrates a pair of

among the largest coming from China, and as a mium, to designate from time to time what trees proof that they thrive well in this climate, he shall be reserved for timber, and the successful mentions a cock that at eight months old, weighed designated shall not be cut for any other pureight pounds, and that the pullets are propor-pose." tionably large. They are broad on the back and heart, with a body well rounded up; the plumage best conducted farm. white, with a downy softness; the tail feathers short and full; the head small, surmounted by a small, single, serrated comb; wattles long and e of a yellow hue, approaching a flesh color, ad feathered to the end of the toes.

PREMIUMS ON FOREST TREES AND FARMS.

of Agriculture has offered a premium of one thousand dollars for the best plantation of forest ment, verified by the oath of the competitor, will trees, and a premium of five hundred dollars for be required, containing an accurate statement as the best conducted farm. These offers are in to the management of the farm, with an account keeping with the liberal spirit which has ever in figures showing the results of the year's operbeen manifested by this association to promote the interests of the farmer. Its work is in the ty-first day of March following. All farms enright direction. It has given a stimulus to every tered for the premium shall be subject to the part of the State within the last five years, by its visits and inspection of the Trustees, or by others region of the purpose. No Trustee or officer of the Society will be allowed to com-Essays upon Manures, Agricultural Education and Market Fairs, and its aid to the State Board of Agriculture.

The offer of these premiums upon forest trees and farms, will probably be the means of setting a good many trees growing, and brush up and improve hundreds more by the examples of neatness, system and thrift which will be established are as follows:

1. A premium of \$1,000 for a plantation of forest trees.

"The above sum is offered for the best plantatation up to the time of giving notice. The pre- running of swine freely in the orchard. tually a fair supply of ship timber, in proportion been thrifty. to the number of acres planted The Society March 1, 1

purpose of raising chickens. He says they rank likewise claims the right, after awarding the precompetitor shall give security that the trees so

2. A premium of five hundred dollars for the

"The above sum is offered, in one premium, for the best conducted farm in Massachusetts, of not less than forty acres, taking into consideraide, overlaying the cheek-piece, which is also tion the mode of cultivation, farm building, breedge and extending back on the neck; the legs ing, selection and keeping of stock. Farms, devoted to market gardening, will not be admitted to competition. The Trustees reserve the right of withholding the premium, in case ro farm offered shall be considered worthy of it, and also of dividing it, in case no one farm shall be considered decidedly the best conducted. Notice of intention to compete for the premium must be given to the The Massachusetts Society for the Promotion Secretary of the Society, on or before the first day of April, 1859, accompanied by the payment of an entrance fee of ten dollars. A written state-

Por the New England Farmer.

WHEN AND HOW IS IT BEST TO TRIM APPLE TREES?

So many and such varying opinions are eximprove many farms that are now excellent, and pressed on this subject, that it is easy to find texts for any theory. But the question still recurs, which is the best way to trim them and what is the best time to do it? The best way of by these inducements to excel. We hope there trimming is to clear out all uscless and cumberwill be an active competition for the prizes. They some limbs, all decayed branches; all such as impair the form of the tree; always having regard to the peculiarity of its growth. Some kinds of fruit trees are inclined to form their tops by rising in a conical form, as the Pickman Pippin, for instance; while the Roxbury Russet tion of trees, of any kind commonly used for, and spreads out like an open umbrella-its branches, adapted to, ship-building, grown from seed plant- when loaded with fruit, bending to the ground. ed for the purpose, or otherwise, on not less than Regard, therefore, should be had to the kind of five acres of land, one white oak at least to be fruit expected to be grown. The most producplanted to every twenty square yards. Notice in tive orchard I have witnessed is on the farm of writing must be given to the Secretary of the Mr. E. Ware, of Marblehead, whose trees have Society, on or before January 1, 1860, of the inbeen growing in their present position about tention to compete for the premium, stating thirty years; their limbs now extend twenty feet where the land is situated, the nature of the soil, or more, and completely cover the ground. The and what has been done in relation to the plan-earth has been fertilized and pulverized by the mium will be awarded in 1870, in case the suc-fruit is large and fair, and the trees have suffered cess of any competitor has been such as, in the very little from insects or vermin of any kind. opinion of the Trustees, or of those appointed by them to adjudge the same, or give a reasonable probability that the plantation will produce even has been done upon them. They have always the string of the same of the sam

March 1, 1859.

MASS MEETING AT SUDBURY.

in the Town Hall, regularly called by warrant, to that flows in from the Cochituate lake, and thus, devise measures to call the attention of the Leg- in some degree, relieve their lands. islature to their overflowed lands, at which the selectmen were authorized to petition, com- er the water from the reservoir operates as injumence suits, or do whatever seemed desirable to riously now as it has heretofore? Mr. H., in reabate the evil. On Saturday, the citizens again ply, said it did. There is no diminution of damassembled, and were joined by persons from age. most of the neighboring towns. The meeting was called to order by Capt. WM. RICE, and believe that any remedy was at hand, they SAMUEL PUFFER elected Chairman, and J. would pour out their money to prosecute any PARKER FAIRBANKS, Secretary. After a brief lawful means of redress,-but they had suffered reference to the Town Meeting on Thursday, the so long, and the laws or charters were so unjust chairman of the Executive Committee of the and oppressive, that hope had become nearly ex-River Meadow Association was called upon to tinct. Still they were ready to act. Within his report what progress had been made in certain recollection he had known these meadows rented duties with which it had been charged. He sta- at the rate of ten acres for ten successive years ted that several meetings of the Committee had for \$1000! Now the same lands are a curse to taken place, that a large sum had been pledged the owner, and to those who live near them! to defray the cost of suits, printing, counsel, or Three years ago, he had great promise of a cranwhatever other expenses might accrue. He al-|berry crop, but the floods destroyed so many that so stated that word came to him from various he got but forty out of two hundred bushelsportions of the State, encouraging and urging on and this evil is now annual. Floods come upon the movement, because they say it exposes evils us when no rain falls, and the drier the time common in every part of the Commonwealth.

illustrated his point by reference to similar dam- for a Thanksgiving dinner! Five thousand dolage on Ipswich River, and of the attempted re-lars' worth of this healthful and valuable fruit is dress by the owners. He said the old Middlesex annually destroyed by these floods, and this Canal Company had enjoyed its privileges fifty source of income cut off from our people. years, and then sold them out to another party

and the diseases generated by their miasma.

known the meadows for seventy years—fifty years | floods, and scatter disease and death over the fair ago they were very valuable; then a horse could homesteads of our people. He did not believe be gallopped across them from shore to river in such charters-they appeared to him more bank. People often came from Framingham and like certain things that had been done "by the paid \$10 a ton for the hay that grew on them. divine right of kings," or the monopolies of call meadow that is nearly ruined.

a single dollar an acre now!

the people of Wayland petitioned in favor of the luded. He had not examined the charter of the

Boston Water-works, because they were told they The citizens of Sudbury had a meeting Feb. 3, would divert the water from the Sudbury river

Mr. E. Stone inquired of Mr. Heard, wheth-

Mr. J. P. FAIRBANKS said if the people could the larger the flood, so that on farms where Dr. J. REYNOLDS, of Concord, spoke of the they have gathered 500 bushels of cranberries a great depreciation of the lands in question, and year, they do not get enough now to make sauce

Mr. S. Brown, of Concord, said, annual losses, for a song, and sold out the rights of our citizens similar to those mentioned by the last speaker, were realized by most of the towns in the valley Col. DAVID HEARD, of Wayland, then gave a of the Sudbury and Concord rivers. He believed detailed and clear statement of the rise of one of that neither the Legislature nor the people of the dams at Billerica, and the reservoirs at Hop-|the county, were aware of their extent. He was kinton and Marlboro', and the immense damage told that two or three individuals were permitoccasioned by them in the depreciation of lands ted to cause these damages through the potency of certain charters-charters that cannot be re-Capt. WM. RICE, of Sudbury, said he had voked, though they swallow up your lands with There is a great deal of land that people don't Henry VIII. or Elizabeth, in conferring upon some favorite a monopoly of wine sales, or silks, Mr. THOMAS BATTLES, of Sudbury, said the or salt. If some blundering Legislature had conbest meadows, thirty years ago, were worth \$100 ferred privileges upon corporations inconsistent an acre, and that some of them cannot be sold for with the rights of others, a wiser one should take instant steps to correct the error, rather than by Mr. HGRACE HEARD, of Wayland, said, these unfair limitations cut off the people from every lands, in 1813, were worth more than the up-source of redress. He did not believe a single lands; that at the death of his father, the mead-|vote could be obtained in the present Legislature ows were appraised at as high a price as the best to grant such monstrous powers as were said to uplands with the buildings on them! He said be conferred in the charters to which he had alold Middlesex Canal Company, but was told by green fodder, sow a little thicker than when it is those who had, that it restricted the company to to be made into hay-and if for seed, do not no limits except those of the State itself, and that crowd it. it could traverse at will over any person's domain, wherever it saw fit to go! Mr. B. spoke consider this in reply to his inquiries. at considerable length on other points.

ecutive Committee was active, and had consulted means, but in a small and careful manner. There counsel. The town of Sudbury was ready to are a thousand idlers ever standing ready to get act-the selectmen had been authorized to employ counsel and prosecute whenever they thought proper.

Rev. Isaac Jennison, of Natick, said a meadow which he could have once sold to a gentle-|sults carefully. If it does well, continue it; if not man now present for \$90, he could not now give reject it. away to the same person! He wished the movement success, and was ready to expend time and money to get it.

Several other persons addressed the meeting with great enthusiasm, and after the passage of the following votes the meeting adjourned.

Foted, That the memorial now in preparation by the Committee, be signed by the Selectmen of the several towns on the river, and presented to the Legislature in behalf of these towns.

Voted, That the Executive Committee be authorized to print any matter that they may deem important to promote the

EXTRACTS AND REPLIES.

LEACHED ASHES ON A CLAY SOIL.

Will leached ashes benefit a clay soil? I make this inquiry because large quantities of ashes are lying in several places in this vicinity, and might be procured at a very low price, probably for drawing. AQUILA.

Feb., 1859.

REMARKS.—Leached wood-ashes are regarded as the most beneficial to clayey soils. The high temperature at which wood is commonly burned, price and measurement of milk, in your last pacauses a greater or less portion of the potash per. I had concluded we were some of the most and soda to combine with the silica, (sand,) and form insoluble silicates, which remain behind along with lime and other earthy matter when if we should patronize our milkmen faithfully, the ash is washed with water. These are just what the clay soil needs.

HUNGARIAN GRASS.

In your paper of the 5th inst., I noticed an article on "Hungarian Grass Sced;" will you please advise me at what season of the year it should be sowed; how much does it require per acre; is once sowing sufficient for more than one crop; what particular advantage will be derived from its cultivation, instead of other grass; in short, tell us all you know about it.

Charlotte, Vt., Feb., 1859. T. D. CHAPMAN.

REMARKS.—We are told by those acquainted with this grass that the same rules observed in sowing herdsgrass seed are applicable to the Hungarian grass, as to soil and season. From 12 to 16 quarts of seed are used, per acre.-Good land for herdsgrass or red top, is suitable instructed to report thereon. for this. If the grass is intended to be used for Jan., 1859.

"E. P. M—t, of Cambridge, Vt.," will please

We advise our friends not to be over san-Mr. FAIRBANKS was glad to learn that the Ex- guine about this new grass. Test it, by all a living out of the earnings of the farmer, and sing such syren songs as are apt to make too many persons think that all is gold that glitters. Sow a quart of seed this year, and note the re-

MANGOLD WURTZEL.

In a former number of the Farmer, I noticed a finely written article from Mr. French on the cultivation of the above root in Europe; from his speaking of their roots "running down to the bottom of a drain four feet deep," he, of course, refers to the long, fibrous variety. A friend of mine informed me, that in his tour through the sugar districts of France, a few years since, the Orange Globe variety was in high repute for the feeding of neat cattle; that it was considered vastly better than the tap-rooted, not only in being of a finer grain, but that it was harvested so much easier; from his recommendation, I obtained a few pounds of the seed, which was sown on my farm at Framingham with good success; my neighbor, an experienced farmer, was so much pleased with this root, that he now cultivates it in preference to almost any other root for his cattle.

MILK, PRICE AND MEASURE.

I was greatly rejoiced to see an article on the duped people in the world, for we are so fascinated with this milk fever that we believe away up in New Hampshire, forty miles from market, we were on the sure road to fortune. Many of our farmers are enlisted in the enterprise and all are losing money, every day. We do not know what quantity we are selling for a gallon, nor the consumer in Boston what he is using that he calls milk! A Subscriber.

Derry, N. H., Feb., 1859.

EQUALITY ILLUSTRATED.

\$12,000 a year is annually paid from the Treasury of the State for the support of experiments in culture, whereby the people of the State are sustained; \$60,000 a year is annually paid for sustaining the military of the Commonwealth, whereby their vanity is inflated, their morals deprayed, and their lives destroyed.

It is respectfully suggested that these topics be referred to the joint consideration of the House Committees on Agriculture and on the Militia—and that the great gun of the House be

CULTURE OF THE MANGOLD WURTZEL.

Was Mr. Leonard Wray's lecture on the mangold wurtzel, delivered before the Legislative the land to which it is applied? Agricultural Meeting in Boston, last winter, published in full, and if so, where can I obtain it?

ceeded in getting 1000 bushels and upwards to the acre; once I got 1500 bushels; once 3,337 bushels from three acres, 58 pounds to the taken up by the plants, covering their outer sur-Joseph Coe. bushel.

Rochester, Mass., 1859.

reported for our columns-we have not seen it let the fear of its exhaustive power prevent you in any other form. We have sent you, per mail, from using it. a copy of our May number for 1858, containing some things that may be useful to you.

BREAD AND SALT.

unleavened bread or cake, (mixing rather dryly days after they become lame in both legs they with cool or cold water, sometimes adding a litter die. My hen-house is built of stone, and the top tle dry snow for leaven,) and marking it off into roosts are about six feet high. The ground is narrow strips. I like it much. Think the marking into strips before baking an excellent idea,
and am much obliged to the doctor for his artito cat; they do not appear to be in any pain, nor

Query.—Does the doctor really believe that they die. the great fondness of man, and some other animals, for salt, is no evidence that it is a suitable article for use? A Reader.

OSAGE ORANGE HEDGE.

Will you, or some of your readers, inform me whether the Osage Orange hedge will grow and flourish as far north as the northern part of Sullivan county, N. II.? L. Richardson.

West Springfield, N. H., Feb., 1859.

Remarks.—It is quite uncertain whether the Osage Orange would answer for hedges as far orth as your locality-we think it would be better to use some other plant, your common hemlock, for instance, if you desire something of the character of the Orange. The hemlock is graceful and beautiful in itself, is hardy, of course bears pruning, and makes a tasteful and attractive hedge. It would hardly answer, however, for fencing.

DEMOLISHING ROCKS.

that would burn well. I now made and kept a of which he speaks. brisk fire upon and around the rock to be removed, and as soon as it was thoroughly heated that of friend Bacon, as I have practiced cutting to fragments. Oakland Grove.

Winchester, Mass., 1859.

WOOD ASHES.

Please inform me whether wood ashes exhausts Warren, Mass., Jan., 1859.

Remarks.-Wood ashes undoubtedly acts as On a farm I owned in Rhode Island, I suc- a stimulant in the soil—it probably acts upon the sand, even, making it solvent and fit to be face, stiffening and strengthening them so that they are able to stand up. In this way it makes REMARKS.—Mr. Wray's lecture was partially the soil act, and be useful to the plant. Do not

LAME HENS THAT DIE.

Will you inform me through your paper of the cause of the lameness of my hens? I have lost since last fall, from fifteen to twenty. In the first I was much interested in an article in your paplace they are taken lame in one leg, and in two per some time since, from Dr. Alcott, on the sub-or three days the other leg is lame, so that they iect of bread-making. I have repeatedly tried cannot go, and will lie down; in two or three do they grow poor, but are generally fat when

Raynham, Jan., 1859.

Remarks.—Cannot enlighten you—never have witnessed such cases.

A TURKEY CROP.

I have male turkeys that came out in June, that weigh twenty-two pounds; a lighter one, when dressed, weighed 17½ pounds, and a young hen-turkey, dressed, between eleven and twelve CHARLES H. STODDARD. pounds.

East Brookfield, Mass., Feb., 1859.

A BIG PIG.

I slaughtered a pig nine months old, on the 24th inst., which weighed three hundred and thirty pounds. GEORGE HASKELL, JR.

Essex, Jan., 1859.

For the New England Farmer. "CORN AND COEN STALKS."

Mr. Editor:-In the weekly number of the Farmer for Jan. 22, an article appeared with the above caption. It seems that the writer of the In levelling a small hill, this winter, I exposed article referred to, has not succeeded to his mind some troublesome looking rocks. I exhausted in the new method of harvesting the corn crop, my small stock of patience in blasting, breaking, and for the very reason, as I believe, which he burying, etc., and then thought I would try fire has given, namely, that of cutting up the corn, and water. I collected a good quantity of brush, when it was half-matured, which would naturally weeds, leaves, in fact everything and anything give to the corn less weight, and the pale color

(it takes only an hour to heat a rock of about my corn to the ground, and shooking, for the last three or four tons) dashed on a few buckets of six or seven years, and without any of the sericold water and to my delight, saw the rock fall ous objections which "W. B." mentions. I believe in the proverb, that there is a time for every thing, and that the time for cutting up corn

to shook, is after the ear becomes well glazed, or in other words, after the stalks are fit for topping. Corn cured in this way, is not only sweeter for bread, but the fodder is worth one-fourth more, at least, than when left to the exposure of the atmosphere. I agree with "W. B.," that, the idea of raising corn is for the grain, but if I can get the extra grain, (as I think if he would take the pains to inquire of those who grind my corn, they would tell him it was second to none,) and the extra fodder, I have secured a greater amount of good, than he who lets his fodder stand and bleach in the field until it is nearly worthless.

If friend "B." will try my way, I think he will meet with better success, and be able to have his "old-fashioned golden puddings again under the A. W. PUTNAM. new innovation.

Sutton, Jan. 24, 1859.

For the New England Farmer.

EDUCATION AND EMPLOYMENT OF YOUNG MEN IN THE COUNTRY.

MR. EDITOR: -The education and employment of young men in the country is closely connected with our agricultural interests. It is evident that our country towns are losing their population for the reason that our young men leave them for the purpose of gaining a popular education, tending to fit them for any other purpose than the farm. I do not wish to cast reproach on the cause of education. But would it not be better if our institutions of learning were so constituted as to turn the minds of some of their pupils to the pursuits of agriculture? Should not our schools be made manual labor schools; schools which will fit young men for the tion as it is, I think our young men may, if they cutting the stalks, and I then knew of no better will, furnish themselves with a good practical agricultural education.

Your readers may say that I desire to make have found a better way. all our young men farmers; but not so. We As it regards cutting stalks, I think they will pleasant and prosperous future. W. M. L.

Sullivan, N. H., 1859.

BOTH SIDES.

A man in his carriage was riding along, A gaily dressed wife by his side; In satin and laces she looked like the queen, And he like a king in his pride.

A wood-sawyer stood on the street as they passed; The carriage and couple he eyed; And said, as he worked with his saw on the log, "I wish I was rich and could ride."

The man in the carriage remarked to his wife, "One thing I would give if I could-I'd give my wealth for the strength and the health Of the man who sawed the wood."

A pretty young maid, with a bundle of work, Whose face, as the morning, was fair, Went tripping along with a smile of delight, While humming a love-breathing air.

She looked on the carriage; the lady she saw, Arrayed in apparel so fine, And said in a whisper, "I wish from my heart Those sating and laces were mine."

The lady looked out on the maid with her work, So fair in her calico dress, And said, 'I'd reliuquish position and wealth, Her beauty and health to possess."

Thus it is in the world, whatever our lot, Our minds and our time we employ In longing and sighing for what we have not, Ungrateful for what we enjoy.

We welcome the pleasure for which we have sighed, The heart has a void in it still, Growing deeper and wider the longer we live, That nothing but Heaven can fill.

For the New England Farmer.

EXPERIMENT IN HARVESTING CORN.

I beg leave to differ from W. Bacon on this farm as well as for a profession? I think they subject. I well recollect in my early days that should. But considering our means of educa-corn, where I then lived, was harvested by first way, that being some fifty years since, in the town of Winchester, N. H. Since that time I think I

must have teachers, competent teachers, and a no more than pay for the labor; if the field is liberal supply of them. We must have professional men; but one-half of the number which we them out of the field to set up to dry. I think I now have, and those of the right character, would should do quite as well to cut hay at the halves. be far better than the present number. More of Should there come a hard frost before the corn our people should be practical farmers. I am a gets fairly ripe, it would be much injured. In farmer's son myself, and I appeal to those of my this vicinity, we usually have a hard frost on class in New England, if it would not be better or about the 20th of September. If the stalks for more of us to obtain an education preparato- are cut soon after the corn begins to glaze, as ry to a farmer's life, than for so many of us to has been the practice with some, it lessens the strive for a profession. There is another thing corn one-eleventh part from that of letting them which tends to decrease the interest in agricultule on till ripe; it also leaves the corn more exposed to cut off the tops, than it would be with ing the farm in pursuit of more fashionable life them on, should there be a frost before the corn in cities and large country towns, leave the dis- was ripe. If it stands till it would not shrink in graceful work of farming, as they call it, and re-drying, it would be bad policy to first cut the pair to a clerkship, and for a year or two work stalks, because it is more work than it is to cut merely for their board, rather than stick to the all up together, and you save only about one-farm. Let us strive, one and all, to alter this fourth of the fodder, and not the best part, for state of things; let us set our hearts and hands that which comes up at the roots last, called to work, and soon our barren fields will be culti-suckers, is much the best, being the greenest and vated, our decaying pastures clothed anew with richest. In cutting up the corn and stalks tograss, and New England may look forward for a gether, there is a great saving both in time and value of both corn and fodder. At the price hay is selling for here now, \$13 per ton, and as the

fodder growing on one acre of land where the corn will yield 50 bushels per acre is worth one ton of good hay, we gain some \$12 or more in harvesting of one acre of good corn, over that of cutting the stalks. I know not why a dollar's Bees, by Mr. K. P. Kidder, of Burlington, Vt., worth of hay or corn fodder is not as good as a containing 175 pages, and illustrated with severdollar's worth of corn.

All grains are better to be harvested while the sap is in the straw or stalk, and I know of no one in this section of country that questions this theory, millers not excepted; it is much more delicious and rich, and makes the best bread. I have experimented some few times by letting six rows stand, for the purpose of seeing the difference, in hopes that it would dry off best by standing uncut on the hill, while the rest of the field was cut and bound, and well set up, and in each and every time, that left standing was not as good, was not so yellow, and had much more poor corn, and the fodder the same as lost, hardly worth cutting up at all. In cutting up corn, care should be taken to see that the butts are laid down, so that the bundles will set up well. Bind of the size to have six bundles make one bushel of ears when husked; set six in a stack, two abreast and one at each end, tie the tops together, and they will cure well In this way, I harvested my corn this last fall, and it is most bountiful, not one-fourth of a bushel but what is fit to grind for family use, and now weighs 64 lbs. to the bushel. My stock eat the fodder as well as they do good hay. I saw one old gentleman last September cutting his stalks. I inquired of him why he cut off the tops instead of cutting up at the roots? He said he was brought up so.

Roxbury, Vt., Feb., 1859. A. L. Brigham.

> For the New England Farmer. POTATOES FROM SEED.

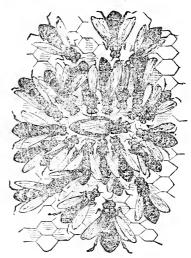
Mr. Editor:—Seeing a piece in the Farmer for January 15th, from "S. S.," on raising potatoes from the seed, I thought I would send you my experience in that line, as it has been more satisfactory than his. In the year 1855, I found some very nice looking balls on the tops of a variety known here as the "Late Early Blue." I saved a few of them and planted the seed the joyment of salaries, are almost the only men who season following, and two or three weeks after, the plants made their appearance, and grew very slowly all the season. I obtained enough pota-in the Transactions of one the County Agricultu-These were about the size of walnuts.

Those produced this season were most of them degree upon the energy and good management large enough to cook. I have cooked some of of those engaged in it. That farming is an exthem several times, and they are very nice, fine ception to the universal rule in all other business grained, sweet, but not mealy; which I suppose -that it can be made remunerative without the yet, as it takes about seven years for that, I am one pretends. We have yet to learn an instance, told. They seem to be no particular kind, but moreover, when it has been thus properly carried possibly the qualities of various kinds. Most of on for a course of years, in which an ample and them are long, with very deep eyes. Some of generous reward has not been returned for all them are black, and some like the Early Blue; the labor and expense bestowed. And what but others look like the Early Blue in color; others farming has transformed the whole face of this are yellow. There were various kinds growing near those from which I took the seed. I have What, if not farming, has fed, and clothed, and found none of them affected by the rot.

Yours for improvement, Keene, N. H., 1858. A. H. KINGMAN.

KIDDER'S GUIDE TO APIARIAN SCIENCE.

This is another new work upon the Culture of al engravings. In the cursory examination that



we have been able to give it, we find nothing remarkably new. But the directions for hive-making, for swarming, tending, &c., seem to be useful and clear. We have no doubt the book will be a useful one to the bee-keeper. Mr. K. is unquestionably devoted to his calling, and determined to understand it. The little cut we have introduced, illustrates a page of his pamphlet circular. His book is for sale at the bookstores in Boston. Price 50 cents.

PERHAPS WITTY, BUT NOT TRUE.

"Agricultural editors and professors, in the enthink farming profitable."

The above is quoted from an essay published toes from them to plant three hills, last year, ral Societies of Massachusetts. It is as discred-(they were about the size of hazel nuts.) from itable to the taste of the writer, as it is without which I got enough to plant thirty hills this year foundation in fact. The profits to be derived from any industrial pursuit, depend in a great is owing to their not having come to maturity care, economy and skill requisite elsewhere, no schooled the masses of our people,—constructed our academies, colleges, churches, and public buildings,-yes, and built up the greatness of

our cities, by supplying them with fresh blood, and brains educated by its profits, and unweak- manure you can spare in the fall and plow it unened by their cares and dissipations? Agriculture is the immediate sire of commerce, and the wealth of the merchant finds its first sources in the wealth of the farmer. It is quite time such sneering assertions were discarded. Can the writer of the above-can any reader of this paragraph-point to a county or town which does not number more or less of those who have made farming sufficiently profitable for every legiti-mate human wish? Farmers should respect who are honestly and earnestly endeavoring to aid them in rendering it still more productive, and its followers still more worthy of its high position, should be recognized as beyond the aim of so weak at attempt at ridicule .- Country Gentleman.

For the New England Farmer.

HOW TO TREAT EXHAUSTED LANDS.

Mr. Brown:-I have 30 acres of mowing land, a light sandy loam, nearly run out. I proaeres of it this season to corn. I have only manure for half of this quantity, and think of trying guano and plaster for the other part, and wish to know the best mode of applying these fertilizers, never having used them. (a.)

After the corn is off, how shall I proceed to

get the land back to grass? (b.)

I also want to enrich and re-seed 10 acres more. Can I do it to advantage by sowing buckwheat or clover, and plowing in and seed down in the autumn? (c.)

purchase fertilizer? (d.)

My object is to get the land back to its former condition as soon as possible. The farm has not been occupied or carried on for three or MIDDLESEX SUBSCRIBER. four years.

 $F \epsilon b., 1859.$

Remarks -(a.) Some persons spread guano broadcast where the land is naturally moist, and derive considerable benefit from it for one or two killing the young corn. If the kernel touches attention of farmers in other parts of the State. the tender shoot reaches the guano, it is death farmers should do. to it.

by the quickest method, you can cultivate the purchased a bushel of spring wheat, and sowed corn field level, sow grass seed after the last hoe-three pecks of it, on half an acre of good corn ing in August, and rake it in or work it in at the land, and raised twelve and a half bushels of exhoeing, if there are not many weeds. This is a cellent wheat. I sold eleven dollars worth of good way, because the corn shades the tender grass a little, and assists it considerably, if the ly manured. The manure was plowed in four season is a dry one. Where this is done we inches deep. After the wheat had nearly covthink it better to "cut the stalks" and let the ered the ground, I sowed on it ten bushels of sun in after the grass is fairly started. When sakes. The crop was 27½ bushels. The third the corn is removed it should be cut quite close clay soil, but well-prepared. The crop was 47½ to the ground so that the stubble shall not be in to the ground, so that the stubble shall not be in bushels of as handsome wheat as I ever saw. the way of the scythe.

But if you do not like this mode, add what der, cross plow in the spring, and sow with wheat and grass seed.

(c.) Plow, and harrow once, then manure with guano, 500 pounds per acre, if you can spare the money for it, and if you cannot turn up less land -sow with clover or buckwheat, and when just going out of blossom, cut and let it two-thirds Farmers should respect dry, and then plow it under. If you turn it unthemselves, and honor their pursuit; and those der green, rapid fermentation will take place, throwing off the sugar and starch of the plant, its most important elements, and leaving comparatively little behind that is valuable. If dry, or nearly dry, when plowed under, fermentation and decomposition will be slow, the gases will be evolved gradually and absorbed by the surrounding soil, and enriching it for the plants that are to follow.

(d.) Under judicious management we think it pose, as it used to grow corn well, to put 10 will. The land has probably become exhausted of its vegetable matter, by frequent cropping, without much having been returned to it. Fill it with the roots of clover, or with its stems and leaves, or those of some other plant, then plow it deeper than usual, so as to bring up new earth that has not been exhausted of its mineral matter and you have a soil resembling that where a forest has just been cut off.

The object of gain sought must be, the restor. Will it pay to put in rye, barley or wheat, and ing the land, filling it with vegetable matter, and not getting a crop. If the crop barely pays for the guano used and for the labor, it ought to be satisfactory. When the land is restored, it will yield profitable crops indefinitely, under proper treatment.

For the New England Farmer.

GRAIN CROPS.

Mr. Editor:—I send you some extracts from years. This is the easiest and cheapest way of an essay read by Mr. Charles A. Hubbard, applying it. If put in the hill, there is danger of ing of the 10th inst. I think they are worthy the the guano it will not sprout—if it sprouts and Mr. H. is doing just what hundreds of other

"Wheat is but little cultivated in this section, (b.) If you desire to get corn land into grass but I have raised it to some extent for the last four years, with fair success. Four years ago I The straw I estimated at three tons, worth twelve

dollars a ton. I consider it worth two-thirds the Beurre d'Aremberg. On warm soils, the Beurre amount of English hay. Last year, I sowed 11 Diel beats it "all to pieces." Ditto, ditto, the acres. The product was large in straw, but owing to the wet weather, the kernel was not as some localities, but not reliable in all. The fair as usual. I am satisfied that I have been Beurre d'Anjou promises well, but is not as yet amply repaid for my experiments in raising fully tested. The Lawrence is a good fruit, but not wheat. I have bought but little flour the past in all cases a good bearer. In my judgment, the four years. I usually get five bushels ground at Beurre Clairgeau deserves a place among the a time. This will fill a barrel with flour. Then "first six" in preference to any named by Mr. there will be a bushel of second quality, which wilder, except, perhaps, the Bartlett and Urbanmakes excellent warm bread, a half a bushel of iste; while the Louise bonne de Jersey ought to Graham flour, and the shorts or bran. The seed take precedence of all except the Bartlett. I prepare as follows: First I soak it 24 hours in strong brine, and then roll it in lime. Wheat I should strike out the Merriam and the Onon-I consider the very best grain to sow with grass daga (or Swan's Orange,) and retain the others, seed when I wish to seed down to grass."

Jos. Reynolds. Yours, &c.,

For the New England Farmer.

HON. MARSHALL P. WILDER ON PEARS.

I notice in the proceedings of one of the recent agricultural meetings at the State House, back again upon the pear-it is impossible to that the Hon. MARSHALL P. WILDER gave a list say; but the fact is "patent upon its face." The of those varieties of pears which he deemed best improvement is certainly an important one; for suited to the climate and soil of Massachusetts. while the White Doyenne cracks badly both on No man can have a higher opinion of Mr. Wilder than myself. His efforts for the improvement occasionally on the pear, and on the quince is a of agriculture in general, and horticulture in perfect and most exquisitely flavored fruit, such particular, are worthy of all praise. His experi- as was the St. Michael in its palmiest days ence as a pomologist would also seem to give great weight to his opinions. Still, I must beg puts down among the "best six on quince," I to differ with his deliberately expressed judg-shall be better able to give my opinion of it, ment in regard to the varieties of pears best when I have raised the first specimen of the adapted to our soil and climate. And I think if you were to take the testimony of any number of been able to raise the first blossom of a Glout nurserymen in the State on the same subject, you Morceau, though I have practiced all the arts of would find no two of them were agreed in opin-persuasion now known to me. I think this pear ion. There are so many circumstances of soil, is generally voted a very shy bearer, and if Mr. position, culture, &c., which go to influence the Wilder has succeeded better with it than others, quantity and quality of the pear crop, that he I must believe it an exceptional case. The qual-who follows the advice of any one cultivator, will, ity of the fruit is admitted on all hands to be nine chances in ten, fail in his expectations.

The list of pears referred to, as given by Mr.

Wilder, is as follows:

Best Six-Bartlett, Urbaniste, Vicar of Winkfield, Buffum, Buerre d'Anjou, and Lawrence.

For Best Twelve-Add to the above, Rostiezer, Merriam, Doyenne Boussock, Belle Lucra-

tive, Flemish Beauty, and Onondaga.

Jersey, Urbaniste, Duchesse d'Angouleme, Vicar of Winkfield, Buerre d'Anjou and Glout Mor-

Now as to the Bartlett, the value of that pear is admitted. It is indispensable to every good collection. The Urbaniste is also a highly prized the agricultural press, as nearly as possible, the fruit, but on some soils it is, as every nursery-quality of soil on which the different varieties man knows, a shy bearer. The Vicar of Wink-have best succeeded. A "comparison of notes" field (its synonyms, Clion, Le Cure, mean the in this particular, could hardly fail to add to the same thing, for Clion was the name of the vicar common stock of knowledge in fruit-growing. I or curate of Winkfield, who originated the fruit,) am satisfied that there are several otherwise is a good bearer, and a handsome pear for the good varieties of pears which it is useless to atmarket; but so far from rightfully pertaining to tempt to cultivate on a clay soil, or where the the six best varieties, it ought to be set down as argillite is a predominating element. from second-rate to poor. I never tasted one of Somerville. these pears, that I considered first-rate; I have tasted a great many that were hardly fit to eat.

When we come to Mr. Wilder's "best twelve," if not "counted out" by those I have named. The Doyenne Boussock is identical with the Gray Doyenne, and in my opinion, is only a modification of the old White Doyenne or St. Michael. Any one who will earefully examine the wood, the foliage, or the fruit, must come to this conclusion. How this modification has been brought about-whether by budding or grafting on the quince, the thorn, or the mountain ash, and then the pear and quince stock, the Gray cracks only

As for the Glout Morceau, which Mr. Wilder

good.

But how is it that Mr. Wilder leaves out of his lists such pears as the L'Angelier, the Andrews, and the Beurre Gris d'Hiver Noveau? Either of these is a better pear, in my judgment, than one-half of those named in the above lists. So you see, Mr. Editor, that in the quality of pears, as in almost everything else, "doctors differ." Best Six on Quince Roots-Louise Bonne de My own practice is almost homæopathic, com-ersey, Urbaniste, Duchesse d'Angouleme, Vicar pared with that of Mr. Wilder; but my observation in regard to the pear culture has been

pretty extensive, nevertheless. I think much good would result, if those engaged in the pear culture would state, through

Somerville.

COLD WATER TO CURE SCALDS.—I placed a The Winter Nelis is a better fruit, and so is the large tub full of cold water, with plenty of ice in

it, by the side of a large kettle full of water, residence in England, he had paid attention to gested the propriety of using cold water baths there is hot water. The sooner cold water is applied after scalding, the surer will be the cure.-Ohio Cultivator.

SEVENTH LEGISLATIVE AGRICULTU-RAL MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

The subject for consideration was "Agricultural Markets and Fairs."

Ex-Governor George S. Boutwell occupied the chair; and stated in substance, that he had accepted the invitation of the committee to preside, with the view of assisting, rather than leading, the discussion. He would leave the last part of the subject to other gentlemen present. He had been acquainted with agricultural fairs, and would commend their adoption by the farmers of every agricultural town, as great benefit would result from them. They would furnish facilities for observation and comparison, which, from the nature of their occupation, they could not otherwise enjoy, and give them the same chances that manufacturers and others more fully enjoyed, and which were held by them to be so requisite and valuable. Such clubs would not conflict with the interests of county societies; on the contrary, they would assist them. They would operate in their effects like the meetings of which this was one. Education would have to be carried to the farmers, as they could not come to it with convenience to themselves, only as it was familiarly brought to the door, as it were, of their own experience. The State might do well to give some aid to the establishment of such clubs, as they would enable towns to compare their products, and prepare them to compete, by comparison, with other towns at county exhibitions, which too seldom showed what every portion of a county or district could produce, as they could be made to do.

Mr. RICHARD S. FAY, of Lynn, being called on to speak, gave his opinion concerning Market Fairs, which he held to be above fairs in importance, as they were, in reality, the true test of agricultural superiority. It surprised him that an

which was boiling very fast. I then rolled up the matter; and compared with the state of my sleeve above the elbow, and thrust it into the kettle of boiling water up to the elbow, then immediately back into the tub of ice water, letting in per acre for their lands, it appeared a mystemediately back into the tub of ice water, letting it remain a few seconds, then into boiling water ry. He had experimented somewhat during his again, repeating this process ten times a minute, residence in England, and found that prices of without injury or inconvenience, not even making living were just about the same as here-so my arm look red. From this experiment I sug-there could be no advantage to the English farinstantly after being scalded. I have practiced mer on that score. He did not labor as the farthe above remedy with entire success during the mers do here; so the benefit from his farm could last ten years. Cold water is always handy where not proceed from his individual dexterity. The price of labor was, he found, about the same in England as here; so there would be no advantage to the Englishman in that respect. The expense of keeping cattle in winter was no more there than here; so nothing prejudicial to us could arise from that item. Every farming district had a weekly market once a week, where a ready sale was always had for his stock and produce, at almost the London market prices and everything done in a few hours that the necessities of the farm demanded. There was the combination of the farmer and the merchant which gave the producer two profits, which we had not the advantage of. Besides, the English farmer, when he put his plow into the ground, always had something like a certainty (such was the fine condiion of his soil,) that he would have a particular amount of produce. If Massachusetts were divided into districts-(and these announced in the Farmer's Almanac,) and market fairs established in each, it would be no longer necessary that every farmer should waste his time in cattle jobbing, or his means in hunting up cattle, to be obliged to make a questionable choice, after all his labor-great good would result. According to the nature of the productions of a locality, farmers and others could go and buy and sell with an assurance of a market, or the best the market could afford, and in this respect he would derive material benefit. Dairy cattle, horses, oxen, sheep, whatever was the prevailing produce, could be found in all the perfection in which the district could produce it; and, moreover, according to the quality would be the price and the benefit. Mr. Fay described one of the celebrated Falkirk Tryots in Scotland-where flocks numbering many thousands were brought together from all parts of the country, and, in the aggregate, numbered hundreds of thousands, which were sold to be driven to other parts of the kingdom, and as much as \$500,000 left in payment thereof. Everything was done without higgling or trouble-with less effort than many farmers would have over the sale of a pair of oxen. In September and October, at the same place, English farmer could pay from \$10 to \$20 rent an 60,000 head of cattle were sold at each of the acre, and yet live so differently from our most fair days, with as much quietness and dispatch. prosperous farmers. In the course of two years It was not to be supposed that this could be imneed of.

opinion that those who established such fairs as farmer suffered at their hands. It was they who had been recommended would prove themselves demonstrated to the farmer that there was no the greatest benefactors of the farmers of New profit in his occupation; and the demonstration England. They would be found superior to all would continue until the forestallers were forethe shows, exhibitions and colleges that could be stalled by regular markets, and regularly remuinstituted. This being what he deemed an in-nerative prices. As a sample of the operations controvertible fact, the question arose prominent- of these parties, last fall—they made a raid into ly—how could they be brought about? The best the rural districts and bought up all the apples initiatory process, in his opinion, was, to let they could find at \$2 per barrel, and onions at every farmer lend his earnest personal influence \$1,50. Now the former were worth \$3,50 and to establish them. It was too true that farmers the latter \$3-and fast at that; but there the of both. It was impossible that a farmer, with fairs. produce to sell, could tell what was, or what was not, the market price of any description of it, so showing the value of intelligence to the farmer long as he depended on the dicta of these ped- - and especially that which associated itself with dling middlemen—who hindered the producer a proper market. The sentiments expressed this and the consumer from coming together and di- evening were precisely what every farmer should viding the profits of labor and purchase. Were entertain and carry out into practice, to the dismarket fairs established, a different policy would comfiture of the forestaller, who was the great be introduced; and it ought to be for the inter-public enemy, whether the producer or consumer in the institution of such fairs. They would con- of this class, Mr. Quincy said, when he was ricultural friends together, and see whether they it would avail. He looked on it as being the another party had been chosen by the State important matter. Board of Agriculture to present this matter to

but it was enough to point to the establishment there made no more profit on the sum invoced

itated here all at once; but were farmers willing of the Shoe Exchange, in evidence that great reto get up such fairs, they would find purchasers, sults could flow from small beginnings; and if and ready ones, too, and would learn to buy and proved in the case of the shoe business, why sell, a system of education they stood much in should farming be an exception? Mr. Dodge, paid his respects to the pedlers and forestallers CHARLES G. DAVIS, of Plymouth, was of the and exposed the disadvantages under which the not only frittered away their time in petty ped- forestallers had previously got advantage of the dling of small articles of stock, but also submit-producers. This should not have been; nor ted too freely to the interpolation of middlemen would it long be, were farmers only disposed to between him and the consumer, to the prejudice do justice to themselves, and establish market

JOSIAII QUINCY, Jr., made a humorous speech, est and advantage of both that they should join was concerned. As one phase of the operations vince the Massachusetts farmer of what he was Mayor of Boston, he was informed that more now in much doubt, that farming was a profita-than 6000 pounds of poultry were thrown over ble occupation; and that where system prevails the wharves into the sea rather than it should in working, buying and selling, it could be dem-be in the market and lower the price! He thoronstrated to be so. Mr. Davis wished every one oughly approved the proposition made to-night, present, when they went home, to bring their ag- and would give it his aid in every shape in which will refuse to sell to pedlers, and carry their pro-most important one that had been made in his duce to market on the market day; if they hearing, for a long time, and the public ought would so agree, they would soon realize the ben-to be obliged to the gentlemen who had spoken efits. He mentioned that Mr. Fay, himself and for the interest they had taken in this essentially

John Brooks, of Princeton, spoke in favor the community, with the view that it should be of home markets, and argued that they would be brought to speedy perfection, were such the pop-found the most profitable-although he was not ular wish; and if any objections existed against willing to be considered as an opponent of marthe proposition, he hoped they would be heard ket fairs. Perhaps they would do as well as was here—provided any objector was in the audience, anticipated. He was afraid that forestalling could Mr. Dodge, of Hamilton, (author of an essay be carried as well into a market as into a farmon the subject under discussion.) said, at the first yard; and had some belief that farmers were not glance into it, he thought there were more rea- so very ignorant concerning the proper prices of sons opposed than in favor of the proposition; produce as they were represented to be. Mr. but these were soon obviated by consideration, Brooks spoke of the system of English farming and the result of it was seen in the pamphlet in accordance with data which we fear has not which he had written, and which had been pub-been gleaned from a very reliable source, (as relished. He would not repeat his opinions here; gards arable farming.) to prove that the farmers

than they did here. He also showed from national statistics that the corn crop of New Eng-continued, and discussed next week; but arrangeland was more profitable to the farmer than that ments having been made for that meeting, the of Illinois to the producer there, as was also the suggestion was withdrawn. Next Monday, the raising of pork.

WM. J. BUCKMINSTER, of the *Ploughman*, was B. Loring, of Salem, is expected to preside. the next speaker. He made a defence of the farmers against the charge of ignorance of prices, and was interrupted by Mr. Davis, of Plymouth, who explained that the ignorance he had alluded to was that arising from the misrepresentations of forestallers. Mr. Buckminster proceeded to experiments from the Lunenburg Farmer's Club say that, while railroads, telegraphs and newspapers were so common, and so generally distrib-about the measuring of corn, shrinkage, &c., it may be well for every Club to contribute something uted, the explanation could not have its full bearing. Farmers were wide awake concerning prices, the same may be said of the cereals, that a man there could be no doubt; and if they did now may see in black and white the best kinds to use, and then make a mistake, it was no more than the and where they can be found. dealers did. As further proof of farmers knowthe proposal before the meeting; although he made in that branch of husbandry. hoped it would be found otherwise.

was constrained to believe that it was inevitably necessary that farmers should have some system

We trust the town clubs will receive something erwise, and there would be no longer depression, ing agricultural knowledge. increasing waste lands, and general prostration of the agricultural interest. If fairs would not suit, what would? for stimulation was essential.

ster, Dodge, Davis, and others. The latter gentleman incidentally showed, practically, in what might become were such fairs established.

It was suggested that the subject should be matter discussed will be "Drainage." Dr. G.

For the New England Farmer.

WORK IN THE LUNENBURG FARMER'S CLUB.

Mr. Editor:—The following statements and are at your service. As there is much to learn in regard to the different varieties raised, and

It takes a long time to determine what kinds ing what prices were, he found that he could not purchase some things at home—thirty miles hence the down on some that will pay the best. The -so cheap as he could do in Faneuil Hall mar-different breeds of cattle, too, are being tried, ket. Mr. B. spoke somewhat doubtfully about and it is expected that some discoveries will be

We think our Town Club has made some discoveries during the eleven years it has been or-Dr. LORING, of Salem, came here with some ganized, and we trust that the time has not been idea of opposing the scheme of market fairs; spent in vain. County societies may cut a wider but, after hearing the arguments pro et con, he swath on exhibition days, but the influence ex-

in operation for their better protection and stim- from the public crib in the shape of a few hunulation, and that the best means to adopt was dred a year; that, with what can be raised by the proposed fairs. Our farmers wanted a stimulus. They generally contented themselves with lank in a few years. Farmer's clubs are getting to be institutions which cannot be rubbed out providing for a twelve months' existence, but any more than the common school, and it is begive them market fairs and it would soon be oth-lieved they indicate the true mode of disseminat-

W. H. Jones, Secretary.

CYRUS KILBURN'S CORN CROP.

Mr. Kilburn said, the acre of land on whi h It belonged to the opponents of the proposal to my corn was planted was in pasture in 1857 and say what would substitute that scheme. Essex covered to a great extent with rocks and stones, county was determined to try it until a better and produced mullen, hardback, buttercup, moss was suggested, although her farmers were aware and other weeds; the grass very short and seant, of obstacles being in the way of their ultimate advantage. Every improvement in agriculture off the land; carted on about nineteen loads of had had its opposition, and this one could hard-green manure, spread and plowed it under with ly escape the same risk. For himself, he had no a side hill plow, harrowed and picked off the fear of its ultimate success, any more than he stones, furrowed the rows about four feet the had doubts of its benefits, or of their universality same way it was pioned, applied had doubts of its benefits, or of their universality acre of manure scraped from the barn cellar, ineluding the droppings from the turkey roost, put-Remarks were further made, touching on ab ting in about a pint in each hill. Planted about stract details of the discussion, by Mr. Buckmin-the 20th of May, with King Phillip corn, using the single corn-planter. Hoed twice, and let four plants grow in the hill; used a plow the first hoeing, and a plow cultivator the second. Cut up respects market fairs would prove beneficial-for and stooked the same on the last of September; that purpose taking a familiar view of matters husked about the middle of October, and had as they now stood, as compared with what they 125 baskets sound corn, weight 50 lbs. each, exclusive of the basket. 100 lbs. of the ears,

equal to two baskets, was laid in a box to dry, acre, and cross plowed; harrowed the second and on the 15th January, 1859, the ears weighed time and furrowed one way, aiming to furrow 841 lbs., and the shelled corn 70½ lbs.; measured four feet, but the ground being rough, there was on a sheet to dry in a warm chamber.

by committee.

A WHEAT CROP.

with corn the first of June. The crop did not It is a superior variety.

Remarks.—You ought to have stated the time shelled, 162, nearly. of sowing.

A CARROT CROP.

J. and J. T. Dunsmoor said, the land cultivated was a loamy subsoil, and contained 1384 rods. It had been a hop field for seven years previous to 1857; that season it was sowed with wheat, suggestions in the Third Legislative Agricultuand produced a good crop. In the autumn of ral Meeting, I noticed a discussion about importmentioned land, at a cost of \$75.

220 bushels.

A CORN CROP.

Joseph Goodrich said, my field contains 248 rods of land, by accurate survey. It was a piece of old pasture land that ferns, whortleberries, brakes and other small brush possessed, and never had been plowed until Dec., 1857.

563 qts.,—one bushel, 43 qts.,—equal to 78.68 much variation in width; applied about eight bushels by weight to the acre, and by measure, cart-loads manure to the acre, in the hills, which 71.77 bushels. The shelled corn was then spread were placed from two feet to two and a half apart. This manure was loam saturated with the drop-Feb. 4th, winnowed, measured and weighed pings of cows the summer previous. Flanted the the same carefully, without losing a kernel; mea-sured one bushel, two qts.; 63 4-10 bushels to four to six kernels to the hill. After the corn had the acre by measure; weighed 66 lbs.; 73 37-56 come up, and previous to hoeing the first time, a bushels to the acre, by weight; showing a shrink-spoonful of plaster was applied to the hill. It was age of 34 per cent. from the ear at husking time hoed twice, and oxen were used to plow the corn. to dry shelled corn. The corn stover when cut In August, a shower of hail did much damage up was quite dead; the ears were hard and dry, to the crop, as, at the time, the kernel was setmuch dryer than corn usually is when examined ting, which reduced it considerably. A short time previous to harvesting, a drove of cattle broke into the field and destroyed several bask-Martin Johnson said, my land was broken up ets of ears. The corn was cut up and stooked in the spring of 1857, and 400 lbs. guano mixed in the field September 25th, and stood ten or with places. with plaster, spread and cultivated in. Planted twelve days, when it was hauled to the barn and set up where the air could pass through it. In amount to much, as the corn did not ripen well, three weeks the corn was husked and two bushels of ears shelled, producing 43 qts., then spread In the spring of 1858 the land was plowed twice, els of ears shelled, producing 43 qts., then spread and 160 bushels leached ashes and 300 lbs. guano under cover where the sun and air operated upon the spread as dry as were spread and cultivated in. Two bushels of it ten or twelve days, and appeared as dry as China wheat were sown to the acre, and cultisame, and found the weight to be 72 lbs. Quantum and product as any as corn generally is in January; then weighed the vator used to put it in. The land measured 304 same, and found the weight to be 72 lbs. Quantum and product as any as a corn generally is in January; then weighed the vator used to put it in. rods, yielding 73 bushels, thresher's measure tity raised on the field, 241 bushels ears; weight of one bushel 36 lbs.; allowing 56 lbs. to the bushel, 154 13-14 bushels. By measure, when

For the New England Furmer.

NATIVE AND FOREIGN STOCK.

Mr. Editor:—In reading the remarks and the same year, 40 loads compost manure were ed and native cattle. Mr. Asa G. Sheldon, of put on and plowed in. In the following spring, the land was plowed and harrowed again, and the seed for the carrot crop was put in the 13th of April. Beds were made wide enough for four rows of carrots, and had the seed all taken, the yield would have been much larger. The variety sown was the Orange, and 800 bushels carrots the orange, and 800 bushels carrots for the premium. This heifer I relied and gave a control of turning ware taken from the above for the premium. This heifer I relied and gave a and 100 of turnips were taken from the above for the premium. This heifer I raised, and gave a brief account of her keeping till the time she was entered for the premium When one year old, she J. and J. T. Dunsmoor said, our field of pota-es contained 1174 rods on a real-sized model. weighed 650 pounds. When presented for the premium she was 17 months old, and weighed toes contained 1174 rods on a reclaimed meadow, 884 pounds. She was handsome, and with all the mud from three to four feet in depth. Plowed in qualities combined for a good cow; she is now the autumn of 1857, and harrowed thoroughly. In 22 months old, and weighs 1052 pounds. But the the spring, planted in hills three feet by two and committee never gave her a passing notice. The hoed once. The droppings of the sheep-fold premium was awarded for a heifer weighing but were used on this field, as it seems, to advan- 650 pounds, with a small sprinkling of foreign tage. Potatoes of the Davis Seedling variety, blood. Let the farmers take the same care of cut small, with two pieces in the hill, producing our native stock that they do of the imported, and in a short time our native stock will be far in advance of all others.

Westford, Mass, Feb. 15, 1859.

STRIKING CUTTINGS IN Moss.—The variety used is called Sphagnum; it is the long moss In May following, the land was harrowed and found in loose and wet meadows, sometimes used the loose stones taken off. I then spread about by the farmer in lieu of ice to pack outside of twelve cart-loads of green stable manure to the butter boxes when brought to market. In preparing this for rooting cuttings of plants in pots, it should be first thoroughly dried and then pulverized. After filling the pot they should receive a good watering before inserting the cuttings.

CONSERVATORY OF ART AND SCI-ENCE.

A meeting of about forty gentlemen representing the association of Agriculture, Art and Science, and various industrial, educational and moral interests of the city, was held February 18, at the Library of the Boston Society of Natural History. The meeting was organized by the choice of Hon. MARSHALL P. WILDER, as Chairman, and Dr. S. KNEELAND, Jr. as Secretary.

The Chairman stated that the object of the meeting was to take steps for memorializing the present Legislature for a grant of land belonging to the Commonwealth, in aid of a plan for a conservatory of art and science, and he invited the representatives of the different interests to state their views. A reading of the portion of the Governor's message, in which he refers to the value of the public land, and advises a certain disposition to be made of a portion of it, brought

the subject fairly before the meeting.

Hon. A. H. Rice gave a sketch of the rise and progress of education in this community, and ly an expansion of the common school system. He considered that some such plan as the one presented, for the enlargement and practical application of science in its various branches to the useful and ornamental arts of life, was impera-TURNIPS---ARE THEY WORTH RAISING? tively demanded as an educational measure.

middle ground between abstract science and its parative value of these two products for the feed practical application. Science, in the abstract, of stock? Neither of them will do well without must go alone, not hampered with any consider-some other feed-but when a proper quantity of ations of practical application, assisting, but not interfering with each other; the moment they My impression is that the corn will do very well. My impression is that the corn will do the best, are combined in the same association, science especially when the corn folder is properly must languish. Hence the importance of some ly used in connection with the grain-and when institution occupying the ground of an interpreter between the two, which he thought the plan be worth half as much as so much hay. I am proposed would do.

Mr. M. D. Ross said that the cause of the present movement was the fact that this unoccupied Back Bay land was in the vicinity of the city; in order to make valuable what now is

provement.

Prof. Agassiz, in relation to the Polytechnic School, said that such an institution, intermediate between trade and science, was vitally important; they could not be combined in the same association—this he likened to the high schools, mary school and the university.

and meet a great public want.

Dr. A. A. Gould alluded to the frequency of such institutions in Europe, and thought they were imperatively demanded here.

J. D. PHILBRICK, Esq., President of the American Institute of Instruction, Gen. B. F. ED-MANDS, Mr. GEORGE SNELLING, ZELOTES HOS-MER, Esq., Mr. Alfred Ordway, Rev. Dr. MILES, W. E. BAKER, Esq., AMOS BINNEY, Esq., all spoke favorably and earnestly of the plan pro-

The Chairman remarked that a large space would be required for the exhibitions of the agricultural products. He alluded to the land bill now before Congress, which, if passed, would give the income of 220,000 acres of government land to Massachusetts to be devoted to an agricultural college, if the State would erect the building. Perhaps this income might be devoted to the furtherance of the agricultural department of this plan.

A committee, consisting of Messrs. Edmands, Ross, Baker, Wilder, G. M. Pratt, Samuel A. Gookin and A. Ordway, was appointed to prepare memorials to the Legislature in aid of the Natural History Society.

We regret that the crowded state of our coltraced the connection between education and sci- umns prevents us from giving in full the remarks ence, and the mechanical and fine arts; the high-of all the gentlemen who spoke. The movement est development of knowledge among us was on- is an excellent one, and we shall be glad to aid it in any way in our power.

For the New England Farmer.

The same land, with equal culture and manure, Prof. AGASSIZ spoke in favor of the plan, which he thought of great importance, as occupying the sixty bushels of Indian corn. What is the comespecially when the corn fodder is properly properly cured and dealt out, it will be found to pleased to see the inquiries of Mr. Brigham, of W., on this subject. He writes as though he knew a thing or two. There are many farmers who could answer these inquiries in a satisfactocity; in order to make valuable what now is ry manner, if they would. Might it not be well mere water, it must be developed by the citizens, to ascertain these things before another season must be used for the control of the contro must be used for some purposes of public im- of planting-and not go along entirely on the hap-hazard principle?

Feb.~13,~1859.

FORCING MELONS, &c.—One of the best methods we have found to raise early plants of the which are the necessary medium between the pri- melon and cucumber under glass, is to take sods from three to five inches thick, soak them some Rev. Dr. Blagden expressed his approval of twelve hours or more in liquid manure, and then any plan which promises to develop the rela-tions between science and art; such an institu-sert three or four seeds in each sod, where they tion as the one proposed, he thought, would elevate the intellectual standard of the community, can afterwards be transplanted with the sod, without disturbing the roots.

For the New England Farmer.

TOWN ASSOCIATIONS.

Mr. Editor:—I feel rather sleepy to-day, but not enough to prevent me from believing that you and others are striking the right key-note by advocating the formation of farmers' clubs and town associations. I trust that your State will move forward in this matter, so that Maine may follow after in the course of twenty years.

There are county societies throughout the State that give premiums, but these are usually received by two or three towns in the vicinity of the masses. the fair. The Androscoggin River runs nearly 50 miles through Oxford County, and may excellent farms its whole length, but they many excellent farms its whole length, but they a At a late meeting of the British Associated a Mr. Galton read a paper by Mr. J. Spotswood a Mr. Galton read a Mr. Galton 50 miles through Oxford County, and has very DECREASE OF WATER ON THE GLODIE. wilson. "On the General and Gradual Dessiceaties to the fair, and be on expense for two or three days, and perhaps return without a premitum. This is the case to a certain extent all over the transfer of the fair that those who had the case to a certain extent all over the fair that those who had the case to a certain extent all over the fair that those who had the case to a certain extent all over the fair that those who had the case to a certain extent all over the fair that those who had the case to a certain extent all over the fair that the fair that the fair that those who had the case to a certain extent all over the fair that the the State. What we want, is some plan matured in your State that shall equalize the benefits to be bestowed. Moving the fair about effects nothing. It seems to meather town about the changes of climate that appeared to have eccurred. There were purched and barren lands, inc. It seems to meather town about effects nothing. be bestowed. Moving the fair about effects nothing. It seems to me that town associations must be established for this purpose. Many towns in Waine now have their town fairs. We had one where large populations had been supported, but last year, as on previous years. The stock, neigh- where all was now desolate, dry and barren. in abundance. Committees were raised, and reitor a copy. Had we done it, the charm would ual solidifying of the equeous vapors, and consehave been broken. A few would have been sat-sified, the rest would have grumbled. We chose in which he inferred was approaching a state to give away these books, where we thought they in which it will be impossible for man to continue to give away these books, where we thought they an inhabitant. Yet, he added, we should feel sat-would do the most good. I acknowledge myself isfied with the prospect that the term of our ocan earnest advocate of the farmer's interests, but unation is not yet half expired. Rices precedthese interests need equalizing all over the country of which the change of existence and there was no ty. I admired the grit of a young man, a year reason to suppose that others would not follow. ago, when at a club meeting the expense of rais- Indeed, some of those that are destined to sucmeeting, he remarked, "I can show you next year that potatoes can be raised cheaper than that," and he did do it, by raising 1500 bushels the last year at one-half the expense estimated by some of his neighbors. He cared nothing about a premium.

You need, and so do we, a man to canvass the State, lecture and form clubs in every agricultural town. I have more faith in that agency, than in all the premiums the State can bestow. I would not overthrow the County or State societies; they would be the stronger, by the movement. Don't send a white-kidded gentleman among farmers, but an intelligent, practical, common sense man, such as will at heart sympathize with the farmer, and the work is done.

Now, Mr. Editor, I am fairly waked up, and will review what I have written. N. T. T. Bethel, Me., Feb. 18, 1859.

Remarks.—Glad you are awake, sir—wish there were ten thousand more in the same condi-

miums, as now awarded, and of big cattle shows, as now conducted, are nearly at an end. There must be more personal effort, and less show and bluster, and less talk for "Buncombe." You must go to the neighborhood or home of the farmer, and excite him there, among his neighbors-excite them all, once or twice, and then they will excite each other. Cattle shows, properly conducted, are well enough for some things, but they are spasmodic, and do not go deep enough with

son is obvious. It costs something to drive cat-wilson, "On the General and Gradual Dessicca-

After quoting largely from the works of variborhood teams, were very fine, and all the farm ous travellers and writers, (among the latest of productions, and the ladies' contributions were whom was Dr. Livings'en,) and giving interestin abundance. Committees were raised, and reports made, but without premiums. Everybody tracts of country in Australia, Africa, Mexico went home happy; yet we had, at the same time, and Peru, which had former'y been inhabited by State Agricultural and Patent Office Reports and refer, which had former y ocen inhabited by sufficient to have given every successful competing and property and sufficient to have given every successful competing and reference to the reference to t isfied with the prospect that the term of our occeed seem to be already in existence, and have their home in the icy sca, where they enjoy a cli-mate that exceeds man's endurance. Various considerations lead to the conclusion that the fitness of the earth for man may extend to a period much longer than that in which it has been occupied by him; nor will that term end till after the Polar bear, the walrus and the narwal have become inhabitants of the tropics.

For the New England Farmer.

SEA KALE.

I beg to say a few words upon the cultivation of sea kale, a vegetable of great excellence, and requiring but little care when a bed is once formed. It is perfectly hardy, grows on any light soil, requires no manure, indeed, it does better without it, and is perennial. It may be grown from seed or from the root, and fifty plants occupying a small space, will supply a small family. In its taste it resembles the cauliflower, and should be cooked in like manner, by boiling. tion. Your hammer strikes right, and hits the It comes in season a month before asparagus, nail on the head. The beneficial results of pre- and may, by protecting the bed with a heavy

coating of straw or hay, a practice always to be ted down and laid before the public, has probaand this is done by keeping the plants from the rers, and a hundred other like improvement. sun under pots, boxes or straw. The seed can By the way, I beg leave to differ from your be purchased at our seed-stores, or if not at all correspondent from West Needham, where he of them, at that of Curtis & Cobb, in Washing- says "there is no place more suitable for manure ton Street. Every farmer should have a bed of in winter than under the eaves of the south side this vegetable for his own use, and our market of the barn." He seems to think that manure gardeners would find nothing more profitable to made in a barn-cellar is too strong for growing cultivate. F.

EXTRACTS AND REPLIES.

POTATOES FROM THE BALL.

In the fall of 1854 I saved a dozen potato halls (all from peach blows) and planted them in a seed bed the following spring, from which I dug about two quarts of 'small specimens" of every conceivable shape and color. There are over thirty distinct varieties-some very poor and much which he wished to feed some garget, and to cut affected with the rot—others white, mealy and it used a hay-cutter, the one that they cut hay nice, and not much affected—some yield well, with for two horses; the result was, the horses and are good sized, others produce just enough got some small pieces of the garget, and they fer seed, and little, watery, soggy things at that. both died in a few days from the effects of the I have planted such as I thought to be the most poison. I mention this for the good of the pubpromising, and from my experience in the matter lic, as I think there are many farmers who do I am of the opinion that there will be a few among not know that garget is a deadly poison to them that will prove productive and profitable.

I raised last year from a bushel and a half of these potatoes, thirty-five bushels of sound ones, on ordinary ground, without taking any extra pains with them.

J. J. WATSON. pains with them.

Orange, Vt., Feb. 7, 1859.

HOW TO CURE KICKING COWS.

In last week's Farmer I noticed an inquiry by a subscriber in South Weymouth for a remedy for a kicking cow. I have had many such, and have used various remedies, I have sometimes put a would not have them wantonly killed. I cannot rope or small chain around the cow's body just agree with Mr. Page, that they deserve to be back of the fore legs, and with a small stick, twist it quite tight. Occasionally it does very well. If larger part, of currants, strawberries or cherries. the cow is not very bad, put a strap around the hind legs in the form of an 8, and draw it pretty tight. I had very good success the last season, in subduing some turbulent heifers, by applying a sort of ring with a spring to it, called a bull- for measuring round timber of any size or length, holder, to the nose of the animal, and drawing or scantling? A book that will tell or give the the head pretty high; after a few lessons they measure of any kind of lumber? generally give up. ABEL F. ADAMS. Fitchburg, 1859.

A COMPLIMENT—BOOK-FARMING—USEFUL MANURES.

ticles it contains of themselves are worth the text-books. price of the paper. I am not one of those who declaim against book-farming, but am willing to receive instruction from any source. It seems to me that book-farming and practical experience can be made to harmonize. Who, in reading some agricultural journal, has not had his attention called to some valuable muck deposit, or other material, upon his farm, which may prove a mine of wealth or a bank from which to draw in time of need, rather than from the purse to pay for adulterated manures?

Again, the success of our farmers carefully no- have a good memory!

recommended, be brought forward even in bly done much towards reclaiming that swamp, March. It is much better when it is blanched, underdraining this wet field, sinking those bould-

> plants—but where is there not a chance for mellowing it with muck, forest scrapings, leaves, or even saw-dust, if too strong, and thus increase the farmer's bank, rather than diminish it by soaking eaves and washing showers?

Pottersville, N. H., Feb., 1859.

GARGET POISON TO HORSES.

Last May, one of my neighbors had a cow to horses. A Subscriber.

Putney, Vt., 1859.

"SPARE THE BIRDS."

I have just met in Vol. X. of the Farmer, p. 306, a well-written article on this subject, which I refer to with the greatest pleasure, as it controverts the notions of Mr. N. Page, Jr., put forth with adroitness in the lately published transactions of the Essex Society. I admire to see the beautiful robin hopping and chirping about, and killed, because they pick a part, it may be the

RULES FOR MEASURING LUMBER.

Can you inform me where I can get a log-book

Marshfield, Vt., Feb., 1859. C. H. Lewis.

Remarks.—The Text Book of Modern Carpentry, published by Crosby, Nichols & Co., of this city, contains more that you want than any It is a paper which ought to be read by every other book we know. We find very little on the farmer in New England. Many of the single ar- measurement of timber in any of the mechanics'

MAPLE SUGAR.

I send you a sample of maple sugar made on the 18th of February. I tapped eight small second-growth trees on the 17th, from which I obtained eight pails of sap of the sweetest flavor. I do not believe any one in Vermont has got the start of me in making maple sugar this year.

Poultney Vt., Feb. 22, 1859. J. E. Cobb.

REMARKS.—Excellent—excellent. Hope you

SALT AS A MANURE.

FRIEND BROWN:-I wish to know how salt is to be applied to the soil,—whether it should be mixed with barn-manure, or sown broad-cast? If mixed with manure, in what proportion? If sown, how much to an acre, at what season, and grown? How would it affect pasture land? And versal. further, I would solicit the opinion of some of your experienced correspondents on the profit and she gave bloody milk; I gave her garget, likely to accrue from purchasing salt at 20 cts. per bushel for agricultural purposes.

Would you consider it profitable to bny airslaked lime, at eight cents per bushel, to put on land? A. C. Buffum.

North Berwick, 3d Mo. 3d, 1859.

REMARKS .- We have often used salt as a fertilizer, but have not pursued the experiments with sufficient accuracy to make them worthy of worthless; they were on gravelly and stony land. note. So we refer to others, and find plenty of it. evidence that salt may be used profitably as a fertilizer where it can be obtained at low rates -where it is dirty or in a damaged state so as to make it unfit for common purposes.

Salt renders dry loams more susceptible of absorbing moisture from the air, and this is of great importance, because those soils which absorb the greatest proportion of water from the atmosphere, are always the most valuable to the cultivator. On heavy undrained lands it would not act beneficially.

When sprinkled slightly over manure heaps it checks the escape of the carbonate of the ammonia, and tends to prevent undue fermentation. It not only acts on vegetation as a stimulant, but serves as a direct constituent, or food, of some kinds of plants.

Applied to grain crops, on light soils, at the rate of 500 pounds to the acre, salt increases the produce of seed, and very much improves its weight and quality per bushel. On grass land and clover, salt has a good effect, rendering the herbage more palatable to stock.

Mangold wurtzel, manured with salt mixed with farm-yard dung, at the rate of ten or twelve bushels, or even more, per acre, grows luxuriantly. It would undoubtedly be useful on a barley crop, because the soil adapted to that plant, is the kind of soil most benefited by salt.

We do not doubt but that salt at 20 cts., and air-slaked lime at 8 cts. per bushel, would be profitable on land where they are actually needed.

UNIVERSAL PLOW-BLOODY MILK-FLEMISH BEAUTY PEAR.

Do you know how the Universal Plow works

gauged to a certain depth, they work well-but in stony land they hold hard and don't turn well.

Answer.—We hear the Universal Plow spoken highly of-have used one to plow several acres of sward land, and find it to work admirawhat kind of soil is most benefited by it? Would bly. It is quite probable that a shorter plow it be advantageous to use it when barley is to be might work better on rocky land, than the Uni-

> Bunches came on the teats of my young cow, and the blood ceased to come, but the bunches What shall I do for her?

> Answer.—Give her six drops of the tincture of Aconite, on some meal wet up with water, every other day for ten days.

Do Flemish Beauty pears often crack? I had some that cracked so badly last year as to be One tree had lime, ashes and soap suds around A Subscriber.

Answer .-- Are you quite sure that your pear is the Flemish Beauty? It has not the habit of cracking. This pear must be gathered earlier than most others, even before the fruit parts readily from the tree, and then ripened in the house. If left to ripen on the tree it becomes soft and flavorless, and decays soon.

HUNGARIAN GRASS.

Is it an annual plant, or is it of the nature of other grasses? Will you tell us all about the Honey Blade Hungarian Grass Seed?

Cambridge, Vt., 1859. GREEN GRASS.

REMARKS.—We have quite recently given an account of this grass. We have not grown it, but understand that it is an annual plant, requiring to be sowed every spring, like millet. The "Honey Blade" is a honied term to catch gulls with. Test it by the rod rather than by the acre -by purchasing and sowing only a few pounds of the seed at first.

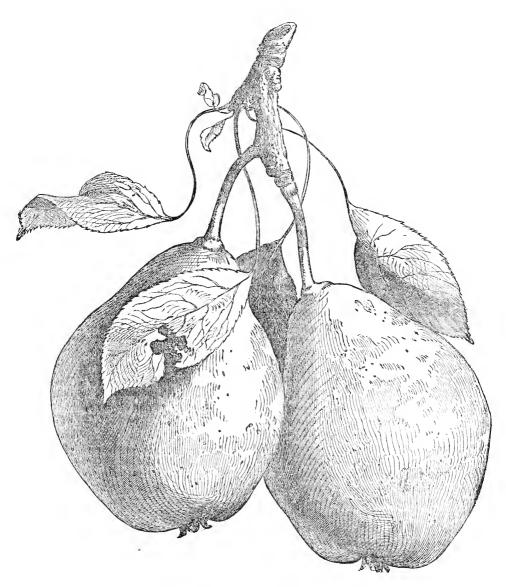
ARE HENS PROFITABLE?

I make the keeping of hens more profitable than any other stock, compared with the capital invested. I feed my young chickens with corn meal four times a day, and plenty of skimmed milk. When old enough to lay, I give them all the corn and oats they will eat, with gravel, lime, and frequently cayenne pepper, mixed with their meal. Twelve hens will lay 142 dozen of eggs in a year, or 142 each, and I call that doing well -though they will sometimes do more.

East New Sharon, Me., 1859. A. R. HALL.

ARTICHOKES.

A correspondent of the Cultivator says that on rocky and stony ground, whether greensward 2000 bushels of this root could be raised on one or old ground, rigged with the intervale mould? acre. I have no doubt of this, for from a single It looks in the cut as if it might work well. The rather small tuber I dug in the fall nearly or Eagle of Nourse, Mason & Co., are of good quite one peck. This root threw up three stocks, workmanship and material, and in clear land, yielding as above.



THE MARIE LOUISD PEAR.

FORME DE MARIE LOUISE. MARIE CHRETIENNI.

PRINCESS DE PARME. BRADDICK'S FIELD STANDARD.

In accordance with our promise at the com-1816. It was introduced into this country, along umas with choice illustrations of valuable sub-years ago, and is everywhere held in the highest jects, we now have the pleasure of adding to oth- estimation, keeping for a long time in the house. ers already given, the above beautiful and truth- The tree is hardy, but has an awkward, rather ful portrait of the Marie Louise Pear-a pear crooked, and declining habit, and very narrow "everywhere held in the highest estimation."

Abbe Duquesne, of Belgium, in 1809, and its pear for every garden, bearing very regularly. fruit was first sent to England by Van Mons, in | Fruit pretty large, oblong-pyriform, rather in-

mencement of the year, to illuminate our col- with many other fine Flemish pears, about 15 leaves. In the nursery it is best, therefore, to According to Downing's account, "this truly graft it standard high, when it soon makes a good delicious pear was originated from seed, by the head. The young shoots are olive gray. It is a

regular or one-sided in figure. Skin at first pale Make a machine, and allow us to test its merits green, but at maturity, rich yellow, a good deal by the 25th of June. sprinkled and mottled with light russet, on the exposed side. Stalk an inch and a half long, obliquely planted, sometimes under a slightly raised lip, sometimes in a narrow, somewhat plaited basin. Flesh white, exceedingly buttery ican farmers to test the fertilizing properties of and melting, with a rich, very saccharine and viand melting, with a rich, very saccharine and vinous flavor. Last of September and middle of October."

A HAY SPREADING MACHINE WANTED.

The farmer has found valuable assistance in securing his hay crop in the mowing machine, and horse rake; they enable him to get more hay, to get it better, in a shorter time and at a cheaper rate, than he ever did without their aid.

The mowing machine spreads the hay very evenly on the ground where it grew, leaving it in a condition to dry rapidly, but not to be easily turned, unless it is done by the slow process of using the hand rake.

What is wanted now, is, some light, cheap implement, to put into the fields about ten or eleven o'clock, A. M., with a boy and horse, to pass over the hay rapidly and fling it to the air, so that it had not been exposed to the weather, were apwill be sufficiently dry to go into the barn on the plied, the produce was fifty pounds; on the third same day that it is cut. The process of hay making might then be,-cut the grass with a mowing machine just at night, or early in the morning, and by ten or eleven o'clock the top would be nearly dry; then, between eleven and two o'clock. pass over it rapidly with the "tedding machine," or hay spreader, keeping it in motion while the men are at dinner, and by two o'clock, the hay will be ready to go to the barn, provided the day is bright, attended with a drying wind.

Hay made in this way may be secured at a cost of about one dollar per ton less than where it is raked, cocked, partially spread again the next day, and then tumbled up and got in. To any person keeping a dozen head of stock, this saving ought to be sufficient, in one or two years, to pay the cost of the machine.

The Massachusetts Society for the Promotion of Agriculture, purchased an English Tedding Machine last year, and introduced it into Middle- "plow-talk" over them, and could not fail to sex county. We saw it on the farm of Gen. Ly-MAN, at Waltham, who had given it a thorough trial, and who expressed a decidedly favorable ment peculiarly well to the plowing of rough and opinion of its merits, and of its adaptation to the same fields where the mower has been used. This machine is all iron, too heavy by one-half, and twist, which enables them to turn the sod well too expensive. Yankee ingenuity can devise one more simple in its construction, lighter, and cheaper, and yet strong enough to be durable, heel, so that they spread the furrow-slice well, and and do all the work required of it. Who will de-prevent stones from rolling back into the chanvise and construct it, and make \$10,000 out of nel and bringing the furrow-slice back with them,

For the New England Farmer.

COAL ASHES AS A MANURE.

But few experiments have been made by Amerother manures from foreign lands in enormous quantities, and at great expense, it may be well to employ some substances nearer home, which are now neglected and cast aside as useless. Thousands of tons of ashes might be obtained in cities, where coal is extensively employed for fuel, which, when applied to the soil, would doubtless greatly augment its productive powers. It is stated in "Faulkner's Farmers' Manual," an English publication on manures, that coal ashes contain sulphate of lime, with some potash and soda, all of which are known, when separately applied, to produce a good effect on clover crops, and to constitute an important part of the food of all grasses.

The following experiment by an English farmer, may shed some light on the subject; the ground selected contained three perches of clover; the first had no manure, and produced thirty-eight pounds when cut in full head; the second, where four quarts of sifted coal ashes, which perch, one quart of plaster was sown, and the crop weighed fifty-four pounds. It will be seen that the ashes increased the clover nearly onequarter above that on which no manure was applied, which goes to prove that this substance is a valuable fertilizer. Coal is said to be of vegetable origin; therefore, we can see no reason why its ashes should not contain the food of plants. Experiments on various soils and crops might be made by any farmer at a small expense, as coal is employed as fuel in nearly every town.

O. V. Hills. Leominister, Mass., Feb., 1859.

UNIVERSAL PLOW FOR STONY LAND.

Since replying to the inquiry of a correspondent recently, in regard to the value of the Universal Plow on stony land, we have taken pains to call on one of the best plowmen in New England who was among the first to use it, and with the various mould-boards before us, had a long come to the conclusion that the upland mouldboards of the Universal Plow adapt the instrustony grass lands.

They have a short and powerful curvature or among stones.

They are quite broad on the bottom and at the it? Here is a fine opening for inventive genius. grass-side up. Whatever the share enters unspread off and turn over effectually.

to hug the ground well.

The proportions of length of beam to weight of plow are such as to balance the instrument well, and make it run true, without jumping In the culture of ornamental shrubs, but little when the share strikes a stone or other obstacle, attention has been given to our beautiful native

Plow work excellently in old ground that is laurel, (Kalmia latifolia,) Rhodora Canadensis, stony. They are short, with a strong turn and and Clethra anifolia. These three sorts rival peculiar form, by which they lift the furrow-slice in beauty many of our foreign or introduced high and throw it off powerfully, burying the shrubs. The Kalmia is not only found growing stubble and vegetable matter completely, and in a swampy or wet soil, but also on comparaleaving a clean channel for the next slice, and tively dry upland; its general height is from four breaking and pulverizing the soil.

to buy for plowing stony grass land, where are of a white color, tinted with red. It blosthe team is two to three cattle; and the No. soms in June and July. The plants, when taken 152 stubble mould, for a pair of horses or up with a ball of earth attached and placed in a oxen in plowing old ground. That makes two half-shady situation, not being exposed to the changes. A third and excellent change is had meridian sun, the soil rather moist, will generby procuring the skim plow and using it on for- ally succeed. They should be transplanted as ward of the No. 152 stubble mould, for sod and early in April as possible. The Rhodora, or as subsoil plowing, working the land 8 to 10 or 12 it is sometimes called, "The False Honeysuckle," inches deep, as desired. The best form of mould- is a smaller shrub, with beautiful purple flowers board for stubble or old ground plowing, is also which precede the leaves early in the spring; the best for the rear mould-board in sod and sub-the bush, when in bloom, resembles a dwarf soil plowing, lifting the earth high and throwing peach; its height is about two feet, and it is it off well. The No. 152 mould-board does this found growing frequently in clumps in low to perfection. The No. 140 upland mould-board ground, but will flourish in almost all good soils is a larger size than the 141, for two yokes of ox- that are not too dry. This shrub should be taken. The No. 141 mould-board has been consid- en up as early in spring as possible, or late in erably used for plowing stony sod land, and the the fall. The Clethra, called White Pepper Bush, best reports are heard from it.

GLOBE MANGEL WURTZEL.

Mr. Brown:-A few weeks since I forwarded to you a few words on the Yellow Globe variety of Wurtzel, as cultivated in France, and having met with some remarks of an English farmer, commending this sort, I herewith send you the following extract:-

"With regard to this variety not producing near the weight of the long rooted, I would say that the result of my first trial in the same field free from worms, is to mix seeds of the Early and under precisely similar treatment as the long, was so much in favor of the Globe, that its together: that is, in a bed requiring two ounces merit with me and several who witnessed it was of onion seed, mix one-half an ounce of the radso far established, as to induce me to sow only ish. We find that in pulling these roots, it does sufficiently long, to produce an additional proof of its inferiority. In my case, the result is a de- not seemingly interfere with or injure the onion. eidedly increased quantity and quality. Added The onion we should sow, and would commend to this, its superiority as a keeper is unquestion-for table use, is the Early Weathersfield Red; it is able; the reason with me is obvious, for the virtue and quality of the root being concentrated in its globular form, whereas in the long, the want of that density and close texture renders altogether the best variety for eating; the root it more exposed to the action of the air, which is of the form and size of the other varieties.

der and lifts, the mould-board is quite sure to absorbs that portion of succulent matter indispensible to its proper keeping for the purposes The share has a good strong dip, or earthward tendency, which enables the plow to enter read"is more nutritious." For the cultivation of the ily under the furrow-slice, and among the stones, Mangel Wurtzel, see the N. E. Farmer for last

NATIVE SHRUBS.

The stubble mould-boards of the Universal varieties, such as the large flowering mountain to eight feet, the flowers are disposed in large The No. 141 upland is the right mould-board corymbs at the extremity of the branches, and is a tall and clean-looking white flowering shrub, having leaves of a rich and shining green, rarely injured by insects; the flowers have a strong fragrance resembling the Syringa or Mock Orange. We have often commended our cultivators to try this plant for hedges, particularly on moist or springy land, as it is invariably found in such soils.

RADISH --- ONION.

A good method to pursue to obtain radishes

CHESHIRE COUNTY, N. H.

he had always raised wheat, and got an average of re-seeding each five or six years. of fifteen bushels per acre, and found the crop as In the evening, the meeting was much more sure as any other. Mr. James Elliot, of Keene, fully attended. A lecture was read by the Editor said he had raised forty bushels of wheat on a of the N. E. Farmer, upon some of the hindranlittle less than one acre and a quarter! Col. AD-|ccs of good farming, and upon its social relations, AMS, of Fitzwilliam, rarely failed in getting a good and then an animated discussion followed, which crop of wheat; thought it as sure and profitable continued until past nine o'clock. as any of our farm crops. Mr. Boyce, of Troy, said he went into debt for a farm, raised wheat Marlow, 17 miles from Keene, the next day, Friprofitably, and soon brought the farm into condi- day, the 18th. Hon. Allen Griffin was elected tion to make it a sure and good investment of his President, and Mr. Lewis, Secretary. The grass labor.

a wide range-but the evidence was, that the far- the meeting in an interesting speech upon pracmer must mainly depend upon what can be accu- tical topics, which operated as a key-note throughmulated on the farm through his own industry out. Messrs. Elliot, of Keene, Downer, Dr. and skill in collecting, composting and preserv- Perkins, Col. Farley and Messer, of Marlow, ing it; that this, more than all others, is the related experiments or experiences in regard to manure best adapted to the soil and the crops, one or another of these subjects. Mr. Powers, and will secure to him the most successful and of Marlow, said he brought land that was so poor profitable results. Mr. MILAN HARRIS, of Har-that sorrel would not grow on it, into a high risville, gave detailed statements of his experien-state of product by the use of meadow muck. The ces with guano, showing that on moist lands, President confirmed this statement by saying with proper skill in its application, he had used that he often had occasion to pass the land reconsiderable quantities with satisfactory results. ferred to, and believed it to be one of the most

But notwithstanding this, he candidly stated that The people in Convention, comparing their experiences. he agreed in the opinion expressed by others, Another of the series of agricultural meetings that the farmer must depend upon the resources instituted in Cheshire County, was held at Keene, of his own farm, and if he used the specific fer-Feb. 17, in the Town Hall. Gen. Converse, tilizers, must use them as helps, rather than as President of the County Society, in the chair. principals. In this connection, Mr. S. W. Buf-The afternoon was devoted to a general discus- Fum, of Winchester, spoke of the importance of sion of the subject of Manures, and to that of a better knowledge of our farm operations, and Wheat,-the question upon the latter being, especially in preparing the manures upon which whether the farmer cannot raise the grain and we are to depend for successful crops. He warmsupply himself with flour, at less cost than he can ly urged upon the farmers more reading and careraise other articles, subject himself to the cost of ful investigation, and said no efforts they might finding a market, selling, and then, after paying make would pay better in the end. In these three or four profits to those whose hands it has statements he was confirmed by the venerable passed through, purchase what he needs for his John Prentiss, of Keene, who said that farmers, family supply? No vote was taken upon the as a class, undervalued books, and that in the question, but judging from the remarks of the fifty years he had been a bookseller in that place, speakers, we came to the conclusion that the im- he had rarely sold a work treating upon agriculpression was a general one that the farmers of tural matters to a farmer! The mechanic, the Cheshire County were working at considerable machinist, merchant and manufacturer, were disadvantage in neglecting to raise wheat, and in eager to gather information from books, or any purchasing so largely of flour. As an illustration other source, but the farmer seems to have preof the amount of flour purchased in the towns, judices that are invulnerable. Mr. P. also deit was stated that in a single town in that State, tailed his plan of making up a manure heap by where there was not a manufacturing estab-collecting leaves and all sorts of vegetable refuse, lishment in the town, but where nearly all the and composting them with matter from the cow people were engaged in farming, and the popula-and horse stall, depositing the mass under cover tion only about fifteen hundred souls, five thous- until it became quite fine, and then using it upon and dollars worth of flour was annually sold! his garden crops. Mr. Woodward, Editor of And it was thought that about this state of things the Keene Sentinel, spoke favorably of top-dressexists all over New England. It appeared by the ing mowing lands before the roots of the grass statements made that there is no difficulty in ob- are exhausted, and thus make them continue to taining remunerating crops of wheat in that re- | yield a ton and a half per acre for a dozen years gion. Mr. George H. Wright, of Keene, said in succession, instead of incurring the expense

The next meeting of the series was held at crop, manures, grain crops and top-dressing were The discussion of the subject of manures took the subjects discussed. The President opened

Marlow, made valuable statements in relation to ly average for the whole term of five days for the use of muck, and urged the people to give it each experiment. She gave, when fed on more attention, and cited several things that had been said as showing the importance of such gatherings as these. He thought them just what is needed to improve the condition of New Hampshire farms. Mr. SIMONDS had used tan, he said, with excellent results-plowed under deep, it keeps the land light and porous, and he believed had some fertilizing properties.

The evening exercises were similar to those at Keene, and the Town Hall was crowded with attentive listeners until 9 P. M.

For the New England Farmer. FEED OF MILCH COWS.

MR. EDITOR: -In looking over the "Transactions of the Worcester North Agricultural Society," for 1858, I have been a good deal interested in the record of some experiments, made by JOHN BROOKS, Jr., of Princeton, for the purpose of testing the relative value of different kinds of feed for milch cows. So far as one can judge through the manifold blunders of the printer-(you gentlemen of the press do sometimes make strange work-[It is strange there are not more. -Eds.] with types)—the experiments appear to have been tried with care; but they would have ments for experiments of this sort-will he not shown better the comparative milk and butter-increase the obligation under which the farming producing qualities of the varieties of feed, if community lies to him, by enlarging on his exeach variety had been given to the animals some periments, and bringing new articles of feed to days before the result was recorded, so that the test? He can then do a great service to his trial should begin under the full influence of the brethren, while he is benefiting himself more esfeed experimented with; for in the daily record pecially. there is sometimes a large difference between the first and the last days of the trial, the effect of one kind of feed running into the next experiment. For instance, as to the amount of milk; one cow, during the trial of cotton seed meal, gave at the commencement, 10.94 pounds, and on the last day 14.19 pounds, showing a daily increase for the whole time. And with 15 pounds of English turnips daily, all the cows gave an increased amount of milk at the close; while, with remunerative. the same quantity of rutabagas, directly following the English turnips, three of the four cows gave less milk at the end than at the beginning of the term—in one case a pound a day less. On the last day of trial with English turnips, the aggregate of milk given by the four cows was 37.37 pounds; with rutabagas it was but 34.50 pounds. This result conflicts with the common opinion in regard to the relative value of the English tur- who has given us scarcely anything upon the imnip and rutabaga; and perhaps it should not be portance of the right soil for the various kinds; looking at the various aspects of the result, it he writes, "No tree thrives better on a light, shalcertainly should not be set aside as worthless testimony in favor of the turnip. It is to be regretted that Mr. Brooks did not state which of less value, if grown in deep, rich, heavy soil." nip was used in his experiments, as there is rendering them more prolific in one place than

sent to your readers. I take at random the cow ought to have known better."

productive fields in the town. Mr. PARKER, of Dora. The quantities of milk given, are the dai-

Milk.	Cream.	Butter from 4 qts. milk
lbs.	pr. ct.	oz.
Hay only, 27.60 lbs8.33	1.66	10
Hay 22 lbs., cotton seed meal, 2.75 lbs., 11 51	1.87	12
Hay 24.40 lbs., Eng. turnips, 15 lbs10.59	1 71	11
Hay 23 lbs., ruta bagas, 15 lbs10 06	1.61	10
Hay 23 50 lbs., carrots, 15 lbs10.89	1.65	10
Hay 25 lbs., English carrots, 15 lbs10.38	1 68	10
Clover hay, 2nd crop, 28.40 lbs11.31	1.73	11
Hay 23.80 lbs., corn meal, 2.75 lbs10.46	1.67	10

In the following table may be seen the daily average for the four cows used for the experiments, with the average increase or decrease of milk during the time occupied by each trial. Does Mr. Brooks, by English carrot, mean the common white carrot?

	Milk.	Cream.	Increase of milk
	lbs.	pr. ct.	lbs.
Hay only	.7.34	1.64	.97
Hay and cotton seed meal	.9.34	1.84	1.97
Hay and English turnips	8.93	1.70	.73
Hav and carrots		1.57	.53
Hay and English carrots		1.63	.29
Clover hay, 2nd crop		1.81	2.94
Hay and corn meal		1.68	.62
Hay and ruta bagas		1.61	.40 dec'e.

Mr. Brooks propably has convenient arrange-MINOT PRATT.

Concord, Feb. 17, 1859.

FRUIT CULTURE.

The greatest desideratum, at this time, in the culture of the apple and pear, particularly the latter, is to ascertain for ourselves, on our respective soils, what varieties will succeed well with us, and cultivate these, as being the most

Our fruit books generally do not enlighten us much on this important matter. One of the most practical cultivators of fruit and vegetables in England for almost a century, (having recently deceased at a very advanced age,) was John Rogers; he may be said to be the only writer received as settling any point in dispute; but, thus in his description of the St. Germain pear, the very numerous varieties of the English tur- He speaks of apples "having local propensities, probably some difference in their value for feed. another," and continues, "deep, rich soils in shel-I have made an abstract of some of the more important matters in Mr. Brooks' tables, which, perhaps, you will think of sufficient value to pre- apple, though recommended by writers who

ply, "that it is occasioned by too deep planting should be kept in vigorous condition in preferon unfavorable soils." Of the Quince apple, it ence to the mowing-fields near home. Let a porshould not be planted on a strong, moist soil; tion of these go to pasture, or rest, if you cannot of another variety, should be planted in a light, supply the whole with manure, and dress the orsandy loam; of another, should be in the same, charding so that the trees will continue to grow for though it arrives at a greater size, both of thriftily. They will not stand still-if they are tree and fruit, in deep and rich loam, the fruit not growing, they will soon become sickly, borgreatly deteriorates. The Nonpareil requires ers and other vermin will attack them, and they a light, rich loam, on a dry subsoil, for in heavy will soon acquire a habit of decay which you soils it soon becomes cankered and falls to decay. cannot arrest. Of the Summer Golden Pippin, a light, loamy soil, on a dry bottom suits it best. Of Har- sow clover seed and cut the crop for two years; vey's Pippin, this sort is not nice as to soil gen-then cut the rowen, let it lay and wilt a day or erally. Of the famous Ribston Pippin, which two and plow that under, and you will fill the he calls the "Glory of York," he says, tree hardy, soil with vegetable matter from the roots of the healthy and vigorous, if planted in a loamy soil, clover. With a lighter manuring, the land may having a dry, hard subsoil; stiff, moist soil causes then be moderately cropt for a year or two, and canker, while on inferior soils, even in bleak then you may change to clover again. In this situations, the tree bears bountifully.

As regards the above extracts, it may be said you will get the growth of the trees free. that these effects may not necessarily follow in our country; but if they may not occur to such an extent on our soils, we cannot but think, from what we have observed here, that it will be found to be true in a measure, at least, on our New England soil.

For the New England Farmer.

HOW TO TREAT A YOUNG ORCHARD.

Mr. Editor:—How would you advise to treat a young orchard of six acres, set at different times, since 1848? The land a rather poor, gravelly, sandy soil; a part abounding in stumps, having been cleared four years since. Previous to setting, holes seven feet in diameter, 18 to 24 inches deep, were dug and filled with top soil, loam, and in some cases, mud. The part first set has been kept in constant cultivation, moderately manured and cropped with corn, potatoes, beans, roots, &c. Distance from barn one half mile. The manure from the barn-yard can be used to good advantage, (is in fact needed,) on orcharding, mowing-fields and gardens nearer home.

Queries .- Would it be good policy to keep the ground plowed and harrowed, without manuring or cropping?

Would it be a good plan to sow buckwheat or

some crop to turn in green?

Or would a slight manuring and cropping, (planting nothing within several feet of the trees) be on the whole better, economically considered, than either of the above methods?

In general, the growth of the trees thus far has been very good. Unquestionably, liberal manuring would be a capital idea; but where this is not readily obtained, it is natural to seek other means to gain the desired object.

Lexington, Feb., 1859. Subscriber.

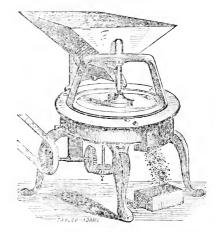
it, it will be exceedingly but economy to suffer by of cast and wrought iron, are of great strength

When asked the cause of canker, he would re- it to depreciate. Our opinion is, that the trees

Plow the ground, manure it as well as you can, way the crops will pay for labor and manure, and

PORTABLE IRON GRIST MILL.

We know nothing, personally, of the merits of this mill, but give the illustration and description of a party interested, because we believe a good, low-priced mill is an article much needed by farmers. It is stated that "the grinding surfaces are flat like a burr millstone."



"The mills have been severely tested, and have been driven 600 revolutions a minute, grinding 12 to 15 bushels of fine meal an hour, without clogging, and thus demonstrating the fact that the principle of the mill is correct. The grain feeding directly upon the revolving under plate -the upper plate being stationary-is ground or cut as fine as is wished by regulating a screw at the bottom of the spindle, while the centrifugal REMARKS .- As you have begun an orchard, force drives the meal to the outer edge and and already expended considerable money upon throws it off. These mills are constructed whol-

and efficiency, with no springs or wood-work to affinity to the family of gourds; we have heard cory and spice mill has no equal. Any part of with the melon or cucumber, if this should have it can be duplicated at small expense. The grind-possibly taken place, we think it doubtful whether ing surfaces are very durable, and can be dupli-the seeds from these abortions, (if they should cated when worn out at the expense of a single have any,) would vegetate. pecking of a burr stone, with no delay of the mill.

"There are two sizes; the small hand mill, suited to the wants of the farmer, is of sufficient power and capacity to do all his milling at home at his leisure, and saving in tolls enough in a short time, to pay for the mill.

"The large mill is of great strength and power, and can be driven by horse or other power to do great execution."

For the New England Farmer.

THE ONION MAGGOT.

ness, in a form that you can make known to those cannot conceive, when I recollect the bare pit-seeking the information. Your inquiry was, as tance for which she worked—to support us in I understood it, Has any mode of destroying the comfort. Frequently, however, I remember that maggot or worm that depredates upon the onion our supper consisted simply of a slice of bread, yet been discovered? My answer was, None, or seasoned by hunger, and rendered inviting by none that has come to my knowledge.

this subject of Mr. D. Buxton, Jr., I. Bushby like my good mother's heart, seemed ever to preand I. Stone, three of the most intelligent culti-serve a snow-white purity." vators in this county, and their answer, uniformly, was like that given by Gov. Lincoln, in 1845, at the close of a discussion of the potato rot; the time when we sat down to the table one evening, only thing certain about it is, 'it is death to the and my mother had asked the blessing of our potato." Be this as it may, I have never had Heavenly Father on her little defenceless ones. better potatoes than this past season; and all in tones of tender pathos which I remember yet, though many hundred bushels of onions have been destroyed by the maggot, there are still enough left fair and bright for all reasonable only loaf into three pieces, placing one on each purposes. A still more blasting and mysterious of our plates, but reserving none for herself. I influence pervades some fields, known as the stole around to her, and was about to tell her black vemit or the rust; to which, two years ago, that I was not hungry, when a flood of tears I called the attention of the savans of the Essex burst from her eyes, and she clasped me to her Institute at Salem, and induced them to view the bosom. Our meal was left untouched; we sat premises; but their Report thereon has not yet J. W. PROCTOR. appeared.

South Danvers, Jan., 1859.

SQUASHES VS. PUMPKINS.

between species and varieties, hence they recom-|mother found an advertisement in the newspaper mend the "importance" of planting all the melon, for an errand boy in a commission store in squash and eucumber tribe of plants away from to have my clothes mended, for my mother aleach other, with the idea that they will mix. The ways kept them in perfect order, and although, Marrow, Valpariaso, Hubbard and Acorn, called on minute inspection, they have traces of more squashes, will mix with each other, and also with than one patch, yet on the whole they had a very the Connecticut Field and hard-shelled pump-kins, but not, as we have ever found, with the kept a box of blacking with which my cowhides crook neck, the last of which we consider the true must be set off before I took my breakfast; withtype of squashes. This variety may have more out waiting to arrang my hair, for I had been

get out of order. It requires little power or skill that it will degenerate if grown in connection to run it. It will grind saleratus, cream tartar, with the bottle gourd; of this we know nothing white sugar, bones, grain, coffee, and as a chic-personally. As for any of the above hybridizing

> If the analogy in the animal and vegetable world hold good, they would not, any more than the eggs of the mongrel Canada goose crossed with our native bird, or a colt could be obtained from the mule.

BOYS' DEPARTMENT.

A STORY FOR BOYS.

"When I was six years old," says a well-known merchant, "my father died, leaving nothing to my mother but the charge of myself and two young sisters. After selling the greater part of the MR. EDITOR:-Reflecting upon the inquiry household furniture she had owned, she took two the neat manner in which our repast was served, The last season, I made particular inquiry on our table always being spread with a cloth, which,

Wiping his eyes, the merchant continued:

"Speaking of those days reminds me of the and which, if possible, must have made the angels weep, she divided the little remnant of her burst from her eyes, and she clasped me to her up late that night, but what we said I cannot tell. I know that my mother talked to me more as a companion than a child, and that when we knelt down to pray, I consecrated myself to be the Lord's, and to serve my mother.

"But this is not telling you how neatness made Cultivators often lose sight of the distinction my fortune. It was sometime after this that my obliged to observe from my earliest youth the these, again, aid in increasing the circumferenmost perfect neatness in every respect, my moth-tial extension and clumsiness of the body, the er sent me to see if I could obtain the situation. former of which is by no means accommodating With a light step I started, for I had a long time to the gentlemen, either on the narrow sidewalks wished my mother to allow me to do something in Boston, or in carriages, or cars generally; and to assist her.

out of W --- Street into B --- Street, and sex in pursuit of a partner for life. made my way along to the number my mother had given me. I summoned all the courage I tions against this now prevalent custom Of late could muster, and stepped briskly into the store, an eminent physician abroad has raised his warnand made known the reason of my calling. The ing voice against this pernicious custom. He merchant smiled, and told me that there was says, "he has no doubt but in the parturient another boy who had come in a little while before chamber he has lost several patients who might me he thought he should hire. However, he have survived this critical period, had they not asked me some questions, and then went out and have been debilitated by colds, and irritations conversed with the other boy, who stood in the and inflammations induced by such a reckless exback part of the office. The result was, that the posure of female health as does, and must neceslad who first applied was dismissed, and I ensarily result, from such gear in winter, as hooped tered the merchant's employment, first as an erpetticoats, fashionably called 'skirts.' rand boy, then as a clerk, afterwards his partner, until his death, when he left me the whole busi- case, we see no reason to doubt their truthfulness, ness, stock, &c. After I had been in his service there are weighty and ample reasons why such a some years, he told me the reason he chose me system of dressing should be immediately changed in preference to the other boy, was because of for one safer and healthier.—Dr. Wm. Cornell, the general neatness of my person, while in ref- in Happy Home. erence to the other lad, he noticed that he neglected properly to tuck down his vest. circumstance has probably been owing the greater part of my success in business."

LADIES' DEPARTMENT.

THE HOOP FASHION.

Now, lest it should seem unkind to our good twenty minutes. mothers, wives, sisters and daughters, (being of of the year, when moderately sized hoops may be til it becomes like cream; then add the perfume. worn with an augmentation of comfort and increase of health. But duty compels the state- are two recipes:-Take a quart of cream, or, if ment that such cases are very rare in our climate, In very hot, dry weather, (of which we yearly have but little,) light hoops tend to raise the weight of skirts from the loins and lower portion tity of rennet (a table spoonful is sufficient;) let of the back, and, consequently, take off, by ad- it stand till thick, then break it slightly with a

every change of temperature, from hot to cold, of these frames become endangered, or essential-take a fine canvas bag, and pour as much cream ly impaired. No feeble person, or invalid, how- as you may happen to have into it, adding addiever, should risk this augmented ventilation at tional small quantities twice a day, and, from its any considerable distance from home, even on a becoming naturally sour, the thin part of it will

ter? Then it is positively unsafe for health. It and of course equally as good as those made by is true, some advantage can be devised against several small quantities added at convenient in-this wanton exposure of health and life in winter, tervals. The cheeses made in this way are not by a much increased amount of under-dress. But, fit for use so soon as those made with rennet.

the latter surely cannot be viewed favorably as a "My heart beat fast, I assure you, as I turned feminine recommendation by one of the other

But, seriously, there are most weighty objec-

If these are facts, and, from the nature of the

DOMESTIC RECEIPTS.

A SIMPLE PUDDING.—Boil a quart of milk, cut up some bread in small pieces and soak them in the milk for about half an hour; then add a table-spoonful of Indian meal, and a piece of butter the size of a walnut; sweeten well, and put in nutmeg and other spices. Bake about

POMATUM.—Melt about half a pint of beef the masculine gender, and withal a physician, marrow, and add to it six cents' worth of castor who of all men should be tender of female weak-oil, and three table-spoonsful of alcohol; scent ness,) we frankly confess that there are circum-to your fancy. First rend the marrow, then melt stances connected with female life, and seasons it and put in all but the perfume, and beat it un-

TO MAKE CREAM CHEESE .- The following of the back, and, consequently, take on, by autifulation, a part of the warmth which at such a time must be uncomfortable, and lighten the dragging sensation resulting from the weight of the skirts, So much is readily conceded.

But, even then, the evil far overbalances this moiety of good. Constant care is necessary at moiety of good. Constant care is necessary at with a weight, let it stand a few hours, and then put a finer cloth in the frame; a little powdered salt may be put over the cloth. It will be fit for use in a day or two.

Another Method .- If cream is scarce, so and from dry to moist, lest this cooling process be earried too far, and the health of the wearers that a sufficient quantity cannot be had at once, summer's day, unless she have a guarantee that drain through the canvass, and the remainder the weather will not change during her absence. So little has this gear to recommend itself even in summer. But what shall be said of it for wincommens. Then it is positively used for the latter of course and pour and of course and part of the manner.



TO AGRICULTURE ITS KINDRED ARTS AND SCIENCES.

V0L, XL

BOSTON, MAY, 1859.

NO.

JOEL NOURSE, PROPRIETOR OFFICE ... 34 MERCHANTS ROW.

SIMON BROWN, EDITOR.

FRED'K HOLBROOK, ASSOCIATE HENRY F. FRENCII, EDITORS.

CALENDAR FOR MAY.

"When rosy May comes in wi' flowers, To deck her gay, green spreading bowers, Then busy, busy are her hours-The gardener wi' his paidle. The crystal waters gently fa'. The metry birds are lovers a'. The scented breezes round him blow-The gardener wi' his paidle."-Burns.



AY is more celein song any other month in the year must - but it have been a May different from ours, that inspired the poet in tractive strains.

season of the year, enters on his story thus:—

"In the gloomy month of November, when the

people of England hang and drown themselves, a disconsolate lover walked out in the fields," &c.

The reason why the writer commenced in this way is quite obvious. He had a disconsolute lov-|into the garden of Eden to dress and keep it." er to dispose of-a lover who, for aught we know, was at that very moment walking out in but may we not fairly infer from this passage, search of a place wherein to drown himself, a that husbandry, in some form, was his natural l'Anglaise.

month of May, when all nature was rejoicing- as they are called, arises entirely from the sins when birds were singing in every tree, and flow-and infirmities of mankind? The minister calls ers were blooming in every nook," &c., &c., po- not the righteous, but sinners to repentance. It

duction of one solitary lover on suicidal thought intent, but a pair of lovers "sitting on a mossy bank," looking untterable things at each other.

Philosophize as we may, the weather does have a great influence over the spirits of the wisest of us, and we cannot help sympathizing with her varying moods. In the case of the "lover" aforesaid, we would hazard a guess that the lady dismissed him in an equinoctial storm, and that if he contrived to live through the winter, they made it all up, and were married the following May, with all the orange flowers and "honiton" suitable to the occasion!

Heaven's sunshine dissipates "vapors" of more than one kind, and "Melancholy often conveys herself to us in an easterly wind."

Geologists tell us that when the earth emerged some of his at- from chaos, there was a period in which nothing but enormous lizards perambulated its surface, The Spectator and that it took some time to fit it up for the says-"A celebra- residence of human beings. We have often been ted French novel- reminded of this in looking out upon a world ist in opposition to just waking from its winter nap-and as day afthose who begin their ter day, a man plods amphibiously along through romances with the flowery mud, water and snow-a pair of long rubber boots beneath his feet, and an umbrella over his head, he may be supposed to have pretty vivid conceptions of those primitive settlers of the lizard tribe. But then came the dry land, the green grass, the birds, the flowers-verily, it is the old story of the garden of Eden over again!

"And the Lord God took the man and put him

We would not indulge in idle speculations. and original occupation? Is it not true, also, that Had he begun it thus-"In the beautiful the necessity for the three learned professions, etic truth would have required, not the intro-lis the lawyer's business to heal dissensions occasioned by the bad passions of men, and the physi-reotype of this beautiful home of long ago, and cian treats diseases brought on by some violation you in the midst as its presiding genius. of the laws of nature,—either in the parent or his mate pursuit.

Paradise-

"O flowers,

That will not in other climate grow, My early visitation and my last At even, which I bred up with tender hand, From the first opening bud, and gave ye names, Who now shall rear ye to the sun, or rank Your tribes, and water from the ambrosial fount?"

Most ladies, like their mother Eve, love flowers by nature, though all do not like the care of them. It is, however, a taste capable of cultivation. We believe any woman who can have the time, and land enough and help enough to give her genius full scope, will soon enter into the matter with all the enthusiasm characteristic of the sex.

We find some excellent hints in "Rural Affairs," a little annual published at Albany, N. Y., by LUTHER TUCKER & Son, Editors of the Country Gentleman. "Two very distinct styles of arranging and planting ornamental grounds have been adopted. In the old-fashioned or geometric style, everything was arranged in straight lines, or occasional circles. Every care was taken in this style to avoid irregularity." This anecdote house opposite!"

and a clematis on the other.

pecially dear. The influence of all such memo-freeze. ries is pure and refining beyond estimation; how much more so when the memories come linked ly in winter, for want of a convenient supply of as snow, but he will keep in his heart a daguer-|convinced that it is reliable, and that the cost of

Years ago we knew of a flower-garden-we ancestors. So of many trades and mechanical fear it was rather in the geometric style-but we arts, it were easy to show that they are founded have never seen one so graceful in our eyes since. upon artificial wants; but we can hardly imagine The centre was a square—the four outside beds a condition in which farming is not man's legiti- were triangles; the whole bordered with pinks, while year after year grew in the same places, If Adam attended to the cultivation of the peonies, marigolds, tulips, jonquils, lady's-deearth, what, meanwhile, was Eve's employment? lights, and a few other common flowers. Far-We may infer what Milton thought about it, for ther down the enclosure was a pear tree, and he makes her thus lament the expulsion from ranged about it an oblong square of fleur-de-lis.

> A faint idea of the fine appearance of this last arrangement seems to have dawned upon somebody, for it received the name of "Old Maid's Row."

> Ah, it is easy enough now to look back from the heights of modern improvements, and smile at the want of artistic skill exhibited in the garden we have described; but we are content it should remain an unaltered picture in our memory, which shall bring back to us a vision of the fair florists who tended it.

> And you, madam, and you, sir, -have you not a similar picture in your memory? and for what price would you part with it? Perhaps it is all grown over with weeds now, and only a few stray flowers mark the spot, but you will see it as it was in other days, and you will see those whose names

> > "Have been carved for many a year On the stone !"

> > > For the New England Farmer

THE HYDRAULIC RAM.

MR. EDITOR:-I have been looking over the is subjoined. "The old gardener of Selkirk, who hoping I might find something from W. D. B., was very strongly imbued with this mania. when of Concord, in reference to the Hydraulic Ram he shut up the thief in the summer-house for he likes so well, and to which allusion was made stealing the fruit, was compelled, for the sake of by him in the November number of the Farmer. symmetry, to confine his own son in the summer- in the article referred to, he says, "I think so well of the ram, that I should be glad to give Nature delights in curves, rather than angles. you a full article on the subject." It is this "full article" that I have been looking after. I desire She puts a bank of violets here, a clump of pine to learn more about this machine, which overtrees there—a wild rose on one side the brook, comes the force of gravity, and makes water run up hill.

I should be glad to hear how his ram has win-There are few who have been blessed with tered. So far as my knowledge extends, the homes, who cannot recall their early days with opinion seems to prevail that the greatest troupleasure, and associate with them some spots es-ble with these machines lies in their liability to

with beautiful scenes. The elm tree at the door, water for their stock. It is evident that where with a robin's nest on a swaying branch—the streams are handy, the hydraulic ram, if it will vine over the porch, the morning-glory trained work, is just what is needed. I presume there are about the window, and the flower-garden—yes, many, even among those that have good wells, and the flower garden was little beyond the flower garden was the flower garden. the flower-garden!—your little boy, or your young to avail themselves of this seemingly easy method brothers, may go to the grave with heads as white of obtaining running water, when they become the machine and expense of keeping in repair will not be so great but that it will pay.

If "W. D. B.," or others, who are posted on this subject, will let their light shine, they will oblige many readers of the Farmer. s. D. C. Sunderland, Mass., 1859.

JARVIS' AND BAKER'S ISLAND GUANO.

In our advertising columns, the reader may find this guano offered for sale, -and we call attion to it in order to refer those persons who desire to use some specific fertilizer, to an article which we think may be used moderately with safety. There are thousands of farmers who would be glad to employ some manurial agents beside what they derive from the natural resources of the farm, if they could resort to them with confidence. In various particulars such agents may be profitably used.

From the results of an experiment on our own farm, and from analyses by different chemists, we are inclined to think that this guano may be used advantageously. It does not yield ammonia, but its principal ingredients are the phosphates and sulphates of lime, the articles which confer a lasting benefit on the soil, instead of stimulating and exhausting its properties.

We have been careful, as our readers well know, about recommending specific fertilizers for general use,-but we have no doubt that this guano is safe and valuable, used as an auxiliary to our common manures. Let each use it in small quantities, but dress liberally whatever ground is attempted to be gone over.

We shall take occasion to speak of it again.

For the New England Farmer.

BARLEY FOR HORSES.

In Portugal, and, I suppose, in the Peninsula, generally, barley is the principal food for horses and asses. Nowhere do these animals appear fatter and sleeker than in and about Lisbon. Gentlemen's horses, whether native to the country, or brought from England and Germany, as many of their carriage horses are, are the pride of their owners and grooms, and certainly seem extremely well cared for. Yet their food is nearly or quite all barley straw, and the grain served to them as oats are with us. The barley is threshed by being trodden out under the feet of oxen and horses, and is made as fine as the old who has taken measure to secure a patent. straw from an under bed.

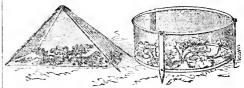
When upon the road the usual baiting is bread, coarse wheat bread-occasionally dipped in the

cheap wine of the country.

н.

West Lebanon, N. H.

FOLDING VINE PROTECTOR.



We give above the illustration of a new device to protect cucumber, melon, squash and other vines from the depredations usually made upon them by swarms of hungry bugs. It is simple, cheap, and we think must prove effectual. The inside hoops in the round one are rattan, and the outside ones are made of tough white ash. These are covered with gauze, with the meshes sufficiently small to prevent the entrance of the striped bug. The three upright pins are simple pieces of pine that may be whittled out in one minute; the upper end has a notch cut in it, while near the lower end a hole is bored, which is slipped upon the bottom screw, and the protector is set up.

The one at the left hand has four sticks, each sawed out lengthwise, so as to admit the gauze, and fastened at the top with bits of leather. The points of the sticks in this and the round one are thrust into the ground until the gauze touches the surface, when there is no room for the access of bugs.

While it appears to us that these protectors will be more effectual than anything we have before seen, intended for the purpose, they have some advantages not possessed by others. The first, is their compactness when not in use, as they may be "collapsed" instantly, and some one or two hundred packed into a flour barrel, headed up and put away for another year. There bei g gauze on the sides as well as the top, the air will have a free circulation among the plants, so that they may grow about as vigorously as they would were nothing about them. They are also light, yet strong, cheap, and convenient to handle, either in placing, or taking them from plants, and in packing them away.

These protectors were invented, and are manufactured by Mr. Caleb Bates, of Kingston, Mass.,

SEWING MACHINES IN ENGLAND.—Great excitement prevails at Stafford and Northampton, The barley crop appears stout and heavy as it in England, in consequence of the introduction stands in the field; and yet the land is ill-man- of sewing machines in the manufacture of boots ured and far from rich. I do not see anything and shoes. At a meeting in Stefford, attended to prevent as large crops on ordinary lands; and by 2000 makers and binders, it was stated that I do not know why animals here should not find 5000 persons had been thrown out of employit as nutritious and as palatable food as it is ment in Northampton, and 1000 in Stafford, by the introduction of machine-sewn tops, and a union was formed for resisting the innovation.

For the New England Farmer.

VARIETIES OF NEW APPLES.

In running my eye over the last edition of Downing on the Fruits and Fruit Trees of America, I was struck with the number of new varie- and the fruit remarkable for its long-keeping ties of the apple he had added to his list in ten qualities, as well as for its delicious flavor, yet it years. Within a circle of twenty-five or thirty miles in diameter, near the centre of which I reside, I find twelve new kinds, which I will give, together with the place of their origin.

Garden RoyalSudbury.
American BeautySterling.
Fall Orange
Hill's FavoriteLeominster.
MagnoliaBol'on.
Washington RoyalSterling.

MotherBo	lton.
CarterLeomin	ster
FoundlingGre	oton.
Hunt's RussetConc	ord.
Priest's Sweet Leomin	
Willis' Russet Sudl	

Now I can speak of most of these apples from actual experience. I regard the Garden Royal as the most delicious early autumn apple that one too, of fifty years standing, and, regarding it as both a cooking and a desert apple, has few equals and no superiors, from October to January, while the Mother, with those who know it EIGHTH LEGISLATIVE AGRICULTURAL well, ranks equally high during the same period. The two russets, Hunt's and Willis', are both deservedly favorites, which will be in season from January to May, and the Washington Royal, which Downing endorses on the authority of the N. E. Farmer, will carry us through till we can gather our apples fresh from the trees. The American Beauty and Priest's Sweet will furnish the baking pan from September to May.

ducer.

those of real merit? Will not some of our troduction of foreign varieties, or even those from the Middle and Western States?

HENRY LINCOLN.

Lancaster, Mass., March, 1859.

of the fruit, &c. &c.

well deserves the reputation you give it, it cannot, probably, be found in one in ten of the gardens or orchards of the people.

The Hunt Russet is one of the surest bearers, cannot be found in one-fourth of the orchards o the county. And these deficiencies exist, while the people are cultivating third and fourth-rate fruit that requires its own weight in sugar and spices to soften and make palatable its harsh-

It may be said that accounts of these good apples may be found in the books-so they are, thanks to those who have given them attention -but books are not scattered broadcast among I know. The Foundling, in this neighborhood, the farmers, as are newspapers. So we hope is perhaps entitled to the second place. The our correspondent will amuse hims-lf, and ben-Carter is an acquaintance, and a most agreeable efit others by giving us brief sketches of the apples that have originated on our own soil.

MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER]

The meeting of the Legislative Agricultural Society, last Monday evening, was well attended. The subject discussed was "Drainage."

Dr. G. B. LORING, of Salem, occupied the other kinds will probably afford us a variety, and Chair. In opening the discussion, he said that perhaps an equally agreeable flavor, while the the process by which land might be relieved of its superfluous moisture was one of the most im-This, I think, is very well for a little circle of portant to the agriculturist. It lay at the very thirty miles diameter, and yet I have eaten ap-foundation of the successful cultivation of the ples nearly or quite as good as these, in the same soil. He did not refer to large operations; but region, which had no name known to the pro-large tracts of land saturated by springs, or hold-If this district was carefully canvassed, I do ing in their basins the drainage of the hills or not doubt that at least twelve more varieties of the falling rains and snows, which did demand nearly, or quite equal excellence, would be the attention of the farmer. These were to be prought to light. Who will be the explorer pround everywhere. Hardly a farm could be found Who will found an establishment for systemati- in New England which did not contain many valcally testing our native fruits and disseminating uable acres where cultivation was a matter of horticultural associations make it an especial great uncertainty, on account of the water with subject of their attention? Is it not a matter of which they are chilled and drowned. Every farmmuch more interest to fruit-growers than the in- er knew that a ditch properly cut through a swamp would drain it. Every farmer knew that surface water would escape by means of dead furrows and an open drain. But most farmers had seen their strongest soils fail in the production of cul-REMARKS.—An excellent article—please let us tivated crops, and their best grass lands invaded hear from you again on similar subjects. We by rank and sour herbage, in spite of all their think a more particular account from you, of efforts to keep them warm and productive by these and other home varieties of apples, would means of fertilizers. They had, indeed, removed be of essential service. Such particulars, for in-the water from the surface, but the poison lay stance, as the habits of the tree, with regard to deeper down, at the roots, dwarfing their crops quickness of growth, form, soil adapted to it, and neutralizing their manures. The great obtime of fruiting, flavor, and keeping qualities ject of thorough draining was to deliver farmers of this evil. There were lands where nature did Notwithstanding the Garden Royal originated this for them, and where the character of the in about the centre of Middlesex County, and subsoil and the location of the lands were such

that deep tillage was alone necessary to produce clouds, was sure to be caught. a profitable result for agricultural labors. But drained for generations by a deep, unsightly, open where these did not exist—where the soil rested ditch, and was laid out in beds, with dead furon a bed of clay, or was deluged by springs- rows. Many a crop had been lost there; and art was required to enable nature to perform her farmers always said it was plowed either a day proper work. Almost any cold soil could be too early or a day too late. When Dr. L. took brought to a kindly condition by drainage. If it, it had, he said, long been laid down to grass, farmers would furnish their crops with a fair and everywhere the nutritious grasses were being chance to remunerate them for their labor, let expelled by rushes and weeds. He cut about them rid the soil of water. If they would avoid half a ton of hay per acre from it in the season the effects of drought, by allowing the roots of of 1857. On the first day of December of that their plants to penetrate the soil to a depth which year, the season being propitious, he had the drought could never reach, let them drain the wa- open ditch filled in above two rows of four-inch ter from the subsoil. If they would prevent their sole tiles, from three to five or six feet deep-a fields from freezing to death in winter, and crack-thousand feet in length-with a fall of about four ing and parching beneath the summer's sun, they inches per 100 feet. Into these main tiles, on should give them proper consistency by render- each side, he inserted two-inch sole tiles at dising the subsoil light and porous. In order to tances varying from 20 to 32 feet, with the same be warm and fertile, and equable in its tempera- fall for the water. The drains were filled at once, ture, receptive of manure, and responsive to its and their operation commenced. All winter they influence, soils must be free from that supera-continued to discharge water from the field; and bundance of water which made it cold in winter at the opening of spring its cultivation was be--surface-dry in summer-hard, clammy and for-gun. Here and there between the lines of drain bidding.

inventions for accomplishing this object to be them. But the soil improved month by month, tile-draining. He looked on Mr. Smith, of Dean-and yielded 60 bushels of corn from the acre. ston, Stirlingshire, Scotland, who more than a During last autumn it was thought best to add quarter of a century ago demonstrated the ben-a few more drains, and while making them, the efits of this form of drainage, as the henefactor workmen exclaimed—"How brittle this clay is!" of the farmer. His system had reclaimed thous- The water was gradually passing out of it. The ands of acres in his own country, and had been field already showed the benefit of the expense adopted by the most enterprising farmers in our put upon it. The snow melted rapidly upon it, own. Dr. L. also alluded to the efforts made by and it was fast becoming suitable for root culture, Mr. Johnson, of Seneca county, New York, who for which it was designed the coming season. had laid more than forty miles of tiles on his The cost of draining it had been about \$45 per farm, and had increased his crops one hundred acre; and, Dr. L. said, were he disposed to drain fold, by proper under-draining. It was hardly another piece of land, he should adopt the very worth while to discuss the comparative merits of same method of doing it-with the exception of the different modes of draining at the present laying the two-inch lateral tiles 16 or 18 feet day. Stone drains had had their day. Except apart instead of 30 feet—as a stiff, tenacious clay under extraordinary circumstances, they were not demanded the lesser width. He could not too so economical as tile drains, and in no case were highly recommend the draining system to farmthey so effectual. Every man, it was reasonable ers at large, and would urge the encouragement to assume, who undertook thorough-drainage, of the system of thorough drainage, by all prophad advanced far enough in agricultural science er means, at the hands of our agricultural societo avail himself of tiles, if they could be had ties, and of the Commonwealth. As there were within reasonable reach. Dr. Loring said he several gentlemen present who had studied drain-did not propose to explain their construction, or age, and experimented as well as he, the Chairtheir mode of application, but simply give his man would proceed to call upon them for their own experience of the use of tiles. He had on opinions as to its value. his farm a finely located field of four and one-

were hollows which the plow could not obliterate, Dr. Loring believed one of the most valuable and the water would stand for a short time in

Mr. B. V. FRENCH, of Braintree, was the first balf acres, level, warm, convenient to his barn- speaker called upon, and he stated his experiyard, and in every way a tempting piece of soil ence in draining in his usually familiar styleto cultivate. For half a century, however, it had having first given a succinct history of the imbeen a reproach to the science of farming. It provement, and commended the principle of en-rested on an impervious bed of clay, into which couragement offered to draining improvers by all the water from the surrounding hills, and the English government and by private corporafrom four and one-half acres of overhanging tions. The general argument he used was in facommended drains 4 feet deep, and 30 feet apart, results in the case in question. and such could be formed, tiled and filled for ing more liberally followed up.

gave a very interesting history of draining im-probably unnecessary to be carried out. Mr. provements made by Mr. Johnson, Seneca coun- Nourse was of opinion that depth of drain comty, New York State, showing that they had been pensated, in some degree, for width. He thought commenced under discouragement, and especial- that, if a farmer had 200 acres of land, he would ly discouraging advice, but their consequence do better to sell one-half and spend the money had been singularly profitable. These improve- on the other, and borrow beside, if necessary, ments had begun on a small scale at first, but and profit would yet accrue in a greater degree subsequently had been somewhat extensive, and than if he cultivated 200 acres of undrained land. 31 instead of 15 bushels of wheat, per acre, had Mr. N. thought \$35 as much per acre as drainbeen the produce of drained lands, while the ing would cost, and \$20 per acre more than it crops were less subject to parasitical diseases, might amount to in some places. He concluded and earlier brought to maturity. Besides, a good by giving a very interesting and instructive view crop was always certain from drained land, when of the philosophy of draining, which he had undrained soils would not furnish one worthy the learned from experience. He approved of the cutting. The cost to Mr. Johnson of digging, use of tiles, as in every respect preferable to laying the tiles, and filling, (including the price stones; but the latter ought rather to be used, of tiles) was 28½ cts. per rod. The land was not than improvement should be neglected. what was called wet land. It had a clay subsoil, He briefly alluded to the science of draining as useless? followed in Scotland, stating that the improve-'oose subsoil, without any intervening impervi-the surface, carrying the manure with it. ous stratum, or hard pan.

vor of thorough drainage on nearly all descrip- ture, was called on to speak of certain improvetions of soils, as furnishing the best and safest ments on the farm at the State Reform School condition for every description of cultivation, in the way of draining. He could not speak of Deepening the soil was of the highest advan-expense, as the labor was done by boys. The tage to crops-to show which fact, Mr. French land was wet, and subject to remain in a semimentioned that he was informed that the roots flowed state. As to the results, little definite inof corn had been traced 15 feet in the soil, clo-formatian could be given, as the improvement ver roots 23 feet, and strawberries 4 feet. Were was only a year old; but, last spring, the land such conditions furnished trees as would enable could be worked as early as any other part of the them to throw out their roots without obstruc- farm. It took several years before the full tion, there would be no more complaint of their amount of draining benefit could be realizedbeing heaved out by frost in the spring. He hence the present impossibility of speaking of

Mr. Nourse, of Bangor, Me., drained a field about \$50 an acre, or less, according to circum- in 1856, and last year he had 45 bushels of barstances. The remainder of Mr. French's reley, per acre. One aere yielded 51 bushels. It marks showed an extensive acquaintance with was drained 4 rods apart, and the drains from 3 the subject, and an earnest desire to have drain- to 41 feet deep. It was designed originally to cut drains between, but those already construct-Mr. Sanford Howard, of the Cultivator, ed had worked so well as to make this design

Mr. J. W. BUCKMINSTER, of the Ploughman, and was very apt to bake in summer, chill in was doubtful concerning this fancy style of tilewinter, and heave in spring, which evils had draining, and wished to know why it should subeen obviated by its drainage. While Mr. How-persede open drains? He also felt anxious to ard believed in the general benefits of draining, know where the profit of this underdraining lay; there were lands, he thought, that would not re-in particular, where drains should be made in ormunerate the farmer for the labor and expense. der to be profitable, and where they would be

Mr. SANFORD HOWARD answered the first quesment in Ayrshire had been equivalent to a doub-tion by stating that open drains, during showers, ling of the produce of the land. On the eastern would carry away fertilizing matter laying on the coast of Scotland the land was somewhat differ-|surface, whereas, by the water being forced down ent in character, and the profit had not been so to the drains, through the soil, the sediment was great. From 23 to 3 feet was the approved depth retained in it, and extra fertility would be the of drains, where experience had proved the ques- consequence. When in Scotland, he saw a man tion of what was the proper depth. The soil jamming clay into his drains in order that the Mr. Howard would except from draining advan- water should get into them from underneath, and tages, were those porous soils which rested on a not flow over their tops to the outlet, or along

Mr. BUCKMINSTER would content himself with Mr. FLINT, Secretary to the Board of Agricul- a homeopathic dose of such fancy, costly drains,

as he deemed it, everything considered, the most and found it there almost entirely vegetable matlikely to be safe to take. His question as to ter. One of my neighbors told me he had dug what soils should be excepted from drainage had the number of acres of this kind of land on this not been answered.

draining; and recommended a "little farm well some ten miles, and the meadow on its banks to tilled" in preference to the rage for too much be about thirty rods wide.

Now, these mill-owners claim the right to flow land, which was so common. His own experience this land at pleasure. I have before me the hisshowed him that drainage was the most profitatory of Chelmsford, and in this we get an idea of ble of all improvements—was in truth the parent their right and privilege. The author of this of all that was successful in agriculture. He felt satisfied with the answer given to the question which the present owners claim their right, perrelative to open drains, but thought open ones haps it may not be amiss to quote what the recbetter than none; and, in the case of cultivated ords say, as doubtless hundreds of others are forests, it was absolutely essential. He believed similarly situated. all lands would benefit by drainage—no matter what their character or position-provided drain- was granted to Samuel Adams, in consideration age was possible; and Mr. Buckminster acknowl- of his setting up a saw mill, 450 acres of land

evidence of the profitableness of draining, and log for the providing and bringing of another to that it was no fanciful improvement, after which be ready to work the next March. the meeting adjourned.

The question for next Monday evening will be, "The best Breed of Horses, and the best modes agement, they passed an order, that no other of breeding with reference to the wants and the corn mill shall be erected for this town, provided interests of New England Farming."

For the New England Farmer.

RIVER MEADOWS.

numbers of the Farmer, that an effort is being was not the custom to flow these meadows in the made to redeem some of the river meadows in summer till after the crops were off. this vicinity. This is a good move, and is what The present owners of these privileges obshould have been done long ago. That these tained their right by purchase, consequently no lands are the most valuable in the State, for law or force should be brought to bear upon farming purposes, there is no doubt. When we them without full and just compensation. Theretake into consideration their close proximity to fore, I have thought that if an arrangment could some of the largest cities in New England, with be made with the mill-owners on this and Conlarge and populous towns all about them, and cord River, and perhaps others, by which the the soil being of such a nature, deep and mel-gates should be raised on the first day of April low, without stones, and being composed largely and shut down on the first day of October in of vegetable matter, thereby rendering them ale each year, it would be all that was necessary for most inexhaustible, and when we take into act he grass and cranberry crops. Then we could count the natural washings they receive from adgather these crops without having them several jacent lands, &c., it seems too bad that they times inundated, thereby rendering them almost should be rendered almost worthless, merely to worthless. accommodate a few old mills that are but little profit to their owners or any body else.

In this town there is a small river which has its source in Hart Pond, and runs in a circuitous route through Carlisle, then back into During the months of September and October, Chelmsford, and empties into Concord river in throughout the United States, wherever there times when it is wanted.

various depths. I have dug down seven feet, fall of the year condense it, make it heavy, and

river, I do not know, but should judge from the Mr. LEANDER WETHERELL spoke in favor of mouth to the source of the river, as it runs, to be

"FIRST SAW MILL-July 3, 1656.-This year age was possible; and Mr. Buckminster acknowledged this to be an answer to his second query.

Several other gentlemen spoke; principally in boards at three shillings per hundred, or saw one

> "FIRST CORN MILL.—To this were added a hundred acres in consideration of his erecting a eorn mill, and to give him still further encourthe said Adams keep a sufficient mill and miller. In 1661 he obtained liberty to set flood-gates at Hart Pond to himself and his heirs forever."

Evidently, this was a wise arrangement at the time, but to say that it is so now, is the height Mr. Brown :- I learn by a few of the last of folly. Then, again, I have been told that it

T. J. Pinkham.

Chelmsford, Feb. 18, 1859.

NIGHT AIR.

Lowell, about one mile from its mouth. This are chills, and fever and ague, intermittents, or stream is called River Meadow Brook, and may the more deadly forms of fever, it is a pernicious, easily be found on the county maps. On this and even dangerous practice, to sleep with the river there are two mills where lumber is sawed outer doors and windows open; because miasm, in the winter and spring, and grain ground at all marsh emanations, the product of decaying vegetation-all of which are different terms, express-On the banks of this river are some of the best ing the same thing—is made so light by heat, lands to look upon that the eye ever beheld; that it ascends at once towards the upper portion and they are as good as they look. The vegeta of atmospheric space, and is not breathed during ble deposit of which this land is composed is of the heat of the day, but the cool nights of the

it settles on the ground, is breathed into the lungs, incorporated into the blood, and if in its concentrated form, as in certain localities near Rome, it causes sickness and death within a few hours. The plagues which devastated Easteru countries in earlier ages, were caused by the concentrated emanation from marshy localities, or districts of decaying vegetation; and the common observation of the higher class of people was, that those who occupied the upper stories, not even coming down stairs for market supplies, but drew them up by ropes attached to baskets, had entire immunity from disease, for two reasons, the higher the abode, the less compact is the deadly atmosphere; besides, the higher rooms in a house, in summer, are the warmer ones, and the miasm less concentrated. The lower rooms are colder, making the air more dense. So, by Wood Anemone, Columbine, and the smaller keeping all outer doors and windows closed, es- species of ferns. pecially the lower ones, the building is less cool and comfortable, but it excludes the infectious air, while its warmth sends what enters through the crevices immediately to the ceilings of the EXPERIMENTS IN RAISING OATS AND rooms where it congregates, and is not breathed; hence is it that men who entered the bar-room and dining-saloons of the National Hotel, re- requested me to inform them of my method of maining but a few brief hours, were attacked with raising the oats and potatoes, recently reported the National Hotel disease, while ladies who oclin your paper, through the columns of the Farcupied upper rooms, where constant fires were mer. burning, escaped attack, although remaining in the house for weeks at a time. It was for the raised corn the previous year. The ground for same reason that Dr. Rush was accustomed to the corn was prepared as follows: I applied advise families in the summer time, not being thirty loads of stable manure to the acre, plowed able to leave the city, to cause their younger chil-in, and ten loads of hog manure per acre, in the dren, especially, to spend their time above stairs. hill. In the fall I planted and harrowed the We have spent a life-time ourselves in the West ground. Last spring I applied twenty loads of and extreme South, and know in our own person, stable manure per acre, plowed in, then plowed and as to those who had firmness to follow our and harrowed it again. Planted it with Danvers recommendation, that whole families will escape red potatoes; rows three feet apart, and the hills all the forms of fall fevers who will have bright eighteen inches apart. Seed small, cut once, and fires kindled at sunrise and sunset in the family-two pieces in a hill. I planted twelve bushels cure observance in more than one family in one between the rows twice, also the cultivator twice. thousand. After the third frost, and until the The second time hoeing, I plowed twice between fall of the next year, it is an important means of the rows. Raised 505 bushels on one and onehealth for persons to sleep with an outer door half acres, good size and sound. or window partly open, having the bed in such a The oats were raised on ten acres green sward position as to be protected from a draught of air, and three acres old ground. Soil, dry loam. We advise that no person should go to work or Plowed in the fall eight inches deep, harrowed take exercise in the morning on an empty stom- thoroughly in the spring before and after sowing, ach; but if it is stimulated to action by a cup of and rolled. When the oats were three inches coffee, or a crust of bread, or apple, or orange, high, applied 150 pounds of plaster to the acre exercise can be taken, not only with impunity, -no manure. Seed 3½ bushels per acre. Raised but to high advantage in all chill and fever local- 725 bushels. ities.—Hall's Journal of Realth.

FLOWERS FOR ROCK WORK.

One of the most interesting sights in a garden, is what is called artificial rock work, where the and nearly 56 bushels of oats per acre. plants, which we are accustomed to see growing wild in our pasture, are transferred from these localities to the garden, where they are planted Hill, N. H., upon the attractions of the "Masaround, and into the interstices of rocks. These coma Valley," is written with feeling and poetic appendages to the garden are not so common imagination, and gives evidence of a highly culhere as in the old country. In England may tivated taste. But as the scenic descriptions have sometimes be seen a hundred or more varieties been given before, it is not necessary to publish rock-work.

In erecting rock work, it should not be built up to resemble a pile of loose stones, nor regular in its outline; the rocks must be large and rugged, of rude forms, the spaces between them may be filled in with small stones, and the paths around may be irregular. This ornament to the garden should be placed in a half-shady situation, as most of the plants used require moisture and partial shade. A few of those varieties best suited for this purpose are, the Blood Root, Early Anemone, Saxifraga Vernalis, Rock Geranium, Partridge Berry, Mitchella or Checkerberry, Linnea Borealis, Blue Houstonia, Epigea, or Ground Laurel, White and Yellow Dalibarda,

For the New England Farmer.

POTATOES.

Mr. Editor:—Several of your readers have

The potato ground is dry loam, on which I But it is too plain a prescription to se- on an acre. The first time hoeing, I plowed

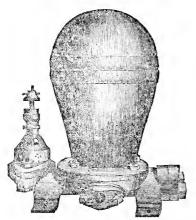
WILLIAM HANSON.

Barre, Vt., Feb. 22, 1859.

REMARKS .- A good example for us, gentlemen; 505 bushels of potatoes on 12 acres of land,

The article from Mary E. C-y, George of ferns, of different forms and shades, in one her article. She ought, however, to cultivate her talent for writing.

W. & B. DOUGLAS'S HYDRAULIC RAM.



For the purposes of Irrigating Lands, and Supplying Dwellings Barn-yards, Gardens, Factories, Villages, Engines, Railroad Stations, &c., with Running Water.

One of the first considerations in locating a house or barn is to select a site that water—pure, soft water, may be supplied in abundance at little cost. A commanding site—some dry hill, from which one may look over the tops of his neighbor's chimneys, proves an expensive place, always, for water. In how many homes that are elevated "the women folks" complain bitterly for the want of plenty of water. How poor it does make a man feel to be obliged to tackle up his team and take the scow and draw home a couple of barrels against washing-day.

I saw a selection made of some building-lots the past season that was most unfortunate. land was gravelly, and so elevated that the wells must prove a heavy item in the cost of the home. Then, too, after a deep well has been dug and paid for, the pumping of the liberal quantity of water which an establishment requires, is the hardest work done on the farm.

It will do for wealthy people to build on hills. It is not economy for those who expect to earn their living, to build on elevated situations. Other considerations, besides the facility of getting water, should prevent.

But a great many people live in houses that others have builded, and must continue by pump or bucket, or some other way, to get their daily supply. It is my wish to suggest to some of your H. Spring or Brook; C, Drive or Supply Pipe from Brook to readers how they may have running water in their houses and lands, at an expense, perhaps, within the reach of all.

It is very true that a large portion of the farms of New England are destitute of springs and advantage.

DESCRIPTION OF THE RAM.

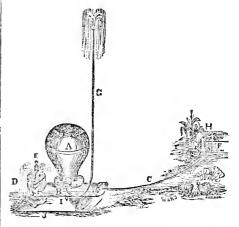
The cut at the head of this article gives a very good representation of the hydraulic ram. The air chamber in the centre is most prominent. This can be readily detached by turning off four screws. A valve is placed at the bottom of the air chamber, not seen in the engraving.

The valve enters the machine on the right. A convenient arrangement for attaching the drive pipe, and, also, the service pipe, is seen near the bottom of the ram.

The "puppet valve" is on the left. It is attached to the spindle, which rises and falls with the working of the machine.

HOW IT OPERATES.

The ram has two valves. One is called the puppet valve. This is so nicely balanced that it opens when the stream in the driving pipe is at rest. As soon as the stream has acquired its full velocity, the pressure on the valve, through which the water passes, is just sufficient to close it again. Now it is plain that the stream suddenly stopped in the driving pipe must press with great force against the second valve placed at the bottom of the air chamber. The valve opens, and a portion of the compressed water in the driving pipe is forced into the air chamber. The service pipe connects at the bottom of the air chamber and the elasticity of the air presses out a continuous stream. Here is the ram, with the pipes attached and in operation.



Ram; G, Discharge Pipe conveying Water to House or other point required for use; B, D, A, E, I, the Ram; J, the Plank or other foundation to which the Machine is secured for use.

THE POWER OF THE RAM.

To enable any person to make the calculation small brooks. But many have them. I know as to what fall would be sufficient to apply to the of hundreds where it is perfectly convenient to ram to raise a sufficient supply of water to his obtain a supply of water to drive an hydraulic premises, for any ordinary distance of say 50 or ram. A well may be dug deep in a moist place, 60 rods, it may be safely calculated that about near the foot of a hill. This will drive a small one-seventh part of the water can be raised and ram and deliver a portion of water wherever you discharged at an elevation above the ram, five please. Then there are brooks very common, times as high as the fall which is applied to the The water is not so desirable as that of springs, ram, or one-fourteenth part can be raised and but still it will do for washing and for stock. discharged, say ten times as high as the fall ap-Wherever you can raise a dam on a brook of two plied, and so in that proportion as the fall or rise feet, there you may make a ram work to great is varied. Thus if the ram be placed under a head or fall of five feet, of every seven gallons

fall applied to the machine of every 14 gallons drawn from the spring, one gallon may be raised to the height of 100 feet above the machine, and so in like proportion, as the fall or rise is increased or diminished.

A year's experience with a hydraulic ram has enabled me to give further suggestions for which

you may find room another week.

I have written the above without the slightest interest in the sale of the ram, and wholly to recommend a truly deserving invention.

Concord, Mass.

W. D. B.

TO CORRESPONDENTS.

"A Subscriber," of Salem, will probably obtain the eggs he wants of George Cruickshank, of Whitinsville, Mass.

We have many favors from correspondents on hand, most of which will have a place. Some of them are more appropriate for another season of the year, and will be preserved-such, for instance, as two or three upon the subject of topping and harvesting corn, and one upon making maple sugar, which came when the season had nearly closed. We would inform "G. F. N." ties have heretofore been rather premature in that we do not preserve manuscripts, whether we use them or not. The one to which he refers contained a pleasant anecdote, but matter more to our purpose crowded it out.

sion which we shall mingle in with others as we though the covering with water may be injurious have room-one from Mr. Joslin, of Waitsfield, at the time of flowering and setting of its fruit, Vt., in our next paper; and also one on the cul-still the flooding of the vines in winter, and the tivation and use of the beet.

PUTNAM, of Danvers, but as no new points are the upland culture, will prevent this culture to since considerably modified his opinions.

seed the land to grass he speaks of without the an equal extent in strawberries. This, with the use of manure. Better manure a portion of it whole process, from the first preparation of the and seed it down. The orchard having been cul- land-the placing of meadow or swamp mud betivated and manured for several years, may be tween the rows in mid-summer and the covering laid to grass for two or three years-especially if with evergreens in winter-must bring all to the sowed to clover-and not injure the trees. It conclusion that the upland culture of cranberries, should then be plowed and cultivated again.

Information by Letter.—A correspondent from farmers. L--e, Mass., wishes to put three acres into grapes, currants and gooseberries, and desires us several years, and became satisfied that the best to write him what it will cost per acre, and give way is to select a piece of land, either on the such other information as will promote his en-|meadow, or its margin, where it its naturally terprise. All this would afford us pleasure if it moist, cover the grass entirely with sand or gravel, were in our power to comply with his request, say to the depth of three or four inches, and set especially as his letter is accompanied with a the vines in it, within six or eight inches of each stamp for the return letter, and an expression of other, and keep them entirely free from weeds.

drawn from the spring, one may be raised 25 willingness to pay for all trouble. Let us call feet, or half a gallon 50 feet. Or with 10 feet his particular attention, and that of other correspondents, to our position for a moment. We have from three hundred to six hundred letters a week, and many of them of a character similar to the one before us. Now, how many clerks would it require to answer their queries of this nature, and answer them considerately, so that they would not mislead, rather than be beneficial? Our correspondent must see that we can not reply to him, although we have every disposition to do so if it were in our power.

> We will state to him that we do not keep the articles for sale which he wants, nor any others, excepting a few agricultural books, but he may find them among the persons who advertise in our columns.

> Ring Bone.-We cannot inform "N. P. S., North Prospect, Me.," how to apply the medicinc he speaks of. He must write to G. H. DADD, Vet. Surgeon, Boston.

CRANBERRY ON UPLAND.

We have thought that our Agricultural Societheir recommendation of the upland culture of this fine fruit. As "one swallow does not make a summer," neither will one experiment justify us in commending this method. All know that We have several articles on the turnip discus- the cranberry is natural to the meadow, and alcovering with litter or evergreens to protect the We have another article on pruning from Mr. roots from a severe freezing, as is practised in introduced, and as so much has already been any extent. In order to be remunerative, these said on the subject, we will postpone its publica- beds or patches must be made on the meadow, tion for the present. We would say to Mr. P., or upon a springy soil. The owner of a considhowever, that the gentleman whom he quotes in erable patch in Essex county recently stated that support of his theory has probably sometime it would require five times the labor to keep the same amount of land well weeded out, devoted to "E. L.," New Bedford, will find it difficult to cranberries, that it would to keep clear of weeds so called, ought not to be recommended to our

We gave the matter a pretty thorough trial for

TURNIPS ARE A PROFITABLE CROP.

garding the cultivation of rutabagas have lately also good for producing beef and milk, although appeared in your journal, and some farmers of I certainly prefer beets for the latter purpose, experience, even, seem yet to be undecided, notwithstanding it costs more than double the whether they are a profitable crop, or even will expense to raise them. pay for raising. In your last No, February 12,

tities have been raised, and will be again.

cultivation and use of that valuable.

crops.

three acres of corn. It is also an old and well-established fact, that young growing cattle and at the rate of 804 bushels per acre.

In conclusion, I may here state, that in conseswine will thrive, and grow faster, on turnips, quence of the barn that contained all my hay,

than any other description of food; and every farmer who has cellar room to preserve them in winter, ought to produce a liberal quantity of MR. EDITOR: -- Several conflicting accounts re- them, every season, for that purpose. They are

On the farm that I now cultivate, there are your correspondent, Otis Brigham, asks the two acres of neglected, hard, gravelly land, that question, "When compared with other crops, are prior to last June had not seen a spadefull of they worth raising?" My answer to that gentle-manure, and had been cropped with rye for the man is, that like himself, I have raised them for last four years in succession preceding that date, the last 45 years, in quantities varying from one by a former tenant, by which means it had beto twenty acres, each season, and find them, when come a real consolidated sward of switch or compared with corn and other farm crops, deci- witch grass, and thought by many to be past rededly the most profitable of any crop that I have demption, for any kind of crop. In June last I cultivated in this country or in Europe, during made an attempt to break it up with a double that period. Mr. B. admits, that he raised 500 team, but only succeeded in scratching the surbushels, on half an acre of ground, last year, when face with plow and harrows, so as to change its and where nothing else could be raised.

That quantity exceeds, considerably, what I row for awhile, I marked it off into rows three have ever been able to produce, even under the most favorable circumstances; still I do not cabbage, and planted the piece with rutabagas, doubt the estatement as I have retained. doubt the statement, as I know that such quan-finishing on the 3d July. All the manure I had for the two acres, was the scrapings of the dung-Now, taking into consideration, as Mr. B. ex- yard, which was deposited in the hills, in the usu-presses himself, that they will grow where and all way, at the rate of not more than two and a when nothing else can be raised; I would sim- half cords per acre. The seed was dropped on the ply ask the reason why they should not be worth top of the manure and covered with the foot; raising; or in other words, why will they not pay? the ground being too rough to admit of any He admits that they are good food for cattle, &c., speedier method of planting. The seed germinatand yet appears to be in doubt with regard to ed quickly, and in less than three weeks, the piece them as a remunerating crop. Is Mr. B. aware, was fit for thinning, and much in need of hoeing, that his 500 bushels are now worth in Boston or and the final result was an excellent crop of the New York market \$165 wholesale? or at the rate handsomest turnips that could be produced unof \$330 per acre, which I should think is a pretty good return, and ought to satisfy any ordinary man on the subject in question. To go into dewhich their cultivation was beset; and the tops tail, however, would occupy too much room in were so luxuriant, that they rotted, or choked your valuable paper. Allow me, therefore, to out every vestige of switch grass, and the piece state a few simple practical facts, regarding the is now as clear of that obnoxious weed as any diviation and use of that valuable.

In the first place, a tolerable crop of bagas can bushels, but if it be taken into account, that in be raised on ground too poor to produce almost anything else, and that with comparatively little ground—the hills were far apart in many places—manure, say 3 cwt. of guano, or the price of it in it may be safely computed, that at least a third it may be safely computed, that at least a third it may be safely computed, that at least a third it may be safely computed. bone meal, per acre, which quantity would scarce-more weight might have been produced, had the ly make any impression on an acre of corn, or ground been under a better state of cultivation. potatoes, &c. &c., and fair crops are often raised. This experiment corroborates, however, in a cerafter hay and early potatoes have been removed, tain degree, what Mr. B. says about turnips the same season, as bagas can be planted success-growing when and where nothing else can be fully any time during the month of July, and even raised. On another piece, half an acre in extent, later' some seasons; and by leaving the tops on from which a tolerable crop of hay had just been the ground, to be plowed down, immediately af-removed, I planted rutabagas on the 19th of Juter the roots are removed, will overbalance any ly, and had a fair crop, 320 bushels of good sized bad effects that their exhausting properties may turnips. The piece received about two cords of have on the land for producing the subsequent sea-weed and dung-yard scrapings, which was harrowed in on the plow furrow, and the seed de-A luxuriant crop of bagas will clean the ground posited by the machine in rows, 18 inches apart. better than any other hoed crop; and if properly The next and last piece appropriated to that crop treated, will effectually eradicate every vestige of last season, was half an acre of rather clayey sort switch or witch grass, that common curse to of land, where a crop of onions had been cut off cultivators of the soil over the world, and the ex- by the maggot. These were deposited by the pense for labor will not exceed that of an acre of sowing machine in rows 18 inches apart on the corn or potatoes. It is a well established fact, 3d of August, and as the ground had been heavthat an acre of good bagas, fed out to cattle, will ly manured for the onions, it produced 402 bushproduce more manure, and of better quality, than els of handsome turnips after that late date; or

cattle and horses, &c. &c., being consumed by associations as a kind of normal school for the fire, with all its contents, last fall, I have been education of the great mass of the people in they will compare favorably, and look as well in old fossil prejudices may be compelled to give the meantime, as any around that have been way to clearer views and better practices on the feeding on English hay and grain, which con-subject of farming. These social gatherings will are worth raising, notwithstanding all that has deeper interest in the subject, and of diffusing been written and said against them lately.

THOMAS CRUICKSHANK.

Beverly Farms, Feb. 14, 1859.

For the New England Farmer.

FARMERS' CLUBS OR TOWN AGRICUL-TURAL SOCIETIES.

paper, that you are still wide-awake, and active, too, on the subject of Farmers' Clubs or Town Agricultural Societies. You have visited, it seems, several towns in Cheshire County, N. H., and endeavored to create a deeper interest in the subject of farming. Had you given previous notice, in your paper, of your intended visit, and of the object you had in view, we should, several of us, have been there to see and hear for ourselves, and you would probably have received an invitation to address our own town society, which has now been in existence and in successful operation a little more than a year. I say in successful operation; because, though we have done little more than hold discussions on subjects of the highest importance to us as farmers, yet our discussions have been listened to, and participated in, by a class of persons who never would have been benefited by the discussions of a county or State society. In fact, we have made up our minds that, if the people will not go to hear the discussions, then the discussions must be brought home to them. Our field of missionary labor is at home, and every farmer is expected to take a part in it, at least to give his opinion upon every subject under discussion. In this way, we compare notes with each other, and make a profitable exchange of our experience. Though there is a good degree of harmony existing among us, and a very general interest manifested in the attendance upon our meetings, yet we do not always agree upon every subject, because we are not all equally well-informed upon every subject, cities. Farmers and gardeners are not, however, have not all enjoyed equal advantages for information, and our individual experiences have been different. Still, I would mention as the result of our last year's discussion on one topic, "the cutting and securing of the hay crop," that it was better done, and in better season, than in any previous year; and the crop of hay is worth more had again and again beaten the finest armies of money. Now, if we can only make an equal improvement in some other branch of husbandry every year, we shall be doing very well; and some of us have faith to believe, that we shall even do better. Be this as it may, we are determined to do our best.

I have made the above few hasty remarks, not similar efforts elsewhere. I regard these town bles for fifty years previous.

under the necessity, for the first time in my life, which the old and the young enjoy equal privi-of keeping my cows and oxen exclusively on corn leges, and may be each other's instructors, and butts and turnips; and I do not see, but what helpers of each other's joy and labors; and where firms me still more in the faith, that rutabagas be the means of creating a more general and throughout the length and breadth of our land a greater taste for agricultural pursuits. These little town societies, though humble in their origin, are the fountains, from whence are to proceed all the streams of scientific, experimental and practical knowledge, which are to elevate the character and extend the influence of farmers. These are the fountains, I say, whose streams running through every vein and artery of the Mr. Editor:—I learn from your interesing body-politic, are to give energy and respectability to our calling; and, without whose vivifying influence, the science of agriculture will continue to be greatly neglected, if not despised.

It is true, that farming is a humble, toilsome and laborious occupation. With many, the tiller of the soil is regarded somewhat in the character of a slave, as low-born and low-bred. This is the opinion of the frivolous and the ignorant, who still continue to depreciate and despise rural pursuits and pleasures. But it should be borne in mind that they equally depreciate and despise all labor, all industry, all enterprise and all effort. There is nothing in farming inconsistent with great intellectual and moral cultivation; and there is no pursuit that rewards so liberally with health, and wealth, and honor, as farming.

John Goldsbury.

Warwick, Feb. 9, 1859.

SEA KALE.

Why is it there is such an aversion to adopt any new article for culture? How slow were most cultivators for years in raising the tomato, spinach or rhubarb. Some of these were cultivated in the gardens of the amateur some twenty years before they came into favor by our market raisers; the salsify is still hardly known as a marketable vegetable, while the sea kale can rarely be found even in the markets of our large the only ones that are thus slow to receive valuable novelties. The medical faculty of Paris, it is said, proscribed as poisonous, the potato, one hundred years after that plant had raised millions of vigorous troops, who, under Marlboro', France.

The sea kale is said, by Dr. Curtis, to "centre within itself all the good qualities of the cabbage tribe, and as a purifier of the blood in the spring, it cannot be too highly recommended." This plant, when first introduced into cultivation forts in forming a town society for the discus- in England, was said to be one of the most valusion of agricultural subjects, but to encourage able acquisitions made to their culinary vegeta-

The sea kale is of easy culture, either by seeds, by Montaga, that the venerable Dr. Latham, a ever, is the most preferable. Any land in good heart will answer. The seed should be sown about two inches deep, the ground pressed down

The eccentric English ornithologist, when in his minety-first year, was as delighted in seeing a specimen of a new bird, as a boy on finding his first bird's nest!

The eccentric English ornithologist, Charles with the spade or hoe, and in about three weeks Waterton, has given us an amusing account of the plants will make their appearance; these the means employed by his instructors to counshould be thinned out to about one inch apart, and they want little attention other than to keep their endeavors to destroy his enthusiasm, may

plants of decayed leaves, bend over the tops History," published in 1857 when in his seventycarefully, and cover them with litter. The following spring the seedlings having made strong, old, I had managed to climb upon the roof of healthy plants, should be transplanted into an outhouse, and had got to a starling's nest unridges two feet distant; they will then produce der one of the slates. Had my foot slipped, I what is called the *crown*, or edible part at the top of each. It is a very lasting plant, producing as strong shoots or sprouts at eight or even top of each. The account of the barn owl, had ten years old as they did at four. The sea kale cast her rambling eye upon me; seeing the danbeing a maratime plant, a slight dressing of salt ger I was in, she went and fetched a piece of to the soil previous to setting them out, will gingerbread, with which she lured me down, and greatly benefit their growth. This vegetable is cooked in the manner of spinach and other north of England, where literature had scarcely greens.

For the New England Farmer.

ORNITHOLOGY.

BY S. P. FOWLER.

of our feathered tribes. He remarks, "birds are, in general, social and benevolent creatures, intelligent, ingenious, volatile, active beings." J. P. Girard, the author of the Birds of Long has recovered from the chilling blasts of winter, and again puts forth her rich foliage, what can be more delightful, than to listen to the rich melody of our songsters, robed in their nuptial plumage, perched on the branch of the rich magniful again their suplendid ettire with study the Cape of Good Hope;" wherein he says, "the colors they delight our eyes; being very ornamental to the world, and rendering the country where the hedges and woods are full of them, very pleasant and cheerly, which without them would be no less lonely and melancholy; not to mention the exercise, diversion and recreation which some of them give us." We are informed. which some of them give us." We are informed very strange one, or that it is hampered under

slips, or pieces of the root; that from seed, how-distinguished English ornithologist, when in his

be learned from his autobiography, and the read-At the commencement of winter, clear the ing of his admirable "Third Series on Natural any effect upon me, although it was duly administered in large doses, by a very scientific hand; but I made vast proficiency in the art of finding birds' nests. It was judged necessary by the master of the school to repress this inordinate relish for ornithological architecture, which, in There is probably no branch of Natural Sci-his estimation, could be productive of no good. ence that has enlisted so many ardent admirers Accordingly, the birch rod was brought to bear as Ornithology. The readers of the Farmer are no doubt aware of the enthusiasm displayed by Wilson, Audubon and Nuttall. William Bartram, one of our earliest naturalists, was a great lover and clear. Thus are bright colors in crockery

To my mind, language used by modern natu-Island, says, "it his opinion that those who pass ralists, expressive of their great love for birds, through life without stopping to admire the appears tame when compared with the enthusibeauty, organization, melody or habits of birds, asm discovered by some of the old authors. The rob themselves of a very great share of the most enthusiastic language we remember to have pleasures of existence. In spring when nature read upon the importance, or rather pleasure, to nolia, arranging their splendid attire with stud- beauty, the variety and music of the feathered ied care, as if jealous the swelling buds would nations are enchanting delights; and their input forth blossoms that would rival them in beau-ty?" John Ray, the father of British Natural amusing. I cannot help adding a reflection or History, in his work entitled "The Wisdom of God manifested in the Works of Creation," published in London in 1727, remarks, when speak-signed by Heaven as a kind of soothers and softing of birds, by their melodious accents they eners of the chagrin and melancholy of human gratify our ears; by their beautiful shapes and life, and a sort of counterbalance for the dull, a strange sort of organization, who is not sensible to the melody of the feathered nations; and can people have a relish for the music of those beautiful warblers, and not a curiosity to look into their history; not a desire to know their make, their instincts and their economy; the knowledge of which is both profitable and entertaining? The variety of their abodes, habits and instincts, their various make, music and embellishments, are matters of the most delightful amusement. part of them unprovided with matter of very noble and very useful contemplation." What writer in modern times, has so earnestly and enthusiastically set forth the claims of birds upon our attention, as did this old author, more than a century and a quarter ago?

Danversport, Feb. 3, 1859.

NINTH LEGISLATIVE AGRICULTURAL MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

The attendance at the Legislative Agricultural Society's weekly meeting, on Monday evening last, was not so large as is usual. The subject for discussion was—"Horses: the best method of breeding, with a view to the special interest of New England farmers."

Mr. Sanford Howard, of the Cultivator, presided. In opening the discussion, he stated that it had been arranged that the question as to breed should be confined to the purposes of the immediate locality. But no single kind of horses could be recommended to breeders in this locality, as three kinds were prominently required among us-the heavy cart horse, the coach horse and the roadster. The heavy draft horse, owing somewhat to the disqualification of soil in this Commonwealth, could be more profitably bred in a more southern and western situation. draft horses, in this country, he might remark, were not so strong or perfect as the Clyclesdale breed in Scotland, and the Suffolk Punches of The latter were much hardier and stouter, and less liable to leg ailments. The coach horse, also, could not be profitably bred in this section. With the roadster, however, it was different. Our Morgans, especially those with a dash of the Black Hawk blood, were superior to any that could be found in Europe.

With regard to breeding, a standard of merit should first be fixed; and if material was not to be found which would come up to that ideal would have to go on with what material we had from the race horse, as the properties of the com-

The special point of value in the hunter was a great power in the hind legs, which enabled him to take extraordinary leaps; whereas the qualities of the trotter, to be perfect, demanded a proper and equal distribution of muscular power over the whole body of the animal. Mr. H. read several authorities to prove his position, and to show that a racing animal, or crosses from such, in Nor are the preying, the mute or the unmusical equal properties of blood, would never make trotters. The mode of breeding adopted—according to Lawrence, and the author of "British Rural Sports" - with the greater success, was the coupling of the hackney mare and stallion, both of which have been bred as roadsters. These authorities, however, gave all the praise to American trotting horses-as being so greatly superior to all similar descriptions to be found in Europe as to be considered nonpareil. Further, they upheld that the less racing found in a roadster the better. Englishmen advocated bringing their breeding stock from America; and absolutely laughed in their sleeves at the idea of Americans going to England for animals to improve their roadster stock. This was to be looked on as a very high compliment, and showed decidedly that we had all the materials of improvement among ourselves. There had been no cross of the English Norfolk roadsters with the racer, during the past twenty years, and none was certainly demanded here among us, where perfection had so eminently excelled that arrived at in England. Mr. Howard combatted the idea that the importation of thorough-bred blood into our breed of roadsters would give greater uniformity in symmetry and color. The racer was made up of a medley of bloods, many of them very different in the representation of physical characteristics; and such assurance as had been argued in favor of racer blood could not be relied on. The properties of the racer were peculiar to the animal, and were of no value whatever if imparted to animals designed for different purposes; therefore let us cultivate our own breed of roadsters, as we have them among us.

Dr. Wood, of Boston, was called on to speak, and stated that he was not of the belief that racer blood was an improper element to impart to the roadster. Experience had said so. In 1791 old Messenger was imported into N. Y., and his blood is generally diffused there among the best trotting stock. From that horse came standard, here or elsewhere, the improvement Lady Suffolk, Trustee, Hector, Ajax, Celeste, and a great number of others; and many other noon hand. The roadster should never be bred ble animals came directly from racing bloodamong them the late Black Hawk, which came mon roadster and the racer were very different. from a thorough-bred mare brought into this The hunter, which was a cross with the racer, in State from Canada. It was, therefore, plain that mechanical conformation, was not adapted to the the racing blood was an important element in ises to which the common roadster was put. our best roadster stock. The very best the country can boast of came from a three-fourth thor- horses were superior, too, to those of the districts ough-bred Hambletonian mare.

trifle of thorough-bred blood was a good element Maryland, he was sure to have northern blood in a roadster; and the previous speaker would in him. Instead of improving the breeds there, recollect that the Messenger horse had the re-the racing blood made them a nuisance as roadpute of having vulgar blood in him.

had evidence that corroborated what had been our own; on the contrary, it proved the policy of said by Dr. Wood; and that gentleman quoted Englishmen coming here to purchase our stock the unsurpassed feats of Trustee in proof that for improvement. Her best breeders had acthere was no stock more hardy and capable of knowledged the superiority of our horses. One endurance than the thorough-bred.

ing from 900 to 1050 lbs., hardy, well made, ca-|racer. enies of great endurance, not speed, for the speed tended to than they had been. had been engrafted on the stock since, and that Mr. Buckminster, of the Ploughman, spoke thorough-bred! The history of horses produced form. by thorough-breds, did not show such trotting been failures here, for the produce had neither would be the result. symmetry or substantiality about them. We cer-

where thorough-bred stallions were used. If a The President had not denied the fact that a good roadster was to be found in Virginia and sters. This was not encouraging to the friends Mr. FAY, of Boston, from his own experience, of importing horses from England, to improve of the most eminent, declared that he had never Dr. Loring, of Salem, thought the discussion seen such a horse in England, and that they had taken a course foreign to the original inten-could not raise such horses there. He further tion. Farmers did not wish to breed cart horses, added that no where in the world could such or trotting horses, but good, substantial, useful horses be produced, as he had seen here in New animals, that could be used for general purposes. England, in our own State-and they were not Such breed we had here in New England, weigh- directly, but very remotely allied in blood to the

pable of great endurance, fair drivers, and pa- Mr. WETHERELL, notwithstanding all that had tient under fatigue and hardship. They were been said, was of the belief that our stock of very valuable to the farmer, although they might horses was very much indebted to thorough-bred not be exactly alike in all parts where they were blood, in similar measure as our cattle had been. found. Out of the farms, the plows and furrows, He also thought that too much stress had been this stock had been taken, and had performed placed on speed among us, and that we had culgreater feats than had been done by any other tivated it at the expense of endurance. The same description of horses. There was, then, no use evil had appeared among the racing stock of in going back to the old Messengers, Trustees, New England. A special point of management Abdallahs and Justin Morgans. They were the _feeding_had also been much neglected, as parents of our present famed stock, but they well as the careful watering, training and generwere not fast themselves. They produced prog- al treatment. These things should be better at-

speed had been frequently remarkable, as records next. He confined his remarks principally to were quoted to show. The Morgans were indeed the exposition of what he called the fallacious remarkable-more so than any other kind, and doctrine of breeding a horse to sui general purthey were not thorough-breds. The author of a poses. No horse could be so adapted, unless he late work on the horse did not recommend the was treated cruelly, by being made to accomplish use of Morgan stallions, because they were not labor which he was not perfectly adapted to per-

Dr. Loring denied that there was any special feats as those got by the Morgans. Why then necessity for breeding for special purposes, as it should racer blood be infused into our stock? was well known that horses could be found in the We did not want our horses to run; they did country doing the common farm work, which not want to run, as it was, but took to trotting could be put to any labor on the road, the field naturally, as they had been bred for that object, or the street without cruelty, but would go into Moreover, the Morgans were adapted for all gen- any description of labor to which a horse was eral purposes, and that was more than the racers physically adapted. Dr. L. commended the use were. Take one of your thorough-breds from the of small horses to large mares; the horse not plow, and ride him to market, and what would more than 16 hands high, symmetrical, compact, he be like at the end of the journey? What ex- and above all things, well tempered. If the conperiments had been made with racer blood, had trary was the rule, heavy bone and Light muscle

The President was of opinion that what neartainly had among us the best material out of est conformed to the Morgan type was the best which to breed good farm horses. We had done model of a horse for general purposes. If he had so, not by management, but by chance, as we had not said so previously, he had meant to do so. nothing but native material to work upon. Our He then announced that the question for next Monday evening's meeting would be, "The culti-vation and management of Hay." Hon. John W. Proctor, of Danvers, is expected to preside. The meeting then edicumed at a quarter west 9. The meeting then adjourned at a quarter past 9 fell in the last five days of the month, doing o'clock.

For the New England Farmer.

REVIEW OF THE SEASON.

In No. 1 of the current volume of the Farmer is a "Review of the Season," by D. Buckland, in which he suggests the utility of similar statistics from other parts of the country. Believing such information may be serviceable to some, and interesting to many, I now respond to the call by extracting from my daily register.

We are situated in latitude 44° N., and nearly on the meridian of Washington. I keep my thermometer in the shade at the north side of

the house, both summer and winter.

The 4th month was dry and warm. Plows were started as early as the 7th. The 12th, grass and grain looked quite green. I found several varieties of wild flowers in the woods the 18th. A heavy thunder shower on the morning cultural papers have articles weekly on this subof the 30th. Mean temperature 43.53°, which is of the 30th. Mean temperature 43.35, which is ject. The conflicting opinions which are there 8.18° above the mean of that month of 1857, and given, we apprehend are in consequence of a 4.78 above the mean of Toyonto for eighteen given, we apprehend are in consequence of a 2.47° above the mean of Toronto for eighteen years.

The first half of the 5th month was dry, but a Lenty of rain fell the last half. The wind blew from some easterly point, 17 days. Mean temperature, 52.16°, which is .63° above that of 1857, and 4.88° below that of 1855. Maximum height of mercury, 74°, minimum, 32°. Cherry and pear trees in bloom the 28th. Early apple trees

began to bloom the last of the month.

6th month. The first half was cool and very wet; but little rain after the 13th, and we had some extremly hot weather. Mean temperature the should not be done before this period; the 69°,—8° above the mean of the same month of the wounds will heal over better at this season. 1857, and 7° above that of 1855. It was also the wounds will near over obtter at this season. It is amusing to hear the different testimony of 8.16° above the mean at Toronto for 18 years. farmers on this matter of pruning—thus, a writ-Apple trees in full bloom the 3d, but some trees near the Lake were white as late as the 16th. A fair quantity of blossoms, enough to produce a or April to bleed." While another, writing from Max. height of mercury, 90° the 28th. Min. 45° Marshfield, thus speaks—"In pruning in April the 1st Man of for 12 h the 1st. last 12 days, 833°.

7th month. First ten days, hot and dry. Rain fell in ten days of the month, but the season for crop about an average. Wheat much damaged by weevils and rust. Many fields were not harvested. Many fields were not harvested. Many factors are not harvested. Many fields were not harvested. vested. Mean temperature 70°,—2.13° below that of 1857. Max. height of mercury, 87°,— Min., 48°. Warmest day the 10th,—coldest the 12th. Difference in the mean of the two days,

The first half of the 8th month was very hot ernmost of all the States of the Union. and dry. In the evening of the 18th, a sudden

considerable damage to crops on flat land.

The temperature of the 9th month was about the same as in the last two or three years. The mean for the month being 61.14°. Max. height of mercury, 85°; min., 32°. Rain fell in only 9 days, yet in large quantities, and the ground was

very wet. First general frost the 23d.

Potato crop pretty good, though on clayey soil they rot badly; not much diseased on sandy land. Corn about an average,—some pieces very good. Fruit almost an entire failure. Buckwheat somewhat damaged by frost.

L. VARNEY. Bloomfield, Prince Edward Co., C. W.

For the New England Farmer.

WHAT IS THE BEST SEASON FOR PRUN-ING OUR FRUIT TREES?

This question is constantly asked; our agriwant of knowledge of the nature of the circulation of sap, as well as in the office of leaves. Nature teaches us in this matter in the grape vine; we all know, that if the lateral shoots of the vine are cut or injured in early spring before the expansion of the leaves, it will bleed; but few seem to be aware that, on the contrary, if we will but wait until these leaves are fully developed, this will not to any extent occur, for the leaves which are analogous to the lungs in animals, by a beautiful economy take up the sap; hence pruning should not be done before this period; the the wounds will heal over better at this season. er from North Danvers says: "I have never Mean of first 12 days, 67°; mean of or May, I have found it impossible, in some instances, to prevent the wounds then made from flowing sap—it would burst off paint, shellac, and everything I could apply. I have known it to continue to flow for two, or even more years."

For the New England Farmer.

CORN CULTURE.

How more than one hundred bushels of Indian corn was raised to the acre, in the State of Maine-the north-

Mr. Willard, of Wilton, Franklin county, Me., change in temperature occurred. Between 6 and says that in 1853, he grew fifty-five bushels, eight 9 o'clock the mercury fell 17°; a further depres- quarts, on half an acre, of merchantable shelled sion of 7° in the night made 24° in cleven hours. corn, fit for use. It was done after this manner; Overcoats and fires were comfortable several a piece of gravelly loam was selected, and finely days, but fortunately no frost was seen in this plowed ten inches deep, and manured with six region,-the earth having absorbed an extra cords of stable manure, in best condition for use, amount of heat in the previous hot weather, had one-half of which was spread and covered by the a surplus to impart to the cold air which came in plow; the other half was placed in the hill. An abundant supply of well-seasoned seed was keep the logs continually wet, they will last for dropped, and the surplus plants were thinned out many years. Conductors, bored, and ready to so as to leave about one plant to each square lay, are sold in this city; they will undoubtedly foot of land. It was carefully cultivated, and kept entirely clear of grass and weeds. Potatoes, pumpkins or beans were among the corn, pipes are excellent, but must be kept from the and none were wasted there.

I have never seen a more rational and satisfactory account of corn culture than this, and although I have heretofore been slow to believe that one hundred bushels of useable corn could be grown upon an acre, still, by the application of the same industry and fidelity that Mr. Willard applied, I believe that most of our farmers could double their crops. Let them begin by plowing as deeply and fertilizing and pulverizing as well, and with the blessing of Heaven, their crops will be as good.

South Danvers, March 4, 1859.

EXTRACTS AND REPLIES.

PLUM ON THE PEACH.

A writer in a recent Cultivator, signed "E. W.," says "that in visiting a Mr. Allen's nursery he learned a fact relative to plum trees worthy of the notice of our horticultural brethren. Near the house are several plum trees of some twenty years' growth, which were entirely free from warts or excrescences. Mr. A. imputed this entirely to the fact, that all his plum trees are on peach bottoms.

This is altogether new to me. Having a few years since cultivated this fruit to some extent, I had a good opportunity, with upwards of fifty distinct varieties, to have seen this; on the contrary, those varieties grafted on the peach root. viz., Bolmar's Washington and Prince's Imperial Gage, all being on this root, were greatly affected, so much so that those trees were the first we were obliged to cut down. I was troubled with these unsightly excrescences to such an extent be injurious? as to render the growing of the plum out of the question, and at once discarded its further cultivation in my soil.

Salem, Mass., 1859.

WATER THROUGH LEAD PIPES.

I have repeatedly noticed in the papers accounts of fatal effects to persons, resulting from the use of water conveyed through lead pipes. Does lead water hurt farm stock? A neighbor whose cattle for many years had been watered at is adapted to, with its value as a fertilizer. the barn through logs from a spring thirty rods distant; the logs getting leaky, he pushed a lead pipe through them, thereby saving much digging. Since that time, his cattle, with as good food and care, appear more lean and less thrifty, and do not shed their coats and look sleek so soon by more than a month after being turned to pasture. Cattle have died soon after swallowing paint, lead and oil, and is it not possible that lead and water may be hurtful to animals? What material is best to convey water through, to quench the thirst of man and beast? AN INQUIRER.

REMARKS .- We have no doubt that water impregnated with lead is hurtful to man and beast. Water is not injured by passing through logs, and where there is a constant stream, so as te cultural societies, tayoned with the bounty of

last many years, if kept all the time wet. Cement

BEES-CRITICISMS.

I see by the Farmer of Feb. 26th, that Mr. Kidder has given in his book a plate like Mr. Langstroth's-"The honored queen of a happy family." The subject is a beautiful one. It is a pity that in copying from Mr. L. he did not correct some errors. Both of them, (Messrs. L. & K.) have over-drawn the matter, it is not exactly true to nature. It is true a few bees will usually give the attention represented. But I never saw such eagerness-such devoted attention by so much of a crowd. It would hardly seem possible for her to move; and among the rest, a drone is making his way into the crowd (an occurrence not often seen,) anxious no doubt for a salute. Another error should have been avoided relative to the shape of the bee; the head is too small, and the body too large, &c.

St. Johnsville, N. Y. M. QUINBY.

FEEDING STOCK.

I have one hundred sheep, three horses and eight head of cattle, and am, like a good many of my neighbors, short of hay. Hay is now worth here \$15 per ton, corn \$1 and oats 50 cts. per bushel. Now I wish to know which is best, all things considered, to purchase hay, corn or oats at the foregoing prices.

If grain, how shall I feed it, and what quantity would be equal to a foddering of hay, say for

one hundred sheep?

Will corn meal or oats, fed to ewes with lamb, A SUBSCRIBER.

Woodstock, It., 1859.

Remarks.—Situated as you are, we should purchase all three of the articles, hay, corn and oats, and feed them judiciously to all the stock. A moderate quantity of corn or oats fed to the ewes with lamb, will be beneficial to them.

GAS LIME.

Please give an article on gas lime, the soil it Hartford, 1859. SAMUEL MATHER.

Remarks.—The refuse lime of gas works consists principally of a mixture of carbonate of lime, plaster, and other salts of lime containing sulphur. It may be used upon old mossy pastures, or sprinkled on the furrows in the spring with advantage; or, when greatly diluted, sprinkled on grass lands. As it does not contain much caustic lime, it may be mingled with barnyard manure in small quantities.

COMMITTEE OF PRODUCE.

It has seemed to me that in each of our agri-

the State, generally about \$600 a year, there should be a committee of this character, whose duty it should be, by personal inspection, corres- weeks since, with regard to a large colt that I pondence, or otherwise, to ascertain and digest own, that needs some correction. a complete statement, in tabular form, in their The writer called him a Morrell colt, which in respective precincts, and make returns of the Vermont is equivalent to saying he was sired by same to the Secretary of the Board of Agriculthe old Morrell, of Danville, Vt. ture. Let such statements be made with such authority, from year to year, and brought togeth- that the colt was sired by the Morrell Chamgreat measure, remunerate for the money expended in support of such societies. I forbear to enlarge, always bearing in mind the maxim, "A word to the wise is sufficient."

March, 1859.

THE MANGOLD WURTZEL.

Please state the process of preparing the soil for a crop of mangolds, and where I can obtain T. W. SAWYER. the seed.

West Millbury, Ms., 1859.

Remarks.-Plow and cultivate so as to make the soil quite fine. Manure well, broadcast, furrow out good wide and deep furrows, fill them with manure, and sprinkle salt over it, then turn two furrows upon this, one on each side, rake down, roll it, and sow the seed. Under such please answer this. treatment you ought to get a thousand bushels per acre, if you tend them well. The seed can be had of Nourse & Co., 34 Merchants Row, Boston.

ELECTRICITY.

I noticed in the Farmer remarks by "Electricity," in answer to questions made by "Non-Electricity," in reference to ventilation and electricity. Will "Electricity" answer the question,— "Why the electricity strikes a tree, or even the lightning rod standing in the open air, when the atmosphere and all the gases are reduced to an equilibrium? When this question is satisfactorily answered, I shall then be prepared to remove the cause and save the expense of protectors. Derry, N. II. INQUIRER.

ACID SUGAR MAPLE SAP.

Will acid sugar maple sap affect paint or strike through it so as to taint the wood of the tub? What will cleanse vessels painted on the inside, so that they will not affect sap or water? Ashfield, Feb., 1859. HENRY TAYLOR.

reply?

A GOOD PIG.

lived on the usual pig food, corn meal principal- fered by county and district societies. mers are not much behind the times-in the breeding of horses enters into the occupation of porcus line, at any rate. ROCKINGHAM.

Portsmouth, N. H., March, 1859.

A FINE COLT.

I noticed a statement in the Farmer a few

Justice to all concerned requires me to state er in the secretary's report, and they will, in a pion now owned by William T. George and Henry Whicher, of Topsham and Newbury, Orange county, Vt.

> The colt is now eighteen months old; color dark chestnut, height 161 hands, and his weight in ordinary flesh is over one thousand pounds.

> > Perley Roberts.

Washington, Vt., Feb. 23, 1859.

WHITE PINE SEED.

Will you be so kind as to inform me through the columns of your paper the best season for planting the pine seed, and likewise for gathering the cone? As I have some fifty acres plain land that I wish to plant with the same, this sea-A Subscriber.

Remarks.—Friend Cutter, of Pelham, will

PUMPKIN AND SQUASIL.

Can you, or any of your scientific correspondents, inform me of the chemical compositionorganic and inorganic—of the pumpkin and squash?

C. Blaisdell. squash?

West Needham, March, 1859.

HOW MANY POUNDS OF MILK FOR A POUND OF CHEESE?

Can you, or any of your correspondents, tell how many pounds of new milk it takes to make a pound of merchantable cheese? ENQUIRER.

Lyndeboro', N. H., Feb., 1859.

For the New England Farmer.

PREMIUMS FOR SPEED OF HORSES.

MR. EDITOR:—I have just received the Report of the doings at the Annual Meeting of the State Board of Agriculture of Ohio. Among other votes passed at the meeting, were the follow-

"1. Resolved. That paying premiums by agricultural societies for speed of horses, simply as such, REMARKS .- Will some sugar-making friend without due reference to qualifications for purposes of general utility, is a perversion of the

original design."

"2. Resolved, That trials of such speed have a Mr. John R. Walker, of this city, dressed a great tendency to divert attention from every pig on the third of March, nine months old that thing else, and with what seems to be their inday, which weighed alive 375 lbs.; dressed 320 separable accompaniments, are degenerating and lbs. It was quarter breed Suffolk. It was hand- demoralizing, and therefore we will not offer such some, and had not been hurried any, but had premiums, and will discourage their being of-

This opinion, thus forcibly expressed, is enly, until within two months past, when some ground wheat has been added. I give this item, titled to much respect. It comes from a great so that you will know that New Hampshire far- agricultural State, and where at the same time the

farmers very largely.

Very truly yours,

A FARMER.

PORTUGAL AGRICULTURE.

struck me as a peculiarity of the climate, that the trees. the ground seemed never exhausted. It has been cultivated in the same way near a thousand years. wrong idea as to the time of pruning their apple and still produces, for aught I know, as much trees, saying it is of little consequence when the now. The mode of culture is rude, and the quantree is pruned, if it only needs pruning. This, tity of manure applied very small. Little manure 1 am ready to say, is a sad mistake, for at all seais made; cattle are not housed in winter; barns sons when the sap is down it is entirely wrong. are hardly known except in connection with inns the first or second week in June is the only fit and in the towns. Ferns, brakes and leaves are season for pruning the apple tree. Then the sap collected in wet places, and flocks of goats foldis is in full flow, and the wound made by cutting ed upon them at night, sometimes, or the mate-off a bough begins to heal and grow over immerials are drawn into the middle of the road for diately." the travel to pass on them, and after about a year carted to the field. Such a thing as a heap of barn-yard manure I never saw there out of the cities. The merest sprinkling is put upon the land, and the surface barely smoothed over with a plow, not much better than a sharp stick. And yet pretty good wheat, really stout barley and tolerable Indian corn are grown every where. Indian corn is sown broadcast, and thinned to about one plant a foot square, with the hoe. The corn is perfectly ripened, though the ear is small. Potatoes yield plentifully, and are of excellent quality.

And so the land is tilled year after year, and century after century. The principal difference of the climate from our own is, that the seasons are reversed there. Summer is the winter of may erect and maintain a water-mill and dam to vegetation. All nature sleeps in summer; the earth dries up; every green thing withers.— With the autumn rains vegetation revives, and the earth looks green again. The barley and the and potatoes, by means of artificial irrigation, fix the height of the dam, decide whether it shall come forward at any time, in the south of Portugal. Green peas are in market every day in the be left open any part of the year, and fix compen-year. The wonder to me is, how the fertility of sation, either annual or in gross, for the injury. the land is preserved under such a system of cul- All other remedies for such flowage are taken tivation.

West Lebanon, N. H.

GRAFTING AND TRIMMING FRUIT

An experienced cultivator in Dutchess county, N. Y., writes as follows on these subjects:-

"Scions for grafting should be cut in February, which is the right season to insure their living and doing well; they should then be housed in tribute to the drainage of wet lands. a cellar until the time for inserting them arrives, which, with you, might be by the last week of in about three years.

By removing too many branches from a tree eral object. injury may be done. Careful attention should be given to this point in lopping the branches other low land shall be held by several propriepreparatory to grafting, in order that the sap tors, and it shall be necessary or useful to drain may pass into the remaining branches and keep or flow the same, or to remove obstructions in the tree healthy and growing. I give you these rivers or streams leading therefrom, such im-

by those who go about the country making it their business to set grafts in April and May, setting as many seions as they can, and getting pay Mr. Editor:—I observed in Portugal, what for those that live, thus doing great damage to

Many farmers in our county have, I think, a

For the New England Farmer

LEGISLATION --- LAND DRAINAGE COM-PANIES.

BY HENRY F. FRENCH.

In the valuable treatise of Dr. Warder, of Cincinnati, recently published in New York, upon Hedges and Evergreens, an abstract is given of the statutes of most of our States upon the subject of fences, and we know of no other book in which so good an idea of the legislation on this subject can be so readily obtained.

By the statutes of Massachusetts, any person raise water for working it, upon and across any stream that is not navigable, provided he does not interfere with existing mills. Any person wheat harvest is over before the drought comes whose land is overflowed, may, on complaint, on in June, and sometimes earlier. Indian corn have a trial and a verdict of a jury, which may be left open any part of the year, and fix compenaway, and thus the land of the owner may be converted into a mill-pond against his consen.

We find nothing in the Massachusetts statutes which gives to land-owners desirous of impreving their wet lands, any power to interfere in at v way with the rights of mill-owners, for the drainage of lands. The statutes of the commonwealth, however, make liberal and stringent provisions for compelling unwilling owners to con-

For the convenience of those who may be desirous of procuring legislation on this subject, April or the first of May, and during the latter month. They should be put only into healthy, we will give a brief abstract of the leading statvigorous branches, such as you would not care ute of Massachusetts regarding this matter. It to remove from the tree, and thus you will have may be found in chapter 115 of the Revised Statan artificial tree that will be ready for bearing utes of 1836. The first section explains the gen-

"When any meadow, swamp, marsh, beach or ideas, knowing that fruit trees are often injured provements may be effected, under the direction

chapter."

a greater part of them in interest, may apply by petition to the Court of Common Pleas, setting forth the proposed improvements, and for notice pedient. to the proprietors who do not join in the petition, and for a hearing. The Court may then appoint three, five or seven commissioners, to cause the improvements to be effected. The commissioners are authorized to "cause dams or dikes to be rected on the premises, at such places and in such manner as they shall direct, and may order the land to be flowed thereby, for such periods of each year as they shall think most beneficial, and also cause ditches to be opened on the premises, and obstructions in any rivers or streams leading therefrom to be removed."

Provision is made for assessment of the expenses of the improvements, upon all the proprietors, according to the benefit each will deassessed.

"When the commissioners shall find it necessary or expedient to reduce or raise the waters, the flood-gates of any mill, or make other needful passages through or round the dam thereof. or erect a temporary dam on the land of any the purposes aforesaid."

Provision is made for previous notice to such work. persons who are not parties, and for compensaterference, and for appeal to the Courts.

drainage, because, first, it is limited in its appli- and for the public good. cation to "meadow, swamp, marsh, beach or othremoval of obstructions therein." falls, except through natural streams.

ference with private property that may be ne-strong sympathy on the part of jurors. cessary for the most extended and thorough | The appointment of commissioners to examine,

of commissioners, in the manner provided in this pel a man to improve his portion of a swamp, may apply as well to his wet hillsides, and the The statute provides that the proprietors, or power which may open temporary passages through land or dams without consent of the owner, may keep them open permanently, if ex-

By an act of the Legislature of Massachusetts, passed March 28th, 1855, ample provision is made for compulsory outfalls. The act provides that any person having the ownership of low lands, swamps, &c., that, by means of adjacent lands of other persons, or of a highway, cannot be worked, drained or used in the ordinary manner, without crossing said lands or highway may be authorized to establish roads, drains, &c., to said places. The process is by a petition to the County Commissioners, notice to all parties interested and a hearing. The Commissioners, if satisfied that the request is reasonable, shall proceed to lay out and establish the improvements, and assess damages equitably among parties benefited, rive from it, and for the collection of the amount to be paid to the party whose land is thus burdened.

An appeal lies to the county by either party dissatisfied with the award, as in cases of the layf r the purpose of obtaining a view of the prem. ing out of highways. By an act of May 30th, ises, or for the more convenient or expeditions 1857, it is provided that where the lands are all removal of obstructions therein, they may open in one town, the selectmen may act instead of the County Commissioners.

By the provisions of these acts, we understand person, who is not a party to the proceedings, that any owner of "low lands, lakes, swamps," and may maintain such dam, or such passages &c., may, in proper cases compel his obstinate for the water, as long as shall be necessary for neighbor to allow him to open such drains through adjacent lands as may be necessary to perfect his

The provision is broad enough for all low lands tion to them for injuries occasioned by the in- or swamps, and should be extended to all other lands, dams and other obstructions whatever, and This statute gives by no means the powers thus place in the hands of the proper authorities necessary to compel contribution to all necessary complete power to do what is just and equitable,

It would seem, then, that the commonwealth, er low land;" the word meadow in New Eng-|which is perhaps as conservative in her legislaland, is used in its original sense of flat and wet tion as any other, assumes and exercises all the land; secondly, the statute seems to give no au- power necessary to authorize the most complete thority to open permanent ditches on the land system of drainage. Whatever the powers of of others than the owners of such low land, al- the States, upon the points suggested, there is no though it provides for temporary passages for doubt of their power to protect the farmer, to the purposes of "obtaining a view of the prem- some extent, against the encroachments of millises, or for the more convenient or expeditious owners and water-power companies. Our courts The word are teeming with suits between land-owners and "therein" referring to the "premises" under im-these companies about flowage, and in these suits provement, so that there is no provision for out-the corporations have usually the advantage of wealth and influence and concert of action, as On the other hand, it is manifest that the State well as of knowledge of the true state of facts, assumes power sufficient to authorize any inter-|while the land-owner has the benefit usually of

urainage operations. The power which may com-define and record, from time to time, the height

of all dams and embankments, the capacity of gates and sluice-ways, the agreed or ascertained rights of flowage, connected with all mills and reservoirs within their jurisdiction, and such other matters as might be necessary to make definite the respective rights of the parties, would tend to lessen litigation, and quiet much disagreeable and expensive controversy.

In those States, too, where it is deemed constitutional, provision might be made by proceeding before the same commissioners, for compulsory outfalls, upon proper compensation to owners, and even for partial or full contribution by unwilling owners, where lands are so situated that it is necessary, for the good of the whole, to interfere with property of owners who refuse to join in the enterprise.

WONDERFUL POWER OF FUEL.

It is well known to modern engineers, (remarks an English journal,) that there is virtue in a bushel of coal properly consumed, to raise seventy millions of pound weight a foot high. This Cultivation, Manures, Swine, Grain Crops, Drainis actually the average effect of an engine work-ing, Root Crops, Garden Fruits, Pasture Lands, ing in Huel Towan, Cornwall, England. Let us Soiling Cows, Poultry, Flower Gardening, and pause a moment and consider what this is equivalent to in matters of practice. The ascent of Corn Culture. Mount Blanc from the valley of Chamouni is conbe nearer the truth.—Maine Farmer.

THE CONCORD FARMERS' CLUB.

The meetings of this association have been attended through the winter, and the discussions sustained with unusual spirit and ability. The annual meeting was held Nov. 11, when the following gentlemen were chosen officers for the ensuing year; - N. H. WARREN, President; S. H. Rhoades, Vice President; Joseph Rey-NOLDS, Secretary; ELIJAH WOOD, Jr., Treasurer.

The President and Secretary were appointed to assign places of meeting, and subjects for discussion, on each week during the season. At the next meeting, Nov. 18, this Committee reported the following list of subjects to be discussed, in the order in which they are presented. The gentleman at whose house the Club meets, is expected to read an essay upon the subject to be discussed on that evening. These essays are read before the discussion. Farm Buildings, Rotation of Crops, Farm Implements, Market Gardening, Reclaiming Swamp Lands, Horses, Agricultural Books, Diseases of Farm Stock, New Plants for

At the second and third meetings, the subject sidered, and with justice, as the most toilsome of Farm Buildings, especially the structure and feat that a strong man can execute in two days. internal arrangement of Barns, was fully dis-The combustion of two pounds of coal would cussed. On the fourth evening, an interesting place him on the summit. The Menai bridge, one of the most stupendous works of art that has been raised by man in the modern ages, the fifth meeting which was held, the subject of consists of a mass of iron not less than four mil-Market Gardening was discussed. In this sublions of pounds in weight, suspended at a medi-ject was included the expediency and profit of um height of about 120 feet above the level of the sea. The consumption of seven bushels of coal would suffice to raise it to the place where it hangs. The great pyramid of Egypt is com- and the best and most profitable ways of convey-posed of granite. It is seven hundred feet, in ing them to market, and disposing of them. The the side of its base, and five hundred in perpen-present mode of marketing produce is very labodicular height, and stands on eleven acres of rious and takes much of the time of the produland. Its weight is therefore 12,700 millions of rious, and takes much of the time of the produpounds, at a medium height of 125 feet; consecer, and there seemed to be a general conviction quently it would be raised by the effort of about that some other method must be adopted. 630 chaldrons of coal, a quantity consumed in If the produce of a town or neighborhood could some foundries in a week. The annual consumption of coal in London is estimated at 1,500,000 and to an agent or agents, who should dispose of chaldrons. The effort of this quantity would ed to an agent or agents, who should dispose of suffice to raise a cubical block of marble, 2,200 it for the producer, for a commission of a certain feet in the side, through a space equal to its own per cent. on the price obtained, it was thought height, or to pile one mountain on another. The it would be a better way than that pursued at Monte Nuovo, near Pozzueli, which was erupted present. This subject is now fairly before faring a single night by volcanic fire, might have mers, and if the managers of railroads will afbeen raised by such an effort from a depth of ford the readful accommodation, some plan will 40,000 feet, or about eight miles. It will be seen ford the needful accommodation, some plan will that in the above statement, the inherent power be devised, that will relieve them of the necessiof fuel is, of necessity, greatly underrated. It is ty and hardship of spending so large a part of not pretended by engineers that the economy of their time in dragging loads of produce to marfuel is yet pushed to its utmost limit, or that the whole effective power is obtained in any application of fire yet devised; so that were we to say complish this object, in which the expense should 100 millions, instead of 70, we should probably not absorb all the profits, it would open a new source of employment to farmers, and enable

them to compete successfully, with the market gardeners, in the immediate vicinity of Boston. There need be no fear of over-stocking the market, especially with those articles that are matured in the early part of the season, as radishes, asparagus, rhubarb, early peas, cucumbers, &c., as these are now sent to Portland, Bangor, Halifax, and other places, north and east, and the demand is annually increasing.

For the New England Farmer.

ST. HELENA POTATOES.

Mr. Editor:—In 1856, I purchased six or seven potatoes of this variety, at Worcester, Mass. At the close of the Horticultural Fair, the productions were sold at auction, and seeing a plate of very nice looking potatoes, I secured them, at a high price apparently, at least it would be so considered in Vermont.

We have used them freely in our family this year, having raised over one hundred bushels. and find them a good potato for use. They grow large, and are not liable to rot, very smooth, as the eyes are directly upon the surface; very com-

pact in the hills.

Messrs. Drew & French, in the New York Tribune of March 5th, describe the potato exactly, mence negotiations? No amount of words or under the name of "Prince Albert." Upon the card attached to the plate of those I brought dam. The lever must be made of gold. from Worcester, was the name of the producer, and also of the variety, and by that name we have called them. Are they the same, or not? E. P. Mudgett.

Cambridge, Vt., March 9, 1859.

REMARKS .- It is quite likely they are identi- wiser successors. cal, for the same potato is often known by different names. The finest potato that we are acquainted with, or, at the least, one equally as considerable size should have some sort of a good as any, is that called the "Riley," or "Do- horse-power. It should be located in the ample ver," from the fact that a cargo of them was barn, where on rainy days, the horse could drive brought into the city of Dover, N. H., by one a saw which would cut a cord every hour, easily. Capt. Riley. They are the true "Irish Cup Po. Then, how a horse can make a grindstone go tato," and will at once be recognized as such by true, exactly round, and then go so that fire will many of your friends from the Emerald Isle. occasionally start out. Where grindstones are There are two objections to them; they do not turned by hand, they are very soldom burst by yield largely, and their eye cups are so deeply going too fast! The fact is, it is tedious work—set that it requires much care to prepare them er is not convenient it is a great relief to have for the oven or the pot. But upon the plate, with the grindstone go by horse-power. The tools a little sweet butter, the Irish Cup is a potato will always be kept sharper, and can be ground that will commend itself any where.

RUTLAND COUNTY AGRICULTURAL SOCIETY. -President, Daniel Kimball, of Rutland; Vice that the hay, for a large stock, can be most ex-Presidents, Chauncey S. Rumsey, of Hubbardton, Alpha H. Post, of Rutland; Recording Secretary, Henry Clark, of Poultley; Corresponding Secretary, Orel Cook, Jr., of Rutland; Treas- and pump the water. urer, Hon. Zimri Howe, of Castleton; Auditor, Ward M. Lincoln, of Brandon, and a Board of classes, in ingenious contrivances which expedite Managers consisting of twenty-five persons.

For the New England Farmer.

LETTER FROM CONCORD, MASS.

A California Picture—River Meadow—Horse Powers.

A gentleman in this town who returned from California an invalid, last summer, lately received from his partners there a very interesting ambrotype picture of their store at the mines, around which were quite a company of his old friends, and the train of mules which he had often journied with from their head-quarters at Marysville to this depot, among the mountains.

The picture was large, and exceedingly well taken. The express charges on it were nine

dollars.

RIVER MEADOWS.

I am looking on, with a good deal of interest, to see what progress is made in getting down that ruinous dam on the Concord River. There has been no movement of a like importance agitated for years. It will take money to make it successful. Mr. Talbot bought and built in good faith. At that time the purchase, if necessary, of the privilege of flowing such an extent of country could have been most advantageously made. Now, it seems, Mr. Talbot has expended in buildings and peculiar machinery some eighty thousand dollars.

Now, what can you do unless you have about one hundred thousand dollars with which to comcomplaining will ever start a stone from that

When one thinks for a moment of the rich alluvial lands that could so soon be made to yield the hay and corn to crowd a thousand barns, it seems a burning shame that the unfortunate barrier which stupid legislators allowed to be erected, should not be allowed to come down by their

HORSE POWERS.

While the horses stand idle in their stalls, their in less time. It is the height of felly to smash away with dull tools. It will pay to provide convenient means to keep them in order.

Hay cutters are made to attach to a power so peditiously prepared. If one has a taste for the thing, the horse can saw the wood, wash the clothes, churn, turn the grindstone, cut the hay, shell the corn, drive the small circular bench saw,

Are not farmers less interested than other their business and save their strength?

March 1, 1859.

BLIGHT IN THE PEAR.

Mr. Brown:—Having been in the habit for years of examining the various accounts that have come to us, particularly from the South and clubs holding stated meetings, and their great West, where blight in the pear is more common than with us, we have been struck with the resemblance their seems to be between what they call frozen sap and scald, or sun blight; thus ene writing from Mobile, describing its first appearance and effect upon his trees, corresponds this fact. There are many examples of good entirely with a similar article from Illinois, from one who denominates his as frozen sap blight. We can hardly suppose that frozen sap blight could occur in the climate of Mobile.

We believe that there are two forms of blight, one form being caused by a severe scald, often and loss in his operations. His well-arranged produced by the practice of denuding the trees, barn was filled with a fine stock of cattle. There when young, of their side, or latteral shoots, thereby exposing their naked trunks to the sun, for there are few trees in a young state that can endure the scorehing rays of our August sun tunity to see. when thus denuded; there is a constant effort in young trees to throw out these side branches near the ground. The enlargement of the trunk of a young tree with its laterals uninjured, will be much larger in a given time, than upon one with these shoots removed. This we believe to has become famous for its rayages; so great are be one of the causes, at least, of one form of they that it is necessary to adopt every means in blight. The other form, or what is called frozen our power to check its progress, and to do this sap blight takes place ordinarly upon trees that we must know the insect under all its forms. are forced in strong and highly manured soil when young, and by eutting off the tap root, (as well as on many others,) at the ends of the thereby causing the tree to make long succulent limbs, a band of eggs, covered with a brittle, shoots, the growth extending to so late a period shiny, water-proof varnish, extending around the as to be overtaken by the winter, before the sap limb, and about one-half or three-fourths of an is sufficiently elaborated, and the wood matured inch long; in this there are from three to four to stand a severe freezing. Rich soil with ma-|hundred cylindrical eggs, standing on end. When nure or excess of moisture undoubtedly increases the leaves begin to burst forth, these eggs hatch, the evil. The tap root, although not forming a and from them proceed the small caterpillars part of every plant, when it does so, is an essen which destroy those young and tender leaves. tial part of that plant, and the injury to any one They make for themselves a white, silvery tent, part of a plant, occasions a change in the natural in which they live when at rest, and from which developments of the other parts. In allusion to they go forth for food; as they go they spin from this cutting and high manuring, it has been said their mouths a fine white thread, which guides that "nature, to be perfect in any of her works, them back to their home, and as they increase in should not be forced; we may be impatient, not size, still go over the same tract, until all the her. In her elaborate and harmonious labors, leaves are eaten. In their repeated journeys, time must be given for all things; and all we the limbs get coated above with silk, which when

our natural button pear trees to be affected by either of the above forms of blight.

Salem, March, 1859.

GROTON FARMERS' CLUB.

public inspection, or does its work in a more spir-

tre of a populous village. The travelling was exceedingly bad, it is true, but in such a locality, the hall should have been crowded.

It is encouraging, however, to find farmers' work progressing, though it be sometimes with only little zeal. Groton, with her excellent land and intelligent population, ought to lead the way, and we found some among them convinced of husbandry in the town. Gov. BOUTWELL has given one in the construction of his barn, and the accuracy with which he keeps his farm accounts,-being able at all times to show profit are others excelling in different departments of husbandry, but whose places we had no oppor-

For the New England Farmer.

THE CATERPILLAR.

In the winter there may be seen on apple trees, have to do, is to understand what she intends." observed, can often guide to a nest which would I would like to ask, if any one ever knew of otherwise escape notice.

As the caterpillars grow larger, they increase their tent by adding layer upon layer of silk at a little distance apart, and so large do they sometimes make them when undisturbed, that they

will measure six by nine inches.

The full-grown caterpillar measures about two No town in our community gets up a better inches in length, the head is black; the body is "Town Show," introduces more good articles to striped longitudinally with white, yellow and black, and in the yellow are many fine black ited manner, than the town of Groton; and there abundant on the sides. They leave the trees in are few towns where a farmers' club exists, where the first part of June, and seek a place sheltered the people seem to take so little interest in its from storms, in which they spin their cocoons, affairs and "let it alone so severely." How these which are of a oval shape, of a yellowish white two things are to be reconciled, we do not know. color, caused by a powder that fills up the crevi-The meeting on the evening of March 14th, at salis, in July, come forth the perfect insects; in which we were present, was thinly attended, al- this state they are moths of a reddish brown color, though the hall where it was held was in the cen- with two oblique white stripes on each fore wing,

one and one-half inches.

small, this cannot be practiced to any great ex- be digested by weak stomachs. The finest qual and then crush them; this should be used early in for their perfect digestion.—Rural New-Yorker. the morning, at noon, or at night, for the caterpillars are out in the forenoon and afternoon only. Thirdly, in the chrysalis; this is easy enough, for when you find a cocoon, crush it; they are seen very plenty under tops of fences, grace our meadows in summer with its unrivalled and on buildings under the thick part of the scarlet blossoms, is the Lobelia cardinalis, someshingles or clapboards. Fourthly, in the moth; the best way to kill them in this state is to build fires, in the places infested by them, in July, before they lay their eggs, for they will fly into the fire and get burned.

How they would disappear if every person killed every caterpillar he saw crawling on the ground, or every cocoon he saw sticking to a

fence or building!

CARLETON A. SHURTLEFF. Brookline, Mass., 1859.

SUPERPHOSPHATE OF LIME FOR TRANSPLANTING TREES.

Phosphoric acid possesses a very great and remarkable influence on the development of roots, vigor; we do not know of any very satisfactory explanation of this phenomenon, either chemical or physiological, but of the fact itself there seems to be no doubt. The most convenient to say, a mixture of oil of vitriol and burnt bones. This compound, which is rich in phosphoric acid in a soluble state, may be readily mixed with a little dry mould; it then forms a most valuable aid to the planter. Superphosphate of lime, is, therefore, a very valuable fertilizer in the hands of the planter; but in using it he must always remember that as his plants must necessarily absorb the whole or the greater part of the soluble manure which he gives them he must take care not to give them too much. He must not suppose that if one handful will do good, therefore ten handfuls will do more; it is very easy to give too much, and plants, like animals, may equally be injured by overfeeding or by starvation.—Prof. Lindley.

BUCKWHEAT AS FOOD.

M. ISIDORE PIERRE has recently been making some investigations on buckwheat, from which is condensed the following interesting results:-Buckwheat cakes are equal to pure white bread as regards the phosphates or bone-making material, and nitrogenous principles which they contain, and are superior to bread in fatty matters. The general yield of buckwheat when cooked is showing that such flour will retain forty to forty-receive prompt and energetic attention.

the antennæ are feathered, and the thorax is very one per cent. of water. Between different batches hairy; they expand from one and one-quarter to of ground buckwheat is a great dissimilarity of composition-one batch containing nearly sev-There are four states in which these destructive insects may be killed. First, in the egg, by as much fatty matter, as another. The bran is crushing the band of eggs, but as the eggs are the richest portion of the buckwheat, but cannot tent. Secondly in the caterpillar. Various meas-lities of buckwheat flour, and the white mill dust, ures have been advised to remove these pests, but especially, are very suitable for children and perthe best that I have tried is to brush them off by sons in delicate health, while the coarser varie-means of a conical brush made for the purpose, ties require a strong stomach and much exercise

HARDY NATIVE FLOWERS.

Among the most beautiful wild flowers that times called the Pride of America. This plant is found generally on the borders of our brooks and wet meadows, and it seems to be almost the only plant, with the exception of the Podophyllum peltatum, or May apple, that will thrive equally well in our gardens. The Geradias, another beautiful genus, of which there are four or five species, on the contrary, are extremely difficult to raise in our gardens, either from the root or seed, while the Asclepias tuberosa, or orange colored Milk Weed, the most showy variety of that genus, will grow quite as well when transplanted to our gardens, as in its native woods. The Hepatica triloba, or Liverwort; the variecausing plants to throw them out with unusual ties of Viola or Pansy; Ilypoxis erecta, or Star of Bethlehem; Sanguinaria canadensis, or Blood Root; Anemone nemorosa, or Wood Anemone, are of easy culture. Many of them will mode of employing this substance is in the form improve in size and beauty under cultivation. of superphosphate of lime, as it is called, that is They are as showy as many foreign varieties for which high prices are paid. These will all thrive, if placed in moist soil, or in a half-shady part of the garden.

THE MILK TRADE.

The Committee on Agriculture in our Legislature has reported a bill in relation to the purchase, sale and measurement of milk. The bill is a fair one, and if passed, will tend to correct a good deal of corruption in the business, establish the measure so that every body may know what a quart or a gallon is, and greatly promote the chances for the people in the cities to get pure milk and just measure. We trust our friends will attend to this matter now, and place before their members of the Legislature, all the facts they may possess, to enable them to show why the bill should be passed. The opposition to the bill comes from the milk-venders, who now purchase seven or eight quarts and sell it for ten-to say nothing of water added. Milk raisers in the country have no time to lose in attending to the about three times the weight of the flour used, matter-it is one of great importance, and should



THE GUELDERLAND FOWL.

In Bennett's Poultry Book, page 82, is the following account of this breed of fowls:-"I am indebted to Mr. H. L. Devereux, of Boston, for the following account of the original importation of this breed, and a description of those in his possession.

"The Guelderland fowls were imported from the north of Holland, some years since, by Captain John Devereux, of Marblehead, in the ship Dromo; and since that time have been bred purely by him, at his place in that town. They are supposed to have originated in the north of Holland. They are clad in a beautiful blue-black plumage, but the flesh is white, tender and juicy. They have no comb, but a small, indented, hard, bony substance instead, and large red wattles. They are of good size, great layers, seldom inclining to sit; bright, active birds, and are not surpassed, in point of beauty or utility, by any breed known in this country."

SPAYED Cows give much better and more to every New England farmer's door.

this practice in regard to their cows.

HINTS TO FARMERS AND CORRES-PONDENTS.

FRIEND BROWN: - Farmers like short articles -the words and thoughts of practical men, few, plain, and straight to the point. Why don't they

write, then? Why don't more of them write?
"Why, bless us!" says the editor, "we have a multitude of correspondents, and more communications than we can publish—our journals can-

not contain everything!"

True, very true, no doubt, but with the best care on the part of correspondents, there might be a little more room. If all would remember that farmers know good corn without seeing the husk and cob, they would often send smaller grists to the publisher's mill. Well considered and condensed articles are always acceptable in however humble a dress they may appear. They are usually the best for those who do, and always the least in the way of those who do not, need the information they convey.

Here are some subscribers behind the editorial chair—shall I speak with them a moment?

The publishers of this excellent journal have undertaken to run an express weekly, or monthly, They dishealthful milk than cows in the natural state, tribute all sorts of farming articles, theoretical, So, at least, says a French work on this subject. practical and mixed. With the aid and care of The cow will continue to give milk, in this con-the editor, they have done excellently well in dition two or three years; then she will fatten every respect. But farmers and gardeners, much easily, and make excellent beef. This may be as they are doing now, will do still more, if true; but American dairymen will not soon adopt you say the word, and with mutual benefit. They might take a seasonable article from each of you

occasionally, and distribute to every other sub- 40 by 160 rods; and who then erected buildings scriber-every other will give thanks and for upon it, and has since so managed it. as to realward parcels by aid of the same express to you lize, at least a net income of \$1000 a year from Fair exchange is no robbery—it is mutual effort this farm. for mutual good. To obtain all the information you can from others and bottle up your own is downright plunder. Be neighborly and just, successful farmers, and share your knowledge all round. If you won't, pray don't ever again laugh in your sleeves, or anywhere else, when you see another suffering great loss in a farming opera-fact or suggestion bearing upon the two following tion for want of information which you possess. And don't complain of young men for leaving the farm for any Eldorado that appears to offer a best which our farmers get in,) would you use golden gleam, until you take as much pains to any roots with it in wintering your stock? learn them farming as you do to teach a two-year old steer to haw and gee.

the wisest may learn something of each other.

We don't ask you to write elaborate essays, or feed them with first quality hay? Few would stop to read them in the busy season, and if once laid away, would perhaps never. Although they might be good as a minister's sermon all the way down to "eleventhly," if too long Monday evening, at different farm houses, and they would be of little general value. Work-there, in a very social manner, we discuss the ing farmers don't often hunt through a bushel different points arising under the subject anof superfluous words for the disjointed members nounced the evening previous. We make no set of one idea. If you send most of your notes in speeches, but we pass the point round, demandthe style you take them for your own use, there ing, in every case, an opinion, if not a reason. will be no superabundance of words, I dare say. In this way we draw out facts, from which prin-Fine writing and nicely turned phrases are not ciples are deduced, and thus an actual progress essential. An iron bar is no more useful for be-insured. The plan succeeds admirably. Of course ing eked out at the top with feathers, nor is it we have a constitution, officers, and other essennecessary to knot your ox-chains with ribbons, tials to an organized body. The admission fees, unless it be cattle-show day. Be short, clear, together with the voluntary contributions of the concise, practical, and there will be room enough members, provided us with a little library. But for all. N. Page, Jr.

Danversport, March 26, 1859.

For the New England Farmer.

SOILING OF CATTLE.

My attention has recently been called to this subject by a publication made by the Senior Quincy, and the impression from the perusal of nis Essays is so strong, that I feel constrained to invite the attention of all who would advance their own interests and that of their neighbors to what he says. He clearly demonstrates, that in the mode of proceeding which he points out, as us thirty-three cents a bushel, and other roots many cattle can be as well kept, for all the pur-bring a corresponding price, we would take them those who are esteemed good farmers.

What, then, is the result of such management? The young man who intends to be a farmer, starts at the age of 21, with his 40 acres of land costing ing of hay and other purposes of the farm. will find himself able to maintain 20 head of cattle, through the year, on a farm thus managed. sides hay. He will find the net income of a stock thus managed not less than \$1000 per year. Will not we have been attending one similarly constitu-farming thus conducted pay? This is not mere ted for nine years; but we make "set speeches," fancy speculation. Mr. Q. says he has tried it for many years successively, and knows what he that is, four leaders are appointed on each quessays is true. I know a man, who forty years ago, tion, and they have precedence, speaking in orpurchased a lot of land; on the shore of the sea, der, and without interruption.

March 25, 1859.

For the New England Farmer.

HAY AND ROOTS.

Mr. Editor:—Can you enlighten us by any questions:

1. If you had first quality hay, (i. e., the very

2. If you should use roots, what would they be worth per bushel to you—that is, if the mar-May it please you to give us some crumbs. I ket value of turnips was two shillings per bushspeak for young farmers, and ignorant ones, but el, and the value of other roots corresponding; which would you do, carry your roots to market,

> Can you oblige us by answering the above practical questions; also, giving us your reasons. We have a "Farmers' Club," which meets every what I would especially call your attention to, is the informal, social features of the club meetings. Queries are raised, experience brought out, facts established and principles evolved in this way, which otherwise would never, or very seldom, ap-

> The above questions arose under the subject of "Winter Management of Stock," and we should be much gratified to have an expression WARREN JOHNSON. from you.

Topsham, Me., Feb., 1859.

REMARKS .- If common flat turnips would net poses of farming, on 40 acres, as are now kept on to market, and for this reason: On suitable 160 acres, in the ordinary modes of keeping, by land we ought to expect 600 bushels of turnips per acre, and at 33 cents a bushel we should get \$198 income from an acre of land. Such an income could scarcely be expected from any of our him \$4000. He appropriates one-half of it to the ordinary crops, and it would be better to secure feed of his stock, and the other half to the grow-that sum for the turnips, and expend it for some kind of grain, if we wished to feed something be-

Your plan of a Farmers' Club is the true one.

TENTH LEGISLATIVE AGRICULTURAL MEETING.

[REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.]

The tenth of the series of Legislative Agricultural Meetings was held in the Hall of Representatives, on Monday evening last. The attendance was moderate. The subject for discussion was, "The culture and cure of the hay crop."

Hon. John W. Proctor, of Danvers, occupied the chair; and in introducing the discussion, said in substance, that although he could not go into the statistics of the value of hay, as compared with other crops, it was, nevertheless, one of the most important crops grown in the State. He would speak from his own practice; and what he would say relative to the management of hay should proceed from that source, and would apply to all kinds of hay. In olden times the hay seed was generally sown with the oats or wheat in the spring; but latterly, it was customary to plow and sow the seed in August, and the practice would become more common as its benefits were realized. This method produced from one and a half to two tons per acre. One friend who moved seventy-five acres had an average of one and a half tons per acre. Some of the farmers on Marblehead shore have brought over 100 tons per annum to the Boston market. The annual produce of the old Alley farm was two tons per acre. This was produced by the use of sea-weed as a top dressing, after the summer crop was removed.

Mowing .- The method of cutting hay with the seythe was fast dying out, and machine labor being introduced. Several machines-among them Allen's, Ketchum's, Manny's and Russell's,were approved, although none of them were perthe use of the former, in July and August, one gentleman cut 300 acres, producing 500 tons, at the rate of 50 minutes per aere. In some instances he cut an acre in 30 minutes. Mr. P. saw an acre cut in 40 minutes, and a skilful man, with a pair of horses of 1000 lbs. weight each, would cut at least, 10 or 12 acres a day. This being the ease, the importance of encouraging the improvement of these machines was obvious. Massachusetts Board of Agriculture had awarded \$1000, which had been given to the Eagle or Heath Mower made by Mr. Nourse, of this city, and which machine was worthy the award. On fitted for uneven, rocky land. Allen's machine was better adapted to uneven surfaces; and mowed an acre of that in an hour. But probably machines were not properly adapted to hay cutting in such land-although, if they could be, the advantage would be very great indeed.

being manipulated by hand power, stirring is now advantageously done by a hay-tedder, operated by horse-power, one of which was shown by Dr. Loring, of Salem, at the last Essex County Exhibition, and several others have been tried in other parts of the State. But still the principle of this machine was defective, and much room for improvement existed. With the rake, properly used, by horse-power, we had all the machinery of working hay in as perfect order as the power of modern invention could make them, and by its use one-half of what has heretofore been the labor of haymaking can be saved. Some people turn up their noses at the mention of machines for making hay, contenting themselves with their old-fashioned implements. Such persons, if they wanted a shirt, would not surely carry out their theory in that respect, and refuse to buy and wear one which was not spun and woven in the old-fashioned way. There would be about as much consistency in the one objection as in the other; for it is well known that 500 yards of cloth can as easily be made in an hour, by machinery, as five yards could be by the old family processes. Leaving the matter of sowing, managing and curing hay to other gentlemen, the president took his seat.

Mr. B. V. FRENCH was called on to speak, and directed the attention to the fact that there were too many fresh-water meadows in the State. which were unhealthy in summer, and unproductive of healthy food for cattle. Draining of such swamps, and their proper management thereafter, would result in great comparative profit were it simply on account of the killing of the tough aquatic grasses. Mr. F. quoted the opinion of Prof. James W. F. Johnston, of Edinfect. The best were Allen's and Ketchum's. By burgh, that, of all our crops, the hay crop was the worst treated with us. The preparation of our lands was not calculated to produce well, and little attention was given to manuring, so that no crop of value could be produced. At considerable length, and with great minuteness of detail, Mr. French went into a disquisition on the modes by which these evils could be corrected, and the quantity and quality of grass and hay would be greatly improved. Pastures, in partieular, were not so good as they ought to be, and this was a subject for improvement which should not be lost sight of. The proper selection of grasses was also a subject of importance. Sweet level land it worked well, but was not, probably, vernal grass was recommended as being one of the best for butter-producing purposes.

Mr. Josiah Quincy, Jr., wished to know from the experience of gentlemen what is the best method of top-dressing grass lands? His plan was to keep cattle during winter, mix their manure with swamp muck, and dress and plow the Making.—After being cut, the hay, instead of land in autumn, as had been recommended by

the president. nure, how could it be best applied to grass lands? when it never could be raised previously. Could it be profitably done without breaking up, permanent.

perience of Mr. Quincy with regard to the cul- man's memory. The fall is generally the better ture of his grass lands, and their produce, and time for top-dressing-if the ground is not liaalso some observation made by him concerning ble to be washed; if it is so, the better plan the cultivation of hay lands by top-dressing in would be to manure in spring. A rule in the England and Scotland.

and always top-dressed in the fall.

tency, and did not go so far with cattle as an or- The PRESIDENT said that, near Ipswich, and hay; but if it was allowed to stand too long, two- er. Mr. Wetherell agreed in this opinion. we would not want so much of it, and what would time that the meeting broke up. be of as much consequence, our cattle could rely year, and disapproved of growing green crops on year. lands to be plowed in as manure, as he never had any success from it-and especially from the use of buckwheat in this manner, which produced an acidity in the soil that was not favorable to the healthy growth of grasses.

In reply to Mr. W. J. BUCKMINSTER, Mr. Lawton stated that he underdrained soft meadow of your subscribers, tell me the best and safest

Experiments in this way had land, and also wet upland, with great profit. He been favorable with him. Having plenty of ma- had raised wheat on such lands after draining,

Mr. LEANDER WETHERELL spoke to the quesand by means of top-dressing? Breaking up had tion raised by Mr. Quincy, and mentioned lands been deprecated by Hon. Simon Brown, and oth- in the State which had yielded two crops every ers, in the Patent Office Report; and what Mr. year, after top-dressing every second year-or Q. wanted, was, to know what he should do with three tons to the season; but the owner did no his manure so as to make his grass lands yield feed his land with cattle. This experience seemed two tons of hay, per acre, and keep the yield opposed to the theory of breaking up grass lands —or what was called natural mowing—land that Mr. Sanford Howard corroborated the ex- had never been turned up by the plow within middle of the State was to manure these natural Gen. SUTTON, of Salem, stated that he culti-grass fields as soon as the crops were taken off. vated his hay lands in September, manuring them Clover, red-top and herds-grass were the best well, and sowing them with herds-grass and clo-kinds to be used for seeding land. Mr. W. had ver. He let them lay five years without lifting, no great opinion of the value of the new kind of grasses, at present recommended as forage Mr. Lawton, of Great Barrington, had a dif-grasses; and was surprised at the small quantiferent sort of land to deal with than the sea-ties of forage grown per acre in the commoncoast farmers, and had to experiment differently, wealth. The average was short of one ton to and with more limited means than they had; but an acre. Nantucket gave nearly an average of the general management was not materially dif-two tons. Farmers could not, surely, afford to ferent. He had cultivated land for hay for 30 use their lands for so little; and would they so years without breaking up, and had realized as determine, the best way would be to go into immuch as two tons per acre. He did not approve provement without delay, and raise four tons per of overgrown crops of hay, as it wanted consis- acre, as had been done in one instance on record.

dinarily good crop. When he prepared land for in that locality, generally, which was famous for hay, he drained, plowed deep, harrowed well, used growing hay, it was customary, after the crop had ashes and compost and planted corn, plowed been taken off, to run an iron-tooth harrow over again in the fall and manured with compost and it, put in seed, bush harrow it; and in this way sowed down with red-top, timothy and clover. there was much renovation. Mr. Proctor did As to the time of cutting grass,-if it was cut not approve of allowing cattle to feed on lands before it became woody, it would make excellent intended for hay, as they poached it in wet weath-

thirds of its nourishment would be lost. This Mr. W. J. BUCKMINSTER took a general rewas a most important consideration; and taking view of the discussion, pointing out such features into the value of the hay crop, was a particular in it as harmonized with each other, and were that should not be slightly glanced at. Mr. certified scientifically. He concluded by eulogiz-Lawton approved of a light irrigation in the ing the policy of using labor-saving machines in spring as being of much benefit to grass in its agricultural operations, which latter subject was earlier stage. If more care were paid to our hay, discussed by several other gentlemen up to the

Mr. QUINCY, and other gentlemen, approved of on the nutritious value of what they did eat. the use of hay-caps, and stated that, in catching Mr. L. top-dressed his meadows every second weather, they would pay for themselves in one

> The question for next week will be, "The best mode of improving the present system of New England farming:" and it is expected that Hon. Josiah Quincy, Jr., will preside.

TREATMENT OF RINGBONE.—"Will you or any

blemish on the foot?"

remedy. Dr. Dadd recommends in addition, an is always ended by the first week in December. application of acetate of cantharides, as being milder and better than common blistering. "In taking branches from a tree when stripped When the part becomes hot, apply cold water of its foliage, during winter, January, February, bandages.—Country Gentleman.

For the New England Farmer.

VEGETABLE PHYSIOLOGY.

NAM, of Danvers, led you, in your issue of Feb. these two limits, the most favorable time is that 26th, into some detailed remarks on the physi- which follows severe frosts, and precedes the ology of the growth of trees. From these laws first movements of vegetation, about the month of vegetation, corroborated also by large person-of February." Now, as spring, in France, about al experience, you draw the conclusion that the Paris, is fully a month earlier than with us, it only fitting season for pruning is the months of follows that there would be no disadvantage in June and July. I intend to take issue with you pruning, in Massachusetts, as late as the middle in certain respects, on this point, although I of April. may agree with you in regard to it, in others. Before going further, however, permit me to ask, of Paris, pruning may be carried on all winter, whether your statement, under the head of res- except during severe frosts. But the most fapiration in plants, is correct, namely, that the vorable season in all countries of which the elileaves absorb oxygen and evolve carbonic acid and to the statement in the next paragraph, passed. As the apple tree is one of the most "that oxygen is evolved, and carbon solidified." tardy in coming into leaf, the pruning of it may Lindley says, "When a plant is exposed to the be deferred still later." direct influence of the sun, it gives off oxygen, the carbon remains behind in a solid state."

In regard to pruning, I have always considincreased vigor; 2d, production of fruit.

In pruning for shape or vigor, the most suitable time, in my opinion, is after the fall of the pruning, I will merely say, without entering into leaves, no matter how late. My reason for prunleaves, no matter how late. My reason for prun- any details of my system, which might be not ing at this season is as follows: during the sea- only interesting but useful, that during the last son of rest, as long as the ground remains not six years I have taken the entire care of a young frozen, a plant continues to absorb food from the orchard of two hundred trees. All the pruning soil by its roots. The sap thus garnered, is not, has been done by myself, begun after the fall of however, distributed though the branches until the leaf, and terminated in the early part of Dethe warmth of spring brings about a renewal of cember. I cannot recall a single accident of any the circulation. Consequently, if branches are kind which I can refer to winter-pruning; the removed in early winter, all the sap which has wounds have always healed smoothly. accumulated in the roots during the interval will be distributed among the remaining branches, nam an opportunity to criticise winter-pruning. now fewer in number, imparting to them addi- In regard to pruning for fruit, I may have a few tional and freshened vigor. If pruning should words to say at another time, be deferred until late in the spring, so late that As the French writers who the accumulated sap is already distributed, then may not be known to your readers generally, I each branch and each snoot that is removed carries with it just so much sap, and consequently thirty-two years, in the department of fruit trees, the loss of so much vigor.

way to cure a ringbone, and not leave a sear or prive the tree by the loss of wood, of the store which it has been accumulating. What do writ-We have never known a case of confirmed or ers teach on this point? Lindley says; "As decided ringbone cured by any process. A sear pruning, however, is not always intended to inshould never be made in treating it. Cutting and crease the vigor of a tree, late or spring pruning, burning should never be allowed—they are both if not deferred until the sap is in rapid motion, cruel and useless.

"The season for prun-The best medicine for man or beast, to pre-ing is mid-winter or mid-summer; the former, for serve health, is exercise; the best to restore it, thinning and arranging; the latter, for removing is rest. This latter is the king of medicines, and new superfluous wood." By late pruning, a we could enumerate some of its surprising cures. large proportion of the accumulated sap is For incipient ringbone, this is emphatically the thrown away." My own work in this particular

The following passage is from D'Albret: and March, when the sap is in repose, concentrated in the roots and woody parts, none of it is lost; it all goes to the benefit of the tree wherein it has retreated."

I quote again from Du Breuil: "The suitable period for pruning is during the repose of vege-MR. EDITOR :- An inquiry from WM. R. Put- tation, from November to March; but, between

Once more, from M. Hardy: "In the climate s absorb oxygen and evolve carbonic acid mate approximates to that of Paris, is February It is contrary to what I have been taught, and March, after the severe cold weather has tardy in coming into leaf, the pruning of it may

The writers whom I have just quoted are the by decomposing the carbonic acid; whereupon highest authorities in France and England. I would not, however, be understood to intimate that authorities and theories should take preceered that the appropriate season should be de-dence of experience and observation; but the termined by the ends which the pruner has in Frenchmen whom I have quoted unite large view. These are twofold; 1st, improved shape, practical observation with a high degree of scientific knowledge.

With regard to my own experience in fall

I shall be pleased to give you and Mr. Put-

As the French writers whom I have quoted will say that D'Albret was head gardener for at the Garden of Plants; Du Breuil is profes-The question now arises at what time this sor of horticulture in Paris, and his work has obwinter pruning should terminate; at what sea-tained prizes from the Agricultural Societies of son the flow of sap is so far advanced as to de-Paris, Rouen and Versailles; M. Hardy is headgardener of the gardens of the Luxembourg, Paris. G. H. Lodge.

Swampscot, March 3, 1859.

drawn to this important subject, and thank Dr. LODGE for the interest he manifests in it. We did not intend to say, nor, upon reference to our article, do we find that we did say, that midsummer is the only time to perform that work. say this-that in our judgment, midsummer pruning is best, but we have often said in these columns, that if not done then, any time after the fall of the leaves, and while the tree is in a state of rest, or, at least comparatively so, pruning may be safely performed. But this state of rest is much shorter than most persons are aware of. Elms, maples, and other trees, whose twigs were as smooth as pipe stems, showing no swelling of the buds whatever, on the first of January last, had their tops so thickened up by the 15th of February, as entirely to change their appearance! We have ealled the attention of many persons to this fact during the winter. Our opinions seem to be at variance with that of the Doctor, not so much in regard to the proper time for pruning, as to what time the tree is in a state of repose. We are writing now on the 8th day of March, and any person who visits the Common may see trees whose buds are already so swollen as to essentially darken the heads of the trees. These buds were so minute on the 1st of January as not to be perceptible; they have grown since, and consequently the tree, during warm days, has been in a state of activity. That activity will continue until about the middle of June, when the elaborated sap has mostly returned to form wood, fruit, and perfect seeds.

For the New England Farmer.

LAME HENS THAT DIE.

"M. O. H." informs you he has lost fifteen or twenty hens since last fall. A few years since I had occasion to fix over my hen-house, just as duced us to his class in agriculture. This class winter was coming in. I had some nice poles, numbered seventy, about one-third being young one and one-half inches in diameter, unseasoned from the woods, and being very straight, I thought they would make good roosts for my hens, and accordingly I put up sufficient for them all with these poles. In the winter, I found some of my tions were put to them in relation to chemistry, their toes indicated that they had been frozen. I had seldom ever seen a hen on the cold ground with both feet, as one is usually up among the feathers for a short time, and then the other has they were uttering, they seemed to feel the imits turn; but I have never noticed a hen with portance to the world, of the noble ART whose one foot on the roost and the other among the mysteries they were exploring. From such a feathers. It then occurred to me that I had made them a bad roost.

The hen needs a roost of sufficient size so that by her own feathers; in this condition she sleeps tablishing of such a class as this in so popular an

with her toes in a warm, feather bed. If her toes lap over and under a roost, her feathers cannot reach them, and her toes will certainly be frozen, and in repeated freezing she becomes REMARKS.—We are glad to find attention sick and finally dies, before she has time to lose her flesh. Make your roost five inches in diameter; the hen sits on the highest point and warms her own feet.

Biddeford, Me., Feb. 14, 1859.

POWERS INSTITUTE.

On Thursday evening, the 17th of March, we had the pleasure of meeting the officers of this Institute, the officers of Instruction and Government, the pupils and many of the citizens of the beautiful town of Bernardston, at the recitation rooms and Hall of the Institute. L. F. WARD, A. M., is the Principal; Mrs. E. H. WARD, Preceptress, and teacher of the Ornamental Department; Miss S. L. LEACH. Preceptress; SERVIN Schnell, native of Germany, teacher of German and Librarian; C. F. SCHUSTER, teacher of Music; J. B. Cantel, native of France, teacher of French; Charles G. Allen, teacher of Penmanship; Edward B. Phillips, teacher of Vocal Music, and WILLIAM DWIGHT, M. D., lecturer on Physiology.

This Institute had its origin in the munificence of Edward Epps Powers, late of Columbus, Georgia. To his native town, Bernardston, he devised ten thousand dollars, the income of which is to be used for purposes of education in said town. To this bequest, the citizens have added liberal sums, so that they have constructed a fine building containing commodious rooms for recitation, library, philosophical apparatus, &c., and a large and beautiful Hall for declamation and lectures.

But what is more attractive to us than any of these, and gives this pioneer institution its crowning merit, is its agricultural feature. Before entering the Hall, we were invited into one of the recitation rooms, where Professor Ward introwomen, and both sexes being of the ages of seventeen to twenty-two. A more gratifying spectacle than this we have rarely witnessed. Queshens limping, and some died; they were fat, but plants and soils, which were answered promptly, intelligently, and with a most lively interest. While they understood the purport of the words germ as this, what grand results may flow! What investigations, what intellectual labor and the toes and foot can be protected from the cold profits may result from this beginning! The esinstitution, cannot fail to produce the most happy influences upon our rural population. It has our hearty sympathy, and warm wishes for success.

The pleasure of addressing this class, the other pupils of the institution, and the citizens generally, was reserved for us for the evening—this being the first lecture of a series, several of which are to be upon agricultural topics.

Our stay in town was made agreeable by kind attentions from all with whom we came in contact, and especially by the cheerful hospitalities of Gov. Cushman and lady, whose guest we were during our brief, but highly interesting visit.

For the New England Farmer.

THE SEASONS.

How beautiful is Spring! Every one hails it with joy, as it comes decked with lovely flowers, and with green robes for all the vegetable world. yet that does not prove that trees thrive best, All Nature, animate and inanimate, is subject to under such treatment. People are strongly atits influence. Birds return from Southern climes to enliven the scene with their cheerful melody. The various animal tribes express their delight, each in its own peculiar manner. Man, too, par- the spring was the proper time to prune apple takes of this universal joyousness. The young trees. are jubilant, the old are electrified, and in a measure rejuvenated, and a grand chorus of admira-the N. E. Farmer, and told me that if I wished tion ascends from every valley and every hill-top. This is the season of PROMISE.

Summer succeeds. The seed has been committed to the earth, the tender blade is shooting forth, and careful culture and training are needed to insure a crop. Anxiety oft takes possession of the mind, producing a salutary effect by induc-told me to leave off that unnatural practice of ing a greater degree of watchfulness. Occurrences beyond our control may sometimes blight our vice, and that has paid me for the paper over prospects, yet upon our own exertions, mainly. depends a renumerating harvest. A little neglect have learned by reading the Farmer. If I find is often highly detrimental. This is the season some articles published in it, written by corresof HOPE.

Autumn follows, when the promise of Spring, and the hopes of Summer, are to be realized. If we have sown in good soil, and have cultivated the tender plants with proper care, imploring, the while, with grateful and prayerful hearts, the blessing of benignant Heaven, we shall now receive an abundant harvest. This is the season of possibility. But, if it was one-half true, it was

Winter, the season for Contemplation, soon arrives, with its icy blasts and howling storms. but he who has acted well his part in the preceding seasons, will be prepared for this. has crowned his labors; his garners are full, and more generally raised in New England? Is it he may sit quietly and comfortably by his own not a profitable crop? Some say it is, others say fireside, undisturbed by wind or storm, and unscathed by the pinching hand of want. He reflects upon the past, anticipates the future, cultivates his intellect, and, with the eye of one who has done his duty,

"Looks through Nature up to Nature's God."

In contemplating the vicissitudes of the seasons, he can exclaim with the poet of Nature,

"These as they change, Almighty Father, these Are but the varied God. The rolling year Is full of Thee."

Bloomfield, C. W.

L. VARNEY.

For the New England Former.

APPLE ORCHARDS.

"When doctors disagree, who shall decide?"

Mr. Putnam, of Danvers, tells us through the Farmer, that he, and his neighbors, have practiced pruning their apple trees in the spring, for the last fifty years, and as yet have discovered no injurious effects by so doing. But the editor comes out with a good, sound, philosophical argument, to prove that the spring is, of all seasons in the year, the worst time to prune apple trees. I believe the editor is right, because ne gives his reasons, backed up by long experience, and that experience tried by both rules is worth more than a whole volume of theories. This is the kind of evidence I like, proved by practical experience. Theories are good enough, when proved and made to be facts. It is possible that trees in a good soil, may be practiced upon in the manner friend Putnam has done, and not only "still live," but give signs of good treatment, tached to old customs, and are ready to follow them, without thinking whether they are right or wrong. I once thought, like many others, that

But a few years ago, a man came along with to take one of the best agricultural papers in the country, to just put my name on his book, and my wishes would be gratified. The man looked honest, and I took his word for it, and put my name down. I have since learned by reading the Farmer that the man told the truth. The Farmer bleeding my trees in the spring. I took the adsince. But that is only a small part of what I pondents, that do not seem practical or true, I think them of some value, because they call attention and thought upon the subject, and by that means facts are ascertained.

A man stated some months ago that he raised an enormous crop of wheat, by planting it in hills. The story was incredible, it seemed an imvaluable information. Because, if it is discovered that a better yield of wheat can be produced by planting in hills or drills, it is an important fact. As we are now upon the wheat subject, allow me a few words upon this head. Why is not wheat it is not. Here they disagree again. But there is Mr. A., who raises a good crop of wheat every year, enough for himself, and some to spare. But, there is Mr. B., right by his side, who says he can't do any thing with it; it will rust and mildew, and is a very uncertain crop, it don't pay. Now where is the trouble? I rather guess Mr. B. don't take the Farmer. (By the way, I wish the Farmer would say much more upon wheat-growing.) Wheat is one of the staple articles of food in our country, and its cultivation should be well looked after. It is successfully raised in most all parts of New England, and esnot to be wholly dependent upon the West, and he cannot waste the milk; yet it may take three the mercy of speculators, for our flour. What is or four days, at intervals, to teach him to drink. needed, is a proper knowledge upon the cultiva- 1 should have stated that the box or calf stall has tion of wheat; it is evident that the soil has be- a door, or movable board, in the rear, so as to come exhausted of the elements which are requi- get the calf in and out easily. site to produce it. Undoubtedly, there are fertilizers within the reach of every farmer, if known, which could be applied to the soil and supply the deficiency. And I believe, that with a proper care, in selecting and changing the seed, and sowing it in drills, at the proper time, wheat may not only be made to pay, but he a profitable crop to the farmers in New England, and their eyes be gladdened with the sight of a golden ish fowls? I also wish to get some Bolton Grey harvest of wheat every year. Who can enlighten the farmers on this subject? Ye wise ones, let Dover, N. H., 1859.

B. G. O. your light shine through the N. E. Farmer, that it may "run to and fro, and knowledge shall be increased." A. Philbrook.

Remarks.—The kind words of our corresponhave been spring-pruned, that do not bear evi- for in this city. dences of injury from such pruning; and we have no doubt, whatever, but we can find them in Mr. Putnam's. Friend Putnam may expect us to we will compare notes.

East Saugus, March 16, 1859.

For the New England Farmer.

KICKING COWS AND STUBBORN CALVES.

Mr. Editor :—I perceive that your readers are having some experience with kicking cows, on which subject I have a word to offer. I have a beautiful four years-old cow, and a good milker; kind and gentle when her teats are not sore, and her treatment is exactly in accordance with her notions of right; but otherwise a very expert and furious kicker. With one fore foot strapped up, she will kick with the hind leg of the same side, so as to knock a pail out of my hands, or strike me above the knee. With a rope and twister around her, she will distort the symmetry of a milk pail, instanter.

But I can milk her with perfect safety to myself and pail, by putting her in the stable with a common chain tie, then lashing her body, just back of her fore legs, firmly to a strong, short partition, not extending far enough back to be in the way of milking; and lastly by attaching a strap to the hind leg, on the milking side, drawing the leg back out of harm's way, and so as to give a liberal exposure of the udder, and a wide berth to the pail, and making fast said strap near the floor in the rear. All which appliances can be adjusted in two minutes.

To teach a calf to drink milk, I construct a stall, or box, for him, so narrow and short that he can neither turn round, lie down, or move forward or back, with his head over a large wooden

tablishes the fact that it can be done. We ought away. I do not hold the calf, the box holds him;

I. B. HARTWELL. Wilkinsonville, Mass., March 21, 1859.

EXTRACTS AND REPLIES.

BLACK SPANISH FOWLS.

Have you eggs to sell from pure black Span-

Remarks.—We have often given ourselves considerable trouble to answer questions similar to the above, by going to the places where fowls and eggs are sold, when the dealers ought to make known their trade by advertising. But as dent are encouraging. He confirms what we feel they prefer not to help themselves, we have conassured are facts with regard to pruning. There cluded not to help them any longer. There are are few orchards twenty-five years of age which plenty of the fowls and eggs which you inquire

PROLIFIC PUMPKIN SEED.

SAMUEL HURD, Esq., of Leicester, exhibited at the horticultural exhibition in this city, last make him a call some pleasant morning, when fall, 19 sweet pumpkins weighing 110 pounds, which, with two that were not ripened, grew upon a vine measuring with its branches, 190 feet in length-and the whole is the product of

I purchased the above pumpkins of Mr. Hurd, and have used them through the winter, cating the last of them, last week. They were of the most delicious flavor. I have saved the seeds, and they number 10,341 good seeds.

Worcester, March 12, 1859.

OATS TURNED TO RYE.

I saw in a late Farmer an account of oats turning to rye, as being a late discovery. Seventyfour years ago, my father moved into Randolph, Vt., and two other families at or about the same time. One man of the number sowed half an acre of oats too late; he let his oxen feed on the oats as long as they sprouted up through the season, and the next spring they grew up, and the latter part of the season he harvested a crop of good winter rye. LEANDER TURNER. East Bethel, Me., 1859.

CURE FOR POTATO ROT.

Mr. ROBERT FRENCH, of East Haverhill, N. H., states that the potato grown from seed that has been soaked one hour in blue vitriol water will not rot. His recipe is "one-fourth of a pound of blue vitriol dissolved in three parts of water; cut the potatoes and soak them in the solution one hour, and then plant them. They will bowl made stationary at the proper position for germinate readily, and their vines will not blast, drinking. Then with my hands and fingers work nor their tubers rot." Try it in a small way.

TIME TO COLLECT AND SOW THE SEED OF THE WHITE PINE.

Brookfield Subscriber," I would say that white from the ground to the limbs, and is loosened pine seed is ripe in the latter part of August, or from the wood, half or more of it on the trunk. the first part of September. It should be col- About one-sixth of my orchard of ninety trees is lected just before the cones begin to open, the affected in this way. cones being laid away in some dry chamber until the seed can be thrashed out, when it should be sowed as soon as convenient, this being the time when they are naturally sown. It is a very good practice to sow on land after having sown winter rye without any covering; or, if sown on old worn-out land, it would be well to harrow the ground previous to sowing. There has been no seed grown in this vicinity for several years.

Pelham, N. H., 1859.

B. F. CUTTER.

WARTS ON A CALF'S NECK.

I have a yearling calf that has got warts on its neck about as large as a quart measure; they have been growing all winter, and now have a very offensive odor. I wish to inquire through your paper, what will prove a remedy.

What is the best thing I can do for lice on my LUTHER.

young stock? Milford, March 7, 1859.

REMARKS .- We cannot tell you what will cure the warts. A little mercurial ointment rubbed upon the cattle with a tooth brush will kill the lice.

CIDER VINEGAR --- AN INJURED COLT.

Can you tell me of the surest and most expeditious method of making good eider vinegar?

Will you refer me to some treatise on road-

making !

I have a colt in perfect health, which has a swelling on his breast, caused, some say, by feeding from too high a crib. If this is not the cause, please state what is, if you know, and the remedy. A. B. C.

Remarks.—Loudon gives a chapter or two on road-making, in his "Encyclopedia of Agriculsatisfactorily.

A BIG CALF-CORN FODDER.

I had a calf dropped March 14th, that weighed 1272 lbs., and the cow had been kept all winter on corn fodder and meadow hay. I have winfodder and meadow hay, and they are coming out

well this spring.

Some of your correspondents boast of keeping stock on corn fodder and turnips, as a proof perience. Mr. W. A. Simonds advertises a wash of the goodness of turnips. I consider corn fodder a good feed. In fact, I have always noticed that my cows failed in their milk when my corn fodder is out. The fodder from an acre of good corn is worth as much as the average of English hay on the same quantity of land.

I have fed my corn fodder without either cutting, steaming or mealing, and I have no doubt them been done. Ed. Emerson.

Hollis, N. H., March 19, 1859.

SPLIT BARK ON APPLE TREES.

Can you inform me what I can do to save my In answer to the inquiry of your "North apple trees? The bark on many of them is split S. D. M.

Mansfield, Mass., March, 1859.

REMARKS .- Will some one informed on the subject enlighten us on this question?

FEEDING FODDER TO STOCK.

In reply to a communication in the Farmer of March 19, by a "Subscriber" in Woodstock, Vt., in relation to keeping farm stock, I think if he will cut his hay for cattle and horses, mix his corn and oat meal with it, and feed judiciously, it will not cost more than two-thirds the amount to keep them that it will to feed hay and grain

For sheep, and especially ewes with lamb, I should feed potatoes, (after they become accustomed to them,) at the rate of one bushel to a hundred sheep per day, chopped fine, and a small quantity of eorn or oat meal well mixed with With me it has proved a saving of hay, them. and improvement in the condition of the sheep. South Strafford, Vt. A FARMER.

CALIFORNIA POTATOES.

From half a bushel of seed, cut small, and three pieces put in a hill, I harvested thirty-three bushels of potatoes. They were planted in ordinary ground, 3 ft. 4 in. apart, and 2 ft. 8 in. between the hills. The manure was plowed in: when hoed, they were dressed with leached and unleached ashes and plaster. O. THOMSON.

Jericho Centre, Vt.

A FINE NATIVE BULL.

I have a native bull two years old, of fine form, light red color, not fat, only just decent store order; he weighed to-day 1300 lbs. He had the benefit of a farrow eow through the summer of 1857. Since then he has had nothing but grass ture." The other questions we cannot answer and hay to eat; he is gentle to handle, and not LEWIS WARD.

Naugatuck, Ct., March 18, 1859.

WARTS ON PLUM TREES.

Has there been any effectual remedy discovered for preventing warts or hard protuberances tered twenty head of cattle this winter on corn from growing on plum trees? If so, what is it?

> Remarks.—We know of none from actual ex which he says is a remedy.

MUCK COMPOST.

"O. N. M.," Warner, N. H., will find many articles in the recent numbers of the monthly Farmer on the subject of his inquiries; also, a pabut what it would have been better had all of per in the Patent Office Report for 1856. The name of the person he inquires for may be seen at the head of our paper.

HOASE FOOT AND HORSE-SHOEING.

wardly seems to be one solid block, thicker than than those mainsprings of grace which are en- removing the irregularity of the hoof.

closed in the fine gold watch.

The horny case is lined with plates that are at once elastic and devoid of sensation; thus concussion is broken and blows are not felt. By this admirable combination of solidity and elasticity, the given and most difficult mechanical problem, to wit, the moving of a heavy body with great velocity, is solved. The outside is called the "crust," paper something concerning Hungarian grass, I in England, and in France, the "wall." The front thought I would tell my experience. Last seapart of the hoof is thickest where the first and son I procured four quarts of the seed, (paying where expansion, not resistance, is required. The to come on as buckwheat or the like, but to my ground surface of the foot is composed of a sen-regret, it proved to be three weeks longer masitive sole, which is endued with a power of deturing. A frost the 29th of September cut it as scent and ascent according to the pressure on it low as it would melon vines, and I am left minus from above, and of the frog, a spongy, but less any seed. It is a query in my mind whether it finely organized substance, which swells at the can be raised and made as profitable as it is said back part, bulby and well-defined in the unshod to be, by those that have the seed to sell. That colt. The whole use of the frog is an open quest cattle and sheep would eat the straw when it was portant functions.

it is gradual. The spur of the horseman may noting all its qualities and see if humbug is not cause the horse to bear much pain, without flinch- in the ascendency. ing, but endurance has its limits. You will find Will some one inform me through the Farmer that he steps more carefully, nor does he put his whether a dairy of thirty cows can be kept in taken not to wrench the foot nor to injure the and at six. external crust of the hoof. Care must be taken not to pare the ground surface too thin; rasp off the rough particles adhering to the crust, but do dead limbs The hoof, in its natural shape, should and the floor well littered. guide the smith in the selection of the form of the shoe. The shoes should be of equal thickness throughout, with a flat ground surface; shoes with high heels are dangerously absurd; the toe,

the power of expansion the greatest. Five small nails for the fore foot and six for the hind are sufficient; large nails make too big holes in the It has been my lot to have two horses spoilt crust. They should be driven into the outer quarby bad shoeing. On that account I was induced ter, where the crust is the thickest; not forced to study the formation and nature of a horse's in too high, but the points brought out as soon This portion of the horse, because it out as possible, clenched down broadly, and then not too neatly rasped away, which weaken their hold. a driver's skull, and made, therefore, to be bat- The heel and inside quarter to be left free. When tered, without mercy, on roads, paved, &c., con- a shoe is properly forged, there is no danger of tains a mechanism inside that is no less exquisite applying it hot to the crust, for the purpose of

For the New England Farmer.

HUNGARIAN GRASS---COWS STABLED NIGHTS.

Mr. Editor:—Having read in your valuable heaviest shocks are met, and thinnest at the heel, \$1,00.) and sowed it the 2d of July, expecting it tion; but every one accords to it the most important functions.

raised from hay, better than they do oat straw, I have no doubt. But when for the seed, it must It is useless for me to go into the minute part be sown so thin that it may fill well, that it would of the foot, but I will say that whenever there be coarse and hard, rendering it unpalatable to is inflammation in the foot, however small, the them. After seeing what I saw of it, I should horse will rest it, to shift the seat of pain. At recommend to all who intend to sow some, to first the disease does not show itself much, but buy sparingly, and sow early, and on good ground, it is not all the seat of pain.

foot ahead, and there is also a lowering of the stables nights through the summer months, and head and neck to remove the weight from his do as well as they would in a pasture of eight feet. Nature has formed the foot in the right acres? I have good stables and cellar for the shape to be shod; it does not need much trim-droppings, straw for litter, and hay to feed them. ming. In pulling off an old shoe, care must be if they will eat it. I want to milk at four o'clock E. J. BUTTOLPH.

Essex, Vt., 1859.

Remarks.—We have no doubt but cows are not pare the frog, as, if it is bared of its slight kept through the night, in well-ventilated stables, covering, it is apt to dry up and erack. The rough edges of it should never be removed. It should be left to nature, for the frog throws off its worn-out teguments, like a tree casting off its pasture. The stable should be clean and sweet,

LOCKJAW IN HORSES.

This is a terrible malady to which horses are which ought to be raised, is lowered, and nature's sometimes subject, and it is generally fatal, owing plan reversed, which elevates the point in order to to the want of skill on the part of veterinary avoid obstructions. The web should be wide, and physicians. The method pursued by them in its of the same width throughout; if drawn in at treatment has been blistering, clystering, &c., the heel, it exposes the naricular joint, and if that which rather aggravates than relieves the spasms be inflamed, at once you have a lame horse. In that usually attend it. Death generally ensues putting on the shoe, it should rest only on the by this practice, and the disease has been held to horny run of the foot; it must not press on the sole, thereby arresting the springy operations, or Veterinary Review, a new system of managing encumber the heels, where the crust is thinnest and lockjaw is described, and nearly all the cases in

bly. The plan eonsists of a hot water packing, of land all through the Pines, which until lately similar to that pursued in the "water cure" for have remained valueless; and even now a farm the genus homo. As soon as the horse is observed may be bought at the lowest Western landto be affected with tetanus, it is wrapped from holders' prices. Not the heavy soils of the West head to tail in four or five pairs of blankets, which are to be found here, but good light soils, varyhave been wrung out of warm water at a temper- ing from four to twelve inches in depth, with a ature of two hundred degrees Farenheit. The fine warm subsoil of sand, just such as your animal is then allowed perfect rest and quietness Cambridge market-gardener would select. These for about two hours, when warm water of the soils are much more easily worked, and are earabove temperature is poured along its back out- her than Western lands, side of the blankets, and another like period of Early in the morning the collier called for myrepose is allowed, and so on till a cure is effected. self and baggage, and soon after we were in the A thin gruel of flour, oat, or Indian corn meal is midst of pine forests. An hour later and we given, when the jaws of the animal are capable had emerged upon a plain, leaving the forests of being opened. As horses are liable to take behind us. For miles in all directions the woodlockjaw from pricks in the feet, caused by care- man's axe had been busy, for scarcely a tree could less or unskillful blacksmiths while shoeing them, be seen-all the wood had been turned into charthis simple method of managing the disease can coal by the industrious colliers. By eleven be applied by any person, and is well worthy of o'clock we had again entered the forests of yeltrial.—Rural New-Yorker.

For the New England Farmer.

THE PINES OF NEW JERSEY.

Mr. Editor:—A vacation well spent gives rise to agreeable memories long after we have returned to our accustomed duties of every-day life. A visit to that mysterious and historical region, "The Pines of New Jersey," had been contemplated by us for many months; for we had heard of the good farming prospects which returned to our accustomed duties of every-day had heard of the good farming prospects which been made from this indestructible clay, and a had heard of the good tarming prospects which have already induced many sons of New England dentist of Trenton has made teeth out of it for to settle there; and wishing to investigate the feasibility of settling with some friends where lands are cheaper than at home, we left this city the farm upon which it was discovered, sends during the month of July for the "Pines of New the clay to New York, where he gets twenty dolars to the sentence of Jersey." While transferring our baggage to the lars per ton for it. Another hour's ride brought Camden and Amboy railroad depot, in New York, us to a tract of hazel loam covered with oaks. Camden and Amboy railroad depot, in New York, the round face and stout form of Capt. Bluff, an old acquaintance, suddenly confounded us. The "Where are we now?" I asked of our collier; old acquaintance, suddenly confounded us. The "On the Hanover Furnace Tract," he replied. In we drove, and coming to a farm-house, the life out of us, as he cordially grasped our hand, and inquired, "Where are you bound to?" And after learning our destination, the jolly captain made us follow him to the beautiful schooner that he commanded, which was to sail that very afternoon for Tom's river, on the east coast very afternoon for Tom's river, on the east coast of New Jersey. The captain would not take any refusal to his invitation that we should accompany him in the Mermaid, and that night, with the surveyors lived upon the tract, and were employed the float reveal was a fine breeze on her quarter, the fleet vessel was leaving Sandy Hook at the rate of ten miles per Another ride of four miles brought us to the

which it has been applied have resulted favora- not been removed. There are really good tracts

low pine, and my sooty driver informed me that we were on the Hanover Furnace Tract, one of the largest landed estates in New Jersey. About this time we observed men at work throwing out a fine sort of white clay-so white, indeed, that one might mistake it for chalk. It was Kaolin, decomposed feldspar. The owner of this spot had purchased seventy-five acres of sandy land

Another ride of four miles brought us to the After entering Tom's river, we bade farewell of which some thirty houses were embowered in to the captain, and engaged a collier to take us through the Pines to the open country beyond. We are now abruptly entering on new ground—a few words regarding this interesting and muchtalked-of region. During the revolutionary days the Pines were infested by the tories, who often talked-of region. During the revolutionary days the Pines were infested by the tories, who often made incursions to the settled country in this vicinity, where they robbed and murdered to their hearts' content. The rebels often followed the forests where fierce battles were fought with the forests where fierce battles were fought with the tories. The Pines received a bad name because they were the home of these lawless people, and though the tory has long since gone to his judgment, still the prejudice against this region has

they can sell their lands at ten, twelve, and fif- worst case. - Ohio Farmer. teen dollars per acre. Large, natural cranberry meadows are scattered over the tract. One man had purchased a cranberry meadow containing one hundred acres for eight or nine hundred dollars; the first year's yield was two hundred Boston, March, 1859.

NEW ENGLISH PEAR.

inches and a half in its greatest diameter, longi- to do so until the crop is matured. tudinally and transversely; stalk short, stout; color dark russety-green, purplish on the sunny and a half feet deep, in a light, sandy soil, where texture very melting and juicy; flavor rich, aromatic and very sugary.

specimens of leaves and wood; the former are low as possible, and not be in danger of freezing. small, not exceeding two inches and a half in In this way it may be kept in fine order until length, nor one inch in breadth, very delicate in spring. substance, and much serrated, the foot-stalks being nearly as long as the leaf itself, and very slender. The latter is very pale in color, slender but firm and very short-jointed. Mr. Graham matoes. The women can do it in the house -states it to be very hardy and free from canker, and that its habit of growth is very upright, prorally forming a perfect pyramid or cone.—Eng-

lish Coitage Gardener.

HINTS TO FARMERS .- Toads are the best protection of cabbage against lice. Plants when drooping are revived by a few grains of camphor. In frying out. In feeding corn sixty pounds plants.

for examination, but he would not sell to any ground goes as far as one hundred pounds in the person unless they were well satisfied that they kernel. Corn meal should not be ground very could do better here than elsewhere. He de-fine, it injures the richness of it. Turnips of spised all methods of land speculation, and he small size have double the nutritious matter that wished to have only temperate, energetic men of large ones have. Rats and other vermin are kept good character settled around him. For nearly away from grain by sprinkling garlic when pack-one hundred years this great tract has been ing the sheaves. Money expended in drying owned by his family. It was purchased in the lands by draining or otherwise, will be returned days when land was valueless. The Jones's title with ample interest. To cure scratches on horsto their land came from the original appointed es, wash their legs with warm soapsuds, and then proprietors-almost direct from the crown. Thus with beef brine; two applications will cure the

For the New England Farmer.

CULTIVATION OF CELERY.

MR. EDITOR: - Some time last season I noand seventy bushels, bringing him some seven ticed an appeal made to your valuable paper for hundred dollars. At Hanover Furnace there are information respecting the cultivation of celery. saw-mills and a grist-mill, besides the Furnace I thought I would give you my method of cultifor iron castings. Lumber—pine sell at from vating this delicious plant. In the first place, I twelve to sixteen dollars per thousand feet, ce- go to the pasture and dig a quantity of turf from dar about the same. Hanover Furnace is thir- the bushy spots, laurel beds if there be any. Then ty-five miles from Philadelphia, forty-five from collect any old rubbish that will burn, and with New York. From the latter city it is reached this I burn the turf until it will pulverize. This by the Camden and Amboy railroad to Borden-destroys all foul seed, the eggs or larvæ of intown, from thence to New Egypt by stage. The sects, and provides a mould which has not been postoffice is at Pointville. I send you this sketch, exhausted. I mix this with fine rotten manure, hoping that it may benefit some of our New Eng-two parts mould to one of manure. After making land people. Let our young farmers go to New my hot-bed in the usual manner, I put on five Jersey, where no fever and ague prevails, taking or six inches of the mixture, then sow the seed, with them the New England Farmer, and they and never allow the plants to grow nearer than will succeed far better than they will at the West. three inches of each other. Thus provided with strong healthy plants, I trench as early as the season will permit, eighteen inches deep, clearing from the trench all soil that may contain foul seed. and fill up six inches with the mixture of burnt F. J. Graham, Esq., F. R. S., of Cranford, mould and manure. In this I set the plants, Middlesex, brought a seedling called Graham's hoeing often, and watering if the season be dry. Bergamot, which was considered the most deli-When the plant is eight or ten inches high, I becious seedling pear that had ever been brought gin to fill moderately with the burnt mould withunder the notice of the Society [British Pomo- out the manure, preferring to give the plant the logical.] The fruit was medium size, very ob-benefit of the light and air, until the middle of tusely conical; an average fruit measuring two August, then fill up with the mould, and continue

To keep for winter, dig a trench at least three side, inclining to pale cinnamon as it ripens; there is no danger from water; in this put the plants with the top down, leaving an open space below this to be covered, but not so deep as to Mr. Graham subsequently sent the Secretary keep it too warm, and let the temperature be as MECHANIC.

Westboro', March, 1859.

TOMATOES .- Now is the time to start the to-Take any old box, bucket or pan, place some ducing abundant blossom buds-the tree natu- coarse horse manure on the bottom, and fill with rich loam. Set it in the sun for a day or two, keeping it properly moist, until the whole mass is warm, then sow your seeds. After they have come up, do not let them stand crowded, as a few vigorous plants are better than many weak ones. Sulphur is valuable in preserving grapes, &c., See that they are always kept properly moist, from insects. Lard never spoils if cooked enough and you will get an abundance of stout, healthy

POTATOES --- SEEDING --- WHEAT, &c.

MR. EDITOR:—Is it not a fatal error, that the farmer is a little too economical in seeding with small potatoes, instead of large ones, when he is so unsparing in his cash outlays for all other good seed, and especially, of some new and unknown variety? Here, on Long Island, potato-growing is reduced to a science. We have many ered with snow from two to four feet, according the idea of planting "pig potatoes" to realize from. This would seem to be a common sense view of the matter. They plant a quarter of a inquiry if ashes exhausted the soil? Although I large potato two feet apart, and want only three thought your reply hit well "the merits of the to four stocks in a hill. This practice of planting case," I will just relate an incident in regard to and cultivation was satisfactorily proved to me, that subject that came under my personal obserby going into a field of fifteen acres, where sev- vation. eral men were digging, and scarcely a pig potato ketable potatoes, which required no sorting.

periment may be tried, I would suggest that these on, like manure. At the time I speak of, there small eyes be planted in separate rows. The trial was a well defined edge to the part where the will cost nothing, and may turn out to be a valuable discovery. Last year, the potato discussion double the grass that grew all around it. The terminated (as I thought,) in favor of large seed soil was a dryish, sandy loam, and had long been for planting. Yet, several of your correspondents under cultivation. made a fair showing for the pigmy family. The last few years of my own farming convinced me, that planting small potatoes from year to year. was the sure dwarfing principle. The bins in in your estimate of the value of the carrot, but my cellar bore evidence of the fact. I am de- we have no table at hand to show you its relative lighted to learn, that your farmers in various sections of New England are trying the wheat crop. Take your warm uplands for spring sowing, and your strong grass sward for August sowing, and there will be a sure necessity of increasing your grist mills at home. Four bushels of wheat is worth, in every family, a barrel of flour-worth remembering. Our spring opens in earnest, the green grass and swelling lilac buds even to leaf, would seem to have bidden the winter good-by. Time will develop, whether "Winter's back is broken", or to return again with its frosty nightcap-we hope not! H. Poor.

Brooklyn, L. I., 1859.

the "seed end."

of it is, that we receive contradictory statements grafting-wax or other protection, not heal well as to its productiveness, that it is somewhat most readily unites with the stock? But for Mr. doubtful whether it will ripen its seed in all parts Carter's statement. of New England, that it is an annual, requiring | "Each of the three lots contained four rows,

to be sown every year, and that our friends had better purchase the seed sparingly, and only sow small patches of land for experiment.

For the New England Farmer.

CARROTS---MANGOLDS---ASHES.

farmers who sell from two to seven thousand to location, yet we expect in due time to have an dollars value a season. This constitutes the prin-opportunity to plow our land and put in the difcipal crop of the farm, with the exception of the ferent kinds of seed, and I thought if I had a lit-Swedish turnips, which are transplanted after the tle more information, (which I have no doubt early potato crop is taken off. They plow in you can give,) I shall know better what proportion for and plow deep; select their largest potatoes for planting, cut off, and give to the potatoes for planting, cut off, and give to the Farmer of January 8th, you give a very interesting the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of the comparative value of the difference of the large points of th (on the long varieties,) such as Jenny Lind, Che- ent kinds of fodder, but you said not a word nango, Long Reds, &c.; by doing this, they get about "carrots," a crop that I have entertained a no small potatoes, and as many pounds as if the higher esteem for, than for any other root crop whole were planted. They say, the body of the for stock that I have ever raised, not excepting potato contains the large, healthy germs, (which the potato. Please inform your readers of the must be self-evident to all farmers,) and ridicule relative value of this crop, according to the basis

In the summer of 1849, on a farm in Avon, could be seen-but on the contrary, large, mar- |Ct., the proprietor showed me a place in his field where he said twenty years before, he hauled out Now, that nothing may be lost, and a fair ex-leached ashes after making soap, and spread them A. M. BRAINERD.

Alexandria, N. H., March 10, 1859.

REMARKS .- You are not mistaken, we think, value with other fodder.

For the New England Farmer.

TOP-STALKING OF CORN.

Having noticed some discussion lately in the N. E. Farmer respecting the utility of cutting corn stalks, I thought that the following statement of Mr. Solon Carter, of Leominster, to the Worcester North Agricultural Society, published in the Abstract of Returns of the Agricultural Society of Massachusetts, 1856, (pp. 246, 247, note,) might perhaps be both new and useful to the readers of the Farmer. I am inclined * Many farmers think the potato will not produce, without to think, that in many cases, old practices, upon sufficient examination, will be found to have much of reason in them. Even pruning fruit HUNGARIAN GRASS.—We continue to have in-quiries in relation to this grass. All we can say by removing a limb and covering the same with and soundly, at the same season that a graft

Sept. 24. Lot No. 2, had the top stalks cut in be sent to the penitentiary for stealing and left standing whole until October 29, when each your boys get large enough to work, find work of the lots was harvested and husked. The ears for them at home; on no account let them go mained until Dec. 20. At this date the whole to teaming; I care not if they can get fifty dolwas shelled, and the result is as follows:

was shelled, and the result is as lone .			
	Lor No. 1.	Lor No. 2.	LOT No. 3.
C	at up whole	Top stalks	Left
í	ind stooked	cut	standing
	Sept. 24.	Sept. 24.	whole.
Oct 2. harvested, weigh	t, 143 lbs.	$155\frac{1}{2}$ lbs	154 lbs.
Dec. 20, shelled, corn we	'd, 111 ''	131	125 "
Cobs weighed,	16 "	18 "	171 4.
Total,	127 -	149 "	1425 "
Shrinkage,	16 "	61 44	115
Per cent. of shrinkage,	13	4	8

"It appears, by this experiment, that the corn hich was stooked weighed least at harvest and shrunk most before shelling, while that which had the top stalks cut, weighed most at harvesting, and shrunk least before shelling. - Secretary of the Society."

Perhaps it may be proper to say that all the lots, in other respects, were cultivated alike.

Boston, February 22, 1859.

REMARKS.—There is a great difference between cutting off a limb near its termination, where it is small, and where but comparatively little sap is flowing—being scattered into all the branches and twigs in its neighborhood-and able sap.

KEEP THE BOYS AT HOME.

swear and use tobacco, and so began their ca- manufacturer. reer of crime. Having finished his address to and said :-

are here to-day looking on the saddest scene it soil, without system, without adequate knowl-

of twenty-four hills each; in all ninety-six hills. has ever been my lot to witness in this county; Lot No. 1, was cut at the ground and stooked so many boys, farmers' sons, too, all of them to the usual way, at the same date. Lot No. 3, was burglary. Farmers of Chatauque county, when were then spread about six inches deep, and re- into the city or village to work; nor let them go lars per month, it will be a dead loss. They will just as surely follow the example of these boys, now before you, as they leave the sacred and restraining influences of home. Give them plenty of good books, and papers, make home pleasant, and keep them there until they are of age and have the wisdom to resist the temptation of the high wages on the road or in the tavern, but obtained at the expense of good character."

For the New England Farmer.

AGRICULTURAL PROGRESS THE BASIS OF HUMAN PROGRESS.

Mr. Editor:—When the time comes, which is foretold by the prophets, "when the swords shall be beaten into plow-shares, and the spears into pruning-hooks"-when universal peace and harmony prevails, and "righteousness cover the earth as the waters do the sea"-then will the interests of mankind become associated; then the whole earth will be one great mammoth association. Our Saviour has said, "for where your treasure (or interest) is, there will your heart be also." Therefore, those who act voluntarily, are cutting it off close to the body of the tree. If governed and controlled by what they deem to you were to cut off the first joint of a finger, the | be their interest; and this interest or treasure, is danger of bleeding to death would not be so not confined to money—to dollars and cents; but great as it would if the leg were cut off at the and harming and beauty thigh! A skilful operator leaves what are called to exercise or do a disinterested act. Isolated leaders, when grafting, to take up the flowing and antagonistic interest is the source or germ sap and divert it from the limb that is cut off. of all the contentions, wars and crimes extant These leaders are vigorous limbs that spring on the face of the earth—is "the sin of the from a larger one just back of the one that is cut world." Isolated labor is, for the most part, unproductive, discouraging and unprofitable. off. But even with this care, and that of covering sociated interest and labor levels the mountainsthe wound with grafting wax, they will some-times bleed and decay. The scion itself, although so small, also takes up and disposes of consider-vation of God." By it a "highway is cast up for the ransomed of the Lord to walk in,"-by it the iron horse moves through the length and breadth of the earth —by it the manufacturer has made his fabrics plenty and cheap. Most of the In the circuit court of Chatauque county, N. great enterprises of the day, in the arts and sci-Y., says the Springfield Republican, eight or ten ences, are accomplished by associated interests young men were sentenced to the penitentiary and labor. Almost every useful commodity is for theft, burglary and other crime. Before pass- made plenty and cheap, except our bread and ing sentence, Judge Marvin inquired of each his butter, our beef and pork and cheese! That birth-place, occupations, and the temptations which constitutes the life of man is as scarce as that had led him into vice. All of them had been brought up farmers, and had gone to teaming, or into taverns, or some other business exposing things. Make the necessaries of life plenty and them to temptation, and had learned to drink, cheap, to correspond to the productions of the

Agriculturists are the foundation, the bottom the criminals, the judge turned to the spectators strata of the whole superstructure of human society, and so long as they remain in their isolat-"Before sentencing these hoys I have a few ed and antagonistic condition—laboring single words to say to the men of Chatauque county, handed, with their few imperfect implements, trythe agriculturists in particular, some of whom ing to force a few bushels of grain from a sterile

curse of hunger, which breaks through stone acquaintance with their names; and this will lead walls.

In the New England monthly Farmer for January, 1859, I have read a communication from the pen of Mr. Wilson Flagg, which advances, I and consequently to larger profits, because he think, some errotious ideas in regard to the ef- will better know how to manage them. fect which the steam-plow will have on the agricultural interests of the country; and the crea-we have long desired to see, upon the American tion thereby of 'great mammoth agricultural associations," which will absorb the whole of the faming interests, farmers and all! Would to God of Agricultural Botany, and enumerating and dethat this may be the result; for then we might scribing the useful plants and weeds, which merit have hope for the permanent regeneration of the notice, or require the attention of American mankind, when all the farmers are formed into one great mammoth agricultural association. Then all will be rewarded according to their works-all will be free. No more slaves, not the work whose title stands at the head of this even to those great machines, Br. Flagg to the contrary, notwithstanding-for the farmers are now slaves to the small implements. But I hope the great machines will make them free. "God speed the plow!" even the great STEAM PLOW! Ripton, Vt., Feb., 1859. Samuel Damon.

AMERICAN WEEDS AND USEFUL PLANTS.

of the machinery which he drives, or the tools from the scientific a great many queer and hard or implements which he uses in his business, will be able to converse more intelligently about it, will naturally investigate its nature and scope, and will be quite likely to make it more profitable, than one possibly can who is indifferent in regard to it.

the names of cattle, who can select an Ayrshire, nate, exserted,—the filaments (or some of them) Alderney, Short Horn or Devon, at sight, from bearded. Capsule ovoid or globose. Seeds nua promiscuous herd, and tell why each bears that special name, will usually be found to have gone beyond that point of inquiry, and has also learned spikes, or paniculate racemes. the comparative merits of each, so that when he wants an animal he knows just where to select, tose; leaves oval-lanceolate or oblong, very wooleither for the dairy, the shambles or the yoke. The knowledge of names leads to the acquisition of other knowledge which becomes actual capital to the farmer in his business; it makes up a Mullein. sound judgment to guide him in his purchases and sales, and its exercise protects him against raut. the imposition of unprincipled men.

With regard to machinery, stock, and the implements of the farm, we have already valuable helps. There are several works on cattle, and the catalogues of the agricultural warehouses give illustrations and descriptions of tools and implements, - while there are more scientific chinery, such as wind, horse and steam power.

edge, so long a portion of mankind will feel the derive both satisfaction and profit from a better -us in the case of the cattle—to a better understanding of their structure, habits and growth,

> Now we have a work before us, and one that Weeds and Useful Plants, being an illustration agriculturists.

As as illustration of the practical character of article, we will quote what it says of one of the plants common all over New England, and denounced every year as an intruder, fit only to be steeped in vinegar and applied to the face to cure a fit of ague or the mumps! It is the common mullein. We will give the author's whole account of it, so that the botanist shall not feel slighted, and that the common reader may see That person who learns and retains the names that even the despised Mullein has extracted names. Thus-

VERBAS'CUM, L. MULLEIN.

[Quasi Barbascum; Latin Barba, from its bearded or woolly habit.

Corolla with a very short Calyx 5-parted. tube; limb sub-rotate, 5-lobed—the lobes nearly equal or the front one larger. Stamens 5, une-It is so with the farmer. He who has studied qual, inserted on the tube of the corolla, declimerous, rugose-pitted. Tall and usually woolly biennial herbs, with alternate leaves, those of the stem sessile or decurrent. Flowers in dense

> V. Thap'sus, L. Stem simple, erect, tomenly on both sides,-the cauline ones decurrent; flowers in a dense terminal spike; 2 lower filaments smooth.

THAPSUS VERBASCUM. Mullein.

French, Bouillon blanc. German, Das Wollk-Spanish, Gordolobo.

Whole plant pale grayish-green or hoary tomentose,-the puoescence much branched. Ntem 3-6 feet high, rather stout, leafy, rarely branching unless injured. Radical leares 6-12 inches long,—the cauline ones smaller. Npike cylindric, 6-12 or 15 inches long; flowers bracteate. Corolla bright yellow. Ntumens unequal,—the two lower ones longer, with smooth fil-

Neglected fields; road-sides, &c.: introduced. Native of Enrope. Flowers June-July. Fruits August-September.

Obs. This plant, although abundant in all the older settlements, is undoubtedly a naturalized works that describe the more complicated ma-foreigner. It is a worthless, unseemly intruder, in our pastures and cultivated grounds. There What we have said above is intended to illus- is no surer evidence of a slovenly, negligent trate and enforce what we have to say to the farmer, than to see his fields overrun with Mulfarmer in regard to his knowledge of the pames. As the plant produces a vast number of farmer in regard to his knowledge of the names seeds, it can only be kept in subjection by a careof the plants which he cultivates, and of those ful evadication while young—or at least before which he wishes to destroy. He certainly will the fruit is mature. When neglected, the soil soon becomes so full of seeds, that the young Devons. Allowing a quart to weigh two and a plants will be found springing up, in great num- quarter pounds, it gives but two quarts, for one bers, for a long succession of years.

Beside the common mullein, there are two other kinds, the Moth Mullein and the White Mullein. The latter is a tall plant with a thin, powdery wooliness, and yellow (sometimes white)

him a definite and reliable account of every plant Farm at Westboro', to the Board of Trustees of growing on his farm in the manner in which this the Institution, with all the stock-some forty is given! Some of the terms used in describing head-fodder, grain, implements, &c. &c. it may be difficult to comprehend at first, but with | We had the pleasure of going over a portion a little care they would soon become familiar. of the farm with the members of the Executive But there is usually enough in plain English to Committee, and looking at some of the improveenable us to find out the names of unknown ments which had been commenced or completed plants, and to explain those whose names are by the Board. One experiment in draining, uncommon to us.

with revisions and additions by George Thur-tend to engage in that particular item of farm BER, Professor of Botany in the N. Y. College progress. Another in trenching, is a work of of Pharmacy, and we understand is approved by considerable magnitude, and the results from it Prof. Gray, of Cambridge, whose "Analytical so far are encouraging. Some five or six acres Key to the Natural Orders" he has permitted of land almost covered with rocks, hummocks the author to use. It is published in the neat and bushes, have been thoroughly trenched by and attractive style of A. O. Moore & Co., Agri- the boys of the Institution to the depth of eighcultural Book Publishers, 140 Fulton Street, New teen inches, and now lies as mellow as a garden York. It will become one of the most gratifying bed ready for spring seeding. and useful books we have.

For the New England Farmer.

RUNNING WATER---NATIVE STOCK.

Many are the farms that are not supplied with running water. Such was mine ten years ago. Thinking that by means of a syphon I might save the expense of pumping for my stock of cattle, I dug a well twenty rods above my barn, and twenty feet deep, the bottom of the well being on a level with the trough at the barn. The pipe was half inch, laid four feet from the top of the well, and run to the bottom; the remainder of the pipe laid so as to be secure from frost. These ten years it has worked admirably; as good today as ever. The cost of it was about fifty dollars. Now there are a multitude of places in New England, as well situated to obtain water by this means as my own, which when obtained, the owners would not part with for many times the cost.

In the March number of the Farmer is a reings, (although there is a great diversity of opinto me, and I am prepared to believe pretty large ted family. statements-but there is one, made by Mr. DA-VIS, of Plymouth, in relation to native stock, which is a little too large for me to credit. There must be some mistake. The statement is this. Herald says that among those trees whose ages have been ascertained, the elm has been known "Four pounds and a half of the milk from a cow to live more than 350 years; the chestnut, 600; Mr. Buckminster ever claimed for his favorite and 5000 years.

pound and a quarter of butter. Such a statement ought not to pass unnoticed.

Natick, March 12, 1859.

THE STATE FARM.

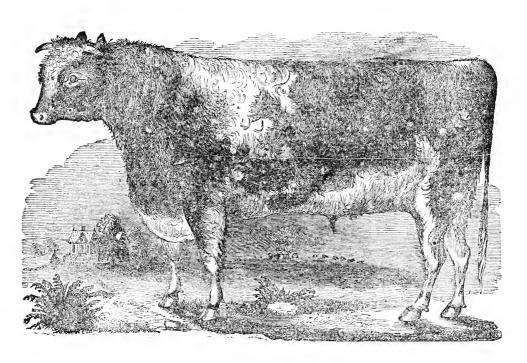
On Wednesday, March 30, the State Board of What farmer would not value a book giving Agriculture made a formal transfer of the State

der the special direction of Hon. B. V. FRENCH, The work is by Dr. William Darlington, is well worthy the observation of those who in-

The Hon. JOHN BROOKS, of Princeton, has acted as Chairman of the Superintending Committee, and no man could be more constant, faithful and persevering in the discharge of the duties which have devolved upon him.

The head farmer, SAMUEL N. WHITE, Esq., after a six or eight years' residence upon the State Farm, has returned to Brookfield to soothe the declining years of aged parents, and to settle once more in the home of his youth. These he thought paramount objects, and declined longer to remain in the service of the State. His duties at the Farm have been arduous and unremitting, and he has discharged them with an ability, zeal and fidelity which reflect as much credit upon himself as they have been valuable to the Board. Beside his responsibilities as farmer, his clerical duties have been nearly as arduous as those of a counting-house clerk, in keeping the accounts port of the Third Legislative Meeting, at which of the farm and the numerous experiments which time was discussed the best stock for general have been instituted. He carries with him our farming purposes. The reports of these meet-hearty wishes for the continued health and prosion,) are generally very interesting and profitable perity of himself and his intelligent and cultiva-

of a friend of his had yielded one and a quarter the cedar, 800; the oak, from 1000 to 1500; and pounds of butter." Now this is far beyond what some of the woods of the tropics for 3000, 4000



SHORT HORN DOUBLE DUKE.

OWNED BY THE HARVEST CLUB, SPRINGFIELD, MASS.

Esq., of New York, calved June 6th, 1856, and ly, are those that have originated in our own is of a roan color. His pedigree may be traced back distinctly to the year 1739. We are enaour fine American seedlings; they are generally bled to present this beautiful portrait of one of hardy, and of thrifty growth. Among the large our best breeds of neat cattle to the reader, collection of pears which have from time to time through the kindness of Mr. Secretary FLINT, been introduced from abroad, only a small prowho very properly prefaces the Sixth Annual Re-portion, comparatively, have proved of good

alluded to and discussed in these columns.

For the New England Farmer.

PEARS---ORCHARD CULTURE.

As regards the pear for farm culture, I feel assured that the hardy fall and winter cooking varieties will give the best returns in sales. There is standing in Salem a large pear tree which is at least forty years old, bearing annually, good crops. That of 1847 sold for thirty dollars. This variety is Rushmore's Bon Chretien, a native; late fall or early winter fruit, much cultivated on Long Island, for the market. Of Uvedale's St. cows, the first year they give milk, may be made, Germaine, or Pound, Black Pear of Worcester, with careful milking and good keeping, to give Catalac, Chelmsford and Vicar of Winkfield we milk almost any length of time deemed desirashould say with the late Robert Manning, that ble; but that if they are allowed to dry up early "the extensive cultivation of these sorts in large in fall, they will, if they have a calf at the same orchards, would produce greater and surer in-season, dry up at the same time each succeeding come for the capital employed, than any other year, and nothing but extra feed will prevent it, investment."

Double Duke was bred by J. M. Sherwood, The best varieties of pears for culture generalwho very properly prefaces the Sixth Annual Requality in Massachusetts; a variety may be called port of the Massachusetts Transactions with it. | first-rate in our country, and second-rate in Eu-A particular description of this breed of cat-rope, and vice versa. The Bartlett, called in Engtle is not deemed necessary here, as it is often land, William's Bon Chretien, is there secondrate; we, on the contrary, (taking into consideration its productiveness in almost all soils, as well as the quality of the fruit,) consider it one of the best for cultivation. The Beurre d'Aremberg is with them a first-rate winter fruit for culture; with us, (from its uncertainty in ripening, as well as bearing,) it has disappointed most cultivators in Massachusetts. I should infinitely prefer such fine winter eating pears as the Winter Nelis and Lawrence. J. M. I.

Salem, Mass., 1859.

MILKING YOUNG Cows.—It is said that young and that but for a short time.

WATER POISONED BY LEAD.

EDITORS OF THE FARMER:-Having noticed an inquiry in the Farmer, as to the probability of water becoming poisonous to stock by passing through lead pipe, I beg leave to offer the following remarks:-Lead, while it retains its metalliform, is not poisonous, but it may be readily converted into the various salts of lead, some of which are energetic poisons, especially the carbonate; it does not affect all animals alike, nor the same animal alike at all times, as in the case of painters, who all inhale the vapors from white lead, (carbonate;) but it does not affect them all alike, many of them no at all perceptibly, as it depends on the diathesis, or habit; and it is so with all animals.

Distilled water-air and carbonic acid being excluded—does not act on metallic lead; but admit them, and it readily corrodes the lead, and the carbonate is the result. Rain water, or any of the soft waters, are more apt to become poisonous than well water, or the so termed hard water. The quality called hard in water is derived from the presence of the earthy salts they hold in solution, most frequently the sulphate of lime, which impairs the formation of the carbonate of lead, or if it is formed converts it into the sulphate of lead, which is inert; as in cases of poisoning by lead, sulphuric acid is used as an antidote, rendering the lead inactive by converting it into the sulphate.

Mr. Braid states that the miners at the lead hills, Lanarkshire, never have the lead colic until they work in the smelting furnace, (the ore is

Therefore it seems to depend on the character of the water, whether it becomes poisonous by passing through lead pipe. Lead may, and doubt- hotels, handsome girls—and fat pigs. less does, (by being introduced in small quantities, but constantly, for a long time,) become the two pigs, the past winter, eight months old, which remote cause of serious and destructive diseases; it impairs the function of digestion, lessens the force of the circulation, constringes vessels as what he is about, and what "pays;" and knows absorbents, exhausts arteries, &c., lessening their that other folks besides "millers" have a right to caliber, and finally deranges all the functions of fat hogs. I suspect that it is all owing to his the body, and it becomes a system of rusty, im-being a regular subscriber to the Farmer. perfectly working machinery, producing morbid matter, instead of healthy blood, suitable to build tered a pig eight months and twenty days old, up and sustain the constantly wasting system on that weighed when dressed 376 lbs. These were the one hand, and in a measure ceasing to throw off the effete matter on the other. By change of diet, as being turned out to grass, a horse, for feather out of your cap and pass it over to old instance, may gradually recover his normal condition, or if gone too far, he is taken sick and dies, perhaps of congestion of bowels, typhoid fever, or something of that sort. These phenomena have a cause. Some of the worst forms cause. It may proceed from various causes, the wheat crop never looked so promising at this sea gradual introduction of lead into the system be-son, as it does now. The Rochester Union is ining one of them.

the thing sure, to call a veterinary surgeon, take tinue favorable.

his advice, act upon it, pay him, improve his stock, and my word for it, it will be a moneymaking operation all round.

OREN H. FLAGG, Veterinary Surgeon.

Boston, March 30, 1859.

For the New England Farmer.

THE FARMER'S GIRL.

The Farmer's girl leads a happy life As she trips o'er the grassy lawn; With an eye as oright and a step as light As that of the agile fawn.

The farmer's girl is a merry maid. With cheeks of a rosy hue; She sits on the stile, a sweet sunny smile Darts out from her eye so blue.

There's a magic in her winsome voice That "drives dull care away;" She can scrub and scour, or at evening hour, The sweet-toned harp can play:

She would grace the halls of a mansion high, Or the porch of a lowly cot; She will make the home of her chosen one, A most delightful spot.

Young men! choose a wife 'mong the farmer's girls, If happy in life you would be; They are gentle and kind, just to your mind, Sing! A Farmer's Girl for me. KATE. Hill Side, April.

For the New England Farmer.

PIGS AND GIRLS.

Mr. Editor:—In a recent Farmer, your corthe sulphuret,) and LIEBIG says the lead colic is respondent, "Rockingham," tells us of a fine pig unknown in the white lead manufactories in which the workmen use sulphuric acid.

nine months old which weighed 320 lbs. when the workmen use sulphuric acid.

A good pig that. But Old Cheshire gets up bigger pigs than that. I suppose you know that she is famous for her big oxen, good

> Mr. George Thacher, of this town, slaughtered weighed when dressed, one 377 lbs., the other 337 lbs. Mr. Thacher is a man who understands

> Mr. Russell, another of my neighbors, slaughfattened on corn meal, with a little rye at the last.

Now, Mr. Rockingham, please just take that

CHESHIRE.

Marlboro', N. H., March 28, 1859.

THE WHEAT CROP.—The Detroit Advertiser, of diseases we meet, we are told are caused by after conversing with parties in different sections a morbid habit of the body and this habit has a of the State, comes to the conclusion that the formed by old farmers of Western New York, In the case of your inquirer, in the absence of that the growing wheat is now forward, and is other probable causes of the bad condition of his looking remarkably well. It has suffered little stock, I should think his suspicions of the lead or none from the winter exposure. The Cincinwere likely true, and I would advise him to make nati Gazette says reports of the wheat crop con-

ELEVENTH LEGISLATIVE AGRICUL-TURAL MEETING.

(REPORTED BY JOHN C. MOORE, FOR THE N. E. FARMER.)

could have been desired-particularly when such agricultural educational institutions; the instian important question was under discussion, viz.: tution of such experiments in such culture as "The best means to be adopted for the improvement were simple in themselves, and within the means of the farming of New England." His Excel-off every farmer to follow; and above all, the lency, Gov. Banks, was present during part of careful training of young men to the profession the evening.

advantage of it. Much of the information, how- any other man. ever, we had in this country regarding farming be held out to them not to turn back.

Mr. B. V. French was of opinion that the teachings of the life of Amos Lawrence had been more pernicious than any one could describe, Owing to the House of Representatives having and was ready to endorse all that has been said occupied their Hall on the evening of Monday by the chairman. Taking advantage of the sugof last week, the usual agricultural meeting was gestion, which Mr. Quincy threw out at the close postponed until the evening of Wednesday, when of his brief remarks, that the discussion might it was held in the Green Room of the State include all the means and appliances of improved House—the Legislature being at the same time farming, Mr. French commended a more genin session. The attendance was not so large as eral attention to draining; the establishment of of agriculture on the basis of a love for it. He Hon. Josiah Quincy, Jr., occupied the chair. was glad to note that much progress had been He said, substantially, that the question was a made of late; and took occasion to pay a wellvery comprehensive one. Two points were ob- deserved compliment to the public spirit of Hon. vious-the necessity of giving the farmer infor- Josiah Quincy, Sen., who had done more to immation, and the necessity of getting him to take prove the science of farming in this region than

Mr. W. J. BUCKMINSTER was of opinon that if was copied or stolen from English works, written the young men who were wild after foreign specby men who were not really farmers, but gentle-|ulation could be advised to turn their energies men who made farming a recreation. Those who towards the cultivation of the soil, respectability, did work on the farms were a very different class comfort, health and usefulness would be more -laboring under great social disadvantages-|certain than in any other path they could follow. and little better in many respects than the slaves | He held that the system of town farmers' clubs, of the South. They had no interest in the soil, with fairs and exhibitions of agricultural impleor hope to have any. It was different here, where ments and produce, which would furnish attracthe farmer was the owner of the soil, and where tive features, would do much for the extension he had a consequent interest in it. Such a man of a love for farming, and to show the proof of could not believe in English farming instruction; its profitableness. He was not entirely in favor and the best way with him was to convince him of agricultural colleges; as practical instruction, that his profession was an honorable and a prof- with a modicum of book-learning intermingled, itable one. This would be one great means for would be much more beneficial, in his estimaimprovement; and farmers on principle would tion. One great cause of an aversion to farmbe the most valuable men we could have. A ing was the severity of the labor, and the genergood farmer could live on very small capital, and al irregularity of the working hours. By the inhis position would be found to be the most eligi-troduction of machine labor the hours of labor ble in the country. Young men had been taught might be much shortened, and time given for to look on the history of the late Amos Law-such recreation as a healthy mind could relish rence as a pattern of instruction and suggestion; and pursue; and, moreover, by breaking up the but few who knew the real history of the man, slavery and monotony of the farmer's life, young and of his trials, could fail to know that his life women would be induced to marry farmers, and was, though an honorable one, far from being a the business of farming be placed on a more happy one. It was a gross mistake to advance the pleasing and permanent basis. Some might smile doctrine that it was advisable for young men to at this talk about marriage; but those who knew leave farming, and its happy circumstances, and the facts would be ready to acknowledge that dive into the troubles of a business life; and the young women had little encouragement to bemore that could be done to prevent this folly, and come farmers' wives, on account of the hard and to convince young men in the country that the weary labor they would be bound to do in the farmer's position was the most peaceful, healthy, household and in the dairy. Whatever frighthonorable and covetable, the more would be ac-lened the women away from it was not well calcucomplished for the improvement of farming. lated to induce young men to attach themselves Many young men were literally putting their to it. Mr. B. concluded by recommending that, hands to the plow, and every inducement should after making the farmer's vocation attractive, it would be excellent policy to induce the young to

engage in its associate details at the earliest pos- prized, when it was known that weeks of bad sible age; and that every encouragement should weather followed each other in haying time. So be given to the improvement of agricultural ma- far as Mr. S. could estimate, \$2 per ton would chinery.

Mr. WETHERELL, in consideration that the lands in the State did not furnish half the quan- stance of the discussion was, that farming, to be tity of the produce they might be made to do, popular, ought to be shown to be profitable. thought that one of the best things to go about, would be to clicit by what means this could be uable conversational debate took place on the cured. Lands under cultivation were fast wear- subjects of draining, irrigation, soiling of cattle, ing out; and how they could be renovated was &c., &c., among the gentlemen present. the question paramount in interest to all others. Farmers ought not to be content with 10 to 15 sketch of the proceedings, was the last during bushels of grain, when they could, by improved the present legislative session. culture, produce, with no more labor, 40 to 60 bushels. Education was the best means to pro- held during the summer, at which the principa. duce this improvement; and that improvement agricultural questions will be lectured on and which was so desirable, would never be found discussed by competent parties, designated for effectual until some means were extant among us the duty. An idea prevails that May will be the for learning the art of approved modern farm-best time, and that the State House the best ing-some means which would, in their dispen-place, for holding the proposed meeting or consation, have some sympathy with the objects they vention. sought to attain, and which would thoroughly combine theory with practice. Mr. Wetherell have proved themselves unusually interesting, concluded by highly recommending the establish- and in some respects, very profitable. Doubtment of Farmers' Clubs in every town in the less some rather strange theories have been ad-State, and cited examples of their exceeding use- vanced, and some rather loose facts have been fulness, as it showed itself to his experience. He stated; but these were merely incidental, and in was thoroughly confirmed in the necessity and no material measure have militated against the importance of carrying out this.

Gov. Banks simply said that it was his opin- the meetings emphatically had. ion that the primary requisite was to show young men that it was good for them to become farmers, and that the vocation of a farmer was a highly honorable one, and equal or superior in status to any other profession. The great present ob- intelligent correspondent from Hollis, N. H., has jection to the business was the necessity for se-|found a specific remedy against the ravages of As a question of profit it was not equal to other by cultivators here but as yet they had no susprofessions, nor was the political status of farm- picions it would so readily be found, and least of ers what it ought to be; but change these disadvantages-and they could be changed-and both farmer's craft would be preferred to any other.

Mr. Sheldon, of Wilmington, said that farming had been very profitable to all who had tried the most important crop, and therefore an element in the general list of matters which had a with profit. It would not be a great cost to try to know it. it; and its importance could be in some measure

cover the expense of drying in this way.

The PRESIDENT held that the sum and sub-

Before the discussion commenced, a very val-

This meeting, of which the above furnishes a

It is probable that a series of meetings will be

Reviewing the past series of meetings, they stamina which the general information given at

For the New England Farmer.

THE ONION MAGGOT.

MR. EDITOR:-I am truly gratified that your vere labor, and the absence of social amusements. the onion maggot. This is what has been sought all in the fertilizer itself, many tons of which have been used on these onion fields.

If I rightly understand Mr. Emerson, this cuwould be enhanced to a covetable degree, and the rative against the ravages of the maggot, is to be found in the free application of pulverized guano, to the young plant, just after it starts into being. Now according to my observation, this maggot comes into being, and operates in this wise. The it in earnest. He had some idea that more at-little light colored fly which springs from the tention should be paid to hay, in curing, as it was maggot, hovers about the plant, and lays its eggs near the bulb, just where the top starts from the ground, and when these eggs warm into life, the insects busy themselves in the bulb, and serious bearing in the agricultural prosperity of make it their abode. I have seen a spoonful of the commonwealth. Whatever tended to pro- maggots squeezed from a single onion. Had not duce certain knowledge of a better system in cur- Mr. E. asserted the contrary, I should have had ing hay in foul weather would be found to be of no doubt, that the maggot itself might have been the utmost consequence. Men might laugh at the preserved in guano, as well as in pulverized earth or plaster. I have no belief, that its sensiidea; but if a similar system to that followed in bilities are so acute, as to be overpowered by the drying hops was introduced, it could be done guano. But if it is a specific remedy, I am glad

There are many cultivators in this town, who

would agree to pay a guarantee of \$25 an acre, definiteness, reminds us of the use of lime for the to have it made certain that the maggot can be apple tree. Mr. Pell, the successful grower of destroyed by the application of guano, after it has this fruit in New York State, recommends the began to operate upon the young plant. Many use of shell, (not stone,) lime, for this purpose; acres were omitted to be sown the last season, still many careless writers recommend simply through fear of this destroyer, and many more lime; the natural inference is, that they mean would be sown the present, were it not for this common stone lime. There is a difference in the apprehension. J. W. P.

South Danvers, 1859.

TIME OF PRUNING APPLE TREES.

We are always obliged to exercise considerable care that our columns shall not be too much occupied with discussions upon a single topic. The article lately presented by us upon the subject of pruning, has awakened considerable interest in the matter, and the importance of the subject demands it. We have received several letters from high authorities confirming our views, and two dissenting from them. One of the latter is from Mr. DANIEL LELAND, of East Hollistor, who says he has an experience in the subject dating back to 1805. He thinks the true time for pruning "is just before the opening of the buds," and his reasons are,

when pruned in the middle of June.

Secondly, The sap is saved, that is, taken up in the formation of the leaves."

We will not reiterate arguments to show that he is mistaken, but will merely remark in relation to his first reason, that he must be so, because his theory is contrary to the nature and habit of the tree; the sap flows freely in the spring, but fig tree of olden times. not at all, or very lightly, in June.

His second reason is, that we "save the sap that is taken up in the formation of the leaves." But we do not wish to save it; we often prune ty, made an attempt, last season, to produce a because there is an excess of limbs and leaves; they are in the way of each other, and prevent a free and healthy growth. But this is not always the case.

Pruning is scarcely necessary at all-unless in cases of accident-when proper care is taken of the young tree. It may all be done with a common pen-knife, if it is always done at the right time.

For the New England Farmer.

COAL ASHES AS A MANURE.

An article with the above heading appeared in the last Farmer, in which the writer, copying from an English work, on the benefit resulting from the use of this article in England, closes with the following. "As coal is employed for fuel in nearly every town, experiments on various soils and crops might be made by every farmer at a small expense." This writer, it would seem, is not aware, that the ashes used in England, comes from bituminous, and not anthracite coal. I ap-

article of lime; most stone lime contains magnesia, a substance which is considered deleterious to the soil, while shell lime is destitute of this. I have generally considered that nearly all the virtue there is in anthracite coal ashes in its application to land, is in the ashes combined with it, which comes from the bark, wood or charcoal used to ignite it.

REMARKS .- There is about two per cent. of potash in coal ashes. But its alkaline is not its only good quality. It has a mechanical effect, and perhaps has still other qualities to recommend it.

For the New England Farmer.

FRUITLESS TREES---MORE LIGHT WANTED.

What kinds of fertilizers are best for apple trees, to make them produce fruit? I have the "First, The wound will heal as well as it will Baldwin trees, and practice digging about them in the spring, and putting in stable manure, and air-slaked lime occasionally. They grow an abundance of wood, but very little fruit. Some of them have blossomed full, but it was all show, and no fruit. This is the case generally in this vicinity. So that people have come to consider the apple tree an encumberer of the ground, and almost ready to wish them the same fate, of a certain

What is best to put around pear trees, to make them bear fruit? I have put manure, lime, ashes and iron, about them; they grow the wood rapidly, but not the pear. One tree, a Flemish Beauspecimen of its kind; but before August was out, the whole concern burst up, and proved a failure. The Flemish Beauty has been a favorite pear with us, but of late years, it has taken to cracking badly, and has lost its reputation. This cracking takes place long before the pear matures. Can this be prevented? Will you or any of your numerous readers, give the desired information upon these matters? A. Philbrook.

East Saugus, March, 1859.

Remarks.—These questions, and a hundred others put to us, show how much we need a more intimate knowledge of the business in which we are engaged; and we feel that want, impressively, quite often, when called upon to reply to them.

Why is it, that apple and pear trees that are well cared for fail to produce fruit, in one location, while others near by bear abundantly? Who can tell? Who can penetrate the mysteries of this single point, or fathom a thousand others that meet us at every step? We may prehend there may be found a great difference in now and then stumble upon some fact of importhe fertilizing properties of these. This want of tance to our Art, but must depend upon persisin it.

There are so many things to be considered that we doubt whether we can be of any service to our correspondent. His trees make wood rapidly, but will not produce fruit. Is the land too rich? Would laying it to grass and taking two or three crops from it bring the desired result? Or cropping it one year with wheat or oats? And remedy of the blight you speak of. so of the pear trees, who can tell us where the trouble lies?

that is cutting off a portion of the roots, will bring the pear trees to bearing. The process is to is large, ripens easily, never mildews, and is fit scrape away the earth, and with a sharp tool cut off one or two of the leading roots.

EXTRACTS AND REPLIES.

PREMIUMS ON FOREST TREES.

I see by some of the papers that the Massachusetts Agricultural Society have offered a premium of \$1000 for a plantation of white oak Are we to infer from this that all our other kinds of oak are not valuable? It occurred to me that it might be as well to test the growing qualities of all our common kinds. If I lived in Massachusetts, I would enter the lists for the premium. B. F. CUTTER.

Pelham, N. H., 1859.

REMARKS .- If friend CUTTER will look at the Farmer earefully, he will see that, with their usual liberal encouragement to agriculture, the Massachusetts Society has offered a premium of \$1000 "for the best plantation of trees of any kind commonly used for, and adapted to, shipbuilding, grown from seed planted for the purpose." But there must be one white oak at least to every twenty square yards.

HAY CAPS.

Which is the best kind of cotton for hay caps, the light or heavy; and what kind of a preparation can be applied to them to prevent grasshoppers from eating them, and make them waterproof? Addison County, Vermont.

March, 1859.

REMARKS .- Such cotton cloth as may be purchased for nine cents a yard will make excellent water-proof hay-caps, without any preparation of oil or paint of any kind. Caps made of such cloth, and properly placed on the cock, will keep it dry during a storm of three days. If you cut a ton and a half of hay to the acre, we do not think the grasshoppers will eat your caps!

GRAPES-PLANTS IN ROOMS.

Last year my Isabella grape vine, (when the grapes were about the size of peas,) blighted tion of the mercurial ointment will accomplish it.

tent, scientific investigation, for most of the badly. The leaves and fruit withered and fell knowledge that will enable us to make progress off from a portion of the vine, while a part remained thrifty and fruit ripened finely. Will you tell me the cause and remedy?

What is the best grape to raise for family use what about the Hartford and Concord?

Is it well to have plants in sleeping-rooms, and rooms of the sick? OLD SUBSCRIBER.

Taunton, 1859.

Remarks.—We cannot tell you the cause or

The Concord is a large, dark purple grape, earlier than the Isabella, and hardy and prolific. Some of the wise ones say that root pruning, Ripens in September. The Hartford we have not cultivated, but it is represented to be prolific, to eat early in September. We cannot say which is the best grape for family use.

> A few plants in any well-ventilated room are healthy both for body and mind.

BLIND STAGGERS-SHADE TREES-CORN-PUMPKINS.

What is the surest and least barbarous cure for "blind staggers" in horses?

What season is most preferable for transplanting shade trees, especially evergreens?

Will King Philip or Brown corn do well on the northerly intervales of the Connecticut? What is the average product, per acre, and where, and at what cost can it be procured?

What is the best variety of pumpkins? Mine have all run to vines. Farmer.

Vermont, March 21, 1859.

Remarks.—To cure blind staggers in horses, you must always feed well and treat kindly, and be especially careful that the horse shall not be overloaded, made to pull hard suddenly, and not driven rapidly when first taken from feeding. Then administer to him three drops of the tincture of stramonium, every third day for nine days, immediately after a fit.

Plant shade trees the last of April or first of

King Philip corn will do well on the lands you speak of, if you manure in the hill with some fertilizer that will give it an early start. Sixty bushels to the acre is a good crop-we do not know what the average is. Sold at the seed stores for about \$2 a bushel. We cannot shed any light on the pumpkin question.

TICKS ON SHEEP.

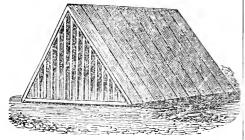
Is there anything that can be fed to sheep that will kill the ticks on them? C. N. Andrews. Chelsea, 1t., 1859.

Remarks.—Give each sheep a tea spoonful of BLIGHT IN GRAPES-HARTFORD AND CONCORD sulphur in some corn meal, every other day, three or four times.

If this does not kill them, a careful applica-

A CONVENIENT CHICKEN COOP.

Almost every body now-a-days raises poultry -not so much, perhaps, for the profit which it onions were either dead or wilting. On experiaffords, as for the pleasant associations connectmenting, I found the magget was the cause. I ed with it, their cheerful morning notes, and the with the hand so as to nearly cover the little onhappy influences which they have upon children, ion, or the ground over them. 1 saw nothing But where profit can be added to other induce- more of the effect of the maggot, and the onions ments, the pleasure of course is enhanced. This did finely. depends, like almost every thing else, upon the manner in which it is done. If a few fowls are the maggot, notwithstanding your correspondent, kept, and kept well, provided with all the conveniences needed, there will be a profit. One of be good and put on with a liberal hand. the important items is to provide a comfortable, airy place for the hen and her young family, and that may be found in a coop which this engrav-



ing illustrates. It may be made in a cheap manner, will shed the rain readily, and when open at the ends admits the air freely through it, and a piece of board turned up at the ends at night, excludes all intruders.

Other forms may be used, perhaps as good, but this is a convenient and cheap one. In dry weather it is best to let these coops stand on the ground, but when it is wet, they should be lifted upon boards. Two feet long, or three is better, and falling into the corn growing around them. about twenty-two inches high in the centre, is a good form. Some persons board up the backend, leaving a hole for air at the peak. In windy weather, the back end should be closed.

FARMERS' MARKET FAIR .- The farmers of Hampden county will hold a fair at the Hamp- vided, when he gets his forces together, he will den Park, in Springfield, on the 13th of April, let school-houses alone. for the sale, exchange and exhibition of horses, cattle, sheep, swine, poultry, implements and farm produce, either in bulk or by sample.

We think such a fair in the centre of that a dry limb as any other bird known. county might be useful to all concerned, and hope it will receive attention.

purchased a lot of land, 40 by 160 rods, who "has had taken slate and pencil, and were trying to so managed it as to realize a net income of at all as busy as they well could be, when tap, tap, least \$1000 a year on this farm." Will he tell us whir-r-r-r-r, went somebody or something on briefly how he did it?

THE ONION MAGGOT.

Two years ago I noticed that one-third of my

Last year I tried the same again, with the same result. I think good guano is a cure for "J. W. P.," says there is none. The guano must

Hollis, March, 1859. Ed. Emerson.

BOYS' DEPARTMENT.

BATTLE BETWEEN THE BOYS AND THE BIRDS.

In one of the interior counties of Illinois, there stands an old school-house, deserted, dilapidated, and pierced on every side with numerous holes -giving sure signs that, in days past and gone, there has been a hard-fought battle of some kind. But who could have selected a school-house for a fortress; or what enemy could have fired so many shots into it in such a peaceful, quiet neighborhood, without being brought before the proper authorities and punished to the full extent of the law? This is the mystery which has fallen to my lot to unravel.

The school-house stands on a ridge of land, surrounded on every side with shade trees, while a few rods in front, runs a small creek, making a most beautiful play-ground for the school. Still farther on is a large field, once covered with thrifty forest trees, but the farmer who owns the field has girdled them all, and now they stretch out their long, skeleton arms, waving, cracking, and breaking with every wind that blows, and

These old decaying forests afford homes for large colonies of woodpeckers, who, by habit or instinct, like to burrow in old trees.

Now the woodpecker is decidedly the most military in appearance of any bird flying, and has not only a natural right to be proud of his rich, military dress and splendid appearance, but to drum on these old trees any spring morning, pro-

Dressed up in a neat little red cap that covers his head and neck, a shining black coat, with white lappel, with a white waistcoat and black pants, he can make as splendid an appearance on

It was a bright, beautiful morning in the year 1856 when the children were assembled at the old school-house, to learn to put four letters together in such a way as to make baker, to get A GOOD PERMANENT HOME, AND \$40,000! their young ideas started in the way to shoot -A writer in another column, on the soiling of straight. The classes had nearly been through cattle, says he knows a man who forty years ago with their morning lesson, the older boys and girls the outside of the school-house. "Boys, be still,

drumming on the school-house !" angrily snapped made their attacks for that purpose. out the teacher. The boys clapped their hands sults were, the school was broken up, the house to their mouths, the little girls smiled and hung nearly ruined, and the birds, for once in their down their heads, and quiet was hardly restored, lives, came off victorious from the attacks of when tap, tap, tap, whir-r-r-rrrr went on one side their common enemy—the school-boys.—Merry's and then on the other side of the house, and it Museum. really seemed as if an invading army had made a general attack on the house.

"Really this is too bad," shouted the enraged teacher; "if I can find out who is making this disturbance I will punish him severely."

"Please, then, 'taint nobody but the birds," said a bold little fellow who sat by the window,

and knew all about it.

what business the birds have to come here, and disturb us in this manner?"

half dozen of the red-capped rascals flew from saleratus, and one egg. It is not necessary to the house, proving that the little fellow was right, observe this rule exactly. Use more eggs, if you The woodpeckers had actually made an attack on choose. The cakes may be made very good with-the school-house. "Well, well," said the teacher, out any. "if the birds dont't let us alone, we must punish

them, if we can catch them."

Half an hour passed quietly away, and all were so busy with their lessons, that the birds were nearly forgotten, when a general attack was again made by the birds. This could not be tolerated, and three or four of the older boys were sent out, the milk, or a spoonful of rose-water, are recomthe rascals were too nimble for them. Before the boys could pick up a stick or a stone to throw at their heads at the boys, as much as saying -"Catch a woodpecker asleep, if you can."

Such was the disposition of the birds that it was necessary to keep a watch during school hours to guard the house from their attacks. When school was out for the day, they made a general attack upon it. Affairs continued in this way for some three weeks, when their attacks became so furious that the teacher was forced to dismiss school, and let them have their own way. In a short time the birds had billed some one hundred and fifty holes in the outside covering of the house, and it was nearly ruined. The cause of the attack was easily explained, from the nature and habits of the birds themselves.

The woodpecker, or sap-sucker, as it is sometimes called, is a bird which lives upon the grubs and worms which breed in old and decayed trees milk, take off the lid the latter part of the time. and wood. For this purpose he is armed with a long, sharp bill, which he drives into the wood where the wood-worm burrows; and then he uses another weapon, which is a long, sharp line the bottom and sides of the dish, fill it with tongue, with a barb on the end of it. When he reaches the insect, he thrusts his spear through sugar enough to sweeten it, and any spice you his living.

To enable him to discover his prey, his hearing is so extremely acute that, by hopping up a dethe worm at work in the tree, bores into it, and moderate heat three hours.

pulls him out.

The school-house in question was covered with a kind of half-decayed lumber, taken from the of sugar, three ounces of butter, one egg, one forest at a time favorable to the attacks of these cup of milk, one teaspoonful of saleratus. insects. The birds were the first to discover them half an inch thick and bake them quick .their existence in the house, and consequently Happy Home.

The re-

LADIES' DEPARTMENT.

DOMESTIC RECEIPTS.

SQUASH CAKES .- Squash left at dinner may be made into griddle-cakes in the following man-"The birds! the birds!" said the teacher, as ner: To one tea-cup full of winter squash, put ne walked to the door; "I would like to know two tea-cups of milk. Stir in flour enough to make a batter of the right thickness for griddlecakes, and if you like it, a spoonful of Indian As he reached the outside of the house, some meal. Add a little salt, half a teaspoonful of

> Custards without Eggs.—Boil a quart of milk, except a tea-cup full in which to put four tablespoonsful of flour. When it boils, put in a very little salt, and stir in the flour just as for starch. Add two tablespoonsful of sugar, and mended.

LOAF PUDDINGS .- Tie up a pound-loaf of bathem, they would be off and up on a dry limb, ker's bread in a cloth, and put it into boiling peeping out from behind it, winking and shaking water with considerable salt in it, and boil it an hour and a half. Eat with cold sauce.

> CRUMB CAKES.—Keep a bowl or pitcher with some milk in it, and from time to time throw in the crumbs of bread which break off when it is sliced, and also the dry pieces left at the table. When you next want griddle-cakes, take this mixture and break up all the pieces with your hand, add an egg, salt and saleratus, and a few spoonsful of flour. No griddle-cakes can be bet-

> BOILED BROWN BREAD .- If they are hard crusts, lay them over night in a dish with a little water. In the morning add milk, and boil them. Do it very slowly, and take care that it does not burn. Sprinkle in salt, and just before you take it up, add a little butter. If there is not much Take up the pieces as whole as you can.

A CHARLOTTE.—Butter a deep dish very thick, cut thin, smooth slices of nice white bread, and sliced apples, sprinkling each layer with brown him, pulls him out, and in this way works for may prefer; also a few bits of butter. Have ready some slices of bread to cover the top, soaked a few minutes in milk or water; lay them ing is so extremely acute that, by hopping up a decayed tree, and laying his ear against it, he hears close, and upon that lay a weight. Bake in a

TEA CAKES .- One pound of flour, one pound



OTED TO AGRICULTURE AND ITS KINDRED

BOSTON, JUNE, 1859.

NO. 6.

JOEL NOURSE, PROPRIETOR, OFFICE ... 34 MERCHANTS ROW.

SIMON BROWN, EDITOR.

SOCIATE HENRY F. FRENCH, | EDITORS.

CALENDAR FOR JUNE.

"For, lo, the winter is past, the rain is over and gone;

birds is come, and the voice of the turtle is heard in our land."



UNE, in

them to us, and regale our sens-

showers. June is not perfection, it is only the who, when his attention was directed to the Falls month of progress—the flush and promise of ro- of Niagara, merely said, - "Why shouldn't it fall bust youth. A little later in the season will -what hinders it?" But hear the exclamation bring maturity in some plants, and that comes of one who had endured a six months' winter in so near the next step in Nature's course, decay, an Arctic region. "To-day, blessed be the great as to break the charm. But June suggests no Author of light, I have once more looked upon decay--it is all promise-and arouses in any the sun." feeling heart, something of that benevolence and love which beams from its great Architect, and erald jewel, with which the year adorns herself, kindles and glorifies all.

is manifest from his writings, and we can imag- after May-and never give it another thought. ine some of the sights and sounds which would But no, it is not the same June, and you may see greet him as he walked out nearly three thous- in it wonders you never discovered before, if you

There was the fig-tree covered with young blindfold.

fruit, the odor of the budding grape vine, the song of the lark and the cooing of the turtle-dove, "The flowers appear on the earth; the time of the singing of (not the veritable muld-turtle, as we thought in our juvenile ignorance,) the murmuring of the the brook Kidron, no longer rushing in a torrent months, is like over its rocky bed, but flowing gently, as was its our early man- wont in summer-and the olive-trees on Mount hood in life, Olivet clad in fresh green. Later in the season, crowded with full- he watched for the "Rose of Sharon" and the ness and strength, "lily of the valley." Ninety generations of men and flushed with have since passed away, and yet such is the uniactivity and joy. formity with which nature does her work, that The birds mate we, of a world then unthought of, can find no and sing, insects words more appropriate than those of Solomon flutter from leaf to express our joy when "the flowers appear on to leaf, or sport in the the earth, and the time of the singing of birds is warm evening rays; - come." And until the internal fires of our planflowers exhale their fra- et shall burst their shell, we are told "seed-time grant odors, and gentle airs waft and harvest, summer and winter, shall not cease."

Yet, from this very harmony of nature, so wones as though from Hesperian derful when we think of it, we are apt to underfields. The plants stretch away from value many of our blessings as commonplace. the ground and bathe in the sun- The sun rises and scatters the vapors away, bringlight, spreading their leaves, like so ing life and joy to the animal and vegetable world, many hands, to catch the condensing yet, were it mentioned as a subject of gratitude, vapors, or absorb the softly-falling many of us would reply in the spirit of the man,

And this month of June—this gem—this emhow many merely regard it as the same old June That Solomon was a close observer of nature, they have always known, the month that comes and years ago, in the country about Jerusalem. | will not insist on walking through the world

"And what is so rare as a day in June? Then, if ever, come perfect days."

by Lowell—

"Whether we look or whether we listen, We hear life murmur or see it glisten; Every clod feels a stir of might An instinct within it that reaches and towers. And, grasping blirdly above it for light, Climbs to a soul in grass and flowers."

Of course, our poet is using language figura- edge his presence with a note of welcome. tively, and does not mean to assert any heresies not only men and women, but brutes, vegetables, nay, even the most inanimate things, as stocks and stones."

"Americans" meant North American Indians, and is not intended as a libel on the inhabitants of the United States. We presume our aboriginal predecessors did not found their belief upon any process of reasoning, but upon the sort of instinctive sympathy we have with plants and animals. The violet seems to you to have a gentle soul, which only expresses itself in a faint perfume, and should you crush it with your foot, you would feel like some cruel tyrant, who has immolated an unoffending victim. The tulip has a regal soul, which you would not insult by any indignity-but you see a gross weed among your corn, and you pull it up and fling it away, saying, "What business had it among my corn?" With animals the sympathy is still greater, and it is a difficult thing to draw the line between instinct and reason. It is well known that many animals evince what we should call a process of reasoning were it exhibited in man, and the more closely we watch them, the more wonderful it seems. Every one who owns a dog can tell anecdotes which will illustrate this, and if he does not actually believe that

> "When translated to that upper sky, His faithful dog shall bear him company,"

he half wishes the paradise of dogs were not a myth!

While we would not be supposed to advocate "the transmigration of souls," or any of its kindred doctrines, we do not believe that animals have credit for half the intelligence they really possess-and yet, they tell us, that man himself is only an oyster in a higher stage of development! (See Vestiges of Creation.)

Because a man is dumb, we do not suppose him to be destitute of ideas, and an animal, although he cannot tell us what he is thinking about, may have a language of his own, which

we are too ignorant to understand. We know that our domestic animals appreciate kindness, And a few lines farther on in this beautiful poem and are capable of affection for us, and for each other. A gentleman tells us that the robins in his garden are acquainted with him. That when a marauding cat steals in among them, and he hears their cries of distress, he steps out from his study, and they, knowing that a friend has come, immediately cease their cries, and acknowl-

It is curious to note with what simplicity the concer ing the xistence of mind; but men have little child reads stories of animals. It does not actually held the doctrine which the above lines surprise him at all, to be told that the wolf held contain, if taken literally. For example—"The along conversation with Little Red Riding Hood, Americans believe that all creatures have souls, before he went and eather grandmother; and that

"The frog he would a wooing go,"

appears to him the most natural thing in the We should premise that this was written when world, though it may seem rather naughty that he should do so,

"Whether his mother would let him or no."

The child has faith; he believes in the angels that guard his bed while he sleeps, and that the insect carries in its own little bosom its private griefs and joys. We grown-up people shall be wiser and better in many respects, when we "become like little children."

There is not an insect so small, as to be beneath our notice. "Go to the ant, thou sluggard, consider her ways, and be wise."

There is the great brown caterpillar which you will find on your fruit-trees and rose-bushes about this time, (if you were not wise enough to exterminate him a month ago;) he is an uglvlooking creature enough, and a delicate lady would as soon encounter a bear or a lion-he is a nuisance to you, too, and you do not see what end he answers in creation. Well, we do not see either, and will only suppose he answers some but even he is an object of interest to those who take pains to observe him closely. It is not merely that he will come out of that rough case one of these days, and will fan your cheek with his butterfly wing, but he lives in the midst of an organized community; perhaps he makes stump speeches to his fellow-citizens; he, too, has his three meals a day, and walks out for exercise, and finally, when his time has come, he seeks some secluded spot, weaves his own shroud, and appears no more in the form he first wore.

"And there's never a leaf or a blade too mean To be some happy creature's palace; The little bird sits at his door in the sun, Atilt like a blossom among the leaves, And lets his illumined being o'errun With the deluge of summer it receives; His mate teels the eggs beneath her wings, And the heart in her dumb breast flutters and sings; He sings to the wide world, and she to her nest,-In the nice ear of Nature which song is the best?"

For the New England Patmer.

THE FARMER'S POSITION.

For many years the earth has yielded a rich reward to the faithful tillers of the soil in New England. The systematic, enterprising farmers in almost every community are showing evident signs of prosperity, particularly, those who are expending their income upon their farms and buildings, bringing around them many conveniences, enjoyments and comforts of life, which add not only to their wealth, but to their refinement and good taste.

There have been great improvements in our agricultural position during the last twenty years, and while we would acknowledge the press as the greatest instrumentality in awakening an interest in our farming communities, would be grateful for their untiring efforts to make their

periodicals so valuable.

The science of agriculture has been spread before the people in a form, cheap, practical and useful, and the great body of farmers have become readers, thinkers, experimenters, and are still inquiring for more practical knowledge in

the art of good farming.

What has been gained by all this? New fertilizers have been found out and applied to the soil; old, worn-out farms have been reclaimed; old buildings have been transformed, and located with taste and convenience, or new ones built. Fruit trees have been planted and nursed, and many are yearly gathering their first fruits as their reward of well directed toil.

How beautiful to look out upon our fields that our own hands have helped to subdue and enrich, scythe and the grain for the sickle, and the corn and the after harvest making haste to fill the granary and cellar. These are heaven's gifts, the legitimate reward of toil, the indispensable die.

Who can but envy the good farmer as they look upon his possessions, his well-arranged farm-houses and out-buildings, his lots, good fences, gardens and margin of flowers, his fruityard and orchard, all witnesses of his prosperity and his pride in his profession. And then, how permanent is his income, and Providence his surety for seed-time and harvest.

If the agriculturist prospers, it gives energy to trade and commerce. The vitality of every department of business centres here, cities extend their borders, manufacturing villages spring up along our streams and rivers, and our instituother avocation compares with rural life?

In the commercial world, how numerous are the contingencies, what uncertainty enters into

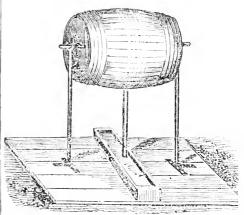
morrow poor, making others wretched.

Professional life is honorable if honorably pursued. Men rise to eminence and usefulness, and tingencies enter necessarily into the peaceful life were not tapped, is 10,883.

of the agriculturist; but he should be learned in his profession, and when this is the case, how vast the field for study; it is no less than "the earth and the fullness thereof." Berkshire.

April 8, 1859.

A BARREL FOUNTAIN.



Fowls will drink impure water, undoubtedly, when thirsty, but if they could always select, there is little question but they would prefer to visit a stream of pure water, or drink from a fountain of clear, cool water.

The above cut shows how easily any person rearing poultry, may prepare a fountain which smiling luxuriantly, the grass ready for the will answer a good purpose, at the most trifling cost. All that it needs is to mount a keg on a couple of upright stakes driven into the ground. and extend a small tube from the cask to a shalproducts of the soil, which all men must have or low trough or pan, and allow the water to driv slowly from the cask into it.

THE GREAT FRENCH HENERY.

Some months ago we published an account of a stupendous experiment in rearing fowls in the city of Paris. The account was written with so much apparent accuracy of detail, and bearing so much the semblance of truth, that, although so much out of the common course of things, we published it, though we must confess, not until it had remained on our table many weeks. SAMtions gain strength as the soil becomes rich, and the tillers prosperous. Then for safety, happi- a mutual friend in Paris, Mr. Fleischman, in reness, prosperity, intelligence, usefulness, what lation to the matter, who replies that the whole affair belongs to that class of bugs which we call hum-a humbug! Will the editor of L'Agriculevery enterprise. Perhaps to-day rich, and to- teur Practicien, Paris, France, be kind enough to give us the facts?

The town of Nelson, N. H., containing a are indispensable to carry on the machinery of population of about 650, has made fourteen and a society and government; but the comparative half tons of maple sugar the present season. The number that are useful to any great extent is number of trees tapped was 10,859; the number small, and the risk is great. None of these con- of trees in the town suitable for tapping, which

For the New England Farmer. FRUIT TREES.

Mr. Editor:—Nothing in the Farmer, for ears, has been to me more instructive, and in eneral, more sensible, than the remarks from your own pen of Feb. 26, on pruning fruit trees. First, because in your reasonings you start, not with experience, which is ever more doubtful, but with first principles; and secondly, because your remarks come in exactly the right time and season, so that they are like what some writer has defined wit to be, viz.: a good thing well applied. Particularly am I pleased to find you beginning at the beginning, that is, with first prin wander. This is true of most things, as well as with agricultural and horticultural matters.

However, believing as I do, in starting right. and desirous that there should be no flaw in your reasoning, especially at the outset; and above all, as your argument is strong enough without the aid of analogies which are not according to pondent that in cutting off a branch of a tree in convert it into the nutriment of plants. This is the spring, we do not save the sap for what reblood to strengthen the rest of his body by cutmains, any more than one would save a man's swer a good purpose when employed without a fact, which is both in accordance with fact and experience, but also with the first with fact and physiology. Some of the best anthorities might be quoted on this subject. Feeble constitutions are often greatly improved by amputations, and it is according to nature that they should be.

Truly yours, W. A. A.

For the New England Farmer.

VALUE OF MUCK.

Explanations—Errors sometimes Useful—Evidence of Drs. Emmons and Dana, in regard to value of Muck—35 acres of Mowing keeps 40 Cows.

Mr. Brown:—I regretted the typographical errors in my notice of the climate and soil in Orleans county, Vt., and forwarded the corrections, addition to this, it is a valuable manure, if propwhich you promptly gave. The corrections had not been seen, I presume, by your correspondent fall far short of the poorer kinds of coal." at Brookfield, Vt., before writing his article, in which he represents me as making statements analysis of both peat and cow-dung. He found 'so wide of the truth." I merely gave the estimate of my friend, who is one of our most relia- He says, "The salts and geine of a cord of peat ble men in the county. I have no doubt that the are equal to the manure of one cow for three stock mentioned by him was fully equal to forty ordinary cows. Let me assure your correspondent, that he will find nothing in the article alluded to by him, which "is wide of the truth," except substance under our feet is analyzed and found what is made so by typographical errors.*

I shall not, however, seriously regret those, as ticle and that of your correspondent shall call attention to the immense value of the "muck" of "W." and others, I will give a few extracts experiments reported to Dr. Dana, by Hon. Wm.

mons, one of the geological surveyors of New York, in his report on the third district, 1839, after describing several peat bogs, speaks of one in Warren county: - "It occupies about 60 acres; is upwards of 60 feet deep; is of an excellent quality and of easy access. The value of a marsh of peat may be estimated by determining the worth of a cubic yard or load, or any given quantity, and calculating the amount of peat which is contained in the area. The quantity of peat in a square rod of surface, and worked to the depth of 30 feet, would furnish 284 loads, which may be considered as worth 50 cents per load. Or, if we estimate it as worth only half so much, we perceive that 50 or 60 acres of it is almost invaluaciples, and considering what is called experience ble, when favorably situated. Even a small bog valuable as that is in its place—must forever in the centre of a farm might be employed to increase its value one-half. There are four pur-

poses to which peat may be applied.
"First, as a manure. It should be raised in the fall, spread in the barn-yard, or placed in heaps and mixed with animal matter and lime. Placed under these circumstances, it is exposed to the frost and atmospheric agents, which produce incipient chemical changes, necessary to especially the case when lime is added to it, which forms a soluble salt, the geate of lime, with a

tion of peat or muck--let it receive the urine of cattle in a barn cellar, or the night soil and wash of a house, or combine ashes, instead of lime, say two bushels to a common cart-load, and it is well prepared for use. Ten or twelve cords may be made thus by any common family, yearly, near the dwelling-house.

After stating the importance of peat for fuel and for producing gas-light, he adds:-"Perhaps it would be saying too much to assert that peat is more valuable than coal; but when we consider that for creating heat, it is not very inferior to bituminous coal, that it contains a gaseous matter equal in illuminating power to oil or coal gas, that its production is equally cheap, and in erly prepared, its real or intrinsic worth cannot

Dr. Dana, in his Muck Manual, has given the more soluble geine in peat than in cow dung. months." "Departing from cow-dung and wandering through all the varieties of animal and vegetable manures, we land in a peat bog. to be cow-dung, without its musky breath of cow odor, or the power of generating ammonia." they were promptly corrected by you, if my ar- "Peat approaches dung moistened with the liquid evacuations of the animal."

If we moisten peat with the liquid evacuations or peat beds of Vermont. For the information of the animal, its value is greatly increased. In from the remarks of reliable writers. Mr. Em- Clark, Jr., of Northampton after giving the process of manuring corn land with several kinds of |manure, he says:-

"The land was treated alike in all respects, except the different kinds of manure; all of which

^{*} The estimate made of the stock wintered by me, as alluded to by Mr. Hall, in a late article on the climate and soil of Orleans county, Vt., I regard as fully correct.

Coventry, Ft., Jan., 1859.

J. B. WHEELOCK.

was spread on the turned furrow and harrowed in before planting. The corn where the wood ashes and muck were spread, early took precedence of all the other parcels, and continued apparently much the best through the season. This manure was prepared by mixing eight bushels of ashes with two estimated tons of muck."

Within the limits of the calcareous mica slate regions of Vermont, which with the limestone regions on Lake Champlain, &c., constitute much more than half of the area of the state, are immense deposits, or rather formations, of sphagnous muck. In many instances the beds of what were once large ponds, are now filled with muck served it, only one-half the field was giving signs to a great depth. Many existing ponds are contracted to one-fourth, and some to one-tenth of heautiful appearance which always characterizes their former area, and will eventually entirely heen treated alike that season, but the year predisappear. When the peat or muck lies over shell marl, as is the fact in many locations, it is Such marl may be readily converted to caustic buckwheat, no buckwheat having been sown on lime by placing it over a pile of logs or wood, the other part. The difference between the two and they be a such that the other part. more valuable for manure than in other cases. and then burning the pile. It is equally valuable for manure, when burnt thus, as if burnt in a kiln. The ponds made anciently by beavers, and now called beaver meadows, (not barren, as your types made me say,) very often contains both marl and muck. These are very numerous, and furnish an adequate supply to a large number of farms. I will furnish you with some experiments, made by myself and others, as soon as I may Yours, &c., find it convenient.

Brownington, Vt., 1859. S. R. HALL.

Mr. Brown: - Allow me to enclose a copy of a line received from my friend Wheelock, since writing the letter enclosing this.

Yours, &c., S. R. H.

REV. S. R. Hall:—Since forwarding a hasty line to you to-day, and having read the article by "W.," in the last Farmer, calling in question the accuracy of your statement, it has seemed to me that you might like to receive an account of the stock I am wintering at the present time. I do not now mow more ground than when I made the statement to you some years ago-not over thirty-five acres. If any one doubts whether I am wintering stock equal to forty ordinary cows. let him come and see it. I have now-

> I yoke of 7 foot Oxen. 10 Cows

8 Yearlings. 8 Calves.

3 Horses (large

3 Colts, 1, 2 and 3 years old. 47 Sheep of the large breed.

in proportion to the amount of land he mows the world, can be said to rank with him, in that over, than I do. My grain, &c., is about the particular branch of science, to which his life was same as formerly. Yours, &c.

Josiah B. Wheelock.

Coventry, Vt., Jan. 31, 1859.

would be a little more careful in his chirography is, however, an idea prevalent that this country he would have to regret less errors. For instance, if we should select his words "with," "barren," and some others, and place them without any connection with others, we think it would They are raised from seed, flourish for an uncerpuzzle him to tell what they are.

For the New England Farmer,

BUCKWHEAT AND WIRE WORMS.

Mr. Editor :- I have long had it in contemplation to communicate to you what I observed in a gentleman's corn-field, last season, in the fore part of July. It was four acres of Indian corn, two acres growing and two acres trying to grow, upon a piece of land, all of which, until that year, had always, as the owner expressed it, been so infested with wire worms as to render the growing of Indian corn, or other crops, "a very steep up-hill business." But when I obof the worms, while the other half presented that a luxuriant corn-field. All parts of the field had vious, the part of the field presenting a healthy appearance, had produced an abundant crop of portions of the field was very marked-the crop on that part where no buckwheat had been raised being past all hope of recovery.

Now I thought the above facts of sufficient importance to excuse me for a self-introduction to you, in my first newspaper article, knowing, as I do, your anxiety to give any information, however remotely benefiting the farming interest.

If the farmer can be exterminating so destructive an enemy to his thrift as the wire worm, and at the same time, and on the same soil, be producing a profitable crop, he surely ought to know it, and know how to do it. I do not know as the buckwheat had anything to do with driving off or starving out the worms, but it certainly looks like it. At any rate, I have given facts as I have seen them, and farmers can form their own opinions; they will lose nothing, if they have a nest of wire worms which they would like to break up, by applying the buckwheat theory.

Leyden, March 5, 1859. DAVID MOWRY.

For the New England Farmer.

FRUIT TREES ... LIMITED DURATION.

The celebrated Thomas Andrew Knight, of the London Horticultural Society, one of the most scientific cultivators in Europe, whose attention was directed to the unhealthy condition of the old varities of fruits, particularly the apple, came to the conclusion that we could no longer raise healthy tree, and good fruit from the old sorts. Professor Lindley, although differing from President Knight's theory, says, "However much we One of my neighbors, I think, keeps more stock, may differ from him, no man living now before devoted." Thiking that the opinion of the practical Octogenary Rodgers, on this theory, would be interesting to your readers, I have ventured to transcribe it. He says, "The Golden Pippin is REMARKS .- If our intelligent correspondent one of the most esteemed and hardy fruits. There was about to lose this fine fruit forever. In Mr. Knight's Treatise on Orchard Fruit, the doctrine was first broached, that all our varieties and subvarities of fruits, have but a temporary existence. tain number of years, and after arriving at their

maximum of health and fertility, gradually sink to decay, and at length disappear. Taking this idea as a rule, the Golden Pippin was judged to be in this last stage of existence; and it was predicted, that not only were the old full-grown trees to disappear, but all the young ones worked

from them would perish also.

stocks, and planting them in old worn-out soils, like corn and potatoes, but it affords a higher instead of in fresh, well trenched, loamy soil; gratification which money cannot buy. Some perthis latter opinion was the more feasible, because sons seem to have the impression that the body, arrived at the following conclusion, viz.:

ripened." J. M. I.

Salem, Mass., 1859.

For the New England Farmer.

HUNGARIAN GRASS.

on rather light, dry ground in low condition. I every day, are thus spent in out-of-door employ-waited till midsummer, and not being able to see ment." a single plant of the grass, I raked it over, and experiment will do. RUFUS MCINTIRE.

Parsonfield, Maine, 1859.

For the New England Farmer.

FLOWER GARDENING.

BY ALBERT STACY.

[Read before the Concord Farmers' Club, March 30th, 1859.]

The cultivation of flowers is adapted to persons in every condition of life. The high and the "These failures, I think, are caused by a careless low, the rich and the poor, all can partake of its choice of grafts,—by working them on improper advantages. It may not pay in dollars and cents, there were many middle aged trees in different only, is to be attended to; therefore, they will parts of the kingdom which were in full vigor and bearing; and although young plants in old gardens and orchards were unthrifty, such as were properly planted in newly broken-up ground, such persons will ask, What is the use? Does it for what is the use? Does it afford meat and drink? I analyse ever the being the opinion of the such persons will ask, what is the use? as ever. This being the opinion of the author swer no, only to the mind; and such individuals, respecting the failure of the Golden Pippen, and having no great stock, are certainly in want of other old sorts, he gave the subject his best consideration, and set about proving how far his own apply only to those who decry the cultivation of experience of 40 years was well or ill founded, and show the following conclusion with the pass was the following conclusion with the pass was the stock, are certainly in want of no great amount of food for it. These remarks side rational amount of food for it. These remarks apply only to those who decry the cultivation of flowers, and who look upon the time employed at the following conclusion with the pass was the stock, are certainly in want of the conclusion of the co upon them as wasted. Whatever will give grat-"If the stocks are raised from the most healthy lification to others, is worth doing. Selfish men stocks, properly treated, and worked with the do not often cultivate flowers. But the social most healthy moderate sized scions, cut from the man, who likes to have others about him enjoy top of sound, healthy trees, and when fit for trans. themselves, will appreciate the pleasure which a planting, be placed on well trenched, light, fresh loam, having a dry bottom, they will assuredly prosper. On the other hand, if the grafts be taken ted to ladies and children, as to men. Let any of our young ladies employ themselves an hour of a tree, they will, nine times out of twelve, be in some respects or other defective, and particularly, not hear of so many dilapidated and dyspertic if they be not afterwards planted in their favorite spinsters, whose principal enjoyment is gossip soil, where their wood would not be sufficiently and bohea. It would give a fresh bloom to their cheeks, an elasticity to their step, which would make them fit companions to some of our fainthearted bachelors, instead of a drag to their existence. Downing, in one of his essays, says "that he has a neighbor on the Hudson, a lady, whose pleasure grounds cover many acres, whose flower In answer in part to inquiries frequently made garden is a miracle of beauty, and who keeps six by correspondents of the New England Farmer, gardeners at work all the season. But there is in relation to Hungarian grass, permit me to never a tree transplanted, that she does not see state a single experiment I made with it last sea- its roots carefuly handled, not a walk laid out, son. My son in Illinois sent me a small parcel that she does not mark its curves, no matter of seed which he brought from Iowa. I sowed it what guests enjoy her hospitality. Several hours

I suppose the reason why so many of our young sowed some turnips and late peas. Towards au- men leave the farm and seek employment in the tumn, I discovered a few plants on the borders cities in mercantile life, is, that they have acof the lot which I presume was the Hungarian quired no taste for farming; and no person will grass. It grewten to fourteen inches high, with succeed in an employment which they do not like. a colored head—purplish, I think, full of seed, a lf you can cultivate a taste for flowers in the specimen of which I enclose you. Whether the child, you will have a stepping-stone, which will seed does not vegetate till late, like our wild lead to something more. Give him a small plot millet, that starts up on our stubbles after the of ground, show him how to plant the seeds, and grain is reaped, or whether the seed was picked you will soon see that he will take a lively interup by a flock of strange birds, I saw one day upon it, I cannot tell. This Hungarian grass did play, as well as work, will be to take care of not appear to be much superior to our wild milithem; he will soon evince a taste for cultivating let or barley grass, as we used to call it when I the smaller garden fruits, such as strawberries, and his one will soon evince a taste for cultivating let or barley grass, as we used to call it when I they are appearing to the strawberries of the flowers, and his one will soon evince a taste for cultivating let or barley grass, as we used to call it when I they are appearing the strawberries of the flowers, and his one it, I cannot tell. was a boy, only the heads were larger. I have raspberries, currants, then the various fruits of seen millet growing far superior to this grass in the orchard will claim his attention; the whole every respect, and that would afford a good crop will result in a taste for farming which will preof seed and fodder. I shall try it, however, vent his roaming away to seek employment in again, on better land, to ascertain what another commercial life, at which so few succeed. Make the labor of the farm attractive, and you can commence in no surer way than to teach a child

You can set out in them flowering shrubs, like the ground the better. Mr. Rivers recommends the Deutzia, Althea, Rhododendron, Japan Pear, as a specific stimulous, what he calls roasted turf, Spiraea, and the most beautiful of all, the Rose, which is easily made by paring sods from the with its infinite variety of color and fragrance. road-sides, and half charring them. It acts like You can have flower-beds under your windows, magic upon the little spongioles of the rose, mak-which, with a little care, will furnish you with ing new buds, and fine fresh foliage start out very bouquets to adorn your rooms in summer; your speedily. For climbing roses, none take precedwellings would be much improved by training dence of the Baltimore Belle and the Queen of up some of the many varieties of running roses, the Prairies. Downing says, that "if he could and Honeysuckles, at the corners and up the pil- have but one rose, his choice would immediately

lars of the piazza. If you wish a flower garden on a little more constant blooming habit, large size, hardiness, extensive scale, a plot of ground, which every farmer can spare, 100 feet by 60, would be amply fragrance." I have found it, however, rather this is accomplished, you will have a simple arpress Vine, Eschscholtzia, Pansy, Dwarf Rocket rangment of a flower garden, which, if well done, Larkspur, Lupins, Mignonette, Nasturtium, Nemety; leave the rare and costly plants to those who have money to buy them. By a judicious selection of the right kinds, you can have an abundance of blossoms the whole season. You will pecially the scarlet flowered. Their dazzling, planted in the fall from 2 to 4 inches deep, and they will be among the earliest blooming flowers we have. As soon as the frost is out in the spring, you can set out some flowering shrubs. You will want the Azalea one of the most beautiful plants; the Calycanthus, the flowers of which will want the Canterbury Bell, the different variance of a dark hours galaxy for the sound to the plants of the plants of the plants of the plants. If the plants of the different variance of a dark hours galaxy for the plants of the p are of a dark brown color, and very fragrant, resembling the odor of ripe melons; the Japan hock, Honesty, Sweet Williams, Wall Flowers, Quince, the flowers bright scarlet, and blooming in April; the Deutzia, which is a plant of easy cultivation, having a profusion of white blossoms which are highly fragrant; the Rhododendron, Paony, a genus which contains many magnificent Propriet and the Dielectra Specialities. June or July, and wants shade and humidity; the ennial in cultivation." Spiræa, of which there is a variety, all beautiful; But there is no end to the the Spiræa prunifolia plena and Reeves's Spiperson can have, if so disposed. ræa, are two of the best; the Weigela Rosea, I will conclude by giving a formula for a liquid which ought to have a place in the smallest col-manure, which I have found very efficaceous in raised from cuttings, which strike readily. Dur-ing the spring months you will certainly want weather. some varieties of the Rose, the queen of flowers, some of the Moss Roses, some of the red, white, every one's garden. Any one who will procure a which they perform long journeys over deserts dozen of the finest varieties, will become slightly with but little food or water.

the cultivation of flowers. It can be done at hit-tle trouble and expense. You can have flower-beds bordering the walks that lead to your house. Give it plenty of manure; the richer you make fall upon the Souvenier de Malmaison, from its sufficient. Make a hed 4 feet wide round the tender, and the buds liable to blast. May is the whole of it, then a walk 3 feet wide; then let most suitable month for the general sowing of your boy or girl who has been at school, apply flower seeds; many varieties do better to be practically their geometrical knowledge, and draw started in hot beds in April, and transplanted to a circular bed at each end, and an oval in the the border, the latter part of May. The followcentre, with a walk round each; border each bed ing varieties of annuals ought to be in every ones with a narrow strip of green turf, fill the walks collection: Ambrosia. German Asters, Balsam, with gravel and roll them down hard. When all Canary bird flowers, Candy Tuft, Coreopsis. Cywill be attractive, before a seed or bush is plant-ophila. Petunia, Drummond Phlox, Portulacca, ed. There is no necessity for an extensive vari- Wall Flowers, Schizanthus and Verbena. The want, of course, some of the bulbous-rooted brilliant scarlet flowers cannot be exceeded by plants, such as the Snow Drop, Crocus, Hyacinth, any other plant yet introduced. It blooms from Tulip and Crown Imperial. These ought to be May to November. There are many other variwhich bears an abundance of rose-colored flow-flowering plants, and the Dielytra Spectabilis, ers, spotted with yellow or orange blossoms, in which Breck says is "the finest herbaceous per-

But there is no end to the varieties which a

I will conclude by giving a formula for a liquid lections; it blooms in April and May, and bears making plants grow; it is likewise well adapted an abundance of fine rose colored-flowers, which to vines and trees. I obtained it from Mr. Bull. hang in graceful bunches, from the axils of the Put a wheelbarrow load of peat into a half hogsleaves and ends of the branches. It is easily head, fill with water, add two pounds of potash

STRENGTH OF CAMELS.—The Galveston News scarlet and yellow. You can have a choice from states that one of the camels in that city kneeled over 3000 varieties. There is no flower which down and received a load of five bales of hav better repays the cultivation bestowed upon it than the rose. The infinite variety, in color, fragrance, and shape, and ease with which it is cultivated appropriate the cultivated app tivated, serve to render it worthy of a place in for a full grown camel is some 800 pounds, with



KETCHUM'S ONE-HORSE MOWING MACHINE.

generally come into use, and that it deserves to mend itself to every New England farmer. effectually.

at the head of this article. We cannot yet speak of it with entire confidence, because nothing short of actual field labor, under several trials, can inwe have given it, we can say that it comes nearer our idea of what a mowing machine ought to be, than any we have yet seen.

selves for the present, in showing the reader what the proprietors of the machine think they have accomplished.

mowing machine, which for simplicity er con-about \$100.

The idea is now pretty well established in the struction, lightness of draft, ease of operation public mind, that the mowing machine will very and the low price at which it is sold, must recom-

The machine is so constructed as to combine be ranked among the valuable labor-saving ma- great strength and durability with the smallest chines of the age. The timid and conservative possible weight; the cutters are so formed as to have had their day of doubt and criticism; but prevent entirely the liability to clog, so troublewhile they have been doubting and wasting hu- some in some machines; it may be stopped and man thews and sinews, active and progressive minds have tested and re-modelled some of the rator can ride with perfect ease to himself and machines, until they have produced one which the horse; it has a wheel and lever attached, by will accomplish the work quickly, cheaply and which the operator can instantly raise the cutterbar six or eight inches, to pass over a stone or Such, we believe, will prove the one illustrated other obstruction, and while raised, the machine may be drawn to and from the field, &c. cutter-bar being always on a line with the axis of the driving-wheel, this machine operates well on rough or uneven ground, where other maspire such confidence. But from the partial trial chines cannot mow. A very important improvement in this machine, is that it can be instantly thrown out of or into gear, by means of a short lever, which can be operated with ease by the driver on the seat. The machine is constructed We shall continue our tests of the machine in entirely of iron, and its parts so adjusted and the earliest grass we can find, and content our- guarded against accidents, that it requires but little more attention to keep it in working order than the common scythe.

For full particulars of the form, construction and mode of management of the machine, see ments in the field and manufactory, the proprietors have succeeded in producing a one-horse the one-horse machine is \$75, and the two-horse

PEAR TREES.

Why is it that the pear tree does not flourish tilizer? in every locality?

This question is often asked. It has been attributed by some to their situation or proximity if it will absorb four times the amount of urine, to the ocean; and among others, by Downing. This theory he could not sustain, and hence, a few years after, he rescinded it, and remarked, that "a larger observation of the effects of the composition of soils, convinced us, that much of what we attributed to climate, was simply to a want of inorganic, or mineral manures in the soil." We apprehend that the want of proper soil in the first place, and the method of applying so much animal manure, not composted, in the second, to be frequently the difficulty in cultivating the pear tree. Regarding the proper dressing of land for fruit trees, our design is to follow nature in her modes of enriching the soil, or in other words, to use vegetable and mineral important operation than it is generally considmanure more generally in the application of ered. There are many methods or ways in which leaves in compost with wood ashes, and peat and this is done; sometimes by pegs driven into the

Another objection we should have, to the use of unfermented animal manure, is, that it stimulates, and as a consequence of this over-supply strong winds, the formation of new roots is preor foreing, induces a sort of plethora, or tender- vented, or often destroyed, and eavities formed ness in the tree, from a too rapid and forced growth; hence we prefer to see a moderate and a newly-set tree is the following: regular growth. We believe that good pasture land is better fitted for fruit trees, than that and circumference, I then with a crow-bar make which has been long under the plow, because it a hole in the centre of the place to receive the is not exhausted of that decomposed vegetable and mineral matter, which is fitted to be the food the branches. I then place the tree along its of trees; the wood also ripening better. We extent; and then with a wisp or collar of some have long observed that young trees, particularly the cherry, if making a great growth in the summer, was extremely apt to die out in the following winter, owing, undoubtedly, to its succulent growth, and want of ripeness in the new trees. For the latter I consider it admirably wood.

For the New England Farmer.

A NEW AND USEFUL FERTILIZER.

I have used, for several years a mixture of plaster and urine, at planting, to give corn a start. I first saturate the plaster with urine, then for a long time engaged the attention of many spread upon a tight floor, stir and turn with experimenters, and with various results. Strong a hoe occasionally, and, when dry, pulverize. I solutions of any of the well-known materials have sometimes mixed dry plaster with the mass, used, are apt to injure the germs of seeds, while without waiting for it entirely to dry, before pul-weaker solutions, being held by the spongy coatverizing. In this case more should be used in a ings, frequently not only secure earlier germinahill. About a great spoonful (heaped,) to a hill, tions, but by a timely supply of necessary pabuof the strongly saturated mass gives the corn a lum, secure vigorous plants, which, as a necessifine start. It should be scattered in the hill, and ty of proper conditions in their early stages of

urine. How is this? Will not the calcining used steeps, what has been their success .- Workprocess expel some of the valuable properties of ing Farmer.

the plaster, and render it less efficacious as a fer-Will it have the power to fix the ammonia of the urine?

Every farmer, who has an iron boiler, may calcine his own plaster at a trifling expense; and and retain the ammonia, I think it must make a very powerful fertilizer, especially if the urine is allowed to become putrid before mixing.

Framingham, March 15, 1859.

REMARKS .- We do not learn, upon inquiry, that any advantage will be derived from the plaster for the purposes you speak of, by calcining it. That process will cost something, and that eost had better be expended in the purchase of more plaster.

For the New England Farmer.

TRANSPLANTING TREES.

The supporting of trees after setting is a more ground from which ropes are fastened and carried to the tree, but more generally by poles set against them in a triangular form. When newly-transplanted trees are swayed about by at the base, admitting too much air, which de-ranges the roots. The best plan for supporting

After digging the holes to their proper depth tree, into which I insert firmly a short pole or stake, that shall at the other end reach nearly to soft material, such as straw, moss, or sea-weed, bind it around the point of pressure, and tie it firmly. This plan of setting maintains the perpendicular position of the tree, and I commend it to those setting out either fruit or ornamental adapted, as trees in our cities and towns are so often destroyed by being swayed about by boys, and sometimes by the horns of cattle.

Salem, April, 1859.

STEEPS FOR SEEDS.—The above subject has not lie in a heap on the corn, as that would ingrowth, yield larger returns. Among the matejure, and sometimes entirely prevent the growth. rials used we would enumerate the following:

A friend suggests, that, as calcined plaster has several times the absorbing power that the unsold suggests, it would be far better to mix with should be glad to learn from those who have For the New England Farmer.

PRUNING APPLE TREES.

remarks of Mr. Putnam, and the editorial on portunity. In this season of care and watchfulthis subject. I have given considerable attention ness over them, she is ferocious, daring, and moto it, and differ somewhat from yourself in the rose, guarding with inquietude her young, whentime of pruning, as a matter of convenience. I ever they wander. She turns when they turn, think there are weighty objections against prun- and by whining and grunting, shows a peculiar ing in June or July. While the fruit and foliage solicitude to keep them in such pools only as are are on the trees, it would make tearing work to much too shallow for the resort of the full-grown pull out a limb after it was cut off; I think it reptile. would damage the young fruit it must necessarily touch. Another difficulty would be in dropping the branches upon the grass or vegetables that may be under the trees; and still another in going around with a cart to collect the brush. Then, again, in June and July we are too fully employed in keeping down the weeds, or picking the early fruits, and in having, to spare the time. Such has been my experience in a long course of extensive farming operations, and are sufficient reasons to deter me, and I think most people, from pruning at that time.

I have come to the conclusion that the winter is the best time, and we usually have comfortably weather enough between the falling of the leaves in autumn, and the first of March, to accomplish this work. Is not this the season for trimming grape vines? I sometimes prune after the first of March, in which case I would recommend that all limbs above one and a half inches in diameter be cut, say one foot from the trunk; then in June go round with a sharp saw and cut the stubs very smooth, and pare the edges with a sharp knife, and perhaps paint a little; but I do not like oil on trees. Otis Withington. Brookline, Mass., March, 1859.

Remarks.—An orchard that has been properly tended, requires no operation that will injure ural supports. the fruit, tree, crops under it, or ox teams to carry off the limbs; and an orchard that needs a severe pruning of large limbs, certainly ought to have it done at the proper season of the year, able to do all the pruning in it necessary with a common pocket knife, except in cases of accident to the tree by wind or otherwise.

CROCODILES.

just as the period of hatching is completed, exhibits her eagerness for her offspring in the anxie- lecture on agriculture. Such gatherings and disthe nest of her hopes, scratches the fractured sults. shell, and, by signs which resemble the bark of a dog, excites the half-extricated young to struggle forth into life. When she has beheld, with this sort of joy, fear and anxiety, the last of her offforth into the plashy pools away from the river, the weekly Farmer.

and among the thick underwood, to avoid the predantory visits of the father, whose palate delights in nothing more than the flavor of his own MR. EDITOR: -I have just been reading the young, which he cats remorselessly on every op-

EXTRACTS AND REPLIES.

PRUNING AND TAP ROOT.

I have read the remarks of "J. M. I.," on the trimming of trees, the circulation of sap, and the agency of leaves, &c. &c., but have failed to learn from him, with any precision, the proper time and manner to trim the limbs from apple trees; if ever this should be done. I am free to confess that I have little faith in the trimming process, as ordinarily performed. The handsomest and most productive apple trees I have ever seen, have grown up among the rocks, with very little modification from the hand of man. I should as soon think of pricking the veins of a child, when in full health, to make him grow, as to cut off the limbs of a tree to promote its growth. Any wounds to either are unnatural, and cause an extraordinary effort in nature to counteract them; therefore, I disapprove entirely the cutting of the tap root of young trees, when setting them in a nursery, in order that the roots may spread more extensively on the surface, and be the more readily taken up, when wanted for the orchard. Nature, in starting the tap root down below the surface, designed it for the support of the tree, and whoever would have his orchard perfect, should be cautious about interfering with its nat-

March 21, 1859.

AGRICULTURAL KNOWLEDGE.

I have recently been perusing the "Transaceven at the expense of inconvenience, and all the ing Agriculture," and I find that from its founother objections urged. November pruning will dation it was zealous in getting agricultural answer very well, but June is better. Where a knowledge in some form before the people; they person raises an orchard himself, he ought to be resorted to such expedients as were available, which were widely different from the manner of disseminating such matter now. If that interest were taken in the diffusion of agricultural knowledge at the present time, that there was formerly, would it not materially change the aspect of many rural homes?

It may be said, we have a large number of va-After burying the eggs in the soil, there to be rious agricultural works and newspapers; this is matured by the sun, the female visits, from time all very well, but it does not suffice. We want to time, the place in which they are secreted, and a system by which the community may be drawn together to have a talk or hear occasionally a ty with which she comes and goes, walks around cussions would produce the most beneficial re-

Winchester, 1859.

PORTABLE IRON GRIST MILL.

Subscriber, Orwell, Vt., will find who sells this spring quit its broken casement, she leads them mill by looking at the advertising columns of

WHAT IS GRASS.

Noah Webster, the highest authority we have, (Ed. 1844, at New York,) says it is, in common ker worm from ascending. Can I mix anything usage, herbage, the plants which constitute the with the tar to prevent it from becoming hard food of cattle and other beasts-the plants from too soon? which hay is made, such as herdsgrass, red-top, clover, and many other species—all which are included in the family of the grasses." But another W., wiser than old Noah W., has recently grown up, and says "clover is not a grass." (See Boston Courier of Tuesday, March 22.) Who shall decide when doctors disagree? I say, let farmers themselves decide. Ask any twelve you meet, and I hesitate not to say, that eleven of them will promptly say that clover is a grassask the learned Secretary of the Board of Agriculture, and he will tell you that clover is a tion? grass, for he has already said that in print. This hypercritical quibbling, of persons who know much less than they think they do, is vexatious and annoying to practical men.

ALEXANDRIAN CLOVER.

I have received a package of seeds from the Patent Office, and among them is one marked "Alexandrian Clover, Trifolium Alexandrinum, (from Egypt.) Sow early in the spring."

My query is, whether it is a flowering plant old or new land sound potatoes. designed for garden culture, or should it be sown broad-east for seeding down ground like our common clover?

Winchester, 1859.

Remarks. - The Alexandrian clover is de. scribed in the books as one of the forage plants.

LANDS IN MAINE.

Good arable lands can be purchased in Franklin county, Maine, for five or six dollars per acre. where farming produce can be raised in abundance. I advise people to go there, instead of We are glad to learn that our neighbors of Esthe West. J. B. Johnson.

Salem, N. H., 1859.

TO CURE SPRING KNEES IN HORSES.

In a past number of the New England Farmer, I noticed an inquiry, as to what would cure a horse having sprung knees. I had a horse about two years ago, whose knees were very badly sprung, and I cured him in a few weeks by using "Dr. Streeter's Magnetic Liniment." I would recommend it in other cases of the kind.

JAMES S. THOMPSON.

Kingston, Mass, 1859.

TO CURE WARTS ON CATTLE.

Dissolve potash to a paste, cover the wart with it for half an hour, then wash it off with vinegar. The cure is sure for man or beast. A. BRIGGS.

Deerfield, Mass., 1859.

HOW TO HULL CORN.

Place a strong bag with three pints of wood ashes in it, in a boiler with three quarts of corn ster, when he was about to address his fellowin water. Boil until the hulls will slip off by rubbing them with the hand. When rinsed, boil the corn again in fair water till it is sufficiently soft. ASA BENFIELD.

Centre Brook, 1859.

TARRING APPLE TREES.

I am tarring my apple trees to prevent the can-

Is tarring the cheapest and most effectual way

A Son of Pomology.

Westford, April, 1859.

HOW TO HULL CORN.

A good housewife, who has often read and acted upon the receipts in the "Ladies' Department" in your well conducted monthly, has often asked me,"What is the best way to hull corn for family use?" Can you give her the informa-Subscriber.

Quincy, March 12, 1859.

Remarks.—Some obliging lady will undoubtedly tell us.

PLANT PURE POTATOES.

Plant potatoes that are not specked with rot, or any disease, and my word for it, you will have good, sound potatoes; this is no fiction, for I have raised them for two years past, and had on

TOBACCO.

Where can I find a practical work on tobacco? B. B.

Middletown, Ct.

Remarks.—Do not know. We hope not anywhere.

EXPERIMENTAL FARMS.

Much responsibility rests on those who undertake the direction of one of these establishments. sex have already taken the bull by the horns, and appointed a committee of their experienced citizens to shape affairs on their Society's farm in Topsfield. We learn Messrs. Fay, Merriam, Loring, Williams and Dodge are planning for the use of their farm. We have confidence that these gentlemen will venture upon no plans of operation that will not be practically useful. Mr. Brown, the working man on the farm, is young, energetic and ambitious. He is already favored with a contract, that will enable him to use his produce at home, thereby bringing it to a good market, and increasing his means of fertilizing his grounds. The employers are ambitious of improving the appearance and conveniences of the farm. It is so centrally situate, that it probably will, ere long, be made the focus of all the society's operations. As was once said by the renowned blacksmith of Hinsdale to Mr. Webcitizens at Worcester at a political meeting, familiarly slapping him upon the shoulder, "Much is expected of you, Daniel, to-day." So say we of our friends in Essex.

For the New England Farmer.

HIGH FARMING --- PROF. MAPES'S FARM ---SUPERPHOSPHATE.

BY JUDGE FRENCH.

Not many weeks ago, we published a pretty careful criticism upon the farming operations of of the highest farmers of that country, and our successful farming. conclusions were, that although Mr. Sheriff Mechi the labor he charged, and American prices for had received, for many years, no other manure. the crops he credited, he would run his farm ruthrough the low price of labor mainly, the price prices.

In the New York weekly Tribune of March is very interesting to farmers, because of its encouraging results. The farm contains 1212 acres, grass and woods. The account below gives the ture, and the use of superphosphate. items of income and expenses, with a balance of the water.

having seen his farm, though not in the grow-by one mule, and with the horse-hoe; and he apconfidence in our ability to form a correct opinion of this statement.

his crops, everybody who sees him and his farm trogenized superphosphate now on hand. will at once admit. He understands the theoment, and a fruit garden.

if we could raise them in any great quantities, but our impression is, that nobody can show in this country better dwarf pear trees than Prof. Mapes.

He is the inventor of Mapes' Superphosphate of Lime, and it is not strange that his rivals in Mr. Sheriff Mechi, of Tiptree Hall, England, one patent manures should detract from him and his

Five thousand tons of this manure have, some might make money in England by underlaying seasons, been manufactured at the works in which 170 acres of poor land with iron pipes, and pump- he is largely interested, near his place. His farm ing through them all his manure with a steam- is manured almost exclusively, with this prepaengine; by underdraining five feet deep, and ration, and acres were pointed out to us, on doing other things accordingly, yet that his own which were the finest fruit trees, and beds of statement showed that with American prices for strawberries, besides the ordinary crops, which

The professor stated, in our hearing, at the inously in debt. His success, we said, results New York Farmers' Club, that stable manure could not be sold in his neighborhood for \$1,50 there being but about half our New England a cord, to be hauled one mile, because the superphosphate is cheaper, and his neighbors who were present, suggested no doubt of his correct-26, 1859, is an account of the farm of Prof. ness. Yet, at Exeter, it costs us \$5,00 a cord, Mapes, near Newark, New Jersey. The account besides hauling, and this is probably an average price in the larger towns in New England.

After all our buts, and yets, and apologies for and the statement shows that the expenses upon | Prof. Mapes's astonishing profits, there is a large it for the year 1858 were \$3,152 60, and the in-balance of credit to be divided between his mode come from it was \$11,627 88, leaving a nett of culture and his superphosphate. "How does profit of \$8,475 28, after paying all expenses and he get so large crops at so little cost?" is the a fair rent for the land! Only 331 acres of the question. His explanation is found in three farm was in cultivated crops, the rest being points,-thorough drainage, deep and fine cul-

He underdrains with tiles from four to five which may challenge competition on either side | feet deep; he subsoils eighteen or twenty inches deep, and works his root and hoed crops con-Having some acquaintance with Prof. Mapes, stantly in summer, with a little subsoiler drawn ing season, and having met his foreman, Mr. plies to every acre, at the start, 600 pounds of Quin, both on and off the farm, and talked with superphosphate and a less quantity in after years, him about the farm operations, we feel some according to the crop. That this manure does wonders on his farm is not to be doubted. have ourselves tried it several years, and always That the professor is a man of great scientific with favorable results, some of which have been knowledge of agriculture, and of wonderful tact published. We propose to continue our experin his application of science to the culture of iments the present year with one ton of the ni-

And a word by the way upon this subject may ries of farming, and his farm shows that he not be amiss. We do not believe that farmers makes his knowledge practical. He raises the should in general purchase their manure, unless very crops that pay the best in his market, and they are selling their crops. If they are, they he gets the largest crops and the highest prices. must replace them by bringing on to the land His farm is not indeed, a regular farm, but rath-the elements of fertility which they have carried er a market garden, a nursery, a seed establish- away. This can only be done by buying some or other of these fertilizers. Superphosphate of Yet these are departments open to many of lime is admitted everwhere to be, excepting guus, and why cannot we make profit of them as ano, the very best of fertilizers, and guano is well as he? To be sure, we cannot expect to difficult to apply properly, and is not adapted to get eight and twelve dollars per hundred for pears, all crops. The best farmers in England buy immense quantities of superphosphates for their root crops in particular, and many of our farmers use it upon their potatoes and corn. Prof. Mapes has no secret as to his mode of manufacture, but publishes it as follows:

"The Improved Superphosphate of Lime was first invented, and was composed of 100 pounds of bone-dust dissolved in 56 pounds of sulphuric acid, to which was added 36 pounds of Peruvian guano and 20 pounds of sulphate of ammonia; 100 pounds of this mixture were found to be equal in application, both in power and lasting quality, to 185 pounds of the best Peruvian guano.

The Nitrogenized Superphosphate, which is found to be practically superior to the Improved Superphosphate, is composed of equal weights of improved superphosphate and dried blood

Probably any chemist in the country will pronounce a fertilizer consisting of the above elements, valuable for almost all cultivated crops, and we trust our farmers, in their progress in agriculture, will not forget that there are manures besides what are found in their barn cellarsare light of freight and cheap of application. In ufactured article of the kind.

We give the statement from the Tribune, as to Prof. Mapes's farm. Can any man show a better one? Does farming pay, or does it not?

"The following excerpt from the farm book of which has been duly certified to by him as cor-

SALES PROM APRIL 1, 1858, TO APRIL 1, 1859, INCLUSIVE.

, , , , , , , , , , , , , , , , , , , ,
Timothy Hay, 50 tons\$750 00
Salt Hay, Sedge and Black Grass, 91 tons564 20
Asparagus
Asparagus
Greens (Spinach, Sprouts, &c.)108 00
Cabhage, early and late Cauliflower
Kohl Rabi
Carrots, 900 bushels at 43c391 30
Celery
Corn, shelled, 550 bushels at 85c467 50
Corn. sweet
Egg Plants51 00
Lettuce120 00
Melons43 50
Onions149 20
Parsnips, 250 bushels at 37½c93 75
Peppers
Squashes55 00
Rhubarb310 00
Radishes65 00
Salsify, (Oyster plant)25 00
Tomatoes
Turnips, 1.200 bushels, at 35c420 00
Potatoes, (mostly sold for seed.) 700 bushels,
at \$1
Seeds, (all kinds)

	Hot-bed and cold frames		
	Grap-s, Strawberries, Raspberries and	00	
	Blackberrie	00	
ļ	Pears, sales $-1857 - \$805$ average sales610	40	
	Fruit Wines on hand470	00	
	Corn Folder—soyho stalks and green rye240	00	
	Hogs, milk and butter386	00	
Ì	Two choice calves50	00	
	Total	 \$11,627 8	9
ı	Expenses.		
	Eight workmen, eight months, at \$20\$1,280	• •	
		00	
ĺ	Five workmen, four months, at \$20\$1,280	00	
	Five workmen, four months, at \$20400	00	
	Five workmen, four months, at \$20	00 50 00	
	Five workmen, four months, at \$20	00 50 00	
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Lime, at 2c. 306 Rent for 534 acres, at \$8. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes. 31	00 50 60 00	
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Lime, at 2c. 306 Rent for 534 acres, at \$8. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes. 31	00 50 60 00	
	Five workmen, four months, at \$20	00 50 60 00 50	
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphale of Line, at 2c. 396 Rent for 534 acres, at \$3. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes. 31 Wear and tear of Tools. 100 Use of leam, at \$3 per day. 453	000 500 600 600 600 600	
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Line, at 2c. 306 Rent for 534 acres, at \$8. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes	00 50 60 00 50 60 60 60 60 83,152 6	_
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Line, at 2c. 306 Rent for 534 acres, at \$8. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes	00 50 60 00 50 60 60 60 60 83,152 6	_
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Line, at 2c. 396 Rent for 53‡ acres, at \$3. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes	9 00 50 6 00 9 00 50 9 00 6 60 	38
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Line, at 2c. 306 Rent for 534 acres, at \$8. 426 Rent for 52 acres, salt grass, at \$1,25 .65 Taxes .31 Wear and tear of Tools .100 Use of leam, at \$3 per day .453 Total . Total receipts. Deduct expenses .	\$3,152 6\$11,627 8\$3,152 6	38 30
	Five workmen, four months, at \$20. 400 19.825 lbs. Superphorphate of Line, at 2c. 396 Rent for 53‡ acres, at \$3. 426 Rent for 52 acres, salt grass, at \$1,25. 65 Taxes	\$3,152 6\$11,627 8\$3,152 6	38 30

For the New England Farmer.

MASSACHUSETTS APPLES.

The apple is more emphatically the farmer's manures which contain no seeds of weeds, which fruit than the pear. They can be raised with more certainty of a crop, particularly if here in Massachusetts we pay more attention to the cula garden of vegetables, we should hardly know tivation of those sorts which are indigenous, or how to raise our crops, without a bag of super- have been raised on our soils; for however phosphate at hand. A cabbage will fatten on it, strange it may appear, I have, for many years, like a pig on corn meal, and a cauliflower will head observed, that the best apples in our markets have been those sorts which were first produced two weeks sooner, by the application of an ounce in our region. In a report to the Essex Agriof it, at the time of transplanting. We have tried cultural Society some years since, I made the every variety of fertilizer, and have more faith in above statement, which was afterwards corrobo-Mapes's Superphosphate than in any other man- rated by Henry Ward Beecher, who, in an article on the culture of the apple, remarked, that the best apples in the West were those varieties which originated in the "Great Valley of the West." With us the Hubbardston Nonsuch, Baldwin, Roxbury Russett, Mother, Porter, Williams' Favorite and Danvers Winter Sweet are among our best fruits; all these are of Massachu-Mr. Patrick T. Quinn, the manager of the farm, setts origin. From farther observation on this subject we would repeat the assertion, that a rect, will show the actual sales and expenses of the last year:

fruit, (particularly the apple,) originating on a given soil, will generally be superior in that logiven soil, will generally be superior in that logiven soil. cality or section, than in any other. We have in our mind the Newton Pippin, Esopus Spitzenberg, Red Doctor, Pennocks, Red Winter and Red Gilly Flower, fruits which are considered first-rate in their native habitats, as the undoubtedly are, but when grown upon our soil, are inferior to those sorts named above. say the same of the imported varieties generally, with the exception of the Gravenstein of Germany, and the Ribston Pippen of England; the former does equally well with many of our varieties, and the latter occasionally on rich soil.

Salem, Mass. J. M. I.

WINDHAM COUNTY, Vt., AGRICULTURAL SOCI-ETY.—The annual Fair of this society will be held at Newfane, Oct. 5 and 6, 1859. Officers, O. S. Howard, President; Alonzo Dutton, Ira A. Pulsifer, Vice Presidents; W. A. Stedman, Secretary and Treasurer.

For the New England Farmer.

DISEASES OF HORSES.

I have a very sick colt which was in good order when attacked. The first symptom of disease, I noticed about six weeks since, when he seemed to lose his balance in the stable and fell. He was a little stiff in the hind parts, and gradually seemed to lose the free use of his limbs, staggering some, but quite frolicsome when out with other colts. He grew worse until three weeks ago, when he would lie down in the stable and groan. When on his feet he acted like a poisoned lamb, except frothing at the mouth; three weeks ago, I bled him in the mouth, and physicked thoroughly, but to no purpose. He still ter apples, all grown in the county of Essex, lies in his bed of straw perfectly comfortable. But when I get him up, he suffers exceedingly, breathing like a wind-broken horse. After active exercise his bowels are in a good state, and have been all the time. His food during the win-RINGING, SUMMER PRUNING, AND THE ter has been poor hay and corn stalks, with occasionally a swill mess. I have rowelled him, and for the past three weeks have fed him nothing pening, and produce larger berries, by a process but bran mash and new milk to drink, from of ringing the shoots in June and July. eight to twelve quarts per day. It is a horse colt treated in this manner produce fruit nearly twice twenty-one months old. He has appeared to me the usual size when girdled an inch in width; through the whole time as if his spine was affected. It is very difficult for him to use his course, the following winter; but on the contrary, limbs. I think he will live some time yet, if the when the ring of bark is taken off, only one-half an new milk holds out. There have been a number inch in width, the fruit grows larger, but the of horses sick in town similar to this, and most bark coming together before the winter, a con-W. D. SEARL. have died.

learn whether it prevails in other places. It is leaves, where it is concentrated, returns through always difficult to suggest remedies to patients the nerves of the leaves, to the base of the leaf suggest in this case.

APPLES FOR EXPORTATION.

staple article for exportation than they have ever object, the operation of ringing may be peryet been in New England. Our soil and climate formed as above; but if made on the small branchare, we apprehend, better adapted for the perma- es of the new wood, the fruit does not acquire a nent cultivation of this fruit than the deep allu- proper state of maturity; it should be done on rent cultivation of this fruit than the deep alluvial soils of the South and West. We find that the previous year's shoots. The effects of ring-there, particularly in the West, they are more ple than upon soms fruits; we have attempted subject to what has been denominated frozen sap it on the peach tree without any seeming effect. blight or canker, which we think may be attributable to their deep soils, the roots running below the action of the sun and air, so necessary
for the health and longevity of trees; we find
here, on the contrary, apple trees in a healthy

The Normal Alexander of the sun and perlow the action of the sun and air, so necessary
for the health and longevity of trees; we find
here, on the contrary, apple trees in a healthy

The Normal Alexander of the without any seeming the contract and seem England we have a more shallow soil; hence trees grow slower, the wood ripening better than ing so many leaves, as we must, of necessity, in more rich deep soils where they are forced to upon rich, deep soils, where they are forced to this operation. The above, if true, shows the grow later, the wood being succulent, the leaves folly of taking off the leaves of any fruit tree, remaining long upon the trees, rendering them to accelerate the ripening of its fruit.

The Alburnum is the outer coating of young wood, often called sap-wood. The Cambium is mucilaginous matter found between the bark and freezing. Hence we believe, that as Massachu- young wood. setts can never be made a grazing or grain-grow- Salem, Mass., 1859.

ing region, compared with the South and West, and as the apples here are equal, if not superior, on the whole, to those of any other section, we would recommend to the farmers of Massachusetts to cultivate the best keeping varieties of good winter apples, as a source of income more sure of a safe return than that of Indian corn; for while the South cannot compete with us in the cultivation of the former, neither can we with them, in the production of the latter. One gentleman in the city of Salem exported during a few weeks last fall, four thousand barrels of winprincipally in the town of Danvers.

For the New England Farmer.

TRUE SAP OF TREES.

The Isabella Grape may be accelarated in rinection is formed, and the shoot is not thus destroyed. In explanation of this effect we would REMARKS.—We publish the above in hopes to say that the crude sap of the vine, after passing draw out some remedy for this disease, and to up through the Alburnum or sap wood to the that are not seen. We can think of nothing to young wood called Cambium. This is the true sap of trees; it is wholly generated in the leaves, descending to the extremities of their roots, depositing in its course the matter which is succes-We believe that apples are to become a more sively added to the tree. When the enlargement and more early maturity of the fruit be the

J. M. IVES.

For the New England Farmer.

ABOUT FRUIT TREES.

I observe by the report of the Sixth Legislative Agricultural Meeting, that the chairman happen to have a bearing on the case, we are premade some most excellent remarks on pruning apple trees; and I regret that want of room, or Farmer from publishing them at length. I do ladder. that has not been derived from some agricultural or horticultural publication, or from some juright way of pruning trees.

posure to the hot sun, is a matter to be tested by no large limbs to cut off. observation, but the brown, leathery appearance tary effect from exposure to it. Many a sturdy both their eustomary shade and the foliage requisite to keep up a brisk flow of the sap.

The manner of pruning trees is a no less imbarked fruit tree. Like the friendly bear in the fable, who in his well meaning efforts to brush a in the organ entirely, he means good and does a large part of the world with both these luxuries. evil. Devastation is as sure to follow in his track, as in that of a flight of locusts. It should be a cardinal rule never to set about the work carelessly or without a plan. There are many questions to be decided before we can do it in the very best manner, such as what are the nat-

enough to protect the rest from the scorching sun, and afford sufficient work for the roots to keep them in a healthy condition. Having decided all these matters, and any others that may

pared to begin our work.

For tools, I want a fine-toothed saw and a thin any other reason, prevented the editor of the bladed knife, both in the finest order, and a step The branch should be supported with not know that I have an idea on this subject, the left hand, while cut, so as not to start the bark at the place where the instrument comes out. When using the knife, which I rely upon dicious cultivator of fruit; but I wish to add my almost solely, on young trees, I press the branch testimony in favor of what I believe to be the to one side so as to take off all resistance from pressure on its flat sides. In this way limbs an It has become an established rule with me, inch or more in diameter may be easily cut never to cut a branch from a vigorous growing through. My next step is to examine the wound, apple tree, if it can be avoided, except when so fully in leaf that the sap will not flow from the wound. By this course the trees will entirely round. When the operation is done I wish it to escape those terrible black spots below the appear to be a wound on the side of the branch wounds, which always disfigure and often kill the or trunk, rather than a stump projecting from it. bark for a considerable space. I should, in gen- If the pruning is done as soon as the tree is fully eral, prefer June to July or August, to do this in leaf, it will be found at the end of the season work, as the earlier it can be safely done, the that a handsome circle of new wood is formed all more time will be given for the wounds to heal the round the wound, and the wood within is smooth first season, and any exposed branch will become and sound and by the end of the second season, more gradually habituated to the scorching suns it will be entirely healed, unless quite a large of midsummer. The remarks of Mr. Lake, at the same meet- have to be removed at another time, and cut in ing, are almost equally in accordance with my ex- their extremities so as almost entirely to check perience. If we train up our young trees in the their growth. Finally, if I find any branch, which way they should grow, there will be little need I propose to have remain permanently on the tree, of cutting large limbs at all. If we should find is assuming an undesirable form, I endeavor to it necessary to remove such, the stumps should correct it by clipping or otherwise as is requibe carefully protected from the weather, so as to site. By following this plan regularly, I find my keep the scar dry and sound as long as possible. trees improving from year to year, and I hope Whether fruit is really injured by too much ex- eventually to get them in good shape, and have

I wish to remind those persons, who are anxious of the naked branches does not indicate a salu-lest we should raise too many apples, that there ars at least 500,000,000 people living on our old tree, I have no doubt, has received its death globe in countries where apples do not grow; from the hand of the grafter, who, to give his and, that probably 499,000,000 of these would scions a good start, has deprived the branches of like this fruit if they could get it; and moreover, that by keeping apples at a temperature just above the freezing point, they may be kept sound for any desirable length of time, and transported portant matter. A rough giant of a man, in cow-hide boots, well garnished with nails in the heels, have been sent to California packed in boxes and his red right hand armed with an axe, or among cargoes of ice, and it is as easy to send coarse-toothed saw, is a vision ominous of much them to the East Indies, and other parts of the evil, when seen among the branches of a tender tropical world. In view of these facts I would appeal to the patriotism and the pockets of the people of New England, and ask them why they canfly from the nose of the sleeping man, crushed not grow apples as well as ice enough to supply

H. Lincoln.

Lancaster, Mass., April 11, 1859.

STARTING CUTTINGS IN MOSS.

It is a very simple operation, and at the same ural habits of the tree; is it designed to cultivate time one that requires some little skill and care, the land with other crops, or to spread the trees to strike a cutting. Cuttings of grape vines, curso near the ground as to occupy it entirely with rants, and of many shrubs and flowers are usualthem; is the exposure such that high trees will ly started in sand, and some think brick dust the suffer particularly, both in the branches and fruit, best material for this purpose. We see in the from strong sweeping winds; and then, how with January number of the Gardener's Monthly Adthe material before us can we obtain just what we vertiser a quotation from a German periodical, desire; how much can we cut now and yet leave in regard to the use of swamp moss or sphagnum

which it says has been used in Holland instead has anything like the merit which this possesses, of earth or sand, for the purpose of striking cuttings, and up to this time we have heard of scarcely a single failure, and its success has been most complete. This sphagnum (or swamp moss) should be well dried and reduced to powder, by rubbing it between the hands. Fill the cutting pots or boxes with it, and after watering it well, insert the cuttings. It dries less quickly than earth or sand, and preserves an uniform humidity, and the root fibres are developed more rapidly. It is said that some plants, that in sand ticed you made two remarks, editorially, about require several months to root, only require Hungarian grass; that statements about its pro-"three or four weeks in the moss."—Maine Far-

LANDSCAPE GARDENING.

There are few things that mark the progress of civilization and the arts more than the expression of a true taste in architecture and garthe appearance of the house they live in, and the truth in the matter of Hungarian grass. -and as we do not remain stationary in anything, but either progress or recede, it is evident, we think, that if there is no advancement in the of which I send you a sample. particulars we are considering, there will be little in anything else.

Improvements in our buildings and grounds, if conducted with economy, and in accordance with our business and ability, are not, by any means, a mere gratification of taste alone. far as architecture is concerned, they give employment to several classes of industrious persons, while the high cultivation of plants are so many examples for all, of what the soil is capable of producing when proper means and skill grounds are in keeping with them, the combination not only gratifies the eye, but adds greatly to the beauty and richness of the country.

upon our table a new edition of Downing's Landstrape Gardening and Rural Architecture, it being the sixth edition, enlarged, revised and newly for folder \(\frac{1}{4}\) acres 2\(\frac{1}{2}\) bushels; moved for folder \(\frac{1}{4}\) acre; threshed with illustrated, with a supplement, containing some remarks about country places, and the best methods of making them; also, an account of the newer deciduous and evergreen plants, lately innewer deciduous and evergreen plants, lately in-troduced into cultivation, both hardy and half-oats thin, they do not lodge so bad; the heads hardy. By HENRY WINTHROP SARGENT.

on thick, fine, white paper, and is illustrated by do lodge, do not give so thick a coating over the numerous elegant engravings on steel, wood and young grass, as to kill it near so much as if sowed stone; some of them from the pencil of Mr. MOORE, one of the publishers.

if, indeed, there is one in any other country. Published by A. O. Moore & Co., 140 Fulton Street, New York, and for sale by Crosby, Nichols & Co., 117 Washington Street, Boston.

For the New England Farmer.

HUNGARIAN GRASS.

Messes. Editors:—In your last issue I noductiveness were somewhat conflicting, and that it was doubtful whether the seed will ripen in all parts of New England. Circumstances and events which led to the first are about the same as might be expected about any other new thing. In answer to your second remark, I will give you the result of an experiment I made the last season, without any comments, at this time, for the bendening. So long as men are indifferent about efit of not a few most deeply concerned to know

Between the fifteenth and twentieth days of grounds that surround it, they will rarely express June, 1858, I cast up the soil in this cold, but a true taste in anything else. This is true of pleasant, Green Mountain town, and sowed twoncommunities and nations, as well as individuals, ty-nine quarts of the seed. The latter part of September I threshed from seven and a half tons of hay gathered, two tons and eighty pounds of well-ripened seed, measuring eighty-five bushels,

I noticed you recommended to farmers to try it sparingly. I recommend to every farmer to try it liberally. I shall sow no oats this year, but shall sow at least fifteen acres with said seed.

WM. RICHARDS.

Richmond, Mass., April, 1859.

For the New England Farmer.

THIN AND THICK SOWING.

MR. EDITOR: - In my communication of January 9, 1 gave a short account of my method of ble of producing when proper means and skill using green manure, and growing corn. After are applied to it. When buildings are construct-harvesting my corn, I plow in the fall from eight ed upon true architectural principles, and with to 10 inches deep, and in the spring generally sow a highly cultivated taste, and the surrounding to oats and "seed down." Inthe spring of 1856 I sowed on five acres seven bushels of oats; threshed with a machine; result, 256 bushels. In 1857, sowed on 14 acres two bushels oats; rethe beauty and richness of the country. sult, 108 stooks; threshed out part in the fall, We have been led to these remarks by finding yield nearly a bushel to the stook; the rest are larger, and better filled, give heavier oats, do The work contains nearly 600 pages, is printed not shade the ground so much, and where they

Oats are not generally considered so good grain to "seed down" with, as wheat or rye, but No other work in this country, on these topics, if any one will try oats at the rate of 1 to $1\frac{1}{2}$ bushels per acre, according to the richness of the ano, by L. D. Gale, M. D., Chemical Examiner ground, they can judge for themselves. In the of Patents in the United States Patent Office, inspring of 1856 I planted 12 acres of corn; in the asmuch as it agrees with analyses made by other fall harrowed the ground and sowed 1 acre to winter rye, and sowed Timothy seed in the fall, men eminent in the scientific world, will give a and clover in the spring, as soon as the snow correct idea of its constituent parts: was gone. In the spring of 1857, sowed the rest Organic compounds yielding ammonia. of the piece, 14 acres, as before described, and last season moved for the first time, and could see no difference between that "stocked" with rye or that with oats. My manner of sowing is to go over the ground with a light harrow to smooth it down, then sow the oats, then use a cultivator harrow, sow the hay seed, and cross harrow with a light harrow of 30 teeth; then roll the ground, which leaves it in a fit condition for the scythe. The richer I make my ground, the more hay seed I want to sow, thereby avoiding a coarse quality of hay, which is generally the result of the first grass from five to eight years following. Now, nate. Mr. Editor, I do not wish to be understood that my method of procedure is better than other farmers', but my motto is, let every one read, (and write too, for others to read,) judge, practice, and decide for himself.

W. C. WHITE.

AMERICAN GUANO.

Barre, Vt., April 5, 1859.

We recently alluded to this subject, and said that we should recur to it again. After the Perugradually increased, until now the exorbitant kaline salts. charge of \$65 a ton is demanded—and this increase of price has been continued when shipping ed degree; and causes it to put forth all its freights have been very low. It is a complete strength to force the growth of plants, as alcohol monopoly, and we hope the American people stimulates the animal to unusual exertions for will not encourage it. In 1856, the sales of the time, but which finally exhaust the system. Peruvian guano amounted to \$17,000,000, and the average, for some years previously, was about 815,000 000.

named Baker's and Jarvis's islands, in the Pacific Ocean, some five thousand miles from any land, were discovered by two American citizens, named Michael Baker and Thomas D. Lucas. A company was formed under the title of the American Guano Company, and the interest of the discoverers purchased. The importance of a cheap supply of guano to our agricultural pursuits attracted the attention of our government, and the Department of State entered into negotiation with the Peruvian Government, proposing the payment of \$10 per ton for all guano imported thence into the United States. This negotiaano in our markets, which has increased in price from \$40 per ton to its present price of \$65 per make the following extract:

Organic compounds yielding ammonia, &c	.9.940
Combined Water	.2.500
Carbonic acid from organic compounds of lime	600
Bone phosphate of lime, and bone phosphate magnesia	
(containing phosphoric acid, 38.67)	83 266
Sulphate of soda	.1.263
Common salt	
Loss	816
-	
1	00.000

In connection with this analysis, Dr. Gale remarks:

"Guanos are of two kinds; those in which the ammonia-yielding products predominate, as in year's crop. I do not consider a great crop of the best Peruvian guanos; and those in which oats of so much consequence as a good crop of the phosphates of lime and magnesia predomi-

> "The first kind is produced in regions where there are little or no rains, and the second in regions where the rains wash away a large part of the organic or soluble portions, and leave the insoluble parts. Such are the Mexican guanos of the W. I., and those on the Islands of the Pacific Ocean, above named.

"If we heat to redness an ammonia-yielding guano, we volatilize 65 to 70 per cent. of organic matter, capable of yielding ammonia and other volatile products which constitute the body of this class of guanos. What remains after extractvian guano was introduced, it could be purchased ing the ammoniacal and phosphatic compounds, for several years for \$40 a ton; the price was is of comparatively little value, as it is chiefly al-

> "What effect has such an article on the soil on which it is spread? It stimulates to an unwont-So the stimulating guanos force the present crop at the expense of the future strength of the soil.

"Every farmer who has experience, knows that when he has once used guano for his crops, its Some two or three years ago, certain islands, strength is exhausted the first year; and if he would continue to grow crops, he must continue to repeat his guano.

"But what is the result with the phosphatic guano? The analysis shows that more than 80 per cent. of these guanos consists of the phosphate of lime and of magnesia, in an insoluble state, or in just such a condition that the roots of plants will take up, and appropriate so much of the salt as is requisite to perfect the same."

An analysis of this guano made by Drs. Scaffor and Craig, under the superintendence of Prof. HENRY, of the Smithsonian Institute at Washington, and which was made under directions from the Government, exhibits similar results to tion failed, and the Republic of Pern, through those given above by Dr. Gale. Accompanying their agents, has obtained the monopoly of gu- their analysis is a detailed statement of the peculiar qualities of the article, from which we

"As to the worth of these substances, we can The following analysis of Baker's Island Gu-best represent it by comparison with bones, which er common material.

latter, by slow decomposition, furnishes, year af-acre of grass land is about 12 or 15 cwt. This ter year, something to the plant in the shape of dressing on pasture land will last seven or eight ammonia.

constituent of all our cereal grains, is, by itself, der pasture is never so exhausted as to be as a desirable addition to a soil. This can be easily poor as it was before the application.—Moore's understood when it is remembered that nearly Rural New-Yorker. the whole of the bones of all animals is originally derived from the bone earth in vegetable food.

"The specimens we have examined, contain a larger per centage of phosphate of lime than bones contain; they have also rather more phosphoric acid than bone earth, and are in a finely divided condition, so that the useful matter can be readily taken up when applied to crops.'

The samples brought were under the charge of a Government officer, Charles H. Davis, per pair, for 14 cents per pound. He sold 478 Commander U. S. ship St. Mary's, and delivered He received for eggs and chickens, \$125. Cost into the hands of the Government chemists. Another the hands of the Government chemists. results.

matter by the reader. We do not recommend bage, pumpkins and squashes, rotten apples, manure. All that can be made from the natural resources of the farm must be made. But this being sadly deficient every where, after our best by them all the time. Thinks it was more proflific harvests of grain and roots, and restore chickens. our exhausted pastures and fields to better crops a hen that raises a brood of chickens, will lay of grass and hay. With this view, we do not about as many eggs as one that does not. hesitate to recommend its use sparingly, by a large number of persons.

Mason & Co., Quincy Hall, Boston.

DAIRIES AND BONE MANURE.

lage. Its dairy farmers are commonly bound to lay the whole of their manure, not on the arable, but on the grass land, purchasing what may be necessary for the arable. The chief improvement, besides drainage, consists in the application of worth of manure, enough to go on 10 or 12 acres reared and sold off, a farm parts with as much Hens that le had of Mr. Farmer, had proved his

are nearer to them in composition than any oth-learthy phosphates of lime as is contained in half a hundred weight of bone dust. Hence the ad-"Bones, however, are valuable as manure, by vantage found in returning this mineral manure reason of their mineral matter, phosphate of by boning grass lands. The quantity of bones lime, &c., and also by their animal matter. This now commonly given in Cheshire to an imperial years; and on mowed land about half that peri-"The phosphate of lime being an important od. But the grass land once boned and kept un-

For the New England Farmer.

PROFITS FROM POULTRY.

DISCUSSION AT THE CONCORD FARMER'S CLUB.

March 24, 1859.-John Brown, 2d, stated that on the 1st of January, 1858, he had 50 hens. In April he bought eight more. In June he sold 20 hens, that weighed from eight to 12 pounds alyses have been made by several other chemists covered the droppings once a fortnight with than those already referred to, and with similar loam. January 1st, 1859, had 60 hens. Has sold since 150 dozen eggs. His hens are of We wish to be perfectly understood in this wheat, corn and cob meal, or shorts, new cabthis guano, or any other specific fertilizer, to the boiled potatoes. He does not keep corn before exclusion of a single shovel full of home-made them. Thinks this will make them too fat, and efforts have been exerted, we recommend this itable list year to sell eggs than to raise chickguano as a help, to enable us to gather more pro- ens; some years it is most profitable to raise

J. P. Brown thinks it is best to raise both, as E. Wood, Jr., has 112 hens. When he began

to keep them, he was desirous to know how much The general agent of the company is A. C. Lom- it cost per day to keep a hen, and he weighed and measured the food for a few weeks. He finds bard, Esq., Boston, Mass., who will supply pam-the cost about one-third of a cent. Hens require phlets giving a more full account of it than we a mixture of grains; if they have but one kind, are able to. The sub-agents are Messrs. Nourse, barley is the best. They must have a warm place and sunshine. Does not let them run out in cold weather; he did not let them out till March; his hens have improved under his keeping, and laid well. He takes two pounds of scraps at night, An English paper in commenting upon this and puts into a pail of hot water, and lets it stand subject, remarks that the Cheshire dairy farmer, by the free use of bone manure laid on his grass lands, makes his farm, which at one time, before fast. He gives barley or some other grain in the tan application of bone manure, fed only 20 head forenoon, and corn at noon; he gives a good of cows, now feed 40! In Cheshire, two-thirds deal of meat, and pounds up the bones with a granger generally these families of a dairy form or more, generally three-fourths, of a dairy farm sledge hammer; they eat the bones greedily: he are kept in perfect pasture, the remainder in til- keeps oyster shells pounded where they can get

none manure. In the milk of each cow, in its of corn, putting a portion in each hill. Much deurine, in its manure, in the bones of each calf pends upon the condition of hens in the fall.

nor so much.

and raised 150 chickens; did not know how many And no doubt many other diseases, hitherto coneggs; his hens cost him one-half a cent per day. Sidered as contagious, have had the same pultinis year he had 30 hens; in January he had monic origin. Therefore, the exciting cause of 50 dozen eggs, minus three eggs; læ got 30 cents infectious glanders is the poison or miasm gena dozen. Bought 150 pounds of beef, and kept crated in a confined atmosphere, concocted out it by them while it lasted; he pounded up the of exhalations from the breath, faces, urine and bones; the hens eat pounded bones greedily. He gives them warm dough once a day in cold weather. If we keep hens for the eggs only, he thinks spontaneous glanders is the result of an infected the Poland, or Black Spanish, or Bolton Greys, atmosphere, so that in reality there may be but are better than the larger breeds. It is profitable two exciting or direct causes for glanders, viz: to raise chickens; his hens range over a 10 acre contagion and infection. pasture; he keeps scraps by them. Hens should be treated gently; hens that are perfectly tame, will lay twice as many eggs as wild ones; he thinks hen manure better than guano. Last year he had enough to manure three acres of corn in the hill.

1). TARBELL said, if we raise chickens for market, it is best to have them early, and it is important that they should be nicely dressed, if we would get a good price. Chickens that are carefully cleaned and nicely put up, will often bring nearly twice as much as others that are equally good, but carelessly dressed.

Mr. Editor, here are some directions and suggestions, respecting the management of barnyard fowls, from practical men who know how to raise eggs and chickens profitably, and who are doing it this very day, and I doubt not that your

numerous readers will value them more than all the fine stories or fine pictures that Burnham, or any other hen fancier, have ever published.

Yours truly, GLANDERS IN HORSES.

Glanders is the worst and most loathsome form of disease to which the horse is subject; and man himself does not enjoy immunity from it. In the mother country, in France, and in the German confederacies, glanders has appeared in isolated cases among men, and even whole families have been swept away, as by the hlast of a tornado, dying the most horrid deaths. A man or horse once inoculated with the true virus of glanders, is doomed to destruction; there appears to sure remedy against the cut worm is to secure be no help for him.

The exciting causes of spontaneous glanders, are excessive work, faulty nutrition and had stable management, both as regards diet and venti-

lation.

assigned for the presence of glanders, is conta- For more than forty years I have not been able gion. I use the term in its ordinary acceptation, to detect a single failure, wherever it was done which signifies contact or touch; the glandered correctly. Not one person in ten would probavirus being applied or received on an abraded or bly be successful in their first endeavor in tarrhighly vascular surface, is taken up by the ab- ing corn; to be known, the operation must be sorbent vessels, enters the circulation, and after seen. One man dare no use boiling water, so he a while, appears as "inoculated glanders."

atmosphere which pervades a down-cellar, or un-ventilated stable locations, is infected or tainted looked, and tar, or the birds, was erroneously with the odoriferous gases arising from filth and supposed to be the cause.

best layers, owing to their being well kept in the animal excretions. Here the virus of glanders fall. If pullets are left to run at large in the can be concorted and the disease reign triumphfall, and not fed well, they will not lay as early, ant. The vitiated atmosphere prevailing in such locations, finds an easy introduction into the J. B. FARMER said: Last year he had 20 hens, horse's system, through pulmonary respiration.

> TREATMENT OF GLANDERS.—The only remedies that are likely to prove beneficial in the treatment of this malady, are, eod liver oil, phosphate of lime, vegetable tonics, and blood root: these may be given in the ordinary doses, as recommended for other diseases; at the same time I should give thirty drops per day, of oil of sassafras, and occasionally inject the nasal cavities with diluted pyroligneous acid.—Dadd's Veterinary Journal.

> > For the New England Farmer.

TARRING CORN FOR SEED.

MR. BROWN :- I admir the outspoken, straight forward course of yourself and others that write for the Farmer. The opposite opinions of farmers brought together, are conducive of much good. The results of experiments, both successful and otherwise, are attended with profit, when spread before the public. The man who is successful, publishes it abroad, but failures seldom come to light. The ---- county society does not publish the fact of a heavy debt occasioned by their race course, no more than they do the granting of premiums to unworthy applicants. When we read in their transactions the award of a premium for one hundred and twenty-one bus els of corn to the acre, eighty bushels is no dou't nearer the truth.

It pains me to see such havoc made by insec s and birds on the corn crop. I have seen many a field of corn where the cut worm has destroyed from 25 to 50 per cent., which might have been prevented by an outlay of 25 cents. The only the services of the erow in the fields.

Forty-three years actual experience has demonstrated to me the entire safety of such birds being permitted to range the fields at will.

Tar applied to seed corn before it is planted, SECOND MODE OF ORIGIN.—The next cause certainly will prevent the crows destroying it. fails; another destroys the vitality of the kernel The third cause of glanders is infection. The by too great a degree of heat long continued. I term infection signifies, to corrupt or vitiate. The have known parts of fields destroyed by poison-

Could some President of an Agricultural Soety, or some pattern farmer, be induced to try he experiment of tarring seed corn, I doubt not

West Needham, April, 1859.

oughly mingled with the water, then add the grow onions. corn, stirring it well for about ten minutes, or until it is completely coverd with the tar. Take the corn out and roll it in plaster or fine ashes, and the process is complete.

ROBINS AND WORMS.

to the destructiveness of the robin, an Albany it answer to plow in summer, put on a little sand cultivator thus writes his opinion: -"The robins or manure, and seed down? are so industrious to feed their young with the cut-worm, bugs and insects, so destructive to the garden, that I consider every robin's nest in or near my garden to be worth a dollar." Still another:-A Vermont farmer says, "If we would consult our real interest, as well as the finer feelings of our nature, it would be by defending the innocent robin from the attacks of both boys and men." And in reference to the "larger species" of grubs or muck-worm, he continues, "Proviidence seems to have provided an antidote to this species of worms. This fact may be ascertained by visiting a nest of young robins in the vicinity of a corn-field, when it will be perceived

in a house by a dog, with the usual result of disgust to the victors. The terrible scent was nenserves to be known and put upon record.

EXTRACTS AND REPLIES.

GROWING OF ONIONS.

My neighbors are anxious to know something nat in less than ten years, scarecrows would be more about Mr. Emerson's discovery, "whereby nong the missing. Some farming editors recommend the planting of 8 or 10 kernels to the believe that a plant, once impregnated or attacked hill, as a safeguard against worms and insects. by the maggot, can be saved by the application of The expense to thin out is great, and a field thus guano, in any form or any quantity. They believe, dealt with never stands equally in all the hills. where there are plants enough on the ground, By tarring your corn, you need plant no more some of them may be perforated by the worms, kernels than you wish to grow. When we destant with the worms which while others are not—and that those plants which troy the crow, we lose one of our best friends; are not thus attacked, may be improved in their when will the farming community pause and con-sider on this matter? Let us have your opinions, theory and interpretation of Mr. E.'s discovery. based, as far as may be, on facts; especially let Some of these cultivators have been engaged in us have failures, so as to bring together both the business of growing onions for thirty years sides of the question.

R. MANSFIELD. or more—and during all this period, have raised or more-and during all this period, have raised from one to four thousand bushels each, a year. If Mr. E., or any other gentleman of N. H., has REMARKS.—Friend Mansfield has not given had a more enlarged or critical experience in us the mode of tarring, which might be adopted this class of culture, I should like to know it. if persons understood the precise mode of prep- The truth is, they know every rope in the ship aration. Our neighbors practice in this way: about the onion. To grow and preserve them they fill a pail half full of boiling water, add undertake to teach a Marblehead fisherman how about half a pint of common tar-coal tar is just to hook a cod, or a Kentucky hunter how to use as good-stir it until the tar is melted and thor- a rifle, as to teach a Danvers gardener how to South Danvers.

April 9, 1859.

DRAINING A MEADOW.

I have a meadow in which the mud is about one and a half feet deep resting upon a thin stratum of clay, and under this is quicksand. Will an undergrouted drain, laid with stone, be safe, or will it be likely to soon fill? The quan-While so much is said and written in reference tity of water discharged is considerable. How will

S. H., March, 1859.

REMARKS .- An underground drain made of stone will be quite likely to get filled up and become useless in the course of a few years. But properly drained, with tile or pipe, it will be among the best lands.

Summer plowing and seeding is a capital operation-but even that ought to succeed thorough draining.

LAYING LAND TO GRASS-GRAPE VINE.

I have a piece of land rather low and somethis evil, in the common robin. This innocent what clayey, which I wish to lay down to grass and useful bird preys with peculiar avidity upon this year, and want to know the best time and way. Corn has been raised on the same piece for two years, a thing that I do not often do. Barley does not do very well here, and there are objections to oats when sown with grass seed. that they are fed lavishly upon this kind of worm." How would it do to put on guano and oats, this spring, and after the oats are off, put on manure and sow grass seed? If this course would do, TAR AS A DISINFECTANT.—The editor of the how much guano should be used, and how and Medina Gazette tells of a skunk being captured when should the manure be applied and the

I have a native white grape vine which has tralized by burning tar upon live coals of fire by borne for several years, and ripened its fruit finewhich the air was purified as if by magic. If ly; but last year, after the fruit was fully grown this kind of fumigation is a sure specific, it de | it began to wither, and very few if any of the grapes were fit for use. If you can tell the cause,

and how to prevent the same again, I should be thankful.

Taunton, Mass., 1859.

REMARKS .- Sow the land with spring wheat and grass seed; or sow only one bushel and a half of oats to the acre, and your grass seed will probably take well and grow well. Can give no advice about the grape vine.

SOWING SEEDS FOR BUCKTHORN HEDGE.

Will you, or some of the readers of your valuable paper, inform me which is the best season of the year for sowing the seed for a buckthorn hedge? Also, the best manner of sowing?

Pittsfield, Mass., 1859. EMORY H. NASH.

Remarks.—We have not had occasion to sow the seed of buckthorn, nor can we find any account of the process in the books. It is seldom done except by nurserymen, because a hedge is so much more readily obtained from the plants. We should sow the seeds in a fine, mellow, garden soil in May, as most other seeds are sown.

SETTING FRUIT TREES-CLOTH FOR HAY-CAPS.

I wish to be informed as to the best mode of preparing the ground for setting fruit trees. Also, is it best to set them in the spring or fall? Also, will cotton cloth used for hay caps, shed rain without any preparation of oil or paint of any kind? A NEW SUBSCRIBER.

Hatfield, April 7, 1859.

ble condition for fruit trees, ought to be underdrained; then plow, pulverize and manure as you would to obtain sixty bushels of corn per acre. Dig the holes five or six feet across, and twelve to eighteen inches deep; do this several days before you set the trees. Holes prepared in this liberal manner, will give you room enough to place the roots in their natural position, and will be actually cheaper in the end, than to dig them three feet in diameter. Every good tree, taken up and reset, carefully, will live and grow, whether set in fall or spring. We set them at either of these seasons, as is most convenient. Good of pocketing several hundred dollars annually twilled cotton cloth, costing about nine cents a yard, will shed the rain from a well made up haycock during a storm of three days and nights.

WARTS ON PLUM TREES.

In answer to an inquiry of "A. R. S." about plum trees, I would say that several years' experience has taught me, that a sure way of preventing warts or hard protuberances from growing on plum trees, is to place chicken coops under them as early in the spring as possible, or before and the first half of April promises near as much the trees blossom. The chickens will look out in proportion. What it falls short in rain is for everything that causes warts. I. F.

Pittsfield, Mass., April 6, 1859.

RAISING CALVES.

I never let the calves suck more than twice, without the cow's bag is swollen very much. They will learn to drink milk as soon as they get a little hungry. After they have learned to drink well, give them some meal or fine hay, and they will soon eat like cows. I keep fourteen head of cattle, and I raised them all (except one) in this way. One of my heifers, which calved a year ago, in October, when turned out to grass in June, gave fourteen quarts of milk a day quite a number of days. Another, which I sold two years since to a man in this town, has given over nineteen quarts per day. She is owned by a man in this town now, who would not take \$100 A YANKEE FARMER.

Westboro', April, 1859.

WELL AND AQUEDUCT WATER.

I have a well which, in a dry season, affords water much cooler and better for some purposes than that from the aqueduct. In a wet time it fills up so full that it is but little cooler than that of the aqueduct. The well is eight rods from the house, twenty feet deep, with descending ground to the house.

I wish to inquire if by inserting a pipe to the bottom of the well, I can with a pump take water into the buildings of uniform coldness, or will it meet with the same variations it does when taken with the "old-fashioned bucket?"

Waitsfield, Vt. S. P. Joslin.

An anonymous correspondent of the Farmer, in a short note referring to robins, says, "I have REMARKS.—The soil, to be in the most favora- just met in Vol. X. of the Farmer, p. 306, a well written article on this subject, which I refer to with the greatest pleasure, as it controverts the notions of N. Page, Jr., put forth with adroitness in the lately-published transactions of the Essex Society."

If friend "Star" will explain clearly which statement of mine, or assertion, or "notion," if he pleases, is successfully controverted by anything in the article alluded to, I will readily, as in duty bound, retract. N. PAGE, Jr.

Danversport, April, 1859.

CHANGING SEED POTATOES.

A neighbor, who has the very desirable habit from the proceeds of his potato crop, says he increases the yield from fifty to one hundred per cent. by procuring seed potatoes, which grew on an entirely different soil fifteen or twenty miles They are better without paint or varnish, or any distant. Fifty per cent. on the potato crop of other preparation. single year than our proportion of the Massachusetts claim, about which so much ink and breath have been spent in the last forty years.

Lancaster, Mass., 1859. H. Lincoln.

THE SEASON-CANKER WORM.

The month of March gave eight inches of rain, made up of cold winds, indicating large banks of snow to the North. On all sides the winter is

ing to guard by tar, against the ascent of the beauty they should bring, was provokingly be-Were it not for this devourer, the acres appropriated to orchards would be the most valuable branches. They have been educated to other on the farm. Essex.

April 12, 1859.

SOIL-PLANTING IN HOTBEDS.

soil-planting in hot-beds recommended. My adbe moderate in their expectations of success. made the experiment some two years since-and like most of my plants-got bit for my pains.

The grub which I transplanted into my bed with the soil nearly destroyed my planting. Those which escaped the grub, found it an impracticable affair to attempt to root through a compact soil, consequently they yielded up the design with all the gravity of a nonplussed tendril. And my first planting of that year was duly chronicled a failure. H. M. Coven.

Georgetown, March, 1859.

For the New England Farmer.

HOW PLANTS GROW---LESSONS IN BOTANY.

My Dear Sir:-I have for many years, ever since I was old enough to know what the benefits might be, been in favor of the farmer's studying the natural sciences. As long ago as 1840, I wrote a series of articles on this subject, which were published in the old New England Farmer, edited by Henry Colman. Each year since then, I have been more and more impressed with the truth of what I said, and the number of those of the same opinion has nobly increased since that time, insomuch, that many efforts have been made, and some of them, I am happy to say, with signs of success, to establish institutions in which these branches shall be taught, with special reference to the needs of young farmers. Success, I say, to every effort in the cause. Let such schools be multiplied all over the land.

But it is easy to see, that however numerous these may become, their number will always be too small to meet the universal demands of the young farmers of America. We must have a starting point short of them, and that point must be the home of the young, and the "peoples' colleges," the district schools; for as numerous as higher institutions may become, the great mass of American youth are, probably, through all

humbler institutions.

I am aware there have always been obstacles in the way of introducing these studies in our Not in the children, be it understood; they are born naturalists, and only need to have become a class in learning "How Plants Grow," them, and have diverted the minds of their chil-

spoken of as having been mild and open. Cultiva- have had no text books adapted to the capacities tors are anticipating a favorable spring. I per- of the young. They must be so clogged with ceive those who have apple orchards are prepar-scientific technicals that the clear sunshine of grub, that deposits the egg from which springs fogged with perplexity and darkness. Then we the canker worm—that bane of all good orchards, have had but few teachers qualified to the task, and often less useful and less attractive sciences.

We rejoice in one series of scientific text books, adapted to the wants an l capacities of the members of our common schools, and shall hail its In a recent number of the Farmer I noticed introduction as the dawn of a new and brilliant era in their existence. Prof. Gray, in preparing vice to those inclined to try the experiment, is to his botanical works, has fully comprehended the wants of the young. His "How Plants Grow." commences the work of vegetable physiology and botany in the germ, and leads the pupil on, just as young plants grow; naturally and familiarly, in a style that any child can comprehend as easily as they can any ordinary reading lessons.

This work is followed by his Lessons in Bot-

any," written in the same familiar style, but leading the student up another grade in this beautiful and attractive science. And then comes his "Structural and Systematic Botany," whose course is still upward and onward, until led into the "Manual of Botany," decidedly the most full and understandable work on the science we have ever

In addition to the familiar language in which the works are written, they are illustrated, thanks to their enterprising publishers, Messrs. Ivison & Phinney, New York, by cuts so life-like that any one at all familiar with flowers will recognize them without any other introduction. series is one by which any ordinary mind may become its own teacher; a ladder that is of so easy ascent that the youngest may safely venture upon it.

The only remaining obstacle in the way of introducing the study of plants into all our schools, now, that we can conceive of, will arise in the plea that our teachers are not educated in the science; but this series happily removes this obstacle, for we wouldn't give a fig for a teacher who has not mind enough to become familiar with "How Plants Grow," and energy enough to cultivate it. One hour's reading and investigation each day, will keep a teacher enough in advance of her class, and enable her attractively to lead them along. The pleasure and profit all will derive from the effort who will make it, will more than compensate for the labor bestowed. She will find another gem in their educational garlands, and new and attractive objects of beauty in a world where ignorance and indifference see so much deformity.

The season for our common schools to open is time, to receive their school education in these near, bringing with it the early spring flowers; fit season to commence their study; and we hope the teachers of our good, old Commonwealth will see to it that a class of beginners is formed in every school. Further than this, let every school this principle of nature drawn out, to become a class in learning that the principle of nature drawn out, to become just as many of them are now singing classes, eminently so. But parents, blinded by other To this end, let the teacher talk to them a few mobilects, have looked with unholy indifference on the useful and beautiful in the world around the useful and beautiful in the world around the subject. For instance, let a common the subject and let them show dren to other, less attractive studies. Then, we them the bean dry and dead, then when the first

vegetation process developes itself, and so on until last fall, to preserve them through the long, cold winter, and how they break their encasement and expand in early spring. A few short talks and illustrations will get up an interest that will grow and increase like the growth and increase of the plants they delineate, until a beautiful tree of appear to gladden its possessor. W. BACON. Richmond, Mass., April 9, 1859.

works do not seem to appreciate what would be greatly for their interest, by neglecting to secure not exceeding twenty dollars. a notice of them through proper channels.

THE NEW BREAD AND MILK LAWS.

It is known to most of our readers that our Legislature has attempted to secure to the people for each offence. of the Commonwealth pure milk, good measure, and bread of full weight. The acts relating to these subjects are of such general interest, that ture, regulating the manufacture and sale of we copy them in full. The following is the act to bread: punish fraud by the sale of adulterated milk, and to provide for sealing measures to be used in the in weight; and bread may be baked and sold in sale of milk: sale of milk:

Section 1. The Mayor and Aldermen of the several cities in this Commonwealth shall, and the Selectmen of the several towns may, annually appoint one or more Inspectors of Milk, whose duty it shall be to prosecute all violations of the law against the adulteration of milk, and who shall have power to enter all places where milk is stored there shall be conspicuously placed, a card, on or kept for sale, and whenever he has reason to believe the same in any way adulterated, he shall kinds and qualities of loaves sold there, with the take specimens of the same and cause them to be analyzed or otherwise satisfactorily tested, the result of which he shall preserve as evidence against the parties complained of.

books, for the purpose of recording the names and ence of the buyer, and if found deficient in weight, places of business of all persons engaged in the sale bread shall be added to make up the weight reof milk within their respective limits; and any person who shall presume to engage in the business of selling milk without first causing his name and place of business to be recorded upon the books of the inspector of milk, and his name legibly placed upon all carriages used by him in the conveyance of milk, shall be subject to the same penalties as if convicted of the adulteration of milk, as provided in the two hundred and twenty-second chapter of the acts of the year eighteen hundred and fifty-six.

of the several towns, shall determine.

Sec. 4. Milk shall be bought and sold by wine it reaches maturity. Or let them take a bud, and measure. All persons engaged in the sale of milk show them how the leaves that are to shade them shall annually, in the month of May, cause to be this year, were folded up and hermetically sealed sealed by the sealer of weights and measures in their respective cities and towns, all vessels used by them in the sale or buying at wholesale of milk, by wine measure, and all cans used in the sale of milk shall be sealed by said sealer of weights and measures at a price not exceeding two cents each at the amount which they severally hold by wine measure, and any person who shall fail to comply knowledge, bearing flowers, leaves and fruit, will with the provisions of the law requiring all measures to be sealed, or shall buy or sell at wholesale, milk by any other measure than wine measure, or shall sell adulterated or unwholesome milk, shall REMARKS.—The publishers of these excellent be held guilty of a misdemeanor, and upon conviction thereof by a court of competent jurisdiction, shall forfeit to the use of the complainant a sum

Sec. 5. No person shall offer for sale in this Commonwealth, milk produced from cows fed upon the refuse of breweries or distilleries, or any other substance which may be deleterious to the quality of the milk, under a penalty of ten dollars

Approved April 6, 1859.

The following is the act passed by the Legisla-

Section 1. A loaf of bread shall be two pounds not otherwise, except in bread composed in chief part of rye, or maize.

Sec. 2. Small rolls and fancy bread weighing less than one-quarter of a pound each, may be baked and sold without regard to weight.

Sec. 3. In every shop or place where bread is sold by retail, and in each front window thereof, which shall be legibly printed a list of the different price of each per loaf, and half, three-quarter and quarter loaf.

Sec. 4. All bread, except small rolls and fancy bread of less than a quarter of a pour deach, sold Sec. 2. Said inspectors shall keep an office and in any shop or place, shall be weighed in the presquired by law.

Sec. 5. Any person who shall violate any of the provisions of this act, shall forfeit for each offence, the sum of ten dollars, to be recovered in an actio of tort to the use of the party suing therefor.

Approved April 5, 1859.

JACOB STRAWN, THE GIANT FARMER OF THE WEST.

Twenty-seven years ago, Mr. Strawn came to Sec. 3. Inspectors appointed pursuant to the pro-this State a poor man. His operations were small visions of section first of this act, shall, before en- at first, but continued to increase each year, untering upon the duties of their office, be sworn to til he had reduced over 30,000 acres of land to a the faithful enforcement of the provisions of this state of cultivation. He has one farm of 7,800 act, and shall also give public notice of their appointment, by publishing the same two weeks in played from 200 to 300 men and a large number some newspaper published in the city or town in ployed from 200 to 300 men, and a large number which they hold their at which they hold their place of business, and if of horses. Every year until quite recently, he newspaper is published in such town, by posting in public and conspicuous places in said town, two or more such notices; and they shall receive such compensation for their services are the Marson of the state compensation for their services, as the Mayor and fortune of a million of dollars, and he is still hale Aldermen of the several cities, and the Selectmen and vigorous to enjoy it. He has one corn field in Morgan county, nearly six miles long, but has

latterly been curtailing his business and convert- honey was good, nearly every unsealed cell not ing some of his real estate into cash. He is a occupied with brood or pollen, would contain monument of what patience, perseverance, in- honey at evening; but the honey would generaldustry and continuous exertion in one direction ly be removed during the night. The honey will do for a man who has determined upon the sealed up, was either in the top of this long hive, accomplishment of a certain end .- Journal, or in the boxes, as far as possible from the en-Springfield, Ill.

For the New England Farmer.

LABOR OF BEES IN HIVES.

"I have a suggestion to make respecting bee- gives its honey to another, or discharges it into hives on Mr. Quinby's plan. I like the leading the first convenient cell at hand, and afterwards idea of his plan, but not the application of it. In it is removed to the boxes or some other part of his hives the bees are obliged to store all their the hive away from the entrance. The result of surplus honey in boxes placed on the top of the hive, and they must climb up to get to the boxes. above theory. I have had hives twenty-two inches Instead of placing boxes on the top, why not in height, and others only ten; on account of have a small hive, or large box, to set by the this difference in shape, I could discover no difside of the hive, and when it is full, open a com- ference in the result in the boxes. Hence our munication between the two, and allow the bees laudable attempts to assist our bees by placing to store their surplus honey in it just as Mr. boxes near the entrance, to save the labor of Quinby has his stored in boxes on the top?"

giving another honey. Also, one that brings pollen, finds a cell suitable to receive it, and then thrusts in its legs, and discharges its load, consisting of the round pellets, and leaves without further care. Another bee, probably a nurse, soon comes along and packs it close in the bottom. A great many gatherers bring in both honey and pollen. The latter is seldom stored in the went to the boxes to discharge a part of its load, | dairyman. why not all?

A glass hive that was apparently full throughout with brood and honey, had boxes put on the top to receive the surplus. Before they had constructed much comb in them, the bees would deposit honey on the surface of a comb, containing glass vessel of water, will produce no sediment, a brood of drones, in the hive! The convex covering of these cells made cavities between, sufficient to keep it in place—the next morning, it would be all removed, probably to the boxes, as the bees were constructing combs there. It is glass at evening, and next morning, find them it will cost nearly double that amount.

termed a perfect observatory hive in operation. It was nearly five feet high, two and a half feet containing just one comb in thickness, and had boxes on the top of it. Whenever the yield of

From the foregoing, I shall suppose till we get further light, that the bees which go about after the honey, have but very little to do at home in In the Farmer of January 1st, "Progress" says, when a loaded bee enters the hive, it either

"Progress" is not the first man that has suggested this idea. To those who can look only at the "Progress," I would say that a little experience surface of things, it does really appear as if the will indicate the best place to obtain surplus bees had needless trouble to reach the boxes on honey. For myself, I have always found that the the top. There are many things about bees that bees must be crowded for room in every other work much better in theory than in practice, and place, before they will store much at the side. I suspect that we know but very little about their It would appear as if they thought it less safe manner of operations, and are often in error in from robbers than at the top. It is quite comour endeavors to assist them. I would, however, mon to have boxes on the top filled and ready to suggest to "Progress," that it is possible, yes, more than possible, that the bees which gather and I never had any at the side, ready to take the honey, are not the ones that store much in away, short of five or six weeks. In fact, I never the boxes. This seems to be indicated by what had any so well filled here, as at the top. For we can see when watching them in a glass hive. the last few years, I do not take the trouble to For instance, one bee can frequently be seen give the bees a side box, as long as all of them can be profitably employed elsewhere.

St. Johnsville, N. Y. M. QUINBY.

For the New England Farmer.

DAIRY SALT.

I do not recollect seeing published the followboxes on the top, but kept in the hive where the ing method of preparing dairy salt. Perhaps it brood is raised. Consequently, hive honey is is too well known to merit it. It was introduced not as pure as that from box or cap. If a bee to me as being practiced by an experienced Scotch

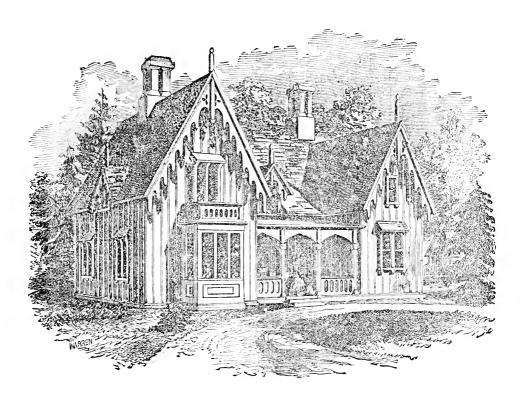
Take the best crystal salt, wash it, dissolve, strain, settle and turn off; boil it down in some perfectly clean iron vessel, skim as boiling; when stirred off dry, it will produce fine salt, white as the drifting snow, which if stirred up in a and will be distinct from any mineral or other possible impurity.

Salt is offered in the country markets for from one and one-fourth to one and one-half cents per pound, which looks like the model of perfectquite common to see honey in the cells next the ness. After the above method of manufacture

For two years past we have manufactured salt For several years, I have had what might be in this way for the produce of about three tons of butter each year.

Having this year increased our dairy, we have wide, and one and three-fourths inches thick; procured coarse salt for another trial of the same. S. P. Joslyn.

Waitsfield, Vt., March 17, 1859.

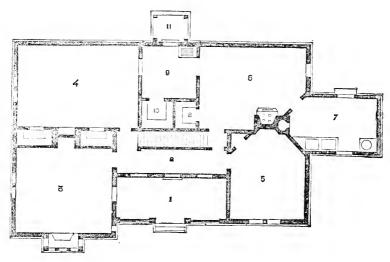


DASIGN FOR A COUNTRY RESIDENCE.

We are happy to present the reader to-day, estate is measured by the acre, we think the acwith what appears to us a beautiful design for a companying a very appropriate design. country residence. It is from the pencil of Mr. fer a dwelling, the leading features of which are of the rural gothic style, characterized by the G. E. HARNEY, a young artist of great promise, verge-boards, pointed arches of the veranda and of Lynn, in this State. We have rarely seen porch, lattice-windows and the general prevalence sketches so truthful and life-like,-truthful, be- of modified gothic features. cause they are life-like,—and so animated, if we may be allowed the license, as several we have been permitted to look at from his pencil. We have under these, leading to the cellar. Opening employed the best engraver to second his efforts, from the hall, No. 3, is the parlor, 15 feet by 16, and believe the result will prove acceptable to in the front of which is a bay-window, which every person of taste. We will indulge in a sin- may be furnished with a cushioned seat. No. 4, gle remark, only, in connection with this subject, closet on each side of the chimney-breast, and and that is this: You may expend a given sum communicating by means of the pantry, No. 9, of money in building your house, and produce with the kitchen, No. 6. The pantry is to be an awkward, uncouth and inconvenient dwelling, furnished with shelves and sink, contains a storeor, with the same cost, have one that shall be attractive, tasteful, and every way convenient. If The kitchen is 14 feet by 18. No. 7, is a oneyou are not acquainted with the subject—as it story addition, 9 feet by 15, containing a washis hardly expected many will be-you have only room, fitted with a boiler and stationary tubs. to apply to some competent designer and archi- A door opens from this room to the yard. No. tect for the proper suggestions. The latter course it is 13 feet by 15. The second story contains is always cheapest in the end.

cwner is not restricted to a four rod lot, but whose story, 10 feet; do. of second, 82 feet.

four good sized chambers, besides dressing-For a situation away from the city, where the rooms, closets, a bathroom, &c. Height of first



GROUND PLAN OF THE DESIGN.

if desired. Cost from \$2800 to \$3000.

For the New England Farmer.

TARRING SEED CORN.

rience of forty-three years he is satisfied that well smeared with tar. When you stop stirring, crows and birds may be permitted to range the the corn will crawl together like a pail of small fields at will, and that tarring seed corn, if it is live crabs. Then take your plaster and scatter corn by crows so that no 'scare-crows' need be plaster, and the corn is ready for planting. used in the fields at all."

worm.

Probably, of all the farmers that have tried up in good time, if the seed is good. "tarring seed" in the past fifteen years, not onethird now continue the practice. One farmer tried the tar and he got on so much that the corn would not come up. Another farmer poured plant it, &c. Mr. Mansfield has not given us which cured him. his plan of preparing seed corn in this way for planting. But you have given yours, and your neighbor's plan, which seems to me a very good way.

plan of preparing seed corn for planting in sev-lime, until the rust disappears.

Construction.—This is a frame house. The out- eral agricultural journals. But it may be worth side covering to be vertical weather-hoarding, of repeating. First put the seed corn to soak for uniform width; the joints to be tongued and twelve or twenty-four hours, in water, previous grooved and covered with battens. The verge- to planting. If you have some saltpetre handy, boards, window and door-trimmings, and other dissolve half a pound in warm water and turn to ornamental details, to be sawn from 34 inch plank. the corn in soak. Then take out a peck of this The interior is to be plain finished in the two prin-swelled corn, put it into an old half bushel meascipal stories, and the attic may be left unfinished, ure or small tub; raise up the corn round the measure in form of a tunnel; then take a gill of G. E. H. tar, (pitch tar is the best, though coal tar will answer.) put it into a half-new tin pan, pour on water enough to cover the tar and then set the pan over a furnace. When it boils, stir the tar and water until it has become entirely dissolved MR. BROWN:-Mr. R. MANSFIELD, in the in the water. Then pour it on hot to the corn, Farmer for April 23d, says "that after an expe- and stir it well until all the corn has become done correctly, will prevent the destruction of it on, stirring it till every kernel is coated with

Of course, it is understood by farmers that After twenty years' experience, I can bear tes- the seed corn after this preparation must be kept mony also, that Mr. Mansfield, on this point, is moist in the field. If the seed is allowed to get substantially correct; and also, that the "tarring dry and parched for any length of time in the of the seed corn" is a pretty safe remedy against sun, it will not germinate, and must not be plant-the ravages of the cut worm, grub and wire ed. When seed corn is treated after this plan no farmer need fear but that his corn will come

> Derby, Ct., 1859. L. Durand.

HYDROPHOBIA.—A man was cured of hydrostiff tar among his seed corn, and tried to stir it phobia in Italy lately, by swallowing vinegar, in up; some of it was tarred, but a good deal more mistake for a medicinal potion. A physician at was not, and the crows pulled it just as fast as Padua heard of this, and tried the remedy on a they could get to it. A third farmer said that patient; he gave him a pint of vinegar in the the tar stuck so to his hand that he could not morning, another at noon, and a third at sunset,

TO TAKE RUST OUT OF STEEL .- Cover the steel with sweet-oil, well rubbed on. In forty-During the past twelve years I have given a eight hours, rub with finely powdered, unslaked

For the New England Farmer.

REVIEW OF THE SEASON.

MR. EDITOR:—With a view of keeping the readers of the Farmer posted up on the changes and fluctuations of the season, I send the results of my record of the weather for the last six months, giving an account of the principal elements which have governed the seasons during that time. The amount of snow and rain has been small, yet the ground for the greater part of the time, from December to March, has been mostly coated with ice, so that we have had an ordinary amount of tolerable sleighing, while the amount of snow which continued on the ground has not exceeded three or four inches, more than a few days at a time, yet by thawing and freezing, it has formed ice of a more permanent character. We have had no severe snow storms, and but a few days of extreme cold weather.

October had a mean temperature of 47.54°, which was only .68° above the mean of the past six years, and was the warmest October since 1854. Rain fell on 15 days, and its whole amount was 3.58 inches, but no snow fell during the month. We had two thunder storms, one on the 23d, with heavy thunder in north-west, from three to six, P. M.; had a light shower at six o'clock. On the 30th at eight o'clock, P. M., thunder was heard in north-west, and in a few minutes rain began to fall, and soon increased to a heavy shower, when the thunder was not heard for some time, but at 40 minutes past eight o'clock, there was a sudden heavy peal of crackling thunder, which probably struck at no great distance. After this, rolling thunder continued in south-east, till about 20 minutes past nine. There was an aurora of considerable brightness between eight and nine o'clock on the evening of the 27th, consisting of bright arch, rays, streamers, and beautiful corruscations.

November had a temperature of 30.37°, which was 5.62° colder than the mean, and colder than any of the six preceding years. Rain and snow fell on 13 days. The total amount of rain and melted snow was 2.64 inches. Amount of snow 8½ inches. Winter commenced with a snow storm on the 23d and 24th, when the depth of snow was 5½ inches. The total amount of snow for the month was 81 inches. The mountains were covered with snow on the fourth, and on the seventh the first snow fell on the low lands. On the 22d, there was a cold fog, or in other words, a storm cloud rested on the earth, and as the cold increased in consequence of the north-west wind, frost gathered in beautiful crystals, on the northwest side of twigs of trees and other objects, showing the beautiful process of the formation of the snow-flake.

amount of rain was 2.81 inches, and of snow 141. The most remarkable feature of the month was the three cold days, 9th, 10th and 11th, being the coldest days of the whole winter. The mercury on the 10th stood at -27° at 7, A. M., -20° at 2, P.M., and -24° at nine, P.M., making a mean of 23.66° below zero during the day, which is about 4° colder than the coldest day within six years. Aside from these three days and the following morning, the mercury did not sink below zero during the month.

February had a mean temperature of 23.64°, which was 4.63° above the average of the past six years, but was 3.42° colder than 1857. The mercury sunk only twice below zero during the month. Rain and snow fell on eight days, and snow on six. The whole amount of rain and melted snow was 1.39 inches, and of snow 143. There was an aurora of considerable brightness on the 22d, which began between six and seven, P. M., and became obscured by clouds a little before eight o'clock. It was a diffuse light without rays or streamers, with a bright red border in the north-west.

March has been the mildest month of the same name during the past six years. Its temperature was 34.31°, which was 7.79 warmer than the mean of the six. Rain fell on sixteen days, and snow on three. The amount of rain was 3.95 inches, and of snow 31. The ice disappeared in Otter Creek on the 15th, and the flood was highest on the 20th. The birds arrived a few days earlier than usual, and uttered their cheerful notes as the harbingers of spring. Although March leaves the earth bare of vegetation, yet the buds are swollen, and the signs of the time indicate an early spring.

The amount of water which has fallen during the past six months is 16.95 inches, and of snow 48.37 inches. The two wettest months were October and March, while the most snow fell in January and February.

Although the prosperity of the farmer does not depend upon the conditions of the past six months to a great extent, yet there are some things worth recording, while to the man of science, all seasons are alike interesting, for he wants to study the laws of elementary disturbance, and gain a knowledge of those eternal principles, which produce change in the earth and in the elements around it. D. Buckland.

Brandon, Vt., April 4, 1859.

For the New England Farmer.

THE WAY TO DESTROY CANADA THISTLES.

In meadows, cut them about the 20th of August, or after they have gone to seed. At that December had a temperature of 21.02°, which time, the top has drawn from the roots so much is 1.37° below the mean. There were two eve- for its support, that it leaves the root almost exnings and two mornings when the mercury stood hausted, and would die were it not for the shelbelow zero; the lowest was 11° below, on the ter and protection which the top affords against morning of the 25th. Rain and snow fell on 13 the fall rains. At this stage of the thistle, you days, and snow on five days. The whole amount will find that the stalk near its roots, and a part of rain and melted snow was 2.38 inches, and the of the roots are hollow, and I infer that the wet amount of snow 72. There was a large amount getting into it, is what kills it. It is all folly to of frozen rain, and rain and snow together.

January, 1859, had a temperature of 21.03°, being 4.51° above the mean. Rain and snow fell full grown. I have found that cutting the tops on thirteen days, and snow on seven. The whole of young thistles, with the scythe, or hoe, serves only to produce more and larger roots with young plowing, when they are often turned up, both in thistles, which are the first year's growth from the seed. But two years mowing, when in seed, will meet them. make a final end of them. If in meadows, cut that have berries on them will die.

West Berkshire, Vt., Feb. 12, 1859.

For the New England Farmer.

THE MAY OR DOR BUG.

(PHYLLOPHAGA QUERCINA.)

This well-known insect is generally disliked on account of its form and color, and because it is accustomed to trouble us in summer evenings by flying into our rooms, and buzzing around in its noisy flight, often tumbling down upon the becupants of said rooms, much to their disgust. But these are nothing to the real reasons we have sou ce of much harm to the farmer; and in order that your readers may recognize their enemies, I send you the following description.

These insects pass through four states before arriving at maturity; namely, the egg, the larva or grub, the pupa or chrysalis, and the imago or beetle. In the egg and pupa state they are with-them into hot water. out motion, and consequently harmless, but in the larva and beetle state they do considerable harm.

The grubs (which are often confounded with the muck worms which live in manure,) are of a part of their body is dark; they are about an Baltimore, states that 300 bushels per acre may inch long, and one-third or more of an inch thick, va state three or four years, and at the end of the our dry, hot summers, we can raise them in New third or fourth summer, according to Dr. Harris, England without difficulty. they penetrate the earth to the distance of about

upon small roots beneath the soil, and thus they pieces of the potato. subsist for three or four years, doing an immense amount of damage when very numerous; for in-ground having been well prepared, is laid off in stance, sometimes they will undermine meadows furrows three and a half feet apart. Well made so that the turf may be rolled up as if cut with compost of stable manure, yard scrapings, &c., is a spade. In the beetle state they feed upon the thrown into the drill, and furrows thrown over it foliage of trees, often doing considerable dam- from each side, making a ridge, the top of which age, but as they live only a short time in this is then levelled off with the hoe. The holes in state, they cannot commit such depredations as which the plants are to be inserted are made fifthey do in the larva state.

plish a great deal by killing all we meet with in lows to plant them. The young plants are kept

The best way to kill them is to crush them unsweet elders when they are in bearing, and all der foot, or if there are many of them, by throwing them into boiling water, after which they may be given to the hens for food; where they abound they can be collected by shaking the trees on which they feed after spreading a sheet underneath to catch them; this method should be used in the daytime, while the beetles are asleep, for otherwise they will fly off to another tree; but they rarely abound in sufficient numbers for this method, so that the others will answer very well if practiced universally.

CARLETON A. SHURTLEFF.

Brookline, Mass., 1859.

REMARKS.—We have had young cherry, mounfor destroying these insects, for they are the tain ash, and even elm trees, completely stript by these beetles. They are numerous early in June, and quite destructive. Our mode to destroy them has been to spread a sheet under the trees in the evening, after dark, and jar them on to it, and then gather them up quickly and put

THE SWEET POTATO CROP.

The writer of the following article, which we dirty white color; the head is brown and the hind copy from the American Farmer, published at be obtained when the crop is well managed. In

Five bushels of small potatoes are required to two feet, where they change into pupa and remain over winter. In May these beetles burst are bedded as early in the season as the weather their pupa skin and come forth in their perfect will permit, in the following manner. Raise the state; they are then about seven-eighths of an beds—which should be not over six feet in width inch long, of a mahogany color, with their shells -some inches-by throwing surface earth upon punctured as if slightly pricked with a pin, their it, and mix in good compost of stable manure. antenna are divided at the end into three leaves, Lay down the potatoes upon this bed, side by and like the legs and under side of the body, are side, and close enough to touch, and cover them lighter colored than the wing covers; between the hind and middle pairs of legs the body is covered with yellow hair.

with three or four inches of compost, and several inches of earth upon that. In due time there will be abundant plantings. This method is con-As soon as they are hatched they begin to feed sidered much better than the old plan of planting

When the plants are fit to be drawn out, the teen inches apart; for this purpose a pointed From the foregoing, I think it will be seen stick is used, near the end of which through an that we ought to free ourselves as much as pos- augur hole a piece fifteen inches long is inserted sible from these troublesome insec's; the way in at right angles, which answers the purpose both which we can accomplish this best, is by cherish- of regulating the depth of the hole to be made, ing the birds which feed upon them; and I would and of marking by the impression of the crosssay that it would be more profitable for the farm- piece on the ground the distance of the next hole. er to protect his corn than to kill the crow, be- A little practice renders a hand expert in thus cause they destroy an immense number of these marking the ground. The plants are dropped and other noxious insects; we can also accom- according to the marks, and another hand fol-

clear of grass by the hoe, and between the rows, OLD APPLE TREES-GRASS SEED-CRANBERRIES as soon as the grass starts, the bar side of the plow is run as near as possible, throwing the earth away from the ridge; in the next working it is thrown back, leaving the ridge about what it was in the beginning. During this working, vin? the vines are laid along the ridges by hand, to avoid their being covered, and returned after the work is done. It is important that grass be kept the early season of their growth.

When the erop is not consumed upon the ground, it is harvested by chopping the vine off at the surface with the hoe, and running the bar of the plow as near as it may be done without bushel for agricultural purposes? cutting or bruising them, on each side of the potatoes, when they may be easily drawn out.

They are preserved in cellars, or out of doors in kilns. The method of fixing them is to raise ing natural fruit may be grafted profitably. the ground a few inches, where they are to be placed, and cover with pine shatters to the depth of six inches or more. The potatoes are laid upon these, and piled in the usual way, as many as fifty or sixty bushels. These are then covered herds-grass, with six pounds of clover sowed on with a thick covering of pine shatters, boards the snow in the last of March or in April, is laid upon them, and earth to the depth of six inches, to be increased when cold weather comes on.

EXTRACTS AND REPLIES.

HYDRAULIC RAM.

Mr. Editor:-I am pleased to see the hya stock farm, that can possibly be introducedwherever one can be made to operate. I know a farm near me, (known as the Pickman farm.) on which one was placed, a few years since, with a fall of thirteen feet only, and water has been conveyed by it for the supply of a stock of more April or early May — we have the supply of a stock of more and than 60 head of cattle, for a distance of 2500 feet. The original cost of the ram and pipe did not exceed \$200—and the annual charge of repairs has not exceeded \$10. If any one can find a better good investment for your money. mode of watering cattle, I should like to know it. When it is considered that the water is constantly conveyed to any part of the buildings or yard, where wanted, without any crowding of the animals or loss of manure, I think those who are accustomed to tend upon cattle will perceive the advantages of this mode of watering.

HOW TO HULL CORN.

sily; rinse it well in cold water, and put it on the time? fire again, and boil it until it is soft enough for

West Mansfield, 4 Mo. 13.

KICKING COWS.

I have noticed something about kicking cows in your paper. Hang a common draft chain over the back of the cow, just forward of the hips, when you go to milk, and I think you will have no more trouble. ISAAC P. GREENLEAF.

Groton, N. II., 1859.

-ASHES.

- 1. Can large old trees be made to produce more fruit by grafting?
- 2. Is there any permanent cure for bone spa-
- 3. How much grass seed does it require to sow an aere of land?
- 4. Does not sowing oats or wheat with grass from about the plants by careful working during seed exhaust the land and consequently diminish the quantity of hay?
 - 5. When is the best time to set cranberry vines?
 - 6. Will it pay to buy dry ashes at 20 cents a

New Bedford, 4 Mo. 4. SUBSCRIBER.

REMARKS .-- 1. Sound old apple trees produc-

- 2. Consult Dr. G. H. Dadd, Boston.
- 3. If the land is rich, less; if the land is poor, more. One bushel of red-top and eight quarts of what we use. Some of our neighbors use more, and some less.
- 4. Wheat and oats, of course, exhaust the soil. To succeed well, sow six or eight pecks of oats per acre instead of twelve, as is usually the case; they will then tend to shade and protect the draulic ram so conspicuously presented in your young grass instead of crowding it out. It is paper of the 16th inst. It strikes me as one of also safe to sow a bushel of wheat per acre when the most useful and convenient appendages, upon seeding down land, and if the crop proves a heavy one, top dress the land as soon as the wheat crop is taken off, and the grass will be
 - 5. A good time to set cranberry plants is in April or early May-whether it is the best time or not, we do not know.
 - 6. Twenty cents a bushel for pure ashes is a

CATTLE EATING BOARDS AND BONES.

Can you inform me what makes my cattle eat old boards and bones? I cannot have a board fence around my yard, but what some of the cattle will be gnawing it; they seem to have a sort of hankering after something of that sort all the time. Is there not some disease about them that causes it, or are there some proper-Put one quart of corn into cold water, and add ties wanting in their food-which is principally two large tea-spoonfuls of saleratus; put it on hay cut on old land? Would it be beneficial to the fire, and boil it until the hull will rub off ea- give them bone meal-and if so, how much at a A VERMONT SUBSCRIBER.

> Remarks.-A little bag of bone meal that will cost about seventy-five cents, fed to your eattle just as much as they will eat, will probably cure their propensity for chewing old bones or eating your board fences. Nourse & Co., 34 Merchants Row, Boston, keep it for sale.

> A. A. Austin, Enfield, N. H., is referred to a capital little work, Eastwood on the Culture of the Cramberry, for the information he desires.

LICE ON TREES-LAWTON BLACKBERRY-CRAN-BERRIES ON HIGHLAND.

it has bred lice so freely, that some of the trees sprinkled among the hair, on those parts of the are covered with them. They cover not only animal most liable to be infested with liee, will the larger limbs, but the smallest twigs. What effect a cure. Also, mix sulphur with salt for is the best method of getting rid of them with your stock to eat. The above method I tried last out injury to the trees !

Are you acquainted with the Lawton Blackberry? Is it a good bearer and easily cultivated, and where can it be obtained, and at what price?

Have you ever seen the cranberry cultivated on high dry soil, and if so, with what success? Greenland, N. H., 1859. E. Johnson.

Remarks.—Take soft soap and soft water of the consistency of thick cream, and scrub the tree with an old brush to get off the scaly aphis -but be careful not to rub carelessly or too hard. and what is the best mode of slaking it? Then cultivate well, and keep the trees moderately growing.

fruit where the season is long enough to perfect is sown, and harrow in both at the same time. it. It does not ripen well in this region.

Better not cultivate cranberries on high land —it is not their natural place. We have done it, and succeeded, but not at a profit.

POULTRY.

to get the pure Black Spanish fowls or Bolton ted in summer. Greys? They are not as good as some others—at any rate no better. The best hens living are a mixed breed, say a small part China—Dorkings, Polands, Bolton Greys, and the old native breed. all mixed together; then keep a small rooster, if any. I have tried doing without a rooster, and ago, my father had a kind of potato we called the think it rather the best way, if your object is eggs. But on no account keep a large rooster. If you wish to raise chiekens for the table or market, get the half-blood yellow-legged China, and the yellow-legged Dorking; have the color mostly white. If you want to have your hens do well and lay well keep a small rooster, or none at all. Keep them in a warm room in the win. at all. Keep them in a warm room in the winter, well lighted and ventilated; feed them all a large, nice hen dead, don't have your roost in flour, and mould it as soft as it will roll on a more than four feet high, and then have two board; cut it in small cakes and fry them. shelves for them to go up and down on. In this way if they have a plenty of burned bones, pounded crockery, lime, &c., they will pay.

Plainfield, Mass., 1859. GEO. VINING.

INDIA RUBBER RINGS.

able paper, that India rubber rings had been in- meal a day. She is eight years old, has had six vented, and proved successful to prevent cows calves, and has only been dry four months for leaking their milk. Will you please write me six years. where they may be obtained, and at what cost? Roswell Underwood.

Enfield, April, 1859.

where the rings may be procured.

HOW TO KILL LICE ON YOUNG STOCK.

In answer to the inquiry of your "Milford I have a young orchard, and through neglect Subscriber," I would say that pulverized sulphur winter, and it proved to be an excellent, cheap and simple remedy. L. G. Brown.

Lyndeborough, N. H., 1859.

N. B. Salt and sulphur mixed together and occasionally given to cattle to eat will prevent them from becoming lousy when they are free from lice.

LIME ON WHEAT LAND.

When is the best time to sow lime on wheat,

Huntington, Vt., April 18, 1859.

Remarks.—Slake the lime with water as is The Lawton Blackberry is undoubtedly a fine done for making mortar. Sow it after the wheat

AN IMPROVEMENT IN RAISING STOCK.

Mr. Elon Robinson, of Calais, Vt., has a half blood red Durham bull calf, weighed 1520 lbs. the day he was two years old; girts 6 feet 10 inches; kept on sour skim milk and whey the first summer, and common ordinary keeping since; To Mr. B. G. O., of N. H.-Why do you wish kept in warm stable in winter, and well ventila-DURHAM.

Calais, March 27, 1859.

LONG RED POTATOES.

When I was young, say forty-five or fifty years any. I have tried doing without a rooster, and ago, my father had a kind of potato we called the

RECEIPT FOR MAKING DOUGHNUTS.

they will eat on Indian meal made into pudding. One cup of sugar, one cup of sweet milk, one buckwheat, corn and boiled potatoes; some meat egg, one tea-spoonful cream of tartar; add half and some sulphur. Sulphur I feed to nearly all a tea-spoonful of saleratus and two table-spooncreatures. If you don't wish to find now and then fuls of shortening; salt pork fat is the best; stir

A FINE COW.

ELIJAH HERRICK, Esq., of West Milton, Vt., has a cow of native breed who yields him two pounds and seven ounces of butter from one day's I saw a notice some time ago, in your valua- milk-fed on good hay and three quarts of cob-A FARMER.

BARNS.

It is impossible for us to make any useful sug-REMARKS.—We are not able to inform you gestions to "J. P., North Sutton, N. H.," in relation to his barn, without being on the spot.

For the New England Farmer.

APPLES --- WHEAT --- PEARS.

a small town out here among the hills and mountains, called Lyndeborough. On the eastern fulfillment. boundary of the town we have a romantic spot called Purgatory. Hundreds of people visit the short distance from this place, can be seen a lit- year, with never so good crops. Property is very tle old house, a good barn, and as thrifty an greatly depreciated; and those who are in debt, orchard as can be found in these parts, accord- are in a sad ease. ing to the care and attention which it has rethese parts, call, and you shall be welcomed and shown the wonders and curiosities of Purgatory. At some future time, I will, with your permission, furnish you with a written history of this Purgatory of the woods. We have as good farms profit to the husbandman.

Two facts: Mr. Holt shows by figures, that his raised, last season, 30 pears, on a small tree which was seven years from the seed. The 30 pears weighed 25 lbs. The soil and climate are peculiarly adapted to raising corn, wheat and other English grain, vegetables and fruit, especially the apple. Of the apple, over \$1000 worth last fall were sent to market from this town. Farmers are waking up and taking hold of the business of fruit culture in earnest. They are renovating their old orchards and setting out a large number of small trees. Many have set out, during the past ten years from 10 to 300 young apple trees. A few cry out, "you will glut the identical with the St. Michael; the Boussock is sale." Such do not stop to consider how small enne Gris, all I can say is, that this fruit remained a portion of the world they themselves inhabit, fair with me for many years, while the St. Miand that they live on a soil that is well adapted chael, particularly upon the pear root, cracked keeping qualities, beauty of form and high flavor. the footsteps of their grandfathers, and year afconvert it into cider-not realizing, that if their scarcely anything as to the importance of soil for Lyndeborough, N. H., 1859. L. G. Brown.

For the New England Farmer.

THE SEASON IN IOWA.

ever known in Iowa. A gentleman lately told Iowa, and that there had been more rain during ing well throughout the country. the last, than in all the others together, except March, 1858, which was also wet. It continues to rain and snow in April, thus far, as much as in March. The ground is perfectly saturated.

The farmers are, of course, sorely tried. There has been no suitable time to sow their wheat, or prepare the ground, which is generally done in Mr. Editor:-Doubtless you have heard of February and March. But there is a glorious promise on record, and time enough yet for its

The accounts of returning prosperity at the East do not help us any, at present; except to place yearly, and they make the hills and woods encourage the hope that it may reach us, someresound with shouts both loud and clear. A time. We do not look for entire relief in one

Many are joining the insane caravan for Pike's ceived. This latter place is the rural home of your humble servant. If ever you come into days. Good will come no doubt, of this movedays. Good will come, no doubt, of this movement, in the future; but at what cost? Suffering and disappointment to nine-tenths of those who go expecting to get rich and happy!

Your readers will think that I love to write in a lugubrious strain. I don't; but I am bound to and farmers as are to be found in any section of tell the truth. Perhaps the whole truth would rethe State. The soil is hard and rocky, but when quire me to add, which I do very cheerfully and subdued by the laborer's arm, it affords a large thankfully, that this is a rich and glorious country, after all. We have remarkable health; and if we only had a few more of your conveniences, and a profit per acre on wheat is \$35,33. He also few more right, honest, industrious and Christian people, we should be about as well off as this mundane sphere will admit. M. K. C.

Tipton, Iowa, April 14, 1859.

For the New England Farmer.

DOYENNE PEAR.

In a criticism on Col. Wilder's list of pears, the writer, I apprehend, is mistaken in considering the Doyenne Gris and the Boussock to be market—apples will not be worth raising—no an entirely distinct variety; and as for the Doyto growing fruit which is remarkable for its long and blasted. At this time my neighbor Manning commended the Doyenne Gris as the best substi-A few farmers here are contined to follow in tute for the St. Michael. In a recent article which I forwarded for the Farmer, I remarked ter year, gather natural fruit from their trees and that Rogers is the only writer who has given us trees were grafted and well taken care of, they the various kinds of pears. I would say, farther, would yield them ten-fold more profit than now, that from the "New England Book of Fruits," which I published some years since in connection with Mr. Manning, down to the recent work by Field, there has been but little on this desideratum of soil, for with the exception of the Bartlett, there are few varieties, if any, that fruit equally well in all good soils. It is remarkable how the This has been the wettest winter and spring Bartlett will assimilate itself to almost all soils and localities; more so than almost any other me that he had seen twenty-two Marches in fruit, not excepting the apple. I hear of its fruit-J. M. I.

Salem, Mass., April, 1859.

Hogs in Ohio.—We learn from an exchange From six inches to three feet of water in almost that the number of hogs in Ohio, six months old everybody's cellar. Scarce a blade of grass, or and over, on the first day of April. 1858, were other green thing, ventures to show itself. Last 2,554,914. In 1857, there were 2,333,778, thus night it cleared off with a very strong and cold showing an increase of 223,136 in the year. This wind, and we awoke with frost on our windows. prosperity should make that State bristle up.

For the New England Farmer.

DOUBTFUL ITEMS IN CULTURE.

In one of our fruit books we find the following: "Seedlings may be brought into early bearing by grafting into bearing trees, and some varieties, that are twelve to fifteen years in bearing naturally, can be made to bear in a few years by this process."

I tried this "process," a few years since, by placing some 10 or 12 scions from as many threeyear-old seedling stocks upon a dwarf pear tree. I watched these, from year to year, as they grew, for six years; the scions grew well, but showed no appearance of flowering, and hence I felt rather doubtful that this would necessarily hasten its bearing. On the spring opening, seven years from the operation, I was sadly disappointed in finding the tree dead, root, and branch.

The same writer says:—"Foreign, and other tender kinds, may be made more hardy, or acclimated, by grafting into hardy, native stocks." This acclimation, as it has been called, induced the above writer to recommend raising peach trees, "from the stone here, as being more hardy, than if raised in New Jersey, or any warm cli-I never observed the least difference between those raised in Jersey and from seed here. I once fruited about three hundred peach trees from seed, and about the same time received one hundred and fifty budded trees from Hancock, N. J., and never, in after years, could see any possible difference in the hardiness of the former over the latter. In a conversation with the late Robert Manning on this subject, I found him decidedly of my opinion in this matter, remarking that his finest bearing peach trees were originally from the South.

Another extract:—"A fruit may be raised on a soil not congenial to it, by grafting into a stock adapted to such soil." This I consider at least doubtful; I have, however, never known this to have been tried. If any of your readers are able to enlighten me in this matter, I should like to hear from them.

Still another: - "By cutting off all the blossoms one of our most experienced cultivators tried this on the cobs, well seasoned with oats. Of this method most effectually in the garden of his emixture they have a peck each day. ployer, without success. I have never, as yet, eard of this being done successfully.

Salem, Mass., 1859. J. M. I.

For the New England Farmer.

NEW WAY OF SALTING CATTLE.

FRIEND BROWN:-Last fall I adopted a new method for salting my cattle, and am so well pleased with it that I am induced to make it known, so that others may adopt it if they like. where the cattle can go and lick at their leisure. no wether's fleeces—averaged 5.60 pounds. My stock consists of one pair of oxen, six cows, and two calves. They work upon it almost every day, and in seven months have used about onethird part of it. I think this plan has the advan-

1st. It is always by them.

2d. It is not so liable to be wasted.

3d. It is not so much care and trouble to give it to them.

The salt may be obtained of B. Thatcher & Co., No. 184 State Street, formerly 15 Long Wharf, Boston, at one cent per lb. B. F. CUTTER.

Pelham, N. II., 1859.

For the New England Farmer.

HOW I BUY, KEEP AND SELL OXEN.

Mr. Editor:—I see by your paper that you publish the weight of some of our largest hogs, and likewise our big cattle; but you do not tell how it is done, whether on corn or pumpkins. I thought some of your readers might like to know the difference in price between working oxen and when they are fit to go to Brighton.

I will tell you the course pursued by me the past thirty years. I raise all my cows and buy all my oxen. I want them six years old and to weigh thirty hundred when bought. I weigh them when I buy, and before selling, to know something what they are worth. I will give the price paid and received, and the number of years kept.

Cost.	Time kept.	Sold at
\$ 72 00	6 years	\$115,00
70,00		95,00
105,00	5 "	98,00
85,00		112,00
80 00	3 "	110,00
90.00	1 "	105,00
95,00		110,00
75.00		110 00
50,00		170.00
	3 years	
160,00 150.00		
170,00		
\$1492,00		\$1906.00 1492.00
		\$414,00

During that time the oxen have been the only team for farm work. I keep no horse. lowing is the manner I feed: The latter part of summer they have green corn fodder. During in the bearing year of the apple, it will change the winter a bushel of turnips once or twice a the year of its bearing." I find that most of our week, according to the quantity raised. From Baldwin apple trees bear in the even year, so the 1st of March meal ground from corn and called, and in order to change this to the odd year, cobs, two bushels of cobs and one bushel of corn

> No. 10 I kept only twelve weeks and the pair gained 50 pounds per week on two bushels of turnips and one-half bushel of meal a day. They were not worked. I do not feed any meal without mixing with cut hay, roots and chaff, and should think it up-hill work to feed without roots, any way. My cows are fed with mangel wurtzels throughout the winter and spring, to which is

added a little meal.

I send you some samples of Merino wool. My sheep, twenty years ago, did not shear four lbs. I bought a jump of the mineral salt, weighing a head, with good care and no roots. My last 82 los., and put it in a dry place in my cow yard. sale of twelve hundred pounds-and there were

GEORGE DEWEY.

Hanover, N. H., April 15th, 1859.

REMARKS .- Thank you, Sir. This is the kind tage over the old one, in at least three ways, viz.: of information we want; it is tangible; if you

told them how you do it. A pound and a half, erwise award it in their discretion. and a little more gain, in the fleece throughout a sent us is very beautiful.

GRAPE PREMIUM OF \$100!

We have often given the subject of grape culture considerable prominence in our columns, for several reasons; because we believe our people may use more fruit, as diet, and less meat,-because good varieties of well-ripened grapes are nutritious and healthful,-because from them may be obtained the finest wines for sick or infirm persons,-and because they are indigenous to our soils, natural to the climate, and may be produced cheaply in large quantities. We might add farther-and it is no inconsiderable consideration-that the homestead will be much more vines should not be trimmed in spring. The valuable in the market, if it becomes necessary proper time is November, and in our locality to place it there, and its occupants will be wiser, about the 25th. By trimming at that season we happier and better persons, where fruitful grape get rid of a large amount of surface for continvines are judiciously disposed over it, climbing which is increased by winds passing over the sura tree here, or hanging on a trellis there, or cov- faces of a larger amount of the vine; the ends ering a portion of the dwelling itself, and giving where the cutting occurs are sure not to bleed the whole an air of neatness and repose which when the growth commences; they may then be agreeable attractions to the young.

that will encourage the cultivation of a plant so cuttings may be cut up in an ordinary straw cutornamental, and whose fruit is of so much im- ter and buried in the ground around the vines, portance.

a letter from Mr. CHARLES H. DANA, of West iment that the same amount of inorganic mate-Lebanon, N. H., who informs us that he places rial, or indeed of inorganic or organic material at the disposal of the New Hampshire State Agricultural Society one hundred dollars to be lower sources in nature, will not produce the awarded to the person who will present the best same amount of fruit as when derived from the kind of grape for garden or vineyard culture in decayed cuttings themselves in the soil. Here this climate. That the committee may be able each constituent has assumed a form, and as a to judge correctly of the merits of each kind presented, they should be planted in the same that the same amount of potash and the same locality, and receive the same cultivation. Mr. amount of phosphates contained in a hundred Dana proposes to conduct such an experiment pounds of these grape cuttings, will not produce himself by planting and cultivating all the kinds one-tenth of the effect when applied to the vine offered for this premium. New or rare kinds of grapes, sent to Mr. Dana free of expense to him, phosphates and potash may increase the growth will be entered in competition for the premium. of wood, they do not materially increase the Roots are preferred, but cuttings will answer.

in the autumn of the second year after planting. In case the same kinds of grape should be offered cur with spring pruning or trimming, which tends by different competitors, or in case different kinds to weaken the vine, and waste the pabulum take should prove of equal excellence, the committee from "e soil by the roots.

can make this gain, others can, now that you have will be at liberty to divide the premium, or oth-

There is another reason why we should urge flock of sheep, is no mean item. The wool you upon our New Hampshire friends, and especially, those in the valley of the Connecticut, to give especial attention to the cultivation of the grape, and that is, the failure of the peach and plum, and the great uncertainty of the pear and some of the finer kinds of the apple.

> We are certain that Mr. Dana's offer of a liberal premium is timely and judicious, and are assured that his character is a sufficient guaranty that the experiment will be conducted with fidelity and honor.

TRIMMING GRAPE VINES IN SPRING.

We are frequently asked at what time in spring we trim our vines, and have now before us two letters from subscribers on this subject. Grape ued evaporation and capillary attraction, all of shall soothe and refresh the aged, and present juring swollen buds. The cuttings made from the trimmings at this season are of a better qual-We are glad, therefore, to present anything ity for spring use, and the portion not used for there to soften during winter and insure their These remarks are suggested by the receipt of as will make fruit. We know by absolute experyield of fruit; and it is for this reason that bones, Cuttings of two inches in length may be sent by mail. The ends should be sealed and the cuttings wrapped in damp paper. The lists will be those of direct mineral origin. When grape vines open for competitors during the months of April are trimmed in the spring, alongside of others and May, 1859. The premium will be awarded trimmed in the fall, the difference in the quaity

tubes are kept pliant and ready for early spring our own hard specie. action. We do not approve of spring trimming of grape vines.-Working Farmer.

For the New England Farmer.

ON THE CULTIVATION AND USE OF BEETS.

Mr. Editor :—It may not be generally known to the cultivators of the soil, in this part of the country, the various uses to which this root can be applied. With regard to its nutritious qualities, as food for cattle and swine, &c., all are pretty much agreed; and even in its superlative excellence as a milk and butter producing vegetable. But comparatively few may be aware of its intrinsic importance, in the manufacture of sugar, brandy, vinegar, &c., &c., and last but not least, that of paper. In a British journal, I read lately that for the last mentioned purpose it is now extensively cultivated, both in France and properties, &c., &c., and consequently, its pro-Europe, has become of no small nati nal impor- this country, a very profitable investment for and as it requires seven tons daily for that gigantic journal, the saving in that material, when and England, where beet sugar and brandy are extensively made, the pulp, or fibre is extracted sieve and press, made on purpose, and is generally sold to paper-makers, after undergoing a process of washing and drying, to prepare it for transportation, and is represented by recent travellers in these countries to be a lucrative and money-making business, to those engaged in it.

Now, as many sections of New England present better facilities for producing the different varieties of beets, than most parts of France, and decidedly superior to any part of Britain, both as regards soil, and climate, I am surprised that Yankee enterprise has been so long asleep, on such an interesting subject as the cultivation and manufacture of heets.

It is a well-established and incontrovertible fact, that large sums of money are paid yearly by this country to France for brandy; and that at least four-fifths, of that impored, by our most respectable wholesale liquor dealers, is distilled from the beet, instead of the grape, as by them

It should be remembered that this is not a mere connoisseurs, in such articles, have often been waste of water, but of all those constituents baffled, to detect the difference of the one from which are elaborated by chemical changes going the other. That they are about alike for proon in the soil during the winter, and placed in ducing intoxication and stupefaction of the brain, proximate conditions for wood and fruit-making is pretty much all the use of either of them; but by the vital action of the roots in spring. With if people will have such stuff, it may be as well fall trimming the stand of the vine remains in to provide it for them at home, as to trouble them degree more moist than the lower portions of an with sending their money to fore an countries untrimmed vine. They are not called on to yield after it; especially when such countries take up their aqueous contents, and their capillary little or none of our produce in return; but only

A superior article of brandy, to that to be found in our first-class hotels and drinking saloons, under the name, I think, of Cognac, could be made in this country at from one to two dollars per gallon, and be a very profitable business to the distiller; as beets raised in these northern States produce a third more juice in proportion to bulk, than that raised in any part of Britain or France. And with a proper machine for planting the seed, at regular distances, in the low, so as to obviate the present slow, and expensive process of dropping it by hand, farmers and gardeners would find it a remunerating crop at 25 cents per bushel; provided they could always find a ready market for it; which is cheaper by nearly one-third than what the French and British manufacturers generally have to pay for it. And taking into account that eight bushels of good beets generally produce one hundred-weight of sugar; and that the pulp, or residue for the making of paper will almost cover England, as a field crop, for its paper-producing the cost of the raw material, I do not see any very formidable obstacle in the way of making duction in these countries, and other parts of the manufacture of beets into these articles, in The London Times newspaper is now capital, provided any enterprising individual of printed exclusively on paper made from beets; adequate means, or joint stock company, would take hold of it in real earnest.

Should the editor of the Farmer consider this compared with paper made in the usual way, is subject, worthy of a corner in the columns of said to be nearly \$200,000 per annum, to the that interesting journal, the writer will be willing, stockholders; and the quality is much superior at any time, to communicate what additional into paper made from any other known substance; formation he can, and answer any questions being more tough and elastic, resembling vellum, through the same medium, or otherwise, regardor parchment, and consequently more durable, ing this interesting new branch of industry, that and impervious to damp, &c., &c. In France he, the editor, or any of his numerous contributors, may think proper to ask; as the writer has had considerable experience in the cultivation of from the syrup by means of a peculiar kind of beets, and is cognizant, in some degree, with the process of transforming it into the different articles above stated; having witnessed the several operations on a large scale, in various parts of THOMAS CRUICKSHANK.

Beverly Farms, March 21, 1859.

DEATH OF MR. HENRY PARTRIDGE.-The intelligence of the sudden death of this gentleman came to us with a startling reality. It occurred on the 19th inst., in the 68th year of his age, while he stood at the post of duty, engaged in his usual avocations. Mr. P. had a wide spread reputation as the manufacture of the unequalled manure forks, now in general use all over New England; the excellence of his work fitting well his excellence of character. He was an upright, worthy man-a man whose usefulness to the represented; and some of our most distinguished world will not cease with his departure; his good example will long be fresh in the memory mix with the droppings. Much of the work may of those who knew him, and continue a blessing be done in rainy or stormy days; this I consider to the world.

For the New England Farmer.

CORN VERSUS ROOTS.

I am really fearful lest you should be wearied with communications upon the subject of "Root Crops," notwithstanding I feel under obligations to reply to a few additional queries relating to say it will in a barn cellar. Again, it is not wastthis matter, proposed to me in the last Farmer by Mr. Brigham, of Westboro'.

In referring to ruta bagas, he inquires as to their value when compared to corn, and instances his raising a crop of bagas of the rate of on soft meadows, while they are frozen, and 1000 bushels per acre, and thinks he realized where manure cannot be conveniently carted on less profit therefrom, than he did from a crop of at any other time.

corn 75 bushels to the acre.

In reply I would say that so far as my experience goes, an acre of land that will give 75 bushels shelled corn, ought, all things being equal, to give 1200 bushels bagas, i. e., this would not be and lay it in piles for spring use. I think in so a more extravagant yield. The crop of hagas doing, the manure must lose much of its strength. would weigh, at 60 pounds to the bushel, 20 tons -the crop of corn, at 60 lbs. to the bushel, would be 21 tons, a very large difference here—about 13 times the amount in weight. And as to feeding properties, will any one doubt but what one bushel of bagas, weighing 60 pounds, will go as far in producing milk or making beef, as 2½ quarts, or 5 pounds, of corn?

in feeding the two, cannot but see at once that facts and figures are vastly in favor of the roots.

The truth is, that when judiciously cultivated, we obtain such enormous crops of the esculents that they cannot but be profitable, even (I was about to say,) if they are not worth much. A man can hardly raise 20 or 30 tons of bagas or carrots from an acre, and feed them to his stock properly, without their telling to advantage, both in his facilities for keeping stock, (and we know it is an established axiom, "the more stock the better farmer,") and also adding greatly to the compost

Mr. Brigham, at the close of his article, refers this cannot be great, with the use of a good root cutter that will readily slice a bushel a minutean implement indispensable to every one using WM. J. PETTEE. roots in any shape.

Salisbury, Ct., 1859.

For the New England Farmer.

BARN CELLARS FOR MANURES.

There is, in my opinion, no place better to manufacture our compost manure, than in a barn cellar. I think I have the means of judging, as I have had some fifteen years' experience in making and using manure without, and about fifteen years with, the benefit of a barn cellar, for the purpose of composting.

In the first place, the liquid, as well as the solid droppings from the cattle, can all be saved by having it composted with meadow mud and loam, of which there must be a good supply in the soil. the cellar, so that it can be ready at all times to

to be quite a saving to the farmer.

In a barn cellar, the compost heap can be kept in a right temperature. If it is not sufficiently moist, water, suds or slops from the house may be turned upon it to keep it sufficiently wet, and no more.

Manure managed as above, can receive no damage from drying, or fire-fanging, as some ed by the winds and drenching rains, as it would be if out in the open weather.

Another advantage is, it can be earted out upon grass lands in the fall or winter season, and

I think the best place to keep manure, is in the barn cellar, until it is wanted for immediate use, although it is almost a universal practice in this region to draw out their manure in the fall, and lay it in piles for spring use. I think in so

Cordaville, March, 1859. JAMES HAWES.

For the New England Farmer.

NEW ARRANGEMENTS FOR A BARN.

Mr. Editor:—The barn I propose to build, will be from eighty to one hundred feet square, with a cellar under the whole; the cellar to be Indeed, every one who has had any experience ten feet high or more; if possible, the lights and entrance on the south side. I propose to have a good and separate pen for each horse, cow and work-ox, the pen to be twelve by twelve feet, well fenced, the feed to be dropped from the barn above, through apertures made for the purpose. As soon as the weather will permit, I propose to haul in as much dry soil and swamp muck as I possibly ean, so as to have it ready to commence my winter's work. As soon as I turn my stock into their pens, or rather a little before, I will put into each pen as much swamp muck and soil as will cover the entire surface one foot deep, all over, heap; which last should always be taken into or one hundred and forty-four square feet; and account when rating the usefulness of any crop. as soon as the trees drop their leaves, gather them with brakes, for litter to cover the soil to the labor of feeding roots. Sure I am that lightly, two or three times per week; and once a week, when the stock has trodden and trampled the whole mass well, take a shovel and turn the whole upside down; repeat this operation for four weeks; then remove the manure thus made to a suitable part of the cellar. Again fill your pens as before, and repeat the operation. stock must be simply turned into their separate apartments, without any tving of any kind. I turn them in loose, but take care to secure the doors of the pens so as to avoid any mischief resulting from their getting together. I also propose to cut and steam all the hay and other feed. or a great part of it. I mean to follow out the same plan in summer, by turning the stock in at night, instead of yarding them, as we have done before, so that I may make one-half as much manure in summer as in winter. By this system I expect to save all the liquid and solid marure that the stock will make. I shall also have all the salts, &c., pertaining to the same, absorbed by John H. Constantine.

Campton Village, N. H., 1859.

For the New England Farmer.

DRAINAGE---POWER OF SOILS TO RE-TAIN MANURE.

BY JUDGE FRENCH.

Effect of Manure not Permanent—What becomes of it—Four ways by which it goes off—Draining helps to keeps it—Lord Bacon's mode of obtaining Fresh Water from the Sea—How Soils Retain Manure—Chy Absorbs Ammonia—Alto Line and Potash—Burnt Chay Absorbs less—Absorption of Organic Matters—Liquid Manure Filtered by Clay—Sewer Water and Flax. Water Purified by Filtering—Solutions of Logwood and other Dyes deprived of Color by Clay—Skunks Sweetened by being Burled—How much an Acre will Retain—Practical Conclusions.

Every farmer knows that the effect of manure upon land is not permanent. A new application of some kind of fertilizer is necessary, at each rotation. It is matter of common observation, too, that some lands hold manure much longer than others, and especially, that sandy land requires more frequent manuring than a heavier soil of clay. There seem to be but four methods in which manures can be taken from the soil. The first is by escaping into the air, by evaporation, as it is usually termed; the second is by being washed from the surface by heavy rains, or by the melting of snow in spring; the third is by washing down or sinking through the soil, and the fourth by being taken up by the growing crop, and becoming part of the harvest.

Draining prevents surface washing by allowing he water to pass into the soil, instead of running away upon the surface. It tends, too, to prevent the escape of manure in the form of gases, or by evaporation, because it makes room or it to sink down into the soil. The object text to be attained, is to retain the fertilizing elements in the soil, within reach of the roots of the growing crops, long enough for the plants to appropriate them.

The objection that draining leaches out of the soil the elements of fertility, has been practically inswered, by the opinions of learned practical nen, and by observations upon the quality of trainage water, showing that in general, deep trains discharge pure water, while shallow drains lischarge water charged with fertilizing subtances.

As certain soils are known to part with maure much more speedily than others, it may be vell to inquire more critically into the reason f this fact, as bearing upon the question at what epth it is safe to draw off the water from cultiated land, so as not to take away with it the od which should nourish the crop.

One obvious mode by which soils are capable f stopping the descent of manure through them, by straining out, as it were, the grosser partiles of matter. This is merely mechanical, and epends upon the coarseness or fineness of the articles of soil. Common salt, it is supposed, oes not escape by evaporation, and is not much, at all, taken into soils by absorption, yet it is,

to some extent, retained in the soil by attraction. The particles dissolved in water are carried downward, and finding particles of soil not saturated with water, are attached to them, and remain till washed away or taken up by plants.

Lord Bacon, in his "Sylva Sylvarum," speaks of a method of obtaining fresh water, which was practiced on the coast of Barbary:—"Digge a hole on the sea-shore, somewhat above high water mark, and as deep as low water mark, which when the tide cometh, will be filled with water fresh and potable." He also remembers "to have read that trial hath been made of salt water passed through earth, through ten vessels, one within another, and yet it hath not lost its saltness, so as to become potable, but when drayned through twenty vessels, hath become fresh."

Dr. Stephen Hales, in a paper read before the Royal Society, in 1739, on "some attempts to make sea-water wholesome," mentions that "sea-water being filtered through stone cisterns, the first pint that runs through will be like pure water, having no taste of the salt, but the next pint will be salt as usual."

Mr. Bernays, in the Agricultural Gazette, in October, 1849, describes some experiments of his filtration. He found that a solution of common salt was diminished in strength by filtration through a soil, and that the diminution was in proportion to the depth of the filtering column.

Professor Way, in a valuable article "On the Power of Soils to Absorb Manure," to be found in the eleventh volume of the journal of the Royal Agricultural Society, gives a series of careful experiments on this subject, some of the results of which will be stated.

His opinion is, that the power of soils to absorb or retain manures is due partly to capillarity or attraction, and partly to chemical action, but he thinks there is a power beyond these, and indefinable, at present, which some soils, and especially clays, possess to retain the mineral bases and animal and vegetable ingredients of manure.

The power of clay, whether pure or mixed, to absorb ammonia, is well known.

Prof. Way also proves that clays have power, to considerable extent, to absorb caustic lime and its carbonate, and also potash and magnesia. Contrary to the received opinion, he found that the absorptive power of clay is diminished by burning, although it is well known that some clay soils are much improved by burning the surface, and that burnt clay is on some soils a valuable manure. Mr. Pusey says "The action of burnt soil rests, I believe, on some distinct principle, not hitherto understood."

oes not escape by evaporation, and is not much, Indeed, the attempt to solve the mysteries of at all, taken into soils by absorption, yet it is, vegetation by the tests of chemical science, will

always be fruitless. There is a power in the vital smell, and nearly all its fertilizing properties. certain. It is profitable, however, to note careful-the ten inches of surface soil. ly, the practical results of experiments, although

to the power of soils to absorb organic matter, contain splits or fissures which let down water and to purify the most offensive substances, are perpendicularly to considerable extent. both interesting and useful. Mr. Huxtable had stated that he had made an experiment in the principles stated would seem to be, filtration of the liquid manure in his tanks, through a bed of an ordinary loamy soil, and er than in clays, are in more danger of loss by that after its passage through the filter-bed, the the sinking of manures, and require deeper urine was found to be deprived of color and draining to retain them: smell-in fact, that it went in manure and came out water. Prof. Way gives a series of experiments which corroborate the fact stated, as to depends on its bulk, or in other words is limited, the action of soil in removing color and smell the deeper the drains within the reach of the from putrid substances. He says:

"They have been repeated with many different soils, and, under every possible combination of absorption, and for the penetration of roots. circumstances, but still with the same effect.

"Similar results were obtained by acting upon putrid human urine, upon the stinking water in which flax had been steeped, and upon the water of a London sewer. That the power of the soil, in all these cases, is due to the clay contained in it, there is not the slightest doubt; many similar ex-periments were made with sand, but although the been somewhat interested in the discussion of color, so far as it was due to suspended matter, lutions of different coloring matters, such as those raising of turnips is profitable, as well as being of logwood, sandal-wood, cochineal, litmus &c., a crop that is just suited to the wants of the far-when filtered through, orshaken up with a por-mer. I never have raised turnips very extensivetion of clay, are entirely deprived of color."

been told that the American Indians are in the giving them to milch cows because they give the habit of taking skunks and burying them in the milk and butter a turnip taste, but I never have earth, by which means they are speedily deprived experienced any trouble of this kind when given of their offensive odor, and rendered fit for food. Most New England people probably know that and thriving condition they must be supplied the garments of boys who have come in contact with a variety of food. Most of the farms of New with that same spotted animal, are sometimes England possess soils that are adapted to growdeodorized by burying them for a time in the ing the different kinds of grasses, grains and earth. It is said, too, that nothing will so soon needs. Perhaps on some of our New England ing it in the ground. The extent of this power more advantageously than another; as, for inof absorption is an all-important inquiry. How
much manure will a given quantity of soil absorb
and retain for use? We have seen that this deowner of such a farm to direct his attention to which it contains.

Professor Way found by experiment with wer-water and clay, that four nounds of the My advice to farmers owning lands that will sewer-water and clay, that four pounds of the produce the various farm products profitably, is clay used was sufficient to filter five pounds of to raise a medium quantity of each, rather than to the sewer-water, so as to deprive it of color and grow all roots and no corn, or all corn and no grass.

principle, whether in animal or plant, which con- The soil of an acre ten inches deep is estimated trols chemical action, and defies the laws which to weigh 1000 tons, so that it would seem that govern dead matter. How and why some substan- 1000 tons or 224,000 gallons of such sewer-water ces promote vegetable or animal growth, while might be poured upon an acre of such clay, and others destroy life, science can probably never as-most of its fertilizing properties be retained in

Most soils, however, are by no means so pure we are obliged to confess that they are inexplica clay as that used in this experiment. Again, the soil of a field is not equally permeable as that Some facts stated in the article referred to, as used in a small experiment, and all clay soils

The practical conclusions from the facts and

That sandy lands, in which roots strike deep-

That such lands are improved by claying:

That, as the power of a soil to absorb manure roots of the crop, the better the security against loss, because a greater mass of soil is fitted for

For the New England Farmer.

TURNIP CROPS---WINTER WHEAT.

Mr. Editor:—In looking over my January number of the N. E. Farmer, (monthly,) I have the root crop there presented. Most of the writter of the solutions was but slightly modified. So-ers are of the same opinion as myself, that the a crop that is just suited to the wants of the farly, but always have fed out more or less to my cattle during the winter and spring, and consid-The learned professor also states that he has er them a very healthy food. Some object to in moderate quantities.

In order to keep a stock of cattle in a healthy remove the smell of onions from a knife, as leav-|farms, a certain kind of product can be raised pends very much upon the proportion of clay raising grass more than to anything else; but farms containing equal soils all over them, wheth-

I will not deny the assertion of one of your correspondents that the corn crop is the crop of New England, but let other crops receive their due attention. Turnips are not raised so extensively in this vicinity as they ought to be, from the ing near at hand, I shall venture a few suggesfact that half the people do not know their value, tions to your farming readers. Plowing and preand the reason why they are so ignorant of their paring the ground for seed, is of vastly more convalue is because they never had any of them to actually test their worth. I never have known any one that raised roots for stock, to abandon it after a fair trial, but on the contrary, to raise

What kind of winter wheat would you recommend to be sown in this vicinity, and about what time of year should the seed be put into the ground? Would not a light dressing of composted manure, plowed in just before sowing, be a benefit to the wheat as well as to the after crops of grass? G. W. D.

Derry, N. H., February, 1859.

REMARKS.—The Winter Blue Stem is an excellent variety.

liable to be winter killed.

ROOT CROPS FOR STOCK FEEDING.

We beg again to remind our readers, particularly those who are engaged in dairy and stock manure, and cross plow it in to the depth of five farming, to appropriate a full amount of land to or six inches. I should do this, even had I bat root-growing. Carrots, beets, turnips, parsnips, a sman quantity, raction than the first place, may all be raised with profit, wherever stock is to be fed. For horses, carrots are invaluable the roots of corn do not stop in the hill, like superior flavor, butter of fine color and odor, but verge from it, seeking nourishment in their jourwhen used as a portion of their food, they guarney in all directions, a long way from home. antee a healthful condition. The power of the pectic acid of the carrot to gelatinize all vegeta-tributed through the soil, is what they are after, ble matter held in solution in the stomach, puts and what they will find. its contents in such a condition that the peristaltic motion of the intestines can manage it. Flatulence is prevented, and thorough digestion secured. The dung of the horse, fed partly on carthe oat, nor large amounts of starch unappropripulping machines, pulped roots mixed with cut crowded state of the hill while growing? Try hay, cut straw, and other cheap material, add every other hill. much to the economy of the farm as well as to the health of the cattle. - Working Farmer.

od of ridding calves of lice. Give them flax seed. soil, well impregnated with manure, must also I am wintering eight calves; they became very attract these roots, which are the great feeders lousy, and I fed them half a pint at a time for in giving growth and perfecting the vegetable, two days, and the oil from it drove the lice all The vine receives its nutriment from the air, and off.—Genesee Farmer.

For the New England Farmer.

PLOWING --- MANURING --- PLANTING.

Mr. Editor: -Plowing and planting time besequence than is generally supposed, or conceded by the farmer. To plow when the soil is wet, leaves it to dry in the sun, hard and cakey. The young roots of the vegetables struggle, and are headed off at all points by this baked, brickey soi that yields so ungraciously to their seeking desires.

There is great need of more attention to the preparation of the soil. The farmer that plows his field but six to seven inches deep, is very careful to spade his garden twelve to fifteen inches, that it may be light as an "ash heap," and that he may boast of a "good garden," if nothing else. This same friability and deepening the soil, measurably applies to every crop. Corn, grains, potatoes, need this deep, mellow soil. Even a tree, with its more stubborn roots, re-Get in the crop as early in September as pos- quires it. Hence the necessity of deep plowing sible, so that it shall get well rooted, and not so and pulverization. If my soil was but six inches deep, I should plow nine inches, unless I have a quicksand bottom-vegetable roots will soon find the soil, reap the benefit, and you will have an augmented crop.

For a corn crop, first plow deep, then spread a small quantity, rather than manure in the hill. For milch cows, they not only furnish a milk of those of a plant in a flower pot; they soon di-Now, the reasonable conclusion is, manure dis-

How common it is to see the young corn yellow and decripid, from the fact that it is dropped on green, strong manure, (always laid to the weather,) and cannot attain a vigorous, healthy rots, never contains the undecomposed shell of the oat, nor large amounts of starch nuappropriated: and it is for this reason that a bushel of I must put four acres into corn; all I can count oats and a bushel of carrots will do more for the horse than two bushels of oats; and not because hill. Now, he plows, plants and cultivates four the carrot carrot carrots. the carrot contains as much flesh-making material as the oat, but because it causes all the flesh-corn. I say, put the thirty loads of manure upon making material of the oat to be appropriated one acre, plow in at the cross plowing, and hazinstead of being voided with the excretia. For ard the statement, the one will give the product cows and oxen, other roots may occasionally be substituted with profit, as variety to all animals is pleasing in their food; and no one root should be continuously used. Since the product of four acres, to say nothing of labor and cost, being about three to one. In this connection, let me ask, would not corn do better, if the kernels be continuously used. Since the product be continuously used. Since the introduction of were dropped several inches apart, to avoid the

In regard to potatoes, there is no dunging in the hill on this island; they spread horse manure (if they can get it,) and plow in deep. In pulling potatoes, it will be noticed their tough, LICE ON CALVES .- I have discovered a meth-| fibrous roots run far outside the hill. A mellow lits short, brush-like roots at its base, connecting itself with the potato, with a tough umbilical ture. cord, showing its relations to each.

We also know that grain roots require a deep soil for a successful crop, particularly on clayey subsoils; many of your agricultural works tell you, they dive deep.

Boast not of acres, let the crops do the bragging. The true motto should be, good cultivation H. Poor. pays.

Brooklyn, L. I., 1859.

A NEW WORK ON DRAINING.

We have been anxiously waiting for this volume for some months, and greet its appearance land some years ago, and not finding the instruc-The subject of Draining has been for several as best he could, and after some mistakes and years past engaging the attention of the farmers failures, by careful thinking and observation, he reliable source of information has been eagerly convinced of the importance of draining to the been reached in that country, and indeed, the age, under our scorching sun and clear sky, as in foggy England, where the "Demon of vapors descends in a perpetual drizzle," and keeps the atmosphere in so moist a state, that evaporation goes on at a much slower rate there than here.

Judge French has given us an interesting comparison of the meteorology of old England and New England, and the result of the comparison is that draining is even more necessary in this country than in England. In this country the ground is frozen solid to the depth of two or three feet, and in the spring, is completely saturated with cold water, which renders the soil un- had not a sincere love of farming, and an earfit to be worked, until the season is so far advanced, that there is scarcely time for the growth and ripening of the crops. But thorough draining, it is contended, will take off the water as soon as the ground is thawed, and the soil can that information which they so much need.

the sovereign remedy for all failures in agricul- a few yards of shilling chintz, be made to pro-

Until land is more valuable than it is in most parts of New England, a proper selection must be made, and draining resorted to only where it will pay. An interesting history of draining is given, and the various methods discussed. The proper depth of draining occupies a very important place in the discussion. The manufacture of tiles, and the proper sizes to be used, and the various implements needed in the operation, are described and well illustrated by cuts, making the whole subject plain to any or-FARM DRAINAGE. By HENRY F. FERNCH. The Principles, Processes and Effects of Draining Land with Stones, Wood, Plows, and Open Ditches, and, especially, with Tibes; including Tables of Rain-Fall, Evaporation, Fitration, Capacity of Pipes; cost and number to the acre, of Tiles, &c., &c., and inore than One Hundred Hinstrations. New York: A. O. Moore & Co., Acrientural Book Publishers, 140 Fatton Street, Sold by A. Williams & Co., 109 Washington Street, Boston. the farmers in the country.

The author commenced the draining of his own with much pleasure. It is a book for the times, tion he needed to guide him, had to work his way, in the Northern and Middle States, and every arrived at satisfactory results, and became fully consulted. Almost the only systematic and sci-successful practice of farming on many of our entific information has been derived from Eng-most productive lands. During his own operalish works. But there have been great doubte tions he acquired much valuable information rewhether English methods were adapted to our lating to the subject, and with true public spirit climate and soils, and especially, whether the he determined to impart this information to his same results would be realized here that have brother farmers. He has spared no pains or expense to make his work reliable and useful, havopinion has been by no means universally ac- ing gained not only all the informatian he could cepted that there is the same necessity for drain- from books, observation, and actual experience in this country, but visited and conversed with the most practical men in England, and carefully studied the various modes of draining in that country. It is written in his usual easy and pleasant style, and is the most valuable book upon the subject that has ever been written on either side of the water.

> The farmers of this country are certainly under great obligations to him for this extra professional labor, undertaken and carried to a successful issue, under a press of business that would have deterred any man from engaging in it who nest desire to promote it.

HOME-MADE FURNITURE.

The simplest and cheapest kind of furniture, be worked and the seed got in three or four by which an air of taste may be given to a cottage, consists of a plain box or bench, made of weeks earlier, so that the crops may have so boards, by the hands of the master of the dwellmuch longer time to grow and ripen. The state-ing, stuffed with hay, corn-husks, moss or hair, ments and reasoning of Judge French are clear held in place by a covering of coarse canvas, and and satisfactory, and will afford to many farmers covered with chintz by the mistress of the cottage. Seats of all kinds are made at a very tri-Another important feature of the book is, that genuity, a room may, by the aid of a few boards it does not encourage indiscriminate draining, as nailed together, a little stuffing and canvas, and

duce nearly the same effect as one where the furniture is worth ten times as much. The next private sales of cattle, &c., in the morning, prestep is to add square pillows or cushions to all vious to the auction. Among them were the folthe benches, seats or couches, in order that any lowing: 4 three year old heifers of Joseph Batchperson sitting upon them may have a support eldor, of Wenham. \$26 each; native cow and calf for his back without touching the wall. Another of E. W. King, \$45; one yoke of fat cattle, beof the cheapest and simplest seats for a cottage, longing to the town of South Danvers, weighing is the barrel-chair. These chairs are easily made 3400 pounds, at \$9 per 100; one yoke of workby sawing off a portion of the barrel, nailing on ing oxen, from George B. Dodge, of Hamilton, a few boards to form the seat, and leaving a part 5 year old, \$108; one pair of Durham, full of the staves a little higher than the others, to blooded, from Paul D. Patch, of Hamilton, and form the back or arms. To make the high-fed by him 4 years, \$10 per 100; these oxen backed chair, the staves must be pieced out a were 5 years old, girth 8 feet, estimated net weight little, the outside or rim of the back being confined in its place by a piece of hoop, neatly apold, with calves, from J. W. Wilkins, for \$40 plied. The seat and back are stuffed with any and \$31; a native cow, 6 years, from Col. Bachcheap material, covered with chintz.—Downing.

MARKET-DAY AT SOUTH DANVERS. [REPORTED FOR THE FARMER BY J. M. IVES.]

Tuesday last was market-day at South Danvers, under the auspices of the Essex Agricultural Society. These market-days have been in successful progress in Great Britain for many noise each. years, affording an opportunity for exchanges, sales of neat stock, and other agricultural products. It was held on Washington and Foster Streets, within sight of the birthplace of George Peabody, of England, who has been such a patron of that town. Early in the forenoon, vehicles of various kinds, droves of sheep and cattle, fowls, &c., were wending their way in 'cattle-show fashion." Among the collection of cattle were 4 new mileb cows with their calves, from at which opinions, &c., were offered. Mr. Fay, R. Hanley, of Lynn, W. P. C. Patterson, 3 na-of Lynn, in the absence of the President, preside tive cows; Albert Lodge, of Beverly, 2 Jersev ed; it was cows and heifer; Charles Roberts, heifer 3 years old, heifer, Ayrshire, mixed and native cows; to the farmers of the county as a market for the working cattle, from John Brown; 40 sheep and 55 lambs, from E. Page, of South Danvers; J. on the third Tuesday of May, and that the far-W. Wilkins, cows and heifers; P. D. Patch, of Hamilton, one yoke of fine, fat Durham oxen; It was also voted, that Gen. H. K. Oliver, of P. L. Osborn, bull 21 months old, weight, 1320 Lawrence, Jos. Kittredge, of North Andover, J.

namental trees. offered for sale. Ketchum's mowing-machine, for o'clock. one horse, attracted much attention; Whitman's patent plowman, for guiding the plow, was in erings is the numerous "catchpenny contrivanoperation, on Gen. Sutton's farm, but did not ces, and noisy, discordant sounds from drums
work as well as was anticipated; a fine appleparer was offered at \$5, which performed well,
and I would suggest to our Trustees that they
The stock at market were as follows: 85 milch endeavor at the next market to secure a field or cows and calves, 37 steers and heifers, 9 bulls, 5 enclosure, where these nuisances may be further pairs of working oxen, 13 fat ditto, 18 calves, removed, that they may not interrupt or inter-36 horses, 4 colts, 1 stallion, 112 pigs, 96 sheep fere with the Auctioneer or those of the society and lambs, besides 6 or 8 boxes of fowls, pota- in the performance of their duty. toes, wagons, &c., on sale.

Sales.—There were a considerable number of

AT THE AUCTION SALE AT TWELVE O'CLOCK.— The Huntington cow, of R. S. Fay, native breed, \$43; Rodman cow, \$44; Boston do., one-half Ayrshire \$48; native heifer and calf, from Mr. Gilbert, of Beverly, sold for \$28; do. from Mr. Kittredge, \$39; do. from Mr. Dane, of Hamilton, for \$34 and \$35; female goat, \$8; some 6 or 8 horses sold at prices varying from \$35 to \$160,

The market was much more successful than I could have anticipated, from the misgivings which had previously been expressed; in fact, I think it may be justly considered a successful experiment, and I am "right glad" that "old Essex" has led off in such an enterprise.

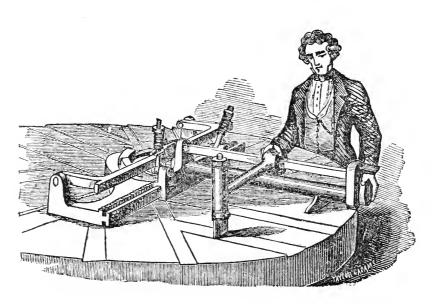
A meeting of the Trustees of the Society was held in the Warren Bank building at 10 o'clock,

Voted, That North Andover be recommended

pounds; Chester and Suffolk boar, from W. H. H. Morse, of Lawrence, J. Osgood Loring and Foster, Beverly; M. Brown, Ipswich, cow and Otis Bailey, of North Andover, be a committee ox; Amos King, cows; George B. Dodge, of to superintend the market to be held at that Hamilton, one yoke of cattle; S. Dane, of Hamilton, new mileh cows and beef cattle; E. S. Dean Robinson, of West Newbury, Enoch S. Poor, Danvere, two colts, valued at \$300 each; Williams, of Newburyport, and Paul Titcomb, of Hugh Galbreith, 5 cows; John Needham and Newbury, were appointed a committee to report John Brown, Jr., cows; town of Danvers, one on the expediency of holding a subsequent maryoke of fine, fat oxen; R. S. Fay, of Lynn, cows; ket day at, or near Newburyport; and to fix the Lewis Fay and Thomas Brown, cows; J. S. Need-time for the same. It was also voted that the ham and N. Page, Jr, of Danvers, Lake, of Tops-committee on the market at South Danvers refield, and Flint, of North Reading, fruit and or-port to the Trustees a full account of the same. The Trustees then adjourned to meet at North There were various agricultural implements Andover on the third Tuesday in May, at 10

One of the greatest annoyances at these gath-

May 4, 1859.



DRAPER'S MACHINE FOR DRESSING MILL-STONES.

subscribers present it to the public with perfect confidence, as one of the most labor-saving machines in use, while from the uniformity of stroke one-half, at least, of the expense of sharpening gregarious mode of railroad travelling." tools is saved, and the character of the dress

much improved.

a precision not easily acquired by hand-dressing, and being wholly under the control of the oper-Saxton, New York. ator. It is readily adapted to any kind of dress for either burr or granite; for the latter, the time usually required for dressing is from ten to fifteen minutes, and for burr, from fifteen to thirty, cracking the face in perfect lines, parallel between the lines, thus producing a much more perfect dress in one-eighth part of the time required for dressing with the hammer. Thus the stone is preserved for longer use, and makes more, and a better quality of meal, in the same time, than by the usual method of dressing. To the most ordinary observer, the advantages must be obvious. Application may be made to the subscribers, at South Dedham, Mass.

T. W. & R. M. DRAPER.

popular journal for May is a capital one. The "leader" by the editor, upon "Life in the Coun"leader" by the editor, upon "Life in the CounThe time saved from the fifteen minutes per

The above cut represents Draper's Improved times, and have had ocular and olfactory expe-Patent Machine for Dressing Mul-Stones. The riences there! As Sancho Panza said of the "man who invented sleep," so say we, -- "blessings on the man who will devise and put in exeand perfect adaptation of the chisel to the stone, cution some mode of correcting the evils of our

This number of the Horticulturist is eminently The machine being attached to the spindle of practical. See the article on "The Useful and the mill, is put in motion by the revolution of the Beautiful, in Gardening;" one on "Bad Graftthe same, being capable of striking eight hundred ing-How Wood is formed"-with illustrations; times in a minute, with a convenient arrangement and one on "Budding and Grafting." The fronfor graduating the stroke to any required weight, and adjustable to any draft, doing the work with "Hartford Prolife Grape". Published by C. M. "Hartford Prolific Grape." Published by C. M.

> For the New England Farmer. TURNIPS.

As the turnip ordeal was passing, I was feedwith the furrows, without breaking the surface ing out my crop of some eight hundred bushels. To gratify your correspondent at Lowell, Vt., I wish to say I rolled them from the root cellar to the barn floor in a wheelbarrow, there split them up with a long handled square pointed shovel, an implement of the cow-house, and shovelled them into the mangers. When they were given to the dairy cows, it was directly after the morning's milking. Whether they "thinned or thickened, increased or diminished, the quantity of milk," my observations do not allow me to say. The improved condition of the animals, indicate that THE HORTICULTURIST .- The number of this their products during the whole of the coming

try Railroad Cars," seems as natural as the way bushel, which it took the hired man of your Masto breakfast. We have been in those cars, some-sachusetts correspondent to feed them out, together with witnessing the gratitude of the ani-peculiar acid which gives life and sustenance to mals receiving them, amply paid for doing it myself. I did not raise them as did your correspondent, who found them an unprofitable crop side by side of a corn-field, that produced seventy-five bushels of corn per acre, but on a plot of ground so cold and ill adapted to corn, it would not have produced ten bushels. I hope the present season, those who hold the turnip culture in the least esteem, will not fail to raise enough to give their animals as feed, as often as they provide their families with fresh fish, or perhaps some other less frequent change in the variety of food. S. P. Joslin. Waitsfield, Vt.

SORREL.

This grass should be cut early. If permitted to stand till the seed has become fully matured, the crop not only proves worthless in itself, but an injury to the soil. By cutting when it is green and succulent, or before the seed has shattered out, we obtain an article possessing considerable value, and which is eagerly devoured by sheep and horses, besides accomplishing much towards eradicating it from the soil from which, ordinarily, it is expelled not without considerable difficulty when once it has obtained root.

In curing sorrel, care should be had to expose it as little as possible to the sun. We have found it an excellent plan to mow in the morning, and cock in small bunches as soon as the dew is off. This plan prevents the seed, by far the most valuable part of the crop, from being wasted, as well as much useless trouble in spreading and cocking up. There are few seeds, perhaps, more tenacious of life than the sorrel. The pericarp or seed vessel, in which the vital germ is enclosed, is singularly firm and indurated, and when, by any chance, it becomes imbedded in the soil to a depth which excludes it from warmth, it remains dormant, and will retain its vitality, unimpaired, for years. If a field which has produced sorrel in large quantities, be turned out to pasture, it will, on being again plowed and subjected to tillage, even after the lapse of many years, become filled with sorrel plants, although not a vestige of that plant has been seen during the interregnum, or while in pasture. And this is sometimes the case with other plants. once plowed a pasture which had been grazed for twenty-five successive years, and upon which scarcely a mullein had been seen during all that time. Upon disturbing the soil it brought the long imbedded seed to the solar influences and the air, and the surface was covered before July with so luxuriant a crop of mulleins as to make it necessary to pull up and carry off cartloads of Monday next, to enter upon their view of the ties, and taking especial care to eradicate and probably occupy two or three days, they will give be entirely overcome. The lime neutralizes the Concord.

the weed, and by converting it into a healthy and salutary pabulum for more profitable species of vegetable life, deprives it of its appropriate nutriment, and thus starves it out. Clayey soils rarely become infested to any considerable extent with this production. When it does make its appearance upon them, it is generally attributable, as a result, to the seed having been disseminated with the grass seed employed in stocking down, and rarely lasts more than one year, when it is crowded out by the cultivated grasses, generally without maturing its first crop of seed. It requires a high, dry and hot soil, and does not flourish vigorously except in the very face of the sun. Sandy lands, of all descriptions, produce sorrel more or less abundantly. And it is this description of soils which are always the most remarkably benefited by ashes and lime. They are non-calcareous, and to be improved, and rendered permanently productive, must be supplied artificially with that of which they ar deficient.

TOMATOES.

Physicians are unanimous in their recommendation of this vegetable. Its nutritive character has procured it many friends, and perhaps there is at present no vegetable in this country, which is more extensively cultivated, or which commands, in our principal markets a more ready sale, or a more remunerating price. It delights in a free, warm and rather vigorous soil, and should be assisted in its development by liberal and continued applications of old and invigorating manure. It is remarkably prolific, one plant often producing a bushel of fruit. The maturation of tomatoes does not take place at once, but the fruit ripens in succession, so that the branches are burdened with ripe and green fruit at one and the same time. The methods of cooking and appropriating tomatoes have been varied to an almost infinite extent. In all its forms, however, it has innumerable admirers, and is probably, at this day, the most popular of all our gar den edibles. For family use, a few hills, planted as soon as the soil can be suitably prepared, in the spring, will be sufficient. Guano and gypsum have a very favorable effect on the tomato.

COMMISSIONERS ON FLOWAGE.—The Board of Commissioners appointed at the recent session of the Legislature, will meet at 12 o'clock, noon, on the plants. By sowing lime, in liberal quanti-|land flowed. After this examination, which will destroy all the plants that appear, the pest may a hearing to the petitioners at the Town Hall, in

EXTRACTS AND REPLIES.

TWO SICK COLTS.

In looking over my last Farmer, I noticed a piece written by "W. D. Searl," concerning a sick colt, and as I have had two sick, in precisely the same way, one last year, and one this, I think I can give him a little light on the matter. bushes bear? They blossom well, but yield no The one that was sick last year, got over it after fruit. laying on the barn floor about two months, but has not done very well since; the one this year was sick about three weeks and died; she had the appearance of being hurt across the small of applicable to your question. Perhaps the soil is the back, would walk on the end of the hoofs of too rich, and they make too much wood; perthe hind feet, with them drawn forward; they finally got so stiff, that she lost the use of them entirely. In the fore part of her sickness, she would lie and groan terribly; when she died, I soil abo thought, I would learn, if possible, what ailed her, or clay. so I sent, and got my brother, and we opened her, and in the maw, we found the trouble. It HOW TO PREVENT CROWS FROM PULLING CORN. was the bots—there was a spot the bigness of a man's hands entirely covered by them, and caused dissolve the nitre in half the quantity of boiling such a fever, that the lungs were swelled to more than twice the usual size. That is what causes the difficulty in breathing. It was generally thought she was poisoned. Now I think if friend Searl will doctor his colt for the bots, he will O. T. WILLARD. cure him.

Bolton, Vt., 1859.

POPPIES VERSUS BUGS.

Last season I had some beautiful vines of different kinds growing in my garden, which promised a bountiful supply. One morning, I found them covered with bugs, and, being about to leave home for several days, hesitated a moment as to what I should do for the tender plants. My eyes immediately rested upon some poppies, and the thought occurred, that the leaves might be a remedy against the ravages of the bugs. I instantly gathered some, and laid the leaves upon the hills, around the plants, and under the leaves. After an absence of several days, I returned, and immediately repaired to the garden, to learn the fate of my vines. They were looking finely, and not a bug to be seen of any kind. Whether the poppies had anything to do in driving away the devouring insects, some may question. Suffice it to say, they decamped instanter, and my opinion is, they are not partial to the opium quality of poppies. If this will serve the interests of the gardeners, you are at liberty to publish it. N. R. WRIGHT.

Paper Mill Village, N. H., April 21, 1859.

TO CURE KICKING COWS.

partition, and confine her head in stanchions, or

rope get below the gambrel joint, as the cow will then throw herself down.

Norton, May, 1859.

QUINCE BUSHES.

Please inform me how I can make my quince AARON BRIGHAM.

Holliston, April, 1859.

REMARKS.—There is no prescription specially haps it is not rich enough. If they appear very luxurious, head them in, and remove some of the soil about one of them, and supply it with sand

Take two ounces of nitre to a peck of corn, water wanted to cover the corn, then add as much beef brine, and soak the corn from twelve to twenty-four hours, then roll in plaster, or dry **hes. I have followed this method for more than five years, and have suffered no loss from crows. R. A. Damon.

Ripton, April, 1859.

HUNGARIAN GRASS.

In your last issue, I noticed an account of Wm. Richards raising Hungarian grass, but he gave no account of the quantity of land he sowed. Will Mr. R. give us all the information he can about sowing and harvesting it; and what stock he thinks best to feed it to, and whether he will feed the seed clear or mixed with other grain, and what he thinks it worth compared with corn or oats, and oblige A Young Farmer.

Brandon, Vt., April 23, 1859.

H. E. FITCH, Clarence, Nova Scotia.—We are not able to give you the information you desire, without occupying an amount of time which we cannot at present command.

For the New England Farmer.

SUPERPHOSPHATE OF LIME FOR SQUASHES.

As the time is near at hand for planting, I deem it advisable to tell my experience in relation to my use of the superphosphate of lime in preserving the vines of the autumn marrow squash. I have Place the animal by the side of a stall, or plank used the superphosphate lime for two years with perfect success, and obtained large crops of that by a chain, so that she can neither move side- delicious vegetable without losing a vine. Beways or forward and back. Pass a rope, having fore I put on the superphosphate I could not a slip-noose on the end, around both hind legs, raise a single squash, on account of the worm in just above the gambrel. Draw this pretty tight, the vine near the root. It usually commenced and the cow will soon find that the more she its ravages about the time that it fruited. The kicks, the more she hurts herself, and will gen-erally be cured of the propensity in a short time. all wilt away, but by the use of the superphos-The pain of this operation, if the animal struggle phate of lime I am able to save every vine, and violently, is quite severe, and will render the get full crops of squashes. I commence putting cords of the legs stiff for a time, but the cure will it on them as soon as the seed comes up, to keep be permanent. Care must be taken not to let the off the small black beetle, which is does to perfection, and then to keep off the striped bug, al-|Let the ground between the trees be plowed, every rain and every hoeing and when they be- manure can be spared. gin to put forth runners, I put about a table-spoon ul around the root, and in all cases, where

Be sure and get that which is good; there has been a great quantity of poor stuff in the market which has disappointed the expectation of the consumer. I have used it on tomatoes with great success. It should not be put on melons nor cucumbers, it is too caustic for them, and kills

the tender plants.

Farmer James, by the use of the superphosphate of lime, raised acres of fine marrow squashes where he had totally failed for years, before he knew of this infallible remedy. Farmers try S. A. SHURTLEFF.

Spring Grove, April 13, 1859.

LIVE FOR SOMETHING.

Live for something, be not idle, Look about thee for employ: Sit not down to useless dreaming-Labor is the sweetest joy. Folded hands are ever weary Selfish hearts are never gay: Life for thee hath many duties-Active be, then, while you may.

Scatter blessings in their pathway! Gentle words and cheering smiles Better are than gold and silver, With their grief dispelling wiles. As the pleasant sunshine falleth, As the dew descends on earth, So let thy sympathy and kindness, Gladden well the darkened hearth.

Hearts there are oppressed and weary; Drop the tear of sympathy-Whisper words of hope and comfort-Give, and thy reward shall be Joy unto the soul returning From this perfect fountain head. Freely, as thou freely givest; Shall the grateful light be shed.

For the New Enand Farmer.

HOW TO TREAT A YOUNG ORCHARD.

Mr. Editor:—I have read your remarks in the last Farmer, (weekly,) with much interest, on the manner of treating a young orchard. If manured sufficiently to produce two crops of clover and a crop of rowen to turn in after the the trees may be expected.

But let us suppose the soil is very gravelly and poor; the orchard large, and only manure enough to the fill; produce, 25 lbs.

Lot 6.—8 small potatoes weighing 13 ozs. Whole potatoes in the hill; produce, 25 lbs.

Lot 6.—8 small potatoes weighing 13 ozs. Cut 2 pieces, 2 pieces in the hill; produce, 25 lbs.

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Lot 6.—8 small potatoes weighing 13 ozs. Very pieces in the hill; produce, 25 lbs.

Lot 6.—8 small potatoes weighing 15 ozs. Very pieces in the hill; produce, 25 lbs.

Lot 6.—8 small potatoes weighing 15 ozs. Very pieces in the hill; produce, 25 lbs.

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Lot 6.—8 small potatoes weighing 15 ozs. Very pieces in the hill; produce, 25 lbs.

Lot 6.—8 small potatoes weighing 15 ozs. Very pieces in the second year's cutting is removed, a fine growth of the trees may be expected.

poor; the orchard large, and only manure enough for a very moderate dressing can possibly be scraped together, might not the trees be kept in a growing condition by applying to each tree, of der to communicate fully its valuable lessons. eight or ten years' growth, say one-eighth of an ox-cart load of a good compost manure? Let 13 bushels for one; rather a small yield. An this manure be spread at some distance from the acre, planted in rows 3 feet, and hill 21 feet body of the tree; little or none of it coming with- apart, would produce 470 bushels, requiring 36 in 3 or 4 feet of it, but the main part of it above bushels of seed. and a little beyond the extremities of the roots. In lot 2, 44 ozs. produce 672 ozs., equal to 15

so to keep off the stinking pumpkin bug, which cultivated with cultivator, and harrowed to keep it is sure to do. I put on a small quantity after down the weeds. No crops taken off until more

Might not such treatment as this be more economical than purchasing manure enough to fill a it has been used properly, it has insured a good very poor soil with clover roots? In very poor soils, by digging holes 7 feet in diameter and 2 feet deep, and filling with loam and meadow mud, trees may be kept in good condition two or three years, with no other application than a little coarse, straw, yard manure, put around the body at setting, (if set in the spring,) and dug in next season. If then, after that, a moderate quantity of manure is spread near the trees, each year, together with a liberal supply of swamp muck, plowing and harrowing without cropping, and an occasional liberal supply of manure with cropping; I say, if by these means, trees can be kept growing, might not much land, especially in the vicinity of villages, now comparatively useless, be profitably turned to orcharding, thus increasing its value, improving its appearance, inviting new settlers, and paving the way for a plentiful supply of fruit?

One question more: Would occasionally turning in a green crop of oats or buckwheat be economical where a yearly supply of manure is with difficulty obtained?

Framingham, March 15, 1859.

REMARKS .- The suggestions of our correspondent are valuable, and do not seem to require any special comments or replies from us. If he plows in a crop of oats or buckwheat, he will derive much more benefit from it by mowing the crop and allowing it to partly dry before plowing it under.

For the New England Farmer.

EXPERIMENT WITH POTATOES.

Mr. Brown:-Nothing at the Lunenburg Cattle Show, last year, interested me so much as the exhibition of fine specimens of potatoes. And nothing in this department seemed so valuable as an account of an experiment in raising them, given by DANIEL PUTNAM, Esq., a member of the Lunenburg Farmers' Club. lowing is the result of the experiment:

Lot 1.—8 large potatoes, weighing 2 lbs. 12 ozs. Whole potatoes in the hill; product of 8 hills, 36½ lbs.

Lot 2.—8 large potatoes weighing 2 lbs. 12 ozs. Cut 4 pieces each, 4 pieces to a hill; produce, 42 lbs.

Lot 3.—4 large potatoes, weighing 1 lb. 6 ozs. Cut 4 pieces each, 2 pieces to a hill; produce, 32 lbs.

Lot 4.—2 large potatoes weighing 11 ozs. Cut 4 pieces each, 1 piece to a hill; produce, 25 lbs.

Lot 5.—8 small potatoes weighing 13 ozs. Whole potatoes in

Kind of potatoes used, Jenny Linds.

This experiment needs to be analyzed, in or-

bushels for one. An acre planted at the same dently young ones. A few chimne distances as the last, would produce 540 bushels, were observed the 16th of 8th month.

requiring 36 bushels of seed.

of seed.

bushels for one. An acre, planted 3×23 feet, large number, probably more than a hundred, on would produce 322 bushels, requiring 9 bushels a dead tree by the side of a mill-pond. They of seed.

bushels for one. An acre planted $3 \times 2\frac{1}{3}$ would no idea that they were preparing to take a dive produce 322 bushels, requiring 13 bushels of into the mud. They are too lively and too beauseed.

bushels for one. An acre planted 3×23 would for a long journey, and that they soon took their produce 425 bushels, requiring 10 bushels.

It will be seen, therefore, that potoates planted as in lots 1st and 2d, the entire produce is I do not recollect that I saw any after that day. greatest, but the amount of seed demanded is enormous. In lots 4th and 6th, the produce is quite large, and the amount of seed is the smallest.

Shall we, then, use the large potatoes or the small? I answer, if a man has little land and a plenty of large potatoes for seed, let him plant them, either whole or cut in four pieces, and four subject, I do not recollect any description of the pieces put in the hill. If, however, he has much land and but few seed potatoes, let him use the small ones, cut in two pieces, and two pieces put in the hill.

Clinton, Ms., 1859.

Taunton, is respectfully called to this article.

For the New England Farmer.

MIGRATION OF SWALLOWS.

the Farmer within the last few years, relative to enty-six to eighty degrees in the shade; the wind the habits of swallows, and the time of their misoutherly, usually south-west, and blows very gration, but I do not recollect that any account briskly; there is more or less rain—not often a from this region has appeared. I will therefore great quantity; frequently only a heavy mist, relate the result of my own observations, made sometimes attended with fog. Such, according .ast fall.

turn to their places.

The multitude then assembled were nearly all

as the 6th of 9th month, though they were evilces mentioned above; the juice of the top is poi-

A few chimney swallows

The 2nd of 9th month I saw from fifty to sixty In lot 3, 22 ozs. produce 512 ozs., equal to 23 white-bellied swallows in a distance of about two bushels for one. An acre planted 3×23 feet and a half miles, 23 in one flock, and upwards would produce 412 bushels, requiring 18 bushels of 30 in another; a few barn swallows were with seed.

In lot 4, 11 ozs. produce 400 ozs., equal to 36 scarcely full-fiedged. In another place I saw a performed various evolutions, such as they usu-In lot 5, 13 ozs. produce 400 ozs., equal to 30 ally do when collected in other places. I have tiful to hybernate in such quarters. It is much In lot 6, 13 ozs. produce 528 ozs., equal to 40 more reasonable to suppose they were preparing flight to more genial climes. The 6th I saw thirteen swallows of the same variety as the last, and Bloomfield, C. W., 1859.

For the New England Farmer.

POTATO ROT.

MR. EDITOR: -- Among all I have read on this attending circumstances, or, as a physician would say, any statement of the "symptoms." And, it appears to me that it is misapprehending or overlooking these, which has led to such a variety of opinions relative to the cause; I mean, when the rot prevails so as to constitute an epidemic. REMARKS.—The attention of Mr. Baylies, of I have observed, somewhat particularly, these attending circumstances, and I have noticed that they were essentially alike, every year the rot has prevailed. The disease commences its ravages the last half of August, usually; sometimes, between the first and tenth of September. The potato vines are green and luxuriant, and the tu-Quite a number of articles have appeared in bers unripe. The thermometer ranges from sevto my observation, have uniformly been the symp-About the 21st of the 7th month, 1858, these toms attending the potato disease. If we have lively summer birds began to congregate in considerable numbers upon the telegraph wires, and the roofs of barns. These meetings were held known the rot to prevail. In the same field I dolly and their numbers upon the roofs of barns. daily, and their numbers continued to increase. have had early potatoes by the side of late ones; Soon it became apparent that some important the former were uninjured, the latter rotted badevent was about to take place. Sometimes large ly. Last year, I planted a part of my early pocompanies would commence an incessant chatter-tatoes quite late, the last of May; the last of ing, very much resembling a set of politicians August, when the rot commenced the vines were when discussing some momentous question, in growing, were very green, the tubers were unthe result of which all are expecting to be bene-ripe, and they were diseased worse than any fited. Presently all would rise, and after per-other kind I raised; while those that were plantforming certain gyratory evolutions, would re-ed early, were unaffected; and, indeed, I had never had this kind, (early blues,) rot before.

The mischief to the potato, under the above common barn swallows, and about the 30th of circumstances, is done very suddenly. I have the month they left for parts unknown.

The 13th of the 8th month I saw large numin a few hours, and the tubers to be affected, bers of the white-bellied swallows assembled on after the first indications appeared. The concluthe "wires," but on the 14th very few were seen. sion to which I came, the second year the rot All did not leave, however, for some of this va-prevailed, was, that it was produced by atmosriety, and a few of the former, were seen as late pheric influence, combined with the circumstansoned, or converted into a gangrene, which kills guished excellence. The same law of nature exthe top, and descends to the tuber, producing ists among neat cattle, as among horses; and

disease and decay.

bug theory, which has been so confidently ad-raise the off-pring of cows, both male and female, vanced. But the advocates of that theory will to which first premiums have been awarded, and ask me, probably, why we never witnessed such in this way alone may they hope to improve effect from the atmosphere prior to 1843? I can their stock. He that relies upon chance, to the answer them only in the Yankee fashion, by ask-neglect of experience, will chance to be disaping them why we never had such bugs before pointed. that year? Was that bug created then? Or was! it brought into existence by a cross Letween two previously existing genus? Or if the bug existed previously to 1843, were its habits so changed that it ceased to feed on what it could not poison, and commenced living on the potato? But it seems this is only a microscopic bug, i. e., imperceptible to the naked eye. Every effect must have an adequate cause. Can so small a bug in the New England Farmer about slate roofing. produce such effects as to cause thousands of Not being a manufacturer of slate, it may be posbushels of potatoes to rot? I have no doubt sible for me to give some information, without the microscope reveals animalcular living on potates; it does preying upon the thigh of a gnat, ceeds of certain certificates of stock. Disinterest and floating in the purest water. But I would ed persons might possibly suspect "Rusticus" as soon believe that the ox, which died after to be an owner of Glen Lake stock, from the zeal drinking, was killed by the animalculæ, which he manifests in building up that enterprise, and the microscope revealed in the water from which ignoring all others. If he wishes to advertise he drank, as to believe the potato rot is pro-duced by the animalculæ which the microscope want fects and experience, instead of theory and exhibits living upon them. The cause is not ad-equate to the effect. Atmospheric changes, we and of dollars to speculators for stock in slate know, are frequent, and at times very great; and mining corporations, having immense nomisometimes producing diseases entirely new in nal capitals, high sounding titles, and owning a their type, which carry off thousands of the hu-very few acres of pasture land with a rock upon man family; and why not new diseases in the it. If this money was judiciously expended upon vegetable kingdom?

an early kind, plant early, and on early ground, reason to complain. Let capitalists examine for so they may mature early. If the vines are dead themselves, before making investments in any and the potatoes ripe by the 20th of August, you such corporations. I do not wish to apply these will not lose many by the rot.

Leominster, 1859.

For the New England Farmer.

NATIVE BREED OF CATTLE.

REMARKS BY COL. PICKERING.

the Society has been formed for the purpose of absorption of funds necessary for opening quareffecting improvements in every branch of hus-ries, erecting buildings and machinery, being so bandry. Chance in breeding, or a lucky purchase, large, the means of the owners, in many instances may give a farmer a superior cow, but unless her being very limited, and the desire for quick reoffspring be raised, we shall make no advance; turns so strong, that often surface or unsound and fifty years hence, the quality of our neat cat-tle will not be improved. It is true, that fine tegration is therefore certain. Why do some cows and fine bulls do not always produce an off-slates change color or fade, while others are fast spring equal to themselves; but the high prob-ability is in their favor. Hence the high prices given for the improved imported breeds, like generally producing like. Many are willing to brightens. The copper slate will withstand a raise a cow calf from a superior cow; while they greater degree of heat than the iron slate, withraise a cow can from a superior cow; while they greater degree of feat than the fion state, situation are regardless of a bull calf. To an improving out cracking. Slate varies in hardness in the farmer, the latter is more valuable than the fordifferent quarries. In all instances within my mer. The offspring of the female is very limited; knowledge the softer stock (as in other stone whereas the male may be the sire of hundreds, quarries) hardens by exposure. The softer slate the heifers from fine cows so often prove worth-late the thingenit will relie the provided it in free that the first state. less, because the cows are put to worthless bulls. slate, the thinner it will split, provided it is free. How different is the conduct of the breeders of I prefer slate of a medium thickness and size. horses! No one expects a fine colt unless from Slaters and owners often advise the use of thin a good mare, when sired by a horse of distin-slate, as it saves them expense in transportation.

whosoever disregards it, may look for disappoint-If the above is correct, then it overthrows the ment. Farmers will therefore be expected to

"Them are my sentiments."

"Multum in Parvo."

For the New England Farmer.

SLATE VS. STOCK JOBBERS.

Mr. Editor:—I have noticed several articles real quarties or mines, instead of being absorbed The only remedy I have discovered, is to plant by the managers, stockholders would have less remarks to Glen Lake, as I am entirely unacquainted with their financial operations; wishing them success in any honorable measures for building up this important branch of business. The course taken by "Rusticus" would create a distrust of all kinds of slate. Having examined most of the Vermont slate quarries, and practically tested several of them upon my own build-It should be constantly borne in mind, that lings, I consider them generally valuable. The

I have roofs covered with slate from Col. Allen's up without any definite plan of business for life, trade, and sustaining instead of destroying each other. The mottled slate has been laid upon my roof six years. It exhibits no sign of disintegrature may be there. tion or change of color. I have examined roofs covered with this slate in 1848 and '49, which the leopard his spots;" or how can the child. pany has been laid nearly six years. It presents ing is more difficult than correcting bad habits with this slate in 1850 and '51 are now in good so it is apt to be with those grown up in the natcondition. The slate from the Eagle quarry has ural way. been laid four years, and gives good satisfaction. It was with the greatest difficulty that the abfrom these and other younger quarries is gradual- for the future. ly improving, both in material and workmanship. appearance materially, but in many instances the owners have no preference as to color. No Verence the eleventh hour. I have known many instances of mont slate will absorb sufficient water to injure these hopeful characters who knew more than is economical, safe and durable. Give a suffice sons, and a friend of the father inquired why he ient underlap, and nail firmly. They require but did not set his son to work; the father replied,

For the New England Farmer.

THE ADVANTAGE OF FORMING HABITS OF INDUSTRY EARLY IN LIFE.

tends, children are naturally disinclined to per- been so long accustomed to a diligent business severe in steady labor; their restless and active life, that working seems almost as necessary to propesities are manifested in every variety of antheir existence as their daily bread, and when tics, in preference to doing the dreaded-what is the time arrives that deprives them of the enjoycalled work; they will make efforts at what they ment of their favorite employment they feel a consider to be play, which in an adult would be melancholy vacancy in their minds which apconsidered most severe labor; they will lug a proaches nearly to unhappiness. There are nuheavy sled up a steep hill in anticipation of the merous instances of men of wealth who, having pleasure of riding down, frequently to the risk of become weary of business, and retired from it their lives. These feelings seem to be natural under the impression of living easier lives, after to all active children. When these active, propelling powers are directed in the right channel, as the child advances in years, the habits of useful industry are formed, or become what is called than the pleasure of doing nothing. I have heard second nature.

their children, at an early age, and let them grow and enjoy themselves.

quarry of mottled state, (probably the one men-they will compare with training four-year-old tioned by "Rusticus,") from the Western Ver-steers to the yoke, and instead of making of mont Slate Company's quarry of fast and one col- them good, industrious citizens, "ten to one" if ored state, (annihilated by 'Rusticus,") and from they do not imbibe the habits of idleness and the quarries of the Eagle Slate Company, to rowdyism, and at best make an addition to that whose skirts "Rusticus" endeavors to fasten Glen class of characters, in all conscience already nu-Lake. These three quarries represent the dif-merous enough, who have no definite object in ferent varieties mentioned, and are those most ex- view, but are ready to improve every opportunitensively worked for roofing slate. All have a ty to speculate upon the industry of others, make wide reputation, and have been unable to supply grabbing trades, and if satisfactory success does the demand upon them. Their owners have denot attend such respectable efforts at business, voted their energies to the building up of the they have an eye more directly to a fortune at

"How can the Ethiopian change his skin, or are now in good condition. The slate from grown up in idleness, become accustomed to hab-the quarry of the Western Vermont Slate Comits of useful industry? It is a hard case, noththe same beautiful purple color as at first, and example and forming good ones. The colored preacher hibits no sign of disintegration. Roofs covered said his converts "would vart back again," and

Although it has changed color badly, there are origines of this country could be induced to perno signs of disintegration. Some veins of slate in form any kind of manual labor; the horrors of this quarry do not change color as much as others, starvation, or the pleasure of indulging a crav it splits freer than the others mentioned. There ing appetite with food, were not motives suffican be no doubt about the durability of all these ciently powerful to induce them to forsake their The quality of slate manufactured old habits of indolence, and casting off thought

I have no doubt but there have been instances For cottages and roofs which are conspicuous, a of reformation among adults who have never fast colored slate would no doubt improve their been taught the habits of industry, but such init. I have experimented, and found that slates father and mother combined, that grew up withfrom the same quarry vary in the quantity ab-out a trade, and ultimately proved an affliction to sorbed. In conclusion, let me advise your nu-their parents and all concerned. A neighbor of merous readers to use slate upon their roofs. It mine possessed one of these promising loafing trifling repairs and have often proved a safeguard against conflagration. Pro Bono Publico. he grows older." The fact was, he had already got to be too old for his father; he got married, ill treated his wife and left her, enlisted into the army, (the best place for him,) and finally died a vagabond in the poor-house.

We often see the effects of early habits of in-MR. EDITOR:-As far as my observation ex-dustry in examples of aged people who have woung people say they wondered why old people When parents neglect the opportunity of dineed work; that they had property enough to recting these natural propensities to activity in carry them through, and that they might sit down

Now, young man, I wish you would tell me what enjoyment there is in doing nothing? I have every reason to believe that heaven is not the place for idlers, that happiness there consists in the employment of doing good, one toward another, and progressing in knowledge and per-one cup sugar, one tea-spoonful rose-water, a litfection forever. What is a soul without a mother than the nutmeg, one table-spoonful of butter, one teative, any more than an idiot or brute, or what hap-piness and enjoyment can there be without action; the enlightened soul was made for enjoyment in working good, not for doing evil, nor spoonsful of flour, one quart of milk, six eggs, continuing in a torpid state of idleness like the salt, beat the eggs to froth on a plate, and after bear in the winter. A love of industry at any it is mixed beat it fifteen minutes. Either boil kind of business must be created by early instructor bake. tion and practice, while the child readily receives impressions which will be lasting, and habit will flour, three cups sugar, one of ginger, one of butsoon overcome the propensity to idleness, and if ter, six eggs, one tea-spoonful of soda. he is organized with the elementary ingredients of a man, he will love work better than play. more acceptably than many do in offering him To be eaten with lemon dip. their artificial prayers. SILAS BROWN. North Wilmington.

For the New England Farmer.

PRODUCT OF TEN COWS.

GENTLEMEN:—I send you a table of figures showing the product of a small dairy of ten cows, for one year ending with May, 1858. The cows are spread them with butter; pour over it one quart of common stock, costing from \$25 to \$30 each; meal in winter, and with bran and good pasturage in summer. Feed has been given them dry and cold; and the stable open enough to be well be baked immediately after putting in the raiaired and cool. Cows only housed in winter. sins and eggs. The sales are, of cream at \$1 per gallon, to confectioners; and skimmed milk, at 12 cents per gar, four table-spoonsful of butter, one cupful of gallon, to boarding houses.

SALES FOR WEEK.			
June 5, 18	5724.24	Dec. 5,	23.71676.45
12,	25.67	12	23.22
19,	$\dots 20.92$	19,	,24.40
26,	20.51	26,	22 25
30,	13 26—104.60		1858 29 68-123.26
July 7.	27 26	9,	22 06
14	27 60	16,	23 78
25,	31 22	23,	21.80
Aug 1,	31 93—121.01	30,	19.20 86.84
8, 15.	31 15	Feb. 6,	17 48
22,	30.45	13,	17 84
29.	20.81	20,	19.72
	28.63—111.06	27,	19 84— 74 88
Sep. 5, 12.	33 78	Mar. 6,	15 60
19.	44 10	20.	17 72
26.	27. 4	27,	18 20— 69.08
Oct. 3,	21.58—155.23	Apr. 3,	15.44
10,	25 89	10,	23.81
17,	27 16	17	17.45
24.	18 70	24,	18 41
31.	25.42 97.17	May 1,	22 34—100.45
Nov. 7.	24 04	8,	27.42
14,	21 68	15,	34 74
21,	19 48	22,	28.54
28,	22.78 87.38	29,	
		1	
	\$676.45	l	\$1,258.25
Cincinnati, Ohio.			WM. J. FERN.

of ten cents an acre.

LADIES' DEPARTMENT.

DOMESTIC RECEIPTS.

LOAF OF TEA CAKE.—One cup of sour milk,

DEBORAH'S BATTER PUDDING.—Sixteen table-

NEWTON SHORT GINGERBREAD.—Eight cups

STEAM PUDDING .- Three cups of flour; one Every farmer that produces grain and vegetables, cup of suet; one cup of molasses; two cups of and every mechanic who makes a shoe or any milk; one tea-spoonful bicarbonate of soda. useful implement, is doing good, loving his Chop the suet very fine, put it in the flour with neighbor, and obeying and serving God, I suspect, the other ingredients, and steam it two hours.

> LEMON DIP .- Thin two table-spoonsful of flour with water; stir it into a pint of boiling water; let it boil once; take it up and stir in four table-spoonsful of sugar, a little butter and the juice of one lemon.

Plum Pudding.—One stale brick loaf—take off the brown crust, cut it in thin slices, and of boiled milk, and let it stand until morning; fed liberally with straw and wheat bran and corn grate in one nutmeg, one tea-spoonful of salt, eight eggs well beaten, a pint bowl of stoned raisins; flour the raisins and bake two hours. To

> Swiss Cake.-One and a half cupsful of sumilk, three cupsful of flour, two eggs, one teaspoonful of soda and one and a half tea-spoonsful of cream of tartar. Flavor to your liking.

> NICE AND NAMELESS CAKE.—Two cupsful of sugar, a small lump of butter, half a pint of milk, four eggs, one cocoa nut, grated, a tea-spoonful of soda and two tea-spoonsful of cream of tartar.

> COCOA NUT CAKES.—Two grated nuts an equal weight of powdered white sugar, the whites of three eggs, well beaten; make them the size of a half-dollar, and bake on buttered

> Bread Cake.—Five teacups well raised bread dough, three heaping cups of sugar, two even cups of butter, five eggs, a glass of brandy, and a nutmeg; fruit as you like.

YEAST FOR BREAD OR CAKES .- In a quart of boiling water stir sufficient wheat flour to make quite a thick batter; while hot, stir in it four ounces of white sugar and a teaspoonful of salt. When cold, put in sufficient yeast (say near a teaspoonful) to cause the mass to ferment. Lay it by in a covered jar for use. Half a teacupful It has been estimated by Dr. Lee, of Geor- is enough to make two large loaves. To renew gia, that the annual income of the soil of not the yeast when used up, reserve a teacupful. It less than one hundred millions of acres of land is simple and efficient for raising buckwhat in the United States is diminishing at the rate cakes and bread—very white and very light, if the flour is good.



VOL. XI.

BOSTON, JULY, 1859.

NO.

JOEL NOURSE, PROPRIETOR. OFFICE ... 34 MERCHANTS ROW.

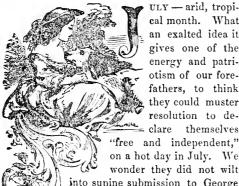
SIMON BROWN, EDITOR.

FRED'K HOLBROOK, FRED'K HOLBROOK, Associati HENRY F. FRENCH, Editors.

JULY.

"O that this too, too solid flesh would melt, Thaw, and resolve itself into a dew."

Hamlet, Act 1, Scene 2.



ULY - arid, tropical month. What an exalted idea it gives one of the energy and patriotism of our forefathers, to think they could muster resolution to dethemselves

on a hot day in July. We wonder they did not wilt into supine submission to George III., or anybody else who chose to place an oppressive foot upon their necks. When we forget to commemorate their heroism with ringing of bells, speeches, fireworks, cannon and India crackers, we deserve to

lose "the peace their valor won;" yea, more,-to go without "tea" the rest of our natural lives!

Sydney Smith is said to have wished he could "take off his flesh and sit in his bones awhile," by way of keeping cool! Though mankind are not generally so anxious to get rid of their "fleshly weeds," they certainly are very much addicted to finding fault with the weather.

For instance,—last winter we had some days of "remarkable weather." This spring east winds prevailed to an uncommon extent, although we were told that once in three hundred years May was a rainless month, and that this was the identical three hundredth-therefore fears were entertained that life would be entirely parehed out of the vegetable world.

Others took a different view of the case, and were apprehensive that the premature heat would

be succeeded by an "unkindly frost" or perhaps a snow-storm, which should nip in the bud the forth-putting leaves and flowers. Now July has arrived, and although naturally enough "hot weather may be expected about this time," how many times will it be remarked that this is the very hottest summer that has been known for years-it may be, even within the memory of the "oldest inhabitant."

Perhaps those who suffer the greatest inconvenience, are the ones who do nothing but try to keep comfortable. The lady who sits at her window in a white wrapper, watching the reapers at work under a broiling sun, bestows a great deal of commiseration upon them, because she does not know that the faintest breeze brings eooling to their brows-and that by being busy, we forget to say "how hot it is."

We may call this the high noon of summer. The great clock which tells the Months of the Year, has struck twelve, but we must give ourselves only a short nooning, for time flies and labor presses. Our hay, our oats, rye and barley will soon be ready for the sickle or the seythe. They have been silently growing taller and taller every moment since last APRIL, impelled by some power which we cannot comprehend. It seems but a little while since the seeds were buried deep down in the earth, and nothing but repeated observation could have convinced us that there should be a resurrection of these few poor grains that we planted. We could have shown no reason why these dead and buried seeds should spring up to a fresher and fuller life. But here they are, and summer after summer we have seen the miracle repeated, until we pass it by without wonder, calling it the "order of Nature."

"They took a plow and plowed him down, Put clods upon his head, And they ha' sworn a solemn oath, John Barley corn was dead.

"But the cheerful spring came kindly on, And showers began to fallJohn Barley-corn got up again, And sore surprised them all."

A curious custom prevailed, and for aught we know, does still, in Scotland, of doing their har- is bending under its crop of Tyson. This varivesting in couples-every Jack having his Jill. ety grows well on the quince, and promises to It must have been in reference to this usage that be one of the most profitable dwarfs.—Country "Gin a body meet a body" was written-for only imagine it applied to two of our harvesters in red flannel shirts "a comin' through the rye." Burns tells us that his yoke-fellow at the gathering in of the harvest, was his first love. He describes be grown among corn with very little trouble or her as a "bonnie, sweet sonsie lassie." For the expense. I have raised them for several years in benefit of those who doubt the poet's ability to the following manner: After the cultivator went select his "first love" from the numerous train through the corn the last time for the season, I to whom he paid his addresses, we will say that cast; a boy follows dragging a hand-rake, and he was at this time only fifteen years of age, and it is done. Last year I used a drill with better the lassie a year younger. We can easily sup-success than broadcast. Two boys can keep up pose that this was before he had become acquainted with the Nannies and Marys and Peggies who figured in his poems. It must strike that will bring a good crop of corn; in poor every one that Burns was remarkably fortunate ground it is useless to put turnip seed or anyin his female friends, if we may trust to his own thing else among corn. I have tried several difdescription of their charms; but we fear that a ferent kinds of turnips, and find the Yellow Abless romantic explanation of the circumstance is the true one, and that the graces which he threw can be procured at almost any of the seed stores around them existed only in his imagination.

that tinged the earthliest thing with gold. We will most likely produce two or three hundred bushels. Now I consider the cost and trouble learn that his brother, a more common-place per-nothing in comparison to that amount of turnips sonage, 'looked upon some of the ladies of these fed during winter and spring. I do not consider early verses as so many moving broom-sticks, the corn injured in the least by the turnips, as on which fancy hung her garlands! Not a very they grow principally after the corn is cut off.—flattering description, but such is the power of Germantown Telegraph. genius that it may throw a halo around the most common objects, not only for itself, but for the interest of "Highland Mary"-an interest so chanan's Duquesne letter, it seems that we must its way to the Burns' festival in Boston, was re-learn how to spend money in elections. The sake, would have given a thought to the dairy-writes in his last letter: maid of the Castle of Montgomery?

our exit, wishing all a good "mess" of green a minority of about sixty votes in full Parliapeas for the Fourth, and to our young friends in
particular, we would say, that although it may £20,000 for the election, the Duke of Northumnot accord with our Yankee notions of gallantry berland £25,000, each of the three new peers to see our girls bearing sheaves at the Harvest £10,000, and some £30,000 more were furnished -may each find some "bonnie sweet sonsie lass," by the other members of the Carlton Club." to help him bear the burdens of life.

is long in coming into bearing when grown on tained. I have used it under beech trees in my pear stocks, and this quality is regarded as a serious drawback on its value. But the objection Having succeeded so well on a small scale, I most beautiful object we ever saw in the form of grass in the plantations, which cattle could never a bearing tree, was a four year Tyson a few years eat. I now find that the herbage is preferred to since, on the grounds of Ellwanger & Barry, of the other parts of the field.—Prairie Farmer.

Rochester, of symmetrical form, and loaded with ruddy-cheeked pears. The present unfavorable year, a small tree five feet high, set three years, in the garden of David Thomas, of Union Springs, Gentleman.

TURNIPS AMONG CORN.

MR. EDITOR:—I wish to call the attention of my brother farmers to the fact that turnips can followed that with the turnip seed, sowing broadin Philadelphia, at one dollar a pound, and a The fantasy of the poet was a Midas' wand pound I think sufficient for a five-acre field. It

Money in English Elections.—In spite of whole world. Who does not think with tender the outcry of the London Times about Mr. Bugreat that even a spear of her hair which found go to the mother country, after all, if we want to garded with enthusiasm,-yet who, for her own London correspondent of the New York Tribune

"As to the internal affairs, the conservatives Having reached our editorial limits, we make have gained about twenty seats, and are still in

GRASS UNDER TREES .- By sowing nitrate of soda in small quantites in showery weather, un-THE TYSON PEAR .- This pear, it is well known, der trees, a most beautiful verdure will be obvanishes when it is cultivated as a dwarf. The have now sown nitrate of soda among the long

SHEEP SHEARING.

WHEN SHOULD IT BE DONE?

the oil has been secreted after washing, so that wool, and injuring the sheep. the wool has its greasy look and feel, and the "yolk" has begun to form near the root of the fibre. This is well—one other matter needs to be looked after, also. It is the growth of the new be watched by the shepherd, and the shearing should be done just as the second growth begins The shearer should cut as nearly as possible along the dividing line between the old and the new. If the second year's growth is allowed to grow somewhat, before shearing, you take part of two years' wool in the same fleece. to sicken and die. On the other hand, if you shear before the second year's growth has startthe value of the next year's fleece, for the reason mentioned above. sheep, if possible, when the new fleece just begins to start.

PREPARATIONS FOR SHEARING.

or old oil cloth.

be kept perfectly smooth and clean.

the sheep lie during the process should, at least, be very clean and smooth, to avoid filth in the wool, or tearing it with a rough surface. Drive into the out-side barn-yard, sheep enough to last the shearers half a day. Then drive a portion of these into a smaller enclosure, (a stable or part of the "bay") near the barn floor. Strew the floor of this enclosure with clean straw, that the sheep may not become dirty, if they lie down.

CAUTIONS ABOUT PREPARING.

the sheep, under cover.

2. Do not, if you can avoid it, confine a greater number of sheep at once, than the shearers prospect of seeing again in proper time or suitacan shear in half a day. It does the sheep no ble condition, the articles lent, is a tax upon our

er wait a few days, till it becomes clear, or keep ed in their sense of propriety, that they-some the sheep under cover and feed them as best you people-borrow with the most perfect assurance, can. For it should be always kept in mind, that as if the lender were a servant to them. Of this, shearing should not be done when the wool is however, we should not complain. Let us lend wet. Sometimes in "catching" weather, sheep cheerfully all that is asked, as humble servants thus confined, can be let out to feed in a pasture of the borrower, but let us muster courage to say near by, and driven under shelter again, if a to our inveterate and self-confident borrowing shower should be coming up.

of the work, will suggest the importance of em- as soon as you can make it convenient.—Portploying as great a number of good hands as you land Transcript.

can, and doing up the work as soon as possible. We would want "good hands," for a poor shear-The common answer to this question is: When er wastes more than his wages, in haggling the

MODE OF SHEARING.

Every shearer has his own way. We would not dictate to any. But the following is a good wool. Every year a new growth of wool commences from the skin of the sheep. This should back towards you, and his left side resting against the should be sheep on his rump, with his back towards you, and his left side resting against the sheep on his rump, with his back towards you, and his left side resting against the sheep on his rump. mode:—Place the sheep on his rump, with his your left leg and thigh. In this position, the sheep may have "his jacket opened;" that is, the shearer will commence at the brisket, and shear down the belly on the right side; then shear the outside of both thighs; then up, on the left side of the belly to the brisket; and then both sides of the neck, with the head. This is "opening the This impairs the fibre, for at the point of union jacket." The sheep is then laid upon his side, between the growths of the two years, the wool and the shearer commences at the rump, and This lowers the price. Besides, if the shears thence towards the head. Then the sheep shearing is long delayed, the fleece for the next lis turned over, and the school shearing is long delayed, the fleece for the next list turned over, and the school shear in turned over, and the school shear more liable like manner. Great care should be taken in turned over, and the school shear shear shear and the school shear she is turned over, and the other side is sheared in ing the sheep, to prevent his struggling and kicking the fleece to pieces. Prudence and gened at all, some of this year's growth will be left tleness are qualities that will pay here, as well as at the outer extremity of the next year's fleece. This remnant of this year's fleece, will diminish what we say now. Remove all straws, burs and other filth from the fleece, before beginning to We say, then, shear your have dung on them. Keep the platform clear, shear. Also wipe the feet of the sheep, if they by frequent sweepings. Use no violence, and remember with pity the fears of a dumb animal. Shear close and even, and be very careful not to Sweep off the barn floor, scatter a little straw cut the wool twice, which is often done by unover it, and nail over that a bit of coarse canvas, skillful or careless shearers. Do not cut the skin This will make a soft bed for of the sheep, or prick it with the point of the the sheep to rest on during shearing, and it can shears. When the operation is done, see that all tags and stray locks are cut off, from legs, tail, If you use low benches to shear on, they should belly, and every other part. Leaving such tags be prepared in a similar way. The place where is very slovenly, and gives protection to the ticks. -Ohio Farmer.

WILL YOU LEND ME YOUR -- ?

Yes, neighbor, if you will bring it home again to-day. There is no greater trial of one's patience than this everlasting unfaithful borrowing. No benevolent man-such as we are-will refuse to lend a friend a book or a hat, a razor or a handsaw, a plow or a pick-axe, if he can have a reasonable assurance that it will be returned, when 1. Wait till the dew is off, before shutting up the immediate purpose for which it was borrowed has been accomplished. But to reduce yourself to beggary, by lending all you have, with no good to be long shut up, and the shearing can be good nature, which is perhaps more than ought done more easily and neatly, if the body of the to be borne.

sheep is full of food.

3. The above cautions are for dry weather. of the proverb, "The borrower is servant to the But if the weather should be wet, you must eithlicher." At any rate, men have so far deteriorations. friends, please return that axe, umbrella, book, 4. These facts, as well as the fatiguing nature hoe, rake or jackknife, to-day or to-morrow, or

For the New England Farmer.

ORNITHOLOGY.

BY S. P. FOWLER.

Territories is composed of twelve species, and innests not wanted, and but half formed. The cludes the genus regulus, (crested wrens) and wren is busy in this unproductive work, simply the Troglodytes or proper wrens. The only because he must be employed, cannot afford to species I have observed in Danvers are the house be idle. wren, winter wren, marsh wren, golden-crested wren and ruby-crowned wren. The common house wren, (Sylvia Domestica, of Wilson,) which I intend more particularly to notice, is the of the one under consideration, and it has also of the one under consideration, and it has also most numerous species found in Massachusetts. been noticed in the house wren of Europe. This It has become completely domesticated, is never labor is usually performed by the wren, when seen in our woods and forests, and seldom noticed far from the habitations of men. With the
protection it everywhere receives, it is singular
it is not found more abundantly, as it rears two
with him, helping to fill up a long day in June; it is not found more abundantly, as it rears two broods of young in a season, and lays from six to nine eggs. Its habits are very peculiar and eccentric, possessing individuality in a high degree. It is never moved by a particle of gregatious emotions so common in birds; on the contrary, two pair of wrens can never endure each other's presence in a garden, a quarrel always taking place and one of them is forced to out the ing place, and one of them is forced to quit the premises. Although quite a small specimen of ornithology, it is smart and courageous, petulant

A friend of mine, desirous of getting as many and imperious. It seldom fails to assault the of these birds to breed in his garden as possible, ing notes in defiance.

besset their youthful flights, and of the cruel habts of the feline race, as every stealthy marauding cat, (our birds' greatest enemies and tormentors,) would be compelled to admit, could these

Knowing, friend Brown, your love for birds, that one would suppose would be very difficult to be managed by so small a bird. His labors, (I here Danverspo

speak more particularly of the male,) are not confined to constructing in connection with his mate, a cradle for his young, but embrace other than this, a constant instinctive desire to labor, The family of wrens in the United States and when nothing useful is produced, in building

A friend of mine, desirous of getting as many peaceable blue-bird, when preparing to breed in placed some two or three boxes in his grounds the neighborhood, by visiting its nest in the ownfor their accommodation. In conversation he er's absence, and committing outrages, of which observed to me one day, that his boxes were all one would suppose such little birds would not be filled with wrens, and was much pleased with the found guilty, but leave such exploits to be performed by the cautious, piratical crow, or the handsome fillibustering blue jay. These visits of the wren to the domicil of the blue-bird are for find but one pair of wrens in his garden. Ah! the purpose of demolishing its nest, or sucking but, says he, I saw the birds go in and out of its eggs, and if surprised in these felonious intentions by the return of the mild, but justly indigwill examine them, and see if we can find eggs or nant bird which wears the blue coat, it evades young. Upon examination we found in all the its deserved punishment about to be inflicted, by boxes, but the one that was the true domicil of fluttering to the ground on its short curved wings, when it conceals itself in the shrubbery or passing along under cover, a few rods, it rises again to the top of a tree, and utters its hurried, trill-persons say they had two pair in the spring, but one of them was caught by a cat. I suppose, in While thus invading the premises of others, this particular case, grimalkin's character had the wren is very careful of its own; not a bird suffered unjustly, which so seldom happens in can come near them for honest and peaceful purposes, without a hostile threat, or severe scolding, such an one as no other songster, but the one in a drab colored dress, knows how to inflict. sprightly and tremulous note is heard as late as sprightly and tremulous note is heard as late as a late of the little charl possess. Notwithstanding all this, the little churl possess- the 20th of September. But little is known of es good qualities, alike noticeable in birds as its migratory habits; where it goes in autumn, well as men. Its domestic habits are admirable, and from whence it comes in spring, no ornitholtaking the best care of its numerous offspring, ogist knows. It manages with its short wings being careful to warn them of the dangers, which to migrate beyond the limits of the union; most

felines, (which should be shot, every one of them, I send you with this communication an olive-jar when found in a garden,) be made to testify. expressly prepared for kitty wren. In these jars The wren is also an industrious bird, its industry being peculiar, and not noticed in other birds. It in anything else, having had one of them in my builds a large nest, if we regard its surroundings, garden for many years. The way and manner composing a foundation of short crooked sticks, of placing it upon a pole, I have, I think, in-

Danversport, April 13th, 1859.

AGRICULTURAL REPORTS.

Agricultural Societies of the past year. published a notice of the Transactions of the and have slightly noticed one or two others.

and make such remarks as their contents may a hobby which they may ride for some effect not suggest. In general, they indicate that the Ag- set forth in the "Farmer's Guide Book!" Such riculture of the Commonwealth is in a progres- men may infuse a certain degree of energy into sive state, and that all classes of the community their movements, but their object. it may reasonare interested in its promotion. There is no want ably be supposed, is often an ulterior one. They of zeal or effort in the cause. There is a great aim to produce a sensation, and to carry things amount of force and energy brought to bear up. through with eclat, and are quite likely to be on the subject. But one thing is very obvious, content when their personal objects are attained. on looking over the Reports, and that is, a want of unity, method and system. If there could be a appropriating the bounty of the State, so that the meeting of the officers of the several societies, most permanent good shall be accomplished by and a plan of operations carefully digested and it. The object of this bounty is not to put money arranged, we cannot but believe that much good in the pockets of the competitors, for premiums, would come from it, and some of the measures but to promote agricultural experiments, and resulting from the want of experience and from real improvements; to diffuse scientific and practhe impulsive character of Young America, would tical knowledge, and to increase the product of be suppressed, and no small amount of force, that the soil. When the object is merely to obtain now does more harm than good, be directed into the prizes, and no pains are taken to furnish useful channels. Perhaps the Board of Agricul- statements of the methods pursued in producing ture might do something to promote this object, the articles or animals for which they are awardand to divert the zeal and efforts of agricultural ed, which may be useful to others, or which may men to these subjects that deserve immediate at-afford reliable information, it is time they were tention.

The Massachusetts Society has set a good ex- effecting the same objects. ample in this respect. That Society has annually directed its attention to some specific object, ciety for Essays upon agricultural subjects, will which the exigencies of the times seemed to de- do more for the cause than twice the amount mand. This year, they have called attention to paid for articles that were produced by accident, the establishment of local fairs for the exhibi- or were cultivated expressly for the premium, at tion of stock, produce and implements, and in an expense of land, manure and labor that no consequence of their recommendation-seconded practical man can afford. What is wanted at the by the action of the State Board of Agriculture present day, is, that farmers should make well -a Market Day, or Fair, was holden at South arranged, careful experiments, and give the re-Danvers, the 3d inst., and others will be held in sults, whether successful or not, in a clear, reliable various parts of the State. We are inclined to form, so that they may convey information of a think that such fairs, properly arranged and man-practical character. One such experiment is worth aged, wherever the population is sufficiently more than a hundred big squashes, or beets, and dense, will be productive of much good. They we hope a set of well digested experiments will will bring the farmers together, and enable them, be prepared, and liberal premiums offered for by sale or purchase, or by barter, to supply their them, to be paid, whether they result profitably several wants, without intervention of "middle- or otherwise, provided they are conducted in conmen," who usually carry off the profits of such formity to the prescribed conditions. traffic, and furnish them an opportunity to dispose of the products of their farms directly to were appropriated in this way, we have no doubt the consumers and dealers. There are several that it would do more to promote agriculture places in the state where such fairs may be held than is accomplished by it at the present time. to advantage. We shall watch their course with offered to us from time to time by others.

methods, new implements and new subjects of It has been our purpose to present a series of attention present themselves from year to year, notices of the Reports of the State and County and should receive due regard from the manag-We ers of our agricultural societies.

The tendency at the present time is to give Massachusetts Society, soon after its publication, the control of our county societies to men who are not farmers-men who wish to keep them-We propose now to take them up in order, selves before the people, and to make agriculture

> We think more careful thought is needed in withheld, or appropriated to some other means of

> The premiums paid by the Massachusetts So-

If one-half the money from the State treasury

Essays upon stock-breeding and stock-feeding, interest, and be prepared to publish notices of upon draining and reclaiming pasture lands, upsuch of them as we may witness, or that may be on grain crops, and root crops, upon meteorology, geology, and various topics connected with Farming is a progressive business, and new the subject of agriculture, should receive so liberal a portion of the State bounty, that the talents of agricultural writers shall be called into requi- In another column we have spoken of a work ent day. Mere excitement, got up by the exhibitory says:tion of fast horses and balloons, will do nothing to promote the cause of agriculture, but will were the following:rather divert attention from that sober and careidays.

tures shall be continued through the afternoon my preparations and proceedings. and evening. Let them be conducted systematically, the subjects to be discussed selected with care, and proper notice of each meeting be given and sowed, in manner as shall be stated afterat least ten days in advance. We do not believe wards, about three acres and one-quarter of land it possible for any one of the County Societies with Indian corn in drills. I also sowed about to expend one hundred dollars to so much ad-three acres of oats and buckwheat, broadcast, at vantage in any other way.

For the New England Farmer.

BEE CRITICISM EXPLAINED.

in your paper some two weeks since, under the head of Bee Criticism, where Mr. Quinby has

About the lat of June, cattle, in general, we did not fine efficiency, but little exceed six acres. watchful eye of the bee-master.

Burlington, Vt. K. P. KIDDER.

appearance from those of the South, as all the light barley. On this he continued until the 30th southern and tropical fish were highly colored, of July; when he recommenced soiling on cornlike the colors of the flying dolphin. They seemed to be analogous to the birds of the South, whilst all our northern fish are of a dark color, and yet their flesh is more solid and healthy."

This was continued only to the 2d of September;

SOILING OF CATTLE.

sition, and the intellectual activity of the farmers upon this subject, which will be of more interest be quickened. This will do more to make farm-in connection with the following extract from the ing an intellectual pursuit, and to make farmers work itself. We regret that we have not the respect their vocation, than any thing else, and is means of laying the contents of the whole book the thing that is especially wanting at the pres- - sixty-four pages-before the reader. Mr. Quin-

My practice, and the result of the past year,

My stock, consisting at an average of twenty ful thought and observation, that are necessary cows, were kept in their stalls through the whole ful thought and observation, that are necessary year. The practice was to feed them about six to success, and serve to convert our agricultural times in the day, and to permit them to range in exhibitions into mere puppet shows and vanity a yard, about eighty feet square, two hours in the fairs. If such things must be done, let them have forenoon, and two in the afternoon. They were a day exclusively appropriated to them, and let them have no connection with the Farmers' Holopportunity to clean the stalls, and to supply them. fresh litter. During winter, they were fed, as is One thing we would earnestly press upon each usual, with salt and fresh hay and vegetables, county society in the State; that is, that they appropriate a reasonable amount of their funds to carry through a series of meetings next winter, and it is all and fresh hay and vegetables. From June to November, inclusive, may be compropriate a reasonable amount of their funds to with green food in the house. As this is the critical relationship in the second of the private in the appropriate of the second of the private in the appropriate of the second of the private in the appropriate and the second of the private in the appropriate and the second of the private in the appropriate and the second of the private in the appropriate and the second of the private in the appropriate and the second of the private in the second of open to all persons, where discussions and lec- ical period, I shall be minute in the accounts of

the rate of three bushels to the acre, about the latter end of the month. The whole quantity of land I thus prepared to be used in soiling, in aid of my grass, did but little exceed nine acres. Of these, that which I sowed with rye turned out MR. EDITOR:—There was an article published five days; so that, in fact, the land thus prepared

About the 1st of June, cattle, in general, were, accused me of having a plate in my Circular like one of Mr. Langstroth's. I beg to inform him of May, my farmer began to cut the sides of the that he is in error. In respect to the proportroad leading to my house from the highway and that he is in error. In respect to the proportions of the bees, I suppose Mr. Q. is aware that the bodies of the bees are not always of the same uniform size; but their heads always are. I suppose he is also aware that a family of bees is not complete without the presence of the drone, it has a without the presence of the drone, there are those kinds of bees that constitute. as there are three kinds of bees that constitute and my farmer returned to soiling upon grass. As he remarks that he has never witnessed bees as represented in that cut, perhaps the 24th of June, he then went into the poorest the 24th of June, he then went into the poor he does not use an observatory glass hive, wherein those wonderful sights are often seen by the
ver. From this he continued to soil until the 6th of July. By this time he had gone over not much short of three acres of mowing land. On Northern and Southern Fish.—Dr. Ges-ner, of Brooklyn, in his recent address before the American Geographical Society, says:—

the 6th of July, ne began to soil from these until the 21st of July. On the 21st of July, he began to soil on In-dian corn; on which he continued until the 26th, "The fish of the North differed very much in when he began to cut about two acres of late and

luxuriance from the roots of that which had been that are liable to cast themselves in their stalls, cut over between the 21st and 26th of July. On should be tied with neck-halters, giving them

fourth of an acre of millet and buckwheat; on subdue the most obdurate. the 11th, soiled on a second crop of clover; from the 12th to the 15th, inclusive, on corn-stalks of about an acre of sweet corn; and, on the 15th, on a patch of millet and oats. This was continued to the 20th; when he began on two acres of Indian corn, sown in drills, on the 1st of August. on land from which a crop of pease had been previously taken. Soiling was continued on this corn until the 3d of October. From this time until the 15th of October, the soiling was wholly from second crop grass taken from various parts of my mowing land.

From the 15th of October to about the 20th of November, they were kept wholly upon carrot and turnip tops, arising from the topping of about twelve acres of both; being allowed always one foddering of salt hay. This finished the summer feeding. From this time they are kept wholly upon salt and English hay. The result, then, of this experiment, so far as relates

to land, is the following:-

The twenty head consumed the produce of

2½ acres, roadsides and orchard. mowing land.

31 " Indian corn, cut as fodder. late and light barley.

3 oats. late sown Indian corn after a pea-crop. 44

1 " Buckwheat. millet, buckwheat, and oats. 1

17 acres.

This is the whole land which was cut over for ton Street, Boston. soiling, with the exception of the after-feed on the mowing land, and the tops of carrots and curnips. In comparing this result with the former practice of my farm, I apprehend the follow-

ing statement to be just:-I offset the keeping from the 11th of September to the 20th of November against the old manner of letting the cattle run at large during the autumn months on the mowing land, to its great injury, by poaching and close feeding. this should not be deemed sufficient, I then make no estimate of the difference between keeping fifteen head of cattle, my present stock. After these allowances and offsets (which no man can doubt are sufficiently liberal) then I state that my experiment has resulted, in relation to land, in this, that I have kept the same amount of stock. by soiling on seventeen acres of land, which had always previously required fifty acres. The result is, in my opinion, even in this respect, greater than what is here stated. This, however, is sufficient to exhibit the greatness of the economy of this mode, so far as relates to land.

For the New England Farmer.

MANAGEMENT OF THE HORSE.

Never attempt to clean or otherwise disturb your horse while eating his meals, unless you want him to bite and kick. But when you clean,

when he began to cut the second crop of Indian of it. Tie your horse in the centre of the stall, corn growing upon the three and one-fourth acres of Indian corn, which had now shot up in great drive more on one rein than on the other. Horses this soiling continued until the 8th of September. much more freedom of the head than the nose-On the 9th and 10th, he soiled upon about a halter. Gentleness, firmness and moderation will

Georgetown, Mass.

NEW BOOKS.

LANGSTROTH ON THE HONEY BEE. A Practical Treatise on the Hive and Honey Bee, by L. L. LANGSTROTH: with an intro-duction by Rev. ROBERT BAIRD. D. D. Third Edition, Revised, and illustrated with seventy-seven Engravings. New York: A. O. Moore & Co., Agricultural Book Publishers, 140 Fulton

We have spoken of this work in terms of commendation before. The present edition has been re-written, and the latest discoveries of the author added, and neatly illustrated with engravings in the highest style of the art; they are so accurate to nature, and so skilfully executed as to bear the sharpest scrutiny of the most accomplished artists; so that while the principles and teachings of the work come from a source of undoubted ability, they are clothed at once in form both enduring and attractive. We think it the best work extant on the subjects of which it treats, and commend it, without reserve, to those who wish to engage in the pleasing employment of tending these little

"Creatures that, by a rule in Nature, teach The art of order to a peopled kingdom."

For sale by A. Williams & Co., 100 Washing-

THE LIFE OF NORTH AMERICAN INSECTS. By B. JAEGER, late Professor of Zoology and Botany in the College of New Jersey. Assisted by H. C. Preston, M. D. With numerous Illustrations from Specimens in the Cabinet of the Author.

This is one of a class of books that we take up with pleasure—one of the helps to good farming, because it will attract and interest, and lead the mind to a more intimate knowledge of what there If is on the farm. When this is the state of the mind, it can never lack objects of study and investigation in the animals we raise, in the plants we cultivate, or in the soil itself. The truth is, we know very little of what there is about us. We see things daily that are common blessings, each one absolutely indispensable to the general good, pass by them indifferently, and sigh for some far off object, which, when acquired, would not be worth possessing. No other place on earth presents so many points of instruction, so many solid, and enduring attractions, as the farm. In itself it is a little world, with scope and verge enough for stronger minds than most of us possess. The want of interest in it springs from a want of a true knowledge of the advantages which it offers.

The book before us will shed light upon one take him out of the stall, and make a business of its departments. The book is written in popular form, sufficiently scientific for the general used in a green or uncooked state. The Dutch Harper & Brothers, Publishers. For sale by A. Williams & Co., 100 Washington Street, Boston.

Wilson & Son, 22 School Street.

No man, probably, on this continent, has had so much experience on the subject of soiling cattle, that is, keeping and feeding them through the entire year in the barn—as Mr. Quincy has; and throughout his long experience, he has undoubtedly attended to it with a persistency of care and observation that characterize very few of our agricultural experiments.

He says "there are six distinct advantages themselves by the practice, and on which they establish the preference of this mode to the common one of pasturing cattle during the summer.

- 1. The saving of land.
- 2. The saving of fencing.
- 3. The economizing of food.
- 4. The better condition and greater comfort of the cattle.
 - 5. The greater product of milk.
 - 6. The attainment of manure.

The only offset to all these advantages, is the labor of raising and cutting the food, and feeding and taking care of the stock."

considerable minuteness; and sustains them by such reasons, as will go far to convince any person that his mode of managing his stock is a successful and profitable one. The Essays are to sprout up, not only on his, but on other full of important suggestions, and ought to be in farms. I procured a few, however, and set them the hands of our farmers generally.

We have enjoyed the pleasure of passing over Mr. Quincy's farm, and of listening to brief relaof feeding his stock, cultivation of fruit and for- and are gradually dying out. I at first attributample corroboration of what he states in his Essays. They ought, with his permission, to be published in the annual volume sent us by the State Board of Agriculture. We feel under personal obligation to him for the clear, comprehensive and valuable facts communicated, and will find an early opportunity to lay portions of them before the reader.

For the New England Farmer.

WATER CRESS.

The Water Cress, (Nasturtium officinale,) is considered to be one of the most wholesome of all our salad herbs, and one of the oldest in use. Its reverse, in some respects, to most other plants of a Fifth Avenue heathen.

reader, and we hope will find its way to thous- and English people use great quantities of this ands of the homesteads of our people. New York: cress in spring, as an antiscorbutic. A salad so easily procured, being found in many of the running fresh water streams throughout Massachusetts, and withal so wholesome, particularly for those persons of sedentary habits, we should, Essays on the Soiling of Cattle, Illustrated from Experience, and an Address, containing suggestions which may be Useful to Farmers. By Josian Quiney. Boston: Printed by John year to gather it before it runs up to seed, reyear to gather it before it runs up to seed, recommend its use.

> The supply of water cresses brought every day to one market in London, is said to be, at least, ten thousand bunches, and this is probably not one-half the quantity sold in other parts of England daily.

Salem, May, 1859.

For the New England Farmer.

DECAY OF PEAR TREES.

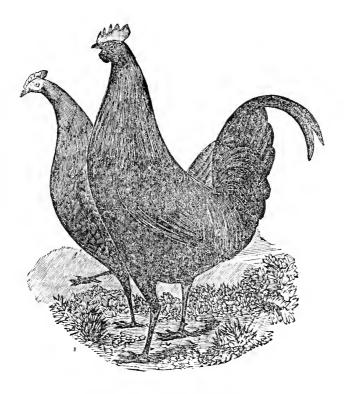
He says "there are six distinct advantages Writers for agricultural papers disagree as to which those who advocate soiling, propose to the cause of the failure of the pear tree of late years, but all seem to concede the fact. Some suggest a sea-air, others ascribe it to a faulty cultivation, and others to raising them from the sprouts from the roots instead of the seed. My experience makes all these suggestions erroneous. I was born and brought up in York, Maine, a seaboard town, where the pear tree, sixty-five years ago, grew and flourished; natural fruit was abundant, from which much perry was made, more than in all other towns within my knowledge. The tree then sprouted up abundantly so as to be troublesome. Farmers in setting an orchard, generally set few pear trees for that reason. Two horse teams would come from Massachusetts yearly,

and get these sprouts to graft.

About thirty years ago, I wanted some to set Mr. Quincy discusses each of these heads with in the town of Parsonsfield, and went to my brother's in York to get them. I knew the few trees he had used to sprout so as to be a nuisance. I was disappointed when I got there, on being informed that pear trees had almost entirely ceased out, but they did not grow well. I procured young, thrifty, grafted trees from the West, and they did no better. I planted seeds and raised several trees, and they did not succeed any bettions of his manner of treating his grass lands, ter. I have still a few trees that bear sparingly, est trees, &c. &c., and in their appearance found ed my failure to various causes of location and culture, but am now convinced, from constant poor success under various circumstances, that the tree has ceased to flourish as formerly. Whether this deterioration will continue, or after a series of years the tree will again succeed as of old, remains to be seen. In the culture of the peach tree, since my remembrance, there has been a series of years when the tree was easily raised and did well, and then for a series of years none could be raised, and then again they succeeded well, except their liability to winter kill occasionally. It may be so with the pear. The cause seems to be among those hidden things in the operations of nature we cannot fathom.

Parsonsfield, Me., 1859. Rufus McIntire.

Somebody says the conversion of a South qualities are warm and stimulating-the very Sea Islander is an easy matter, compared with that



A PAIR OF JAVA FOWLS.

low, we copy from Bennett's Poultry Book.

These, like all other pure Java fowls, are of a black or dark auburn color, with very large black legs, single comb and wattles. They are good layers, and their eggs are very large and wellflavored. Their gait is slow and majestic. They the country, and are frequently described in the books as "Spanish fowls," than which nothing is more erroneous. They are as distinctly an original breed as the pure-blooded Great Malay, and possess about the same qualities as to excellence, but falling rather short of them as to beauty. mage is decidedly rich.

Mr. C. N. Bement, a distinguished breeder, and other crops. writer on the subject of poultry, says of this fowl:

the common fowl and the India fowl, peculiar to food most conducive to health in man or beast. the island of Java, where they are seldom reared A man would not long survive if fed upon sugar but for fighting; and are said to be so furious, or venison alone, and a dog would not live six that they sometimes fight together till death of months if fed wholly upon fine wheat flour. Yet one or the other separates them. According to all admit these substances are highly nutritious. Willoughby, it carries its tail nearly like the turis smooth, like that of a pheasant. This fowl is A change of food is beneficial to stock, and in

The account of these fowls which we give be-|very high on its legs; its tail is long and pointed, and the feathers of unequal length; and, in general, the color of the feathers is auburn, like the vulture. It is generally supposed the English game cock originated, or is a cross of, this variety."

The above quotation is a description of the are, in fact, amongst the most valuable fowls in wild Indian game, and not of the Java, except in

> For the New England Farmer. TURNIPS.

Mr. Editor:—I have read with interest, the This, however, is a matter of taste, and some con- numerous articles on turnips which have recentsider the pure Java superior to all other large ly appeared in your valuable paper. There seems fowls, so far as beauty is concerned. Their plu- to be quite a difference of opinion among agriculturists respecting their value, compared with

Experience proves that animals do not thrive "This is a singular breed, which partakes of best on the most concentrated food, nor is such

The analysis of the turnip shows a large per key. The Sieur Feurnier, informs us, that one cent. of water to the nutritive matter, but I beof this species was kept in Paris; it has, accord-lieve it to be more valuable to feed with other ing to him, neither comb nor wattles; the head fodder, than a strict chemical analysis shows it.

turnips are excellent to keep the stomach in no doubt they would have surfeited themselves tone, and give them an appetite for dry feed.

The different varieties of turnips vary in nutriment. The Swedish I consider best, but my experiments have been mostly with the English, which I have raised and fed for several years.

I frequently winter a part of my cattle upon corn fodder, straw and turnips, until the latter are fed out, when I use corn meal as a substitute for the turnip. As nearly as I can judge from the growth and appearance of the stock, (and I have observed them closely, to satisfy myself,) six bushels of fifty pounds turnips are equal to one bushel of corn, to feed with coarse fodder. When corn is worth one dollar to feed, I value turnips at one shilling per bushel. In many localities, ten bushels of turnips are more easily raised than one of corn. I have frequently raised good crops, at a trifling expense in cornfields where the worms had destroyed a part of the corn, and it was too late in the season to replant it, by sowing broadcast and cultivating and hoeing in JAMES R. WALKER. the seed.

Springfield, Vermont, 1859.

EFFECT OF GREEN RYE ON THE MILK OF COWS.

T. P. Shepard & Co. lately made the following statement to the Standing Committee of the Rhode Island Society for the Encouragement of

Domestic Industry:

"On Thursday, Nov. 5th, we turned fifteen milch cows into a lot containing sixteen acres. Eight acres had been planted with corn this scason, and harvested a few weeks before. Eight acres were sown with rye in September, which had come forward very fast, and commenced to joint. On Thursday and Friday the cows fed exclusively in the corn-field, gleaning the corn fodder and a few small ears of corn that remained upon the ground. During these two days there was but little increase in the milk, and no change in quality. On Saturday, Sunday, Monday and Tuesday, the cows fed in the rye field, and the quantity of milk was increased more than twenty per cent. On Saturday the milk had a slight unpleasant flavor, which increased, until Tuesday it was so offensive to the taste and smell, as to be wholly unfit for use. On Wednesday the cows were turned into the meadows, and on Wednesday evening the milk was perfectly sweet, and free from any unusual flavor. During these days the cows had no access to salt water, salt meadows or fresh bogs. There were no weeds in the rye field, and no more among the corn than is usual in a well cultivated field. The cows were as usual stabled at night and fed with clover hay.'

REMARKS .- Our cows feed upon rye, not only without detriment, but with decided advantage. The land upon which it grows was plowed last September, and sowed to rye and grass seed. As soon as the rye was four or five inches high, we turned the cows upon it, and they have continued to keep it pretty well cropt. If it had been allowed to grow until it began to joint, and eyes.—Prairie Farmer.

winter, when animals cannot get green food, the cows had then been turned upon it, we have and quite likely some unpleasant flavor would have been imparted to the milk.

> That is not the way to treat cows with such food; it is no more rational than it would be to set fifteen hungry children down to make a dinner upon the richest pudding or cake.

> Farmers must exercise a good sound judgment in every department of their labor; that is the only safe guide for them.

NURSLING VESPERS.

BY REV. J. E. RANKIN.

A row of little faces by the bed, A row of little hands upon the spread, A row of little roguish eyes all closed, A row of little naked feet exposed.

A gentle mother leads them in their praise, Teaching their feet, to tread the heavenly ways, And takes this lull, in childhood's tiny tide, The little errors of the day to chide.

No lovelier sight, this side of heaven is seen, And angels hover o'er the group serone; Instead of odors in a ceuser swung, There floats the fragrance of an infant's tongue.

Then tumbling headlong into waiting beds, Beneath the sheets, they hide their timid heads, Till slumber steals away their idle fears, And, like a peeping bud, each little face appears.

All dressed like angels, in their gowns of white, They're wafted to the skies, in dreams of night, And heaven will sparkle in their eyes at moru, And stolen graces, all their ways adorn.

THE AMERICAN HOME GARDEN. Being principles and rules for the Culture of Vegetables, Fruits, Flowers and Shrubbery. To which are added brief notes on Farm Crops, with a table of their average product and chemical constituents. By ALEXANDER WATSON. Hustrated. Harper & Brothers, New York. A. Williams & Co., Boston.

This is a neatly-printed volume of 500 pp., on fine, white paper, and large, clear type,—capital recommendation to any book. The opening of the book gives a plan for a garden, aspect, fercing, protection, mechanical preparation of various soils, draining, plowing, &c., and then passes on, touching upon every possible topic and manipulation necessary in the management of an American Home Garden.

There are ten thousand families in New England to whom this book, if read and practiced upon, would save annually more than ten times its cost. It is handsomely got up, and has the great merit of having a good index. We do not mean to say that it contains all the amateur might want, but that it is admirably calculated to benefit the American Home Gardeners.

A USEFUL FACT .-- In peeling onions, put a large needle in the mouth, half in and half out. The needle attracts the oily juice of the bulb, and any number may be peeled without affecting the

For the New England Furmer.

MENTAL ACTIVITY AMONG FARMERS.

The human mind was made for action, and is active, to a greater or less degree. From the utmost imbecility of infancy, there awaits it unlimited power, expansion and ennoblement, atmost daily exercise, and thus strengthens and matures. But as for a real desire for mental cul-

holy influences.

with it. ators may flatter the vanity of the farming com-tural papers, where on one page will be glerifica-munity in regard to their "glorious occupation," tion essays on farming and on farmers, on anothand what it may be, still the facts regarding their er, will be anecdotes or stories in which one of present condition remain as proofs that the oc- the characters will be a farmer, and where roughcupation is not wholly scientific, and that farm-ness and verdancy will be fully displayed in the ers do not yet rank with professional men in ideas and language imputed to him. And had point of intellectual culture. A farmer in our it not somewhat of a foundation in truth, it would country towns can get along, and be successful not be sanctioned by public opinion. Again, if to a certain degree, with a practical knowledge studies are useful in the judgment and disposiof his business, as well as can mechanics with tion of business, it is certainly a consideration theirs; admitting, however, that science may be, also worthy of their commendation. The farm and often is, called into the aid of both, and that would furnish for it ample scope, and return sat-with the most happy results. But this fact is isfactory reward. sufficient to our present purpose, that farmers | One reason why studies are contemned by praccan succeed without extraordinary, and even with tical men is, that those who use them are too apt meagre mental acquirements and advantages, to spend time over them to the neglect of their This fact that they can, is indisputably estab-business. This the same writer calls sloth. A lished by the fact that they do. Still it may be man must use judgment here, as elsewhere, in

tainable by gradual steps of progress. Not by ture and development, resulting in earnest menflights or leaps, but by toiling self-culture, does tal effort, farmers as a class, to say the least, are it rise from the mists and darkness of ignorance much below professional men; though they may to the elevation and clearer light of knowledge. rank as high or higher than other so-called la-On its own self will depend its progress and development. The obscurest son of poverty has within him the germs of greatness and happimuch less than from the importance and worth of ness, and that will for application which oft takes mind, duty plainly indicates. And as one reason the precedence of genius, is of more value than why their minds remain so dormant, their occupa-Crossian wealth, with all its advantages and lux-tion not absolutely requiring extensive mental acuries. Mind, then, in its normal and healthy quirements, their minds reach not that state of condition, is capable of continual progress, which mental culture in preparation for business, which should be sought by earnest effort.

Whether the mind or the heart, thinking or feeling, is entitled to greater regard, as more imtact and practical information for success, they portant, is a question long agitated and variously remain satisfied. Some minds among farmers, decided by different individuals. But the can- as among all classes, seem ever to have that dedid and enlightened will admit that the mind is sire, or to have had it awakened, by the requisite of equal worth, and should therefore receive equal degree of mental training; and they reach more attention. As an illustration of the baneful ef-fects of an opposite course, we have only to look at certain Christians who make the cultivation the farmer's occupation is consistent with the of the religious sensibilities the main object possession and indulgence of a literary taste; Their mental capacity remains about the same as whether the continual cultivation of the intellect twenty years ago, and so connected by sympa-is expedient, or even justifiable, in connexion thetic bonds are the mind and heart, that the re-with manual labor on the farm. But with what ligious feelings of the latter, are often paralyzed assurance can one argue that a farmer's knowland bound in superstition by the neglect and edge and labor should be limited to his farm, and consequent narrowness of the former. Bigotry that his study should embrace only such subjects follows, as a natural consequence, which to all is as are intimately connected with it, and directly obnoxious, and injurious to the free exercise of subserve practical skill. Lord Bacon says, "Stud ies serve for delight, for ornament and for abili-Considering, then, the nature of mind as pro- ty. Their chief use for delight is in privateness gressive, and the study of all to allow it devel-and retiring; for ornament is in discourse; and opment by proper action, what degree of mental for ability is in the judgment and disposition of activity as favoring this do we find among the farming population? Many writers and orators, farmers, generally, have great facilities in leisure particularly on certain festive occasions, would and retirement for mental improvement. And make the occupation of the farmer very intellec- we doubt whether there is any class of men, taktual. They parade the names of nearly all the ing these facts into consideration, with the fact sciences, and very logically prove them connected that their physical exercise keeps the mind fresh, That they are, may be true. It is also and their relish for mental food ever keen, that true that some of the most practical and success- may experience more delight and real happiness ful farmers have no knowledge of these sciences, in studies, than farmers. For ornament in disexcept of a few facts and some general principles. course, many, and perhaps the general class, are Now, however much agricultural writers and or- deficient. Even in our most prominent agricul-

said that farmers rank as high or higher in intelligence, sound judgment and general informa-

tion than any other laboring class. There are

regulating his time and attention to his wants twenty, about half of which appeared to be the and pleasures. He who does this rightly, does Hubbard, and the others gave unquestionable evmuch toward forming his character to a perfect idence that their predecessors had been quite fasphere; the true object of man's life. Besides, miliar with the marrow squash. Most of the pure in perfect physical development, manual exercise ones have been very good; some of them have on the farm, combined with proper intellectual had quite a strong, rank flavor, which detracted culture, would furnish examples more noble than very much from their merits. Some of them, perhaps any other calling. Among farmers at cooked in the fall, were as dry and mealy as a popresent, it is not so universally the rule as among tato, so dry that milk had to be put with it to

has its origin in truth, we confidently assert that months longer than the marrow. sluggishness or emptiness of mind is not at all necessarily connected with farming. The fault, from causes we have mentioned, and which exist unreasonably and unnecessarily, is with the farm-

ers themselves.

To recapitulate, our points are briefly these. Every individual has an immortal element within, called the mind. This mind is intended, and grass itself, from which we have threshed the thereby fitted, for continual culture and develop-|seed, and found it agreeing with the samples of ment; consequently, it is duty to comply with seed. None of these are like the grass you were these, being the requirements of God. That for kind enough to send us,-nor does it bear any various reasons, the minds of many among the class called farmers lie in too dormant a state. That they have no sufficient and warrantable rea- specimen is not the true Hungarian grass. sons for this, and that the pleasures and advantages they would derive from mental culture would be sufficient, and more than sufficient, for the required labor and time. And that to many the great objection to farming-deficiency of mental activity—is not really attributable to farming, but to farmers; and that this, with many other method of treating kicking cows, nor do I beobjections, would be obviated by the course here lieve such means effectual or necessary. They advocated.

Life is not for inaction, quiet repose and the spoil than to reform. gratification of animalism. Beneath the pathway of every man lie the springs of happiness. and he must patiently dig for them, who would me that kindness is the only safe application to refresh his soul with their cooling waters.

Wayland, Mass.

L. H. SHERMAN.

For the New England Farmer.

HUNGARIAN GRASS---HUBBARD SQUASH.

MR. EDITOR:—As considerable interest seems to be felt in regard to the Hungarian grass, I will menacingly use their horns also, at the outset of give the result of a trial of it made last year by their cow-life, from fear or fright. Some wild Moses Parkhurst, in Paxton, about eight miles and furious boy or man is set to milk them for west of Worcester. On the 21st of June, he the first time, seizing their tender and unaccussowed two-fifths of a pint of seed on a little less tomed teats with rough and uncautious hands; than four rods of ground; on the 26th of July it the timid creature does just what nature sugwas headed out; on the 21st of August I saw gests, and what we should expect, viz.: kicks the piece, and cut up some stalks which measured the blockhead over, and our decision is, "served five feet high. The piece would average about him right." three or three and one-half feet high; the heads had begun to "turn" some, at this time. En-forbearance be now substituted for a beating, the closed I send you one cut at that time. It was cow may be saved—otherwise she is lost almost cut the 1st of September, and twenty-eight quarts to a certainty. A little timely caution, however, of seed were threshed from it, weighing at the may save all trouble and risk. Let the milker rate of fifty-two pounds to the bushel. The soil take with him—or her, (and females are uniformwas a good loam, such as would be considered by better hands at milking than males,) to the good corn land. I am not able to state its value stable some choice bit of food, and feed it to the be a valuable crop.

Gregory for some seed, and raised upwards of will soon do, and manifest it by signs which

merchants, and one or two other classes.

Get it through the sieve. It does not require

One of the great objections urged against farm-half the sweetening of the common marrow
ing is the lack of mental activity—that the mind squash. I have some in my cellar now, though
lies so dormant. Admitting that the objection somewhat decayed. They have kept about two

V. P. PARKHURST. Templeton, April 27, 1859.

Remarks .- We have received some half-dozen samples of Hungarian grass seed, all corresponding with each other; also, a sample of the special resemblance to them. We think your

For the New England Farmer.

REMEDY FOR KICKING COWS.

DEAR FARMER: - I do not much like your correspondents' (A. F. Adams and S. B. Hartwell) are dangerous experiments-much more likely to

A number of years' experience with a large number of cows and heifers, has fully convinced make to kicking kine, as well as to most other

vicious animals.

There is always some cause for cows kicking to be found either in their condition, or in the mode of treatment pursued by those having charge of them. This should be sought after ti found, and then the proper remedy applied.

Heifers not unfrequently kick, and sometimes

Now comes a critical point. If kindness and for fodder, but see no reason why it should not frightened and trembling brute from the hand; e a valuable crop.

The Hubbard squash being somewhat noted, I shoulders, talking soothingly and kindly to her will state that last year I sent to Mr. J. J. H. till she shall make your acquaintance, which she

you cannot mistake. Then approach and hand- to discriminate between what is an improvement. le with care, her teats and udder—see if they and what is said to be. are swollen or sore, which will often be found to The Rev. L. L. Langstroth presented me with be the case, and if so bathe them long and pa- the movable frame, or movable comb-hive; I saw tiently with soapsuds, applying a little oil or at once, that I could, if I chose, still use the simgreese to any chaps or cracks that may be found, ple box with the addition of the frames, and I and then she is in readiness for a very gentle at-could take out and return to the hive all tho tempt at milking.

fear of being injured, but sit up closely, and con-spring of '56. In '57 and '58, I introduced new tinue to talk low and kindly to your subject; be swarms in a large number, and have found the very cautious not to hurt or frighten her in the following advantages. least, and ten to one your task will be accomplished without the movement of a single hoof.

the wildest and most obstinate heifer to a gentle worth anything alone, continue to issue till the and loving cow, and I have seen them exhibit a parent stock was reduced too much, to contend

with profit.

heifers or reform the cow, let them be fattened ations can be prevented. A few days after th for the shambles, and others more tractable take first, and just before the second swarm, the combtheir places, rather than subject them to the rope, can be examined, and all the queen-cells removed strap, chain bull-ring, club, milking stool, or any but one. When the queen in that matures, it such barbarous inflictions.

Springfield, Vt.

E. INGHAM.

For the New England Farmer.

BEE-HIVES.

hives that I mailed to your address some months the bees are out in the middle of the day, taking it in the Farmer, I suppose the little money en- the queen is found, when the frame containing among the mails, who took the money and destroyed the article. The article referred to, was place. Enough bees will return to the old queen in reply to "Norfolk," on a charge of inconsistency, wherein he accuses me of "Preaching what son, enough brood will be in the combs, together ers of the Farmer might wish to know as well as "Norfolk," what right I have to recommend one hive, and afterwards use another. I intend to thereby gain several days in breeding. make a full confession, and if it does not fully exculpate me from blame, it may somewhat mod-but otherwise healthy, it may be assisted by some ify their feelings. I would say first, that I can-strong colony, merely by taking a comb or two not be charged with altering some simple thing filled with brood, and giving it to the weak one. about a bee-hive then obtaining a patent, and In a few days, the maturing brood will add macharging all a few dollars, who can be persuaded terially to its strength. In the same way, their to use it. All that the bee needs in a state of na-winter stores may be equalized in the fall; some ture, is a cavity suitable for rearing her broods, stocks will have too much, and others too little. and depositing her stores for winter. All that The changing of a few combs will make all right, man requires in addition, is an apartment that and benefit all. can be removed with surplus stores. A single

combs without injury to a single bee. I trans-Don't hurry, nor be in any perturbation from ferred bees and combs into some of these in the

Most apirists know that their stocks are quite liable in some seasons to overswarm, and have This process continued, will tame and subdue witnessed with regret, swarms too small to be degree of affection which intelligence might copy successfully with the worms. And as a consequence, both old and new colonies would be lost. If such, or similar treatment, will not tame the With the help of the frames, such ruinous oper finds no opposition-quietly remains, and soon becomes the mother in the old stock. I will presume that the natural history relative to this point is understood. This operation cannot be performed with a hive, in which the combs are fast.

Artificial swarms are successfully made with I have put off re-writing the article on bee-but very little trouble, as follows. When most of since, hoping that it might turn up. Not seeing out the frames, looking them over carefully till closed for the advertisement tempted some thief her is put in an empty hive, setting that on the I do not practice. That my instructions are not with those just matured, to keep the old stock for myself," &c. This, as far as myself is concern-sufficiently strong. If no queen-cells about fined, amounts to but little, but perhaps some read-lished are present in the stock, it is nearly al-

If, from any cause, a stock or swarm is weak,

Nature had to provide drones for isolated colbox in the plainest form was used for twenty-five onies, and when we bring together a large numyears, and nothing found to surpass it in conveloer, this instinct for rearing drones is retained, nience, safety, economy or profit. Believing it the best for the apiarian of any class, I recomthere is no necessity in an apiary of fifty or a three contents. mended no other in the work alluded to by "Nor- hundred stocks for any more drones than two or folk." And now for the sake of being consistent, three colonies might produce. So many drones must I adhere to this throughout, and deny my- cannot be reared without much labor of the workself the advantages that may arise from the minds ing bees, and cannot be supported afterwards of others? I think I would rather risk his charge without a great consumption of honey. Several of inconsistency. "The best way is as good as patents have been granted, the chief merit of any," and the moment that a man settles down into the belief that he has arrived at the summit with the movable combs, we can take the matter into the belief that he has arrived at the summit with the movable combs, we can take the matter of improvement, there is no further advancement into our own hands, and say in the spring whethfor him. There is a vast difference in the ability er we will have thirty, three hundred, or three

thousand, reared in any stock. It is done by re-makes it so. I am willing to adopt anything that moving the drone comb, or any part of it, and is shown superior to what I already possess. My substituting worker combs instead. these cells the bees cannot rear drones if they the utility of the thing. would. It is now pretty well demonstrated, In criticisms on this subject, it is best to avoid that the eggs of a healthy queen are all alike, personalities. I shall consider I am not called and the sex of the future bee depends on the cell upon to answer anything of the kind. in which it is deposited. If every drone we have reared was a worker, it would not only support itself, but would be likely to add to the common stores. The advantages would be, in having just

the wants of any colony. If there are too many

the stock.

which is enclosed.

"Norfolk" calls the "movable comb hive, un-But I apprehend this to be a matter of taste; as living, and when they are old enough to be put I make the hive, there will be no complaint in into stables and put to close confinement and this respect. The principal of the movable combs hard work, and especially when they are brought is the point that I consider constitutes the ad- to the city, they are changed from their native vantage.

I have but little interest, further than I should rest, and as the good people of old longed for the be pleased to have all admit that it was public leeks and onions of Egypt, so they long and hanproperty. Whoever succeeds in establishing a ker for their old grazing pastures of the country, claim, should give us something a little more reliable—something that would give us straight next best thing, and gnaw the cribs, and every combs with certainty; because now a colony will carriage and sleigh back they stand next to. occasionally make their combs crooked, and are

it is better, without pointing out what particular and roll for an hour at a time, if I could not spare

Without likes and dislikes are goverened by what appears

St. Johnsville, N. Y. M. Quinby.

For the New England Farmer.

The size of the hive can be graduated to suit CATTLE AND HORSES EATING BOARDS

combs to be properly protected from the moth, a part may be taken away, and returned as needed. The loss of queens in most apiaries is a seritive reason is, because he has kept them too ous damage. Except within the first few days af-close yarded, and has not let them get to the fresh ter its occurrence, there is no further means of earth during the winter, so that they could have ascertaining this fact, short of several weeks; by the privilege to eat dirt, grass, shrubs, &c., as is which time it is often too late to save the stock. But with the frames it can be ascertained at any time; and after the young queen commences her them up to hay, dry fodder and close confinement, maternal duties, only a minute or two is required they soon begin to hanker for a fresh bite of to examine the brood combs; any cells contain-grass, or to lick the ground, and if you let them ing eggs or brood indicate her presence. If she out, it is not uncommon for a creature to eat a is lost, another can be provided in time to save pint or even a quart of fresh earth at a time. e stock.

When I have been plowing in the spring I have These are some, but not all the advantages had oxen want to stop and lick a mellow looking that I have found in the movable combs. Sup-spot of earth that had been turned up by the pre-pose that I had recommended this movable comb vious furrow. I always let them stop and eat all hive immediately on being satisfied that I could they want. Cattle and horses should be let to run make it profitable; and then, as with many other out on a field or pasture occasionally, during the beautiful theories, failed in practice. I should winter, to gnaw the ground and grass roots, and have been worse off, than to be accused of if the snow covers the ground for a long time to"preaching what I did not practice." Prudence gether, they should be supplied with a few shovels should prevent any one from recommending an ful of fresh earth from some clean place under improvement based on theory alone. "Consist-the barn, or from the roots of an old decayed ency" dictates a different course. I have now tree, if it can be had. I never knew cattle to used these frames three summers, and know from gnaw the fence or their cribs in the summer experience what I say respecting them. Having when they run out, or even when they run at large in the winter, and if "Subscriber's" cattle might be so to others, and consider it a duty to give the public all the knowledge I possess in bee culture. I have, therefore, added an appendix to my treatise, giving directions for making this? It is the same with the horse; I often hear and using these frames, an advertisement of people complain of their horses gnawing their cribs. cribs.

Colts are raised in the country, and graze in wieldly." I have seen some that I think are so. the pastures for more than half the year for their element of grazing, and rolling and stretching In the controversy about the triangular guide, themselves out at full length on the ground to

I purchased a five-year old horse six years ago, of no value as movable combs, on that account.

I have given what to me are valuable points in the movable comb hive, and the reasons why they are so. Now will "Norfolk," "Clark," or any one, give us through the Farmer as minute an account of the "Union hive"—in what consists is superiority? It will hardly be satisfactory to say it is better, without nointing out what particular and roll for an hour at a time, if Leonld not soare

crib by biting it.

long and large as an ox goad, and I saw her strip a general favorite with our progressive farmers. a piece off a sleigh back, eighteen inches long and I am just getting ready to give it a fair trial. as thick as my thumb, and eat it, paint, varnish As yet I have only used it as a stubble plow, and all. I led her out two or three times a and find it A. No. 1. The team is ready to rolled, and then hitched her to the fence, for I the pen for the plow-handles. had no better chance, and treated her to as much old frozen grass and ground as she could reach. It entirely cured her gnawing in two weeks. So I have treated four horses within six years with perfect success, and I think if stable keepers should provide a soft place, 30 feet square if they could not get larger, for their horses to roll, three or four times a week, (for it is natural to a horse barrel of fresh earth for them to eat when they apple trees the last winter, by the bursting and want, their horses would be much more healthy, and they would have no cribbers.

ing his thoughts on paper than

Malden, Mass.

A. S. HALL.

REMARKS.—Your remarks, friend Hall, are practical, and will undoubtedly be extensively useful. Now give us some as good on those useless and cruel tormentors, blinkers and check reins, and you will do the community a good service.

DRAINAGE --- WHEAT-GROWING ---UNIVERSAL PLOW.

LETTER FROM LEVI BARTLETT, OF WARNER, N. H.

Warner, May 11, 1859.

have perused your new work on "Drainage." shire farmers.

It is now more than twenty years since I comthe interior of our State. There is a vast amount den bouquets of flowers. The consequence was, "the old Granite State."

ter wheat on underdrained land. From five years' in small pools, strong enough to bear a man. experience in growing winter wheat I am full in Two days afterwards, on the 13th, my son was the faith that it can be successfully grown in New skating on a neighboring pond! The change England. There was a large amount sown in from a summer to a winter temperature, so sudthis town, last fall, and it is looking splendidly den and almost instantaneous, caught the trees now. But to grow wheat successfully here, our full of sap, which froze and burst the bark as farmers must better understand the true princisoon as milder weather thawed it. This, in my ples of preparing and manuring the land for the opinion, is the cause of the trouble; if any of crop.

The improvement in agricultural implements hope to hear it.

his services longer. I kept him two years, and within the past twenty-five years is truly astonafter six or eight weeks he scarcely scarred his ishing. It is mere pastime to labor with these improved implements, compared with that of Four years ago I bought a five-year old mare, wielding the old-fashioned tools used by our that had been brought from New Hampshire and fathers. I have recently obtained one of Nourse, stabled in Boston six months for sale. When Mason & Co.'s "Universal Plows," with its series I got her she would eat an apple tree limb as of mould-hoards. I think it must soon become week, and held her by the halter while she hitch on to my new plow, and I must exchange

Yours, most respectfully,

LEVI BARTLETT.

Hon. H. F. FBENCH, EXETER, N. H.

For the New England Farmer.

CRACKING OF APPLE TREES.

Mr. Editor: -- Your correspondent, S. D. M., to roll and it rests them when tired,) and keep a of Mansfield, states that he has lost a number of splitting of the bark, and asks if there is any remedy. I am afraid there is none but to dig up the Blinkers and check reins also deserve an ar-trees and replace them. My own loss has been ticle, but from some one more capable of express-severe. I had two rows of fine, thrifty apple trees, planted in the spring of 1850. They had grown vigorously, were from twelve to eighteen inches in circumference, and had commenced bearing. Of these, I have lost ten, that I certainly would not have sold for two hundred dollars. One pair, especially, of Baldwins, so handsome as to be the admiration of all my visitors, was well worth a hundred dollars.

I discovered the injury some time in January; the bark was split from the lower branches to the ground, some five or six feet. The split was sometimes on one side of the tree and sometimes on the other; and before I finally dug them up, this spring, I satisfied myself that there was no hope of saving the trees, for I was able to pass My Dear Sir :- With much satisfaction I my hands under the bark, on either side, and meet my fingers behind. One which stood near Such a book was greatly needed, and I hope it the barn cellar will survive, the split being only may be largely patronized by our New Hamp-about eighteen inches long and the rest of the bark sound.

What was the cause of this mischief? These menced underdraining my naturally wet farm, trees grew on a heavy, strong loam, resting on and I have done more or less at it every year, a hard, firm subsoil, retentive of moisture. The during that period. I have mostly used stone last summer was cold and wet, followed by a very for the purpose, but in some instances they have mild and pleasant fall. So remarkably mild was failed by the burrowing of field mice and moles. the season, that I had dahlias in flower until I trust the time is not far distant when drain tile November 10th, or three weeks later than ever can be had at reasonable cost by the farmers in before, and on that day gathered from my garof valuable land in the State that needs draining, the trees made a late and vigorous growth, and which, if properly done, would add tens of thou-had not matured and ripened their wood. On sands of dollars to the agricultural interests of the night of the 10th of November the temperature changed suddenly; on the morning of the I have succeeded in growing fine crops of win-11th the ground was frozen hard, and ice made your correspondents have a different solution, I ing a dry soil by draining. Had this land been as thoroughly drained last year as it is now, I think I should have saved my trees. Of a large number of pear trees, and a few other apple trees, growing on similar soil, but thoroughly underdrained, I have lost none. C. A. Hewins. West Roxbury, May, 1859.

Remarks.—The loss of which our correspondent speaks, to us would be a serious one. Money in any amount, would scarcely pay us for trees planted and reared by our own hands. We have had several fine apple trees badly cracked, but they have all lived, and appear to be doing well. The true mode of preventing it is, undoubtedly, as Mr. Hewins suggests, underdraining.

TRANSACTIONS OF THE ESSEX AGRI-CULTURAL SOCIETY.

This is quite a volume, and one of the most interesting and valuable that has been issued during the past year. Eloquence and poetry ing wet meadows, show that these important subhave contributed their charms to add to its val- jects are receiving due encouragement in Essex. ue. The addresses of Dr. LORING and EDWARD EVERETT are both eloquent and instructive, and Giles Corey's second dream is full of humor and wit. Then follows an account of the bequest of analyze, and point out their excellences. ture, by J. M. IVES. Whatever he says upon is awarded. this subject is reliable and instructive. He is entitled to speak, for by long experience and crit-contained in the library belonging to this Socieical observation, he has acquired much knowl- ty, which is much the most valuable library beedge in this department.

beautiful subject-Flowers. The display of flow-Society what it is, one of the most flourishing, ers was an attractive feature at the Exhibition. harmonious and successful societies in the State. The 160 varieties of dahlies, with their 300 blossoms, was an exhibition by itself well worthy of a visit, and we think the \$8 premium well bestowed. There were \$40 awarded for flowers, and their display contributed more to the promotion of taste and refinement, than the exhibition of fast women, or fast horses, on any trotting course in the State. The letter of N. PAGE, on the robin, as a devastator of fruit, is racy and entertaining.

There is a valuable report by G. P. SARGENT, on the comparative value of crops as food for cattle, well worth a careful study, and shows much research upon an important subject. The reresearch upon an important subject. The reports of Dr. Loring and Mr. Rogers, upon less. milch cows, are drawn up with much care, and

The lesson I draw, is the importance of creat-ed for stallions, breed mares and farm and draft horses. Trotters and roadsters do not seem to have been admitted to the lists, not being considered farm stock. Sixteen premiums were awarded for plowing. Good plowing is always considered worthy of encouragement by the judicious managers of this Society. We are sorry to see a movement to abolish plowing-matches, though we confess that they need some radical changes.

There are valuable statements respecting the work and construction of mowing-machines, a subject of much importance to farmers who feel the need of such machines, and are unable to decide which is the best. There is an interesting paper upon Poultry, by JAMES J. H. GREGORY, and a valuable paper upon Manures, by Wm. D. NORTHEND, which contain much important instruction. The statement by SAMUEL RAYMOND, about his farm, will amply repay a careful perusal. Those on underdraining and the reclaim-

The statements on the various subjects to which we have referred are carefully prepared. There are several of them which we should be glad to the Treadwell farm, and the arrangements for awards are made by the committees of this Soits management which have been made by the ciety without careful statements. This is as it Society, and the contract with Mr. Brown, the should be. For these statements, when properly farmer who has taken it in charge. We shall prepared, are really the most valuable part of watch the operations on this farm with much in- the reports, and no premium should be awarded terest. After these, commences the Report prop- without them. The statement should be consider, with a paper of great value upon fruit cul- ered a part of the object for which the premium

The volume closes with a list of the books longing to any county society in the State. This The next paper is a beautiful essay upon a library has contributed very much to make this

For the New England Farmer.

DISEASES OF HORSES.

MR. EDITOR:—The 11th day of January last was the coldest day I ever experienced. A day or two after, I discovered that my young horse was diseased, and supposed it was caused by the severity of the weather. Upon examination I found the disease was in her spine, at its junction with the hips, as there she was very sensitive.

It is not necessary for me to describe the condition she was then in, for her disease was strikworse until her hind limbs were well nigh use-

Of the nature of the horse and of his diseases are model reports. Liberal premiums were award-I am totally ignorant, and having no one near me capable of giving instruction, my only resort was to the small stock of common sense I pos- on sale, and that was all. Much attention was sess. My judgment dictated a different course attracted by the agricultural implements exhibfrom that pursued by Mr. S. I neither took blood ited on the ground, including a horse-hoe, some nor gave physic, but thinking that strength was mowers and reapers, and the like. better than weakness, I gave her a more genererous diet-applied beef brine to the weak part engine-house at 10 o'clock. Dr. Robinson, of often, and a stiff brush, and kept her covered West Newbury, presided, and Allen W. Dodge, with a warm blanket, (she had never been blan- Esq., of Hamilton, was sccretary. keted.) This treatment proved salutary, and she hours.

West Windham, N. H., April 20, 1859.

MARKET DAY AT NORTH ANDOVER.

The second of the market days or agricultural Kelly. exchanges established by the Essex County Agricultural Society, was held on Tuesday at North ber, annually. Andover, about two miles from Lawrence. In point of attendance and extent of sales, of course, it was not so large as the market day at South of Trustees of the Essex County Agricultural Danvers a fortnight since. Considering the chilliness of the day, the busy season, and the fact that this was a first attempt at North Andover, the fair was as successful as could have been expected. In the middle of the afternoon, in the height of the bargaining and sales, some rain fell, which, market days were thus appointed: of course, threw a damper on everything. The pens of the Society were erected on an elevation of North Andover, H. K. Oliver, of Lawrence, near the depot, and there were three or four hun- J. H. Morse, of Lawrence, J. O. Loring and Otis dred persons present most of the time. The en-Bailey, of North Andover. tries of stock with the Secretary consisted of 22 horses, 95 swine, of different sizes, including pigs, Dr. Robinson, of West Newbury, Enoch S. Wil-126 horned cattle, including oxen, steers, heifers, cows, calves and the like, about a dozen sheep and a number of coops of fowls. There were At Georgetown, Major Ben: Perley Poore, of Manuel Control of the Control o several good stallions brought forward for exhi- Newbury, Moses Tenny, S. Little, George W. bition by their owners, and among the fat cattle Boynton and Col. Nelson, of Georgetown, and some excellent specimens, including a pair weigh- D. S. Caldwell, of Newbury.—Traveller. ing 3190 lbs., belonging to J. H. Barker, of North Andover; a pair weighing 3088, belonging to William Foster, of North Andover, and a yoke weighing 3360, to Dean Andrews, of East Box-ford. There was one fat steer five years old, PREPARING MEADOWS FOR CRANBERweighing 2400 lbs., which belonged to John Barker, of North Andover. In the matter of fat cat-14 yoke.

Among the private sales, a yoke of fat cattle subject. belonging to J. French, of Danville, N. H., and \$4,50 each.

yoke of oxen was sold to J. W. Smith, for \$52: together, the nearer the better. The brush need another yoke to some person for \$100; a young not be removed from the meadow, as the vines bull for \$9; a horse for \$18; a cow for \$20, to will climb upon it, and in a few years it will rot Mr. Danie; a cow and calf to Seth Chase, for and sink. I think this a much better way than \$32; a horse belonging to Mrs. Sargeant, for sanding the ground. A layer of sand four inches \$44; another for \$41; an ox-cart for \$30; anoth-thick, at 10 cents per yard, would cost \$56 per er for \$15; a wagon for \$63; horse-cart for \$11. acre. There were in all some thirty sales at auction, As the land which is best fitted for cranberry but in many of these cases the animals were culture is, usually, the poorest for other purposbought in by the owners, to save loss.

There were several wagon-loads of vegetables

The Board of Trustees held a meeting at the

Mr. W. R. Putnam, of Danvers, made a wellis now as well as ever. So sick was this beast founded report showing the great success of the at one time, it was thought she could not live 48 fair at South Danvers a fortnight since. Reports were made in favor of holding market days as follows:

> At Newburyport on the second Tuesdays of April and October; the fair in October will coincide with the annual fair of the Horticultural Society at that place, under the presidency of Dr.

At South Danvers on the 3d Tuesday of Octo-

At Georgetown on the 3d Tuesday in June, when will occur the annual meeting of the Board Society.

At North Andover, annually, on the 2d Tues-

day of September.

At Lawrence on the 4th Tuesday of October. Committees of Arrangements for the different

At Lawrence and North Andover, J. Kittredge,

At Newburyport, Major Ben: Perley Poore,

For the New England Farmer.

RIES.

Mr. Brown:—I noticed in the N. E. Farmer tle the show was excellent, including no less than for April 16th an article on raising cranberries which did not correspond with my views on the

Your plan of covering the ground with sand weighing 3380 lbs., were sold for 8½ cts. per lb.; is, it seems to me, too expensive, when the ground two fat cows, J. P. Putnam, Andover, 7¾; two can be prepared as well, at less cost. My plan, heifers, for \$35; a sheep and lambs for \$12; one calf and sheep for \$8, and there were some other private sales which did not become known as and keep it flowed for three years, which will be to price, and were to drovers. Some shoats for sufficient to kill the grass and bushes. The land is then in an excellent condition to set the vines, The sales at auction were more numerous. A soft and mellow. The vines should be set near

jes, and as good land for cranberries can be pur-

chased for from \$5 to \$10 per acre, it seems to all, or nearly all, if I had not applied the guano, me that when they can be brought into good con- as I had in years before. dition in three years, by water, at very little expense, it is folly to expend \$50 per acre to has-guano in season and had no trouble with the mag-ten the growth two years. Besides, it is usually got. They might not have troubled me if I had considered here that the deep muck of swamps not used the guano. I do not know every rope

Land for cranberries, it is almost indispensable to have plowed in winter; in fact, their cultivation, where the land is not flowed, will always be attended by trouble and considerable satisfied with the result, and shall try it again. expense, as the frost is sure to throw them out of the ground in winter.

I should like to inquire if anything can be done to prevent the frost injuring the berry? Would peat, old hay and brush, burnt in the meadow during frosty nights, save the berries? Addison Flint.

North Reading, May, 1859.

P. S.—Since writing the above I have seen a query in the Farmer in regard to the time of setting cranberries.

has taught me that October is the best season to set vines, if they are to be covered with water; otherwise, May.

cessful cranberry producers in our knowledge. place where there is a greater per centage of su-We have visited his meadows, and found them as in the free, sandy soils of Plymouth county. exceedingly fruitful, and the fruit of the finest I have not a doubt it would be a paying business, kind.

When we spoke of covering land with sand, we intended to refer only to small patches suffi- ists can see that they can make money in procient to raise a supply for a single family's use. ducing clean sugar for our own use, sugar that has When a sand bank is directly on the margin of not been through the careless, slatternly hands the meadow, however, the reclamation may some- of persons who have no interest in making it or times be profitably made in this way.

For the New England Farmer.

GUANO ON ONIONS.

Mr. Editor:—In the N. E. Farmer for April 23d, I saw a communication from "South Danvers." He says, "my neighbors wish to know something more about Mr. Emerson's discovery whereby he received a good crop of onions. And yet he says those same neighbors know every rope in the ship. No one can tell them anything about onions, &c. I only stated a fact that passed under my own observation, not to instruct people who know every rope in the ship, who cannot learn anything new, because they know every thing about it. For such people are beyond being benefited by any teaching.

I wrote it for the benefit of those who were not perfect, who, like myself, like to read the experiments of others, and profit by them, or, at

least, try such as may benefit them.

I stated that I noticed that my onions were wilting; I should think one-third were down. I examined the wilted ones and found a maggot in the stalk, just above the onion. I sprinkled on a good coat of guano, and no more died, but the two-thirds grew finely. Whether all died that deep with a stick, and put about a teaspoonful would have died, if I had not applied the guano, I of fine salt at the bottom of the hole; rattle a

That trial was in 1857. In 1858 I applied the is more favorable for the growth of cranberries in the ship. I raise very few onions—just a small than sand.

bed for family use. Never raised 100 bushels in my life, and most likely never shall.

I sprinkled the guano on the onions, probably at the rate of 400 or 500 lbs. to the acre. I was

Ed. Emerson.

Hollis, N. H., April 29, 1859.

EXTRACTS AND REPLIES.

BEET SUGAR, AND PAPER FROM BEETS.

I was pleased to see the sensible article from the pen of your intelligent correspondent, Mr. Cruickshank, in the Farmer of May 7, on the value and use of beets for making sugar and pa-In answer to that I would say that experience per. I have often thought, as I have been through a pretty thorough school of mechanics, and now a farmer, that if I had the capital, I would go to France and see the thing done, of making beets into sugar and paper, and then start it here. I am quite sure that there is no gar in the beet, and but few where it is so large, combining Yankee ingenuity with French expe-

Please keep the "ball in motion" until capitalkeeping it clean. CALEB BATES.

Kingston, May 9, 1859.

ers, I wish to make a little inquiry.

GRASS ROOTS AND "SWARD WORMS,"

As your paper is made a medium through which the ignorant can display their ignorance and the learned impart their knowledge to oth-

I have a field the soil of which is a deep, darkcolored, firm, moist loam, free from rocks, with the exception of a few granite boulders. After having been laid down to grass about three years, the grass roots are entirely destroyed, leaving but little sward on the field, and destroying the grass crop almost entirely. From the fact that there are great numbers of large white worms, known as "sward worms," to be found in the soil, I have been led to suppose that it is this worm that commits the depredation. If you, or any of your correspondents, have had any experience similar to this, or have seen anything of the kind, and can give or suggest a remedy, it will be gratefully received through your paper. Greene, Me., April, 1859. Androscoggin.

HOW TO RAISE CABBAGE.

Make a hole in the ground three or four inches could not tell. I supposed I should have lost them little dirt in on to the salt, and then set the

plant. About a week after the cabbage has been set, taken root and begun to grow, put as much salt in a circle two or three inches from the has made this season 7,100 lbs. of tip-top maple plant on top of the ground; take care that no sugar. salt comes in direct contact with the roots. Do not put much manure under the plants, but leach I understand, over four tons. Beat this you the manure and put the liquor round them at | Chinese cane breakers, if you can, at the same sundry times. Do this, and I will warrant good cost. cabbages. WASHINGTON HALL.

Brewer, April, 1859.

LAW REGULATING THE SALE OF MILK.

Does it render farmers liable for delivering milk to the milk-venders who provide unsealed cans for its reception?

How does it affect existing contracts?

If under present contracts milk-venders refuse to provide sealed cans, what is the farmer's remedy? Shall he refuse to deliver, as heretofore contracted, or shall he deliver as usual, and obtain satisfaction by process of law?

When does the act take effect?

REMARKS .- We refer our correspondent to the entire law given in the Farmer of April 23, and which will be found in the monthly for June.

WIRE FOR FENCES.

What kind of wire is best for a fence? What is the cost of it, and wlfere may it be obtained? SAMUEL B. BIRD.

Framingham, May, 1859.

best size for a wire fence, though some persons use a much larger size. It costs about six cents

for sale, recently inquired for. Price 60 cts. per the button rush, with a stem of the thickness of bushel.

POTATOES.

The potatoes I send are a variety raised from the seed about fifteen years ago; they are an ex-the top, close to the ground when in blossom. cellent, early potato. By your description of those sent you by Mr. Hazeltine, of Strafford, I think this may answer his inquiry, as I gave some to a man that lived in Strafford some years ago. Thetford, Vt., May, 1859. A. C. HOWARD.

REMARKS.—Mr. Howard has our thanks for without effect. the nice potatoes sent us. They are not the color or form of those sent by Mr. Hazeltine. We will plant and test them.

TRANSPLANTING PINES.

subscriber, "OAK HILL."

May 12, 1859.

MAPLE SUGAR.

Damon Bridgman, of South Hardwick, Vt.,

Joseph S'evens, of East Hardwick, has made.

Hardwick, April, 1859.

PLUM TREES.

I have some red plum trees which blossom full every year, but do not bear much; I have some white ones, also, which are set with the red ones, which bear. I have tried a great many things which have not done any good, and would inquire if there is anything that would make them bear? The trees are very thrifty.

Bethel, Vt.

A Subscriber.

For the New England Farmer.

PLANTS WITHOUT LEAVES.

Messes. Editors:—Having seen in the monthly Farmer, February, 1859, page 59, an article entitled "Roots cannot grow without leaves," and thinking the writer in error, I will state my opinion. It is a known fact that there are numerous exceptions to the general rule; for instance, there is the plant found growing in wet places, known as the bulrush; it shoots up numerous spikes or stems, that are from one to three feet REMARKS.—We think number six wire the in height, and from one-fourth of an inch in diameter downwards, without leaves, or the appearance of leaves, for the first four or six weeks, when it throws out the short stem on which the seed grows, but not any leaves. If any one doubts Mr. Bird has some of the long red potatoes its having roots, try to pull one up! There is a goose quill, or larger, but it has no leaves. There is the house leech, or live forever, the top of which will grow any length of time, severed from the roots, and suspended by a string. A good way to kill the Canada thistle is to cut off when the stalk is hollow. When it rains, the water runs down the stalk, and rots the roots. The absence of leaves will not do it, for without hollowness of stalk, you may cut them from July to December, clip, or burn as you please, but

Ripton, Vt., April, 1859.

For the New England Furmer.

WINTER WHEAT.

Hundreds of farmers in this State do not raise Can you or any of your subscribers inform me, this grain, simply because they think they canthrough your columns, the best time of year to not. I have tried both upland and intervale, and transplant pine trees from the woods to decorate find it does best on upland where I never mangrounds around one's house, &c. Also, if any ure it. I always select good, warm pasture particular care is needed as to their transplant-land, (the older the better,) free from strong ing? I wish to learn where I can obtain a winds and standing water, and where the snow "Muscova Drake" and two "Muscova Ducks," of remains on as long as on any part of the farm. the best breed known. Where may I be able to Break it up any time in July or August. Sow obtain them, and at what price? Any reply will from the 20th of August to the 1st of Septembe appreciated by your faithful reader and old ber, at the rate of one and a half bushels per acre. Get it in two or three inches deep, if posble, with a plow or cultivator. After it is up a

coating of plaster, lime or guano, will help it very much, especially if dry. Prepare the seed the same as for spring wheat. Wash thoroughly, pickle in strong brine twelve hours or more, and mix with ashes or slaked lime.

In this way I get from twelve to fifteen bushels per acre, and think it doing well without manure. Have never tried manure on upland,

but presume it would do well.

The kind of wheat called the White [Winter? Ed.] Blue Stem stands winter best. I have raised the above quantity, per acre, without applying anything but dry wheat and simply har-N. F. Morrill. rowing it in.

Sanbornton, N. H., May, 1859.

REMARKS. - Excellent, plain, and seasonable suggestions. Try them. By applying a moderate quantity of well rotted manure to the pasture land spoken of, we have no doubt the crop would be increased from twelve and fifteen bushels to twenty bushels per acre.

CLAY AS AN AMENDMENT TO SANDY SOILS.

Soils void of clay, or containing it in too small a top-dressing, and particularly when the clay finds its way to the soil through the compost er of absorbing ammonia and other products of decay, and afterwards yields up to plants the materials thus absorbed. While the clay is thus performing an useful office, itself is changed in condition so as to lose its greater tenacity, only firmness to sandy soils after its addition. $_{\mathrm{The}}$ incapable of retaining manures, and indeed when One thousand bushels per acre is sometimes quite If I wished to raise horses to sell in the city even blowey, is not as large as many suppose. When clay and vegetable mould can both be added stallions and mares, the former of which is very to sandy soils, as in the vicinity of muck deposits, then the amendment is still more perfect.

The value of this kind of amendment is its permanency; for as the clay is not appreciably used by plants, it continues forever to imbue the sand, and each year to re-perform its function of retaining gases, abstracting valuable constituents

to the soil.

notwithstanding the peculiar light condition of by repeated failures. the dry surface, are still more difficult to disinregrate deeply by a sub-soil plow than heavier hail of Plymouth rock, told me a neighbor of his soils, settling by rains like a sea beach; in such was enabled to ripen his Isabellas in perfection, cator to the surface of their particles, and after top of his trellis. Confirmatory of the above, I ed.—Working Farmer.

For the New England Farmer.

HORSES.

Too much vigilance is seldom known on the part of proprietors of mares, in selecting a horse to breed from. Hundreds of horses are offered, and urged as breeding stallions, a large number of which are objectionable by way of sad blemishes, bad proportions, or age. Their proprietors have a smooth story to tell. If his feet are contracted, small and of course weak, that is nothing, he was stabled too young. This stock will be just as good as though he had good sized and strong feet. If his knees are sprung, small, and of coarse weak, the story will be, he was put into a stall of some peculiar form, that caused his knees to be so. But that will not affect his stock. And so of all other weaknesses, disproportions and blemishes. Old horses, or mares, are objectionable for breeders, from the liability of their stock to possess the debilitating effects consequent upon age, which may not be discovered until labor is required of them.

Stallions are taken to the premises of persons, and many good qualities asserted and urged to induce patronage. I would say, hesitate, look for yourself, if you have confidence in your own judgment, if not, take some friend who is unbiased, to assist you. Generally, the best horses a relative proportion, are materially improved by are not taken around the country for customers. If a horse has a reputation at home, he may stay there and save his proprietor much labor and exheap. In such case it exercises its peculiar pow-pense. I would select a horse to breed from with every good quality possible, combined, viz: feet, which should not be contracted or flat; legs which should not be too slim or clumsy, but wide and sinewy; well spread knees, and prominent hocks; cords large, and highly developed musholding this property in a sufficent degree to add cles; full in the flank, deep in the chest; round barrel, a well placed shoulder, neck long enough quantity of clay required to amend a sandy soil so that he can put his head up or down; not too thick under the joles, well proportioned head, and active ears.

sufficient, if evenly spread and left on the surface markets at high prices, I would select a stallion, for a time, before being plowed in, so that rains and dews, assisted by sun and air, may cause the division to become when the surface or 16 hands high, with the above qualities, division to become more perfect. It is not the weighing about 1100 pounds, and possessing acclay alone which corrects blowey sands, but in the time of the highest degree. It is a fact that farmaddition to its own effects directly, the roots of ers may increase their interests in horse-raising crops, grown by its assistance, lend their aid to a very great extent, by judiciously selecting

A N. E. FARMER.

For the New England Farmer.

RAISING GRAPES.

MESSRS. EDITORS: - Within a few days I have from solutions, in addition to its mechanical use become possessed of information in the culture in giving the necessary solidity and adhesiveness of the grape, which is new to me. It may be so to some others who would like to grow the Ca-Many are not aware that some sandy soils, tawba and Isabella in perfection, but are deterred

A distinguished horticulturist residing within sands many kinds of clay seem to act as a lubri- having built a coping of some two feet on the being clayed, they may be the more readily plow-give you an extract of a letter, received from Bridgeport, Conn., a few days since. "I find no

mildew on my vines when they are trained under ask this public benefactor, whom, I trust, the a projecting cornice of my barns, so that they grateful public will not permit to wilt away like EBEN. WIGHT. entirely free."

Dedham, May 2.

For the New England Farmer.

IT LOOKS VERY LIKE A SHAM!

MESSRS. EDITORS :- I have before me, and I presume many of our friends have received the same, a stylish circular, which calls upon all creation and his brother to save trees, plants, vines, and millions of dollars a year, simply by the his powder, and that is, if one table-spoonful be purchase of a certain magical powder, which dissolved in a gallon of water, and any variety of works in a magical sort of a way, throwing all garden seed he soaked in the solution, the plants the wonders of the ancient necromancy, far into which spring from these seed, will be preserved the shade. The author tells us a great many from the inroads of insects! Whew! wonderful things in this circular. It appears is Mr. Mayor Tieman about these days? that this powder of his has only to be tucked under the bark of any tree, to give marching orders to every insect, from buds, leaves, bark, wood or fruits. Mirabile dictn! The theory of the man who controls this wonder-worker, is, that the tree had suddenly found light, and discovered a sure who controls this wonder-worker, is, that the over has some way of swallowing the powder, and disseminating it throughout its Etructure. Being but an inquiring Yankee, I would like to ask him a question or two. Just to give him convenient standing-room, we will assume that the tree will of many plum trees were to be seen, but one or two trees remained; and also for human conceit. take this powder into its circulation when thus two trees remained; and alas, for human conceit, applied; now, with the perpetual circulation of there stood the villanous black wart; there could the sap during the growing season, and the con- be no mistake about it. tinual change of raw material into organic structure, by what magic is it proposed to keep the an extensive area, abounding with trees, shrubs, virtues of this powder permanently in the tree, so that every new bud, leaf and twig, as it develops, may receive its quota of the marvelous protective power? If it is a fair inference that the protection, which he says, is the results of its application, turns on some disagreeable flavor may have proposed to themselves to invest in given to the buds, leaves, fruit, &c., whereby the this thing, that powder is sometimes a very danmarauding insects become disgusted with their gerous article, and that many a man has, before food; may not we, poor pigmies, be permitted to this, burnt his fingers in the handling of it. Retailed to the control of indulge the hope that at some very early day this great patent-powder man will extend the area of his benevolent operations, and enable each of with it. us to flavor our fruits to suit our palates? What a capital thing it will be to have, say a patent "sweet apple powder," subject to our dimes, by clapping which under the bark, all our savage old crabs will forthwith be compelled to set their internal laboratories in action, and manufacture sugar to order, instead of vinegar! When these haleyon days dawn, farewell to budding and grafting, relics of primitive ignorance; I shall then have merely to shake a paper of the patent-powder on my old choke pear stalks, when, lo! this one, despite any natural aversion to the contrary, must yield Bartletts, and that one must yield of really more importance in the successful man-Seckles; all opposition will be utterly useless; Mr. Patent-powder says so, and therefore old "choke" can't help itself.

There is one other question I would like to be neglected.

get no rain or drip. I have on a western expo so many neglected geniuses of this class: Was it sure the most perfect Catawba and Isabellas his great-grandfather, or was it his great-greatwhen thus protected; while part of the same grandfather, that aroused a slumbering world, vines which are not so protected, but which con- about a century or so back, by the wonderful distinued beyond, are ruined in fruit and leaves, covery that all vermin and diseases of every This has occurred for several years in succession. kind might be expelled from our fruit trees, sim-I have no doubt that vines on a lofty trellis or ply by boring holes into the trunk and filling wall, with a coping of two or three feet, would be said holes with good New England rum? And was it not his great-uncle who discovered, somewhat later in the day, that the enemies of our noble elm would be easily repelled upon boring like holes and filling with quicksilver? I feel a great interest in making these inquiries; I always love to look twice on the physician who . tells me he is the seventh son of a seventh son, and am somewhat anxious to know whether our patent-powder man is not one of the same distinguished class.

There is one other miracle which he claims for

A few years ago another distinguished friend

Now, I presume our patent-powder man has

In conclusion, let me warn all friends, who may be that even Mr. Discoverer himself will get no gentle hoist before the public are through with it.

J. J. H. GREGORY.

Marblehead, Mass.

KIDNEY WORMS .- Swine are often troubled with a disease denominated by veterinarians, the "kidney worm." Corn, soaked in very strong lye made of wood ashes, is said to be an infallible remedy. Salt and brimstone, in small quantities, is a preventive, and, indeed, the only one known. Comfortable quarters and good food are agement of these animals than many are inclined to suppose, and should never, on any account,

For the New England Furmer.

BEAUTY IN TREES.

MR. EDITOR:—I have been led to write under beautiful promising grove in the cemetery of a thrifty town not far from Boston.

A young growth of white pines and white birch, mixed, from 15 to 20 feet high, appeared gun to interfere with the pines, they should have been cut in August, to prevent their starting roughened at their surfaces by the chemical abgagain. But the pines, with their fresh and vigorous branches, cut smooth to the butts, looked who could not find any beauty in trees.

how their trunks will look! For a year they will present a mass of flowing turpentine, dripping and oozing like a cancer. Live branches farmer then pride himself on having his land out should never be removed from pines, if it can be of condition, and thus losing his oats for want of helped; but if the limbs must be cut, take them strength in the straw.—Working Farmer. off one foot from the butt, and let the stub die a natural death-then trim close, and no turpentine will run. One blow of an axegcan remove a lovely branch, but the wealth of the world cannot re-

place it if it proves a mistake.

The white pine, when it stands at the best distances to make a good forest, keeps a live cone notice a communication from Mr. Cruickshank, about twenty-five years; that is, the limbs live on the raising of ruta bagas, and he is pleased to about twenty-five years, and at that age it com- give us his name and place of residence at the mences to have limbs die at the bottom as new close of it. He thinks them a remunerating crop, ones form at the top. On cutting the tree across, and asks the reason why I should be in doubt of no matter whether one foot from the ground or for-it. I have been requested by others to give my ty, if below the live cone, you will observe about experience in the cultivation of them. Influenced twenty-five large growths, from one-quarter to by them, and respect due Mr. C. for his experione-halfinch; the largest when the branches were ence and location, I am induced to state the reain their greatest vigor. Then at the death of the son for my doubts, for they are not removed, nor branch a sudden reduction of the growth to per- do I see that my questions are answered. haps an eighth of an inch. By this beautiful arrangement the tree rises to a great height, with of land as I had with ruta bagas, with the intenbut little taper to its trunk.

its branches alone until they die.

Kingston, March, 1859. CALEB BATES.

OATS LODGING.

Why do oats lodge? We have sometimes soils containing a fair amount of wood ashes? Whoever knew any crop to show rust when grown on a soil fairly charged with phosphates, of potash, soda, and lime? Can a plant be in a healthy if not all, who have raised them. condition when the silicious coating which gives In conversation with the Hon. Mr. Brooks, of

it strength is deficient in quantity? The plant cannot avail of silex simply because it is sur-There must be some alkali rounded by sand. present to attach the surface of the particles of the above heading, on observing treatment of a the sand, and to render the silex soluble in wa-With that, the capillary action of the plant may elevate this soluble silex, and deposit it in such portions as require strength. This action upon the particles of sand, at the same time frees as though some wood choppers had been in- all the other constituents which go to make up structed to cut the birches clean and all the pine its mass to the depth of the removal of the silex, limbs they could reach. If the birches had be- the particles becoming smaller, and being so roughened at their surfaces by the chemical acrains and dews so as to be too compact. All this is assisted in degree by the decay of roots in the as though they had fallen into the care of those soil; for these yield up among other constituents, alkalies, and of so progressed a kind as to To say nothing of the check to the growth, have superior chemical power in the disorganization of the pent-up inorganic materials contained in every particle of the soil. Let no practical

For the New England Former.

RUTA BAGA AND CORN CROPS.

MR. EDITOR:—In your number for May, I

Thirty-five years ago, I planted as good a piece tion of satisfying myself as to profit of their cul-I think the heauty in the white pine is, to let ture. I had a fine and plentiful crop; at the rate of more than 1,000 bushels to the acre, worth in our market 12½ cts. per bushel. Corn was planted beside on land as good, and all alike prepared, and produce 75 bushels per acre, worth \$1 per bushel; grain and stover I put down at \$75.

Well, sir, this looks well for bagas; \$125 per heard farmers boast that their ground was in acre, and corn on like soil at \$85 per acre, maksuch excellent heart that the oats would lodge, ing a difference in favor of bagas of \$40 per acre. inferring therefore that the crop of oats was extraordinarily large, so large that the straw could not hold them up. We would argue that no real leaf was broad and green; where the bagas had practical farmer ever met with this difficulty. grown, the leaf was sorrowfully weak and yellow, The soil cannot be said to be in perfect heart, and appeared to regret ever having made its apmerely because it contains an excessive quantity pearance. The seedtime result was 35 bushels of barn-yard manure. To be in heart, it should of barley per acre where corn had grown, and be in such exact balance that every part of the plant can appropriate what it requires to secure market 80 cts. per bushel. This I call \$16 loss to its strength, as well as its quantity. The materiatine bagas. The next crop was grass; the hay al which gives strength to the oat straw, is sili- was not weighed, but would compare well with cate of potash, silex combined with potash. Who-the crop of barley, and so I charge the bagas ever knew a crop of oats to lodge when grown on with \$16 more. Here my estimates ended, but

Princeton, he admitted his experience was much the same, but that a liberal supply of phosphate loads, shovelled over once a week, and once a would restore the soil to its usual fertility; but month to take out what is in the stalls, and put he says, too, "This will cost too much. Yes, sir, in fresh marl, &c. This is rather hard to calcuit costs too much to raise ruta bagas to justify late, as I do not know how he proposes to make their cultivation in this region." I might multi-the exchange; but I will venture to guess that ply cases like my own experience. While I am it would take three hands all the time; at \$20 a constrained to differ from Mr. C. in relation to month for labor and board six months, this the profit in raising ruta bagas, I cordially would amount to \$360, making an aggregate of agree with him in the killing effects of a luxuri-ant crop of them. They will do the work pretty thoroughly. My saddest experience has been a can make the above experiment for less; and it sandy loam and gravel subsoil. On stiffer soil would cost others more. But I still find another this effect has not been as bad. Yet there it has difficulty. Where am I to get marl, &c., say 810 been to me a bad crop. Let me have 3 acres of loads a year, for winter use? It would soon corn, with a good hay-cutter, and I am perfectly make my meadows all fish-ponds! If a man is willing any one else should have the acre of barich enough, he may go into such experiments; gas. As to their value for the growth of stock, I admit they are good. But when fed to cows in milk, I should much prefer to sell the milk, though his barn built, I shall call and see it, if I can. I confess I should have misgivings even then, for the cows would lose their credit, or I should

Now, Mr. Editor, you have my experience and views in relation to the rutabaga crop, and of course my reason for doubts as the profit of raising them. Otis Brigham.

Westboro', May, 1859.

For the New England Farmer.

BARNS AND LOAM---FACTS AND FIG-

Mr. Editor:—I always enjoy reading the N. E. Farmer. Not that I always agree with the w iters, but still, I am hardly the less interested . reading. Sometimes I take my pencil, and figure up the cost of the propositions therein pro-

posed as improvements.

This week John H. Constantine proposes a new arrangement for a barn; said barn is to be tance apart, the division may be made mentally from 80 to 100 feet square, with a cellar under in a moment. the whole, 10 feet deep. My calculation on 100 feet square, makes the cost more than \$3000, if drains varies with the length of the laterals and built well, with a good stone basement on three with their distances apart. The above given rule sides. For a poor farmer, \$3000—"I promise supposes the laterals to be forty feet apart, and to pay," is an ugly customer to pay. The interest, taxes and repairs are more than \$200 a year! feet each.

When he gets his barn built, and his stalls, 12

Hit is required to know how many tiles would

by 12, all ready, he is going to cart in his marl, be used for lateral drains only, divide 43,560 by &c., for winter use. Before he puts his stock the distance apart. Thus: for lateral drains, 36 into the pens, he is going to put into each stall | feet apart, one foot in depth of his marl, &c.; i. e., 144 feet. I took the stock I had wintered the last year, to see what it would cost me. I must have 40 stalls for my stock; $144 \times 40 = 5760$ solid feet, or 45 cords, or 135 common ox-cart loads. That

is to fill the stalls once. Now if a man will dig and cart into my barnyard, what will make, when dry, six loads a day, I will be satisfied with his day's work,—135 divided by 6=22½ days. Thus it will take a man and a team 221 days to draw the first laying. He proposes to change this one a month-say six times; then it would take a man and team 135 days to draw the marl, &c., for winter use, -at \$2 a day, \$270. When you add the dropping of the stock, it will cost about the same to cart it on to the land, unless the farm is close to his barn, say, \$270.

Now, he proposes to have 45 cords, or 135

Hollis, N. H., 1859.

ED. EMERSON.

For the New England Farmer.

NUMBER OF TILES TO THE ACRE.

The following rule for ascertaining how many tiles per acre will be required for drains at a certain distance apart, may be found convenient, and is easily remembered.

In estimating, to include main drains, divide 48000 by the distance apart in feet. Thus: if

the drains are to be 30 feet apart,

1600 the number required.

If forty feet apart,

40 \48000

1200 the number required.

Unless the drains are to be laid at an odd dis-

The percentage of tile to be used in the main

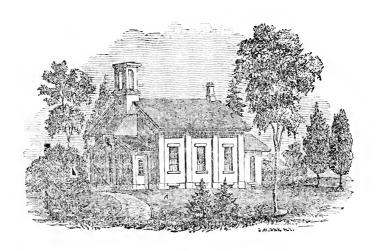
36 \43560

1210 the number required.

which are cut from the machine in lengths of 14 inches each, it will be found that about one thousand in number are required to lay one thousand feet in length. This is owing to the shrinkage of the clay in burning, to breakage in transportation, and to the rejection of imperfect tile.

Boston, May, 1859. J. Herbert Shedd.

CATTLE SHOW AND FAIR. - The Martha's Vineyard Cattle Show and Fair will be held at West Tisbury, on Wednesday and Thursday, Oct. 11 and 12, 1859.



DESIGN FOR A COUNTRY SCHOOL-HOUSE.

est of the reader, in one issue, than by present- will produce a most astonishing effect upon the ing him a pleasant and convenient design of a growth and product of the bushes, and would country school-house. We think our people, at Farmer. present, are a little inclined to show and extravagance in the construction of their school-houses, and sometimes burden themselves with taxes that are not fully paid by the feeling of gratifica-Shaker Village in Harvard, on Tuesday, May 31, tion, or pride, which they realize in the view, or contemplation of their handsome building. Ιt is evidently economical to erect a substantial and well-arranged school-house, as well as an evidence of a high degree of good taste, of civilization, and a desire for progress in what ennobles and makes man better. But when we go beyond this, and add fanciful decorations that are somebuild monuments of folly, and load the community with burdens which they ought not to bear.

We copy this design by consent, from Johon-NET's country school-houses, published by Icison & Phinney, New York, and suggest to those en- to an admiring crowd of men and women who gaged in building or altering school-houses to send for the book.

respondent of the Indiana Farmer says: have found the cultivation of currants to be very profitable. By care and attention I greatly increased the size of the bushes and the quality eight feet in height, and are remarkably thrifty. week. We believe they were correct. The cause of this large growth, I attribute in a I am satisfied from my own experience and that neat and orderly precincts.

Perhaps we cannot better subserve the inter-jof some of my neighbors, that this treatment

BOLLES' PATENT ROCK LIFTER.

This famous machine was in operation at the and we had the curiosity to look at its operations again, to see whether its achievements would corroborate our former good opinion of it. On arriving upon the ground we found the machine in operation, and it only required a few moments' observation to satisfy us that no question with regard to its ability was left open-it did all that was required of it, in so brief and quiet a manner, what questionable, and certainly expensive, we that no opportunity was given for doubt or excitement. So, after looking at it for an hour, we hurried off to a machine-shop to catch a little excitement among trip-hammers, turning-lathes and morticing-machines, leaving the Rock-Lifter wore few, if any, hoops! They stood aghast to see rocks of five tons' weight exhumed at the rate of six or eight per hour, and probably won-SOAP SUDS FOR CURRANT BUSHES .- A cor-dered "what in natur' would happen next." It was said by good judges present, that the machine, aided by three men, a pair of exen and a horse, accomplished more in one day, than six of the fruit. My bushes are now about six or men and two pairs of oxen could have done in a

We are under obligations to Deacon Augusgreat measure to the fact that I have been in the habit of pouring soap suds and chamber lye around their roots during the summer season. for pleasant invitations to "take tea" within his

city:

better farms, and better owners on them, than readers, but to sift stories, to scrutinize accounts, book-farmers can, we shall become converts to to obtain whatever has been abundantly proved their doctrines. But, as yet, we cannot see how to be fact, and to reject all that is suspected to intelligence in a farmer, should injure his crops. be mere fanciful theory. Such papers are design-Nor what difference it makes whether a farmer gets his ideas from a sheet of paper, or from a present imposition; to kill off pretenders by exposing them; to search out from practical neighbor's mouth, or from his own experience, men whatever they have found out, and to published the first present in the fact of the first papers are designated and the property of the first papers are designated and the property of the first papers are designated as a farmer of the first papers are designated and the property of the first papers are designated as a farmer of the first papers are so that he only gets good, practical, sound ideas. lish it for the benefit of their brethren all over A farmer never objects to receive political in- the Union; to spread before the laboring classes formation from newspapers; he is quite willing such sound, well-approved scientific knowledge to learn the state of markets from newspapers, as shall throw light upon every operation of the and as willing to gain religious notions from farm, the orchard and the garden. reading, and historical knowledge, and all sorts of information except that which relates to his to be excused, for they do not treat book-farmbusiness. He will go over and hear a neighbor ing any worse than they do their own farming; tell how he prepares his wheat-lands, how he se- indeed, not half so bad. They rate the paper lects and puts in his seed, how he deals with his with their tongue; but cruelly abuse their ground, grounds in spring, in harvest and after harvest- for twelve months in the year, with both hands. time; but if that neighbor should write it all I will draw the portrait of a genuine anti-bookdown carefully and put it into paper, it's all poi-farmer of this last sort. son! its book-farming!

"Strange such a difference there should be 'Twixt tweedledum, and tweedledee.

that has been seen hereabouts, every good farmer fifth of his crop to seed his ground; his com-that loves a salad would send for a little seed, land has never any help from him, but bears just and ask, as he took it, "How do you contrive to what it pleases, which is from thirty to thirty-five raise such monstrous heads? you must have bushels by measurement, though he brags that some secret about it." But if my way were writ- it is fifty or sixty. His hogs, if not remarkable ten down and printed, he would not touch it. for fattening qualities, would beat old Eclipse at "Poh, it's bookish!"

best managed, yields the most with the least cost, grounds better with their prodigious snouts than where are the best sheep, the best eattle, the best he does with his jack-knife plow. His meadowhogs, the best wheat? It will be found to be in lands yield him from three-quarters of a ton to a

man to be ignorant if he will be skilful? Or irregularly stacked up, and left for the cattle to why may every other class of men learn by reading except the farmer? Mechanics have their papers; reading except the farmer; Mechanics have their papers; reading except the farmer; Mechanics have their papers; reading except their papers; reading except the farmer; Mechanics have their papers; reading the state of osteological ligious men, theirs; politicians, theirs; there are specimens, and returning from their range of magazines and journals for the arts, for science, pasture, they are walking herbariums, bearing for education, and why not for that grand purspecimens in their mane and tail of every weed suit on which all these stand? We really could that bears a bur or a cockle. But, O, the cows! never understand why farmers should not wish If held up in a bright day to the sun, don't you to have their vocation on a level with others; think they would be semi-transparent? But he why they should feel proud to have no paper, ells us that good milkers are always poor! His while every pursuit is fond of having one.

ing are either good farmers, misinformed of the half-peek of corn on ears a foot long thrown to design of agricultural papers, or poor farmers them, and they afford lively spectacles of anima-who only treat this subject as they do all others, ted corn and cob-crushers—never mind, they with blundering ignorance. First, the good far-wist, there are in every county many industri-ous, hard-working men, who know that they can-not afford to risk anything upon wild experiments. They have a growing family to support, spects it gets annually worse. After ten years' taxes to pay, lands perhaps on which purchase work on a good soil, while his neighbors have

PORTRAIT OF AN ANTI-BOOK-FARMER. to make their crops build a barn, that the barn The following very readable remarks we exturned paper to be stuffed full of wild fancies, extract from Henry Ward Beecher's new book, pensive experiments, big stories made up by men "Plain Talks to Farmers," to be published June who know of no farming except parlor-farming. 4th, by Messrs. Brown, Taggard & Chase, of this They would, doubtless, he surprised to learn that ninety-nine parts in a hundred of the contents of agricultural papers are written by hard-work-Whenever our anti-book-farmers can show us better crops at a less expense, better flocks, and is not to foist absurd stories upon credulous

The other class who rail at book-farming ought

He plows three inches deep, lest he should turn up the poison that, in his estimation, lies below; his wheat-land is plowed so as to keep as much water on it as possible; he sows two bush-If we raise a head of lettuce surpassing all els to the acre and reaps ten, so that it takes a a quarter-race; and were the man not prejudiced Now let us inquire in what States land is the against deep plowing, his hogs would work his those States having the most agricultural papers. whole ton of hay, which is regularly spoiled in What is there in agriculture that requires a curing, regularly left out for a month, and very cows get what Providence sends them, and very Those who are prejudiced against hook-farm-little beside, except in winter, then they have a

money is due, or they are straining every nerve grown rich, he is just where he started, only his

house is dirtier, his fences more tottering, his no enterprising farmer should remain satisfied soil poorer, his pride and his ignorance greater. with a crop less than this, on land of fair quality. And when, at last, he sells out to a Pennsylva- I know that the average product, throughout nian that reads the Farmer's Cabinet, or to some the State, is less than one ton to the acre; but New Yorker with his Cultivator packed up care-this does not prove that it ought not to be two fully as if it were gold, or to a Yankee with his tons; it only proves that the present state of New England Farmer, he goes off to Missouri, culture is far below what it ought to be. So thanking Heaven that he's not a book-farmer!

common sense. If men were made according to the consequence. our notions, there should not be a silly one alive; but it is otherwise ordered, and there is no department of human life in which we do not find the weak and foolish men. This is true of farming as much as of any other calling. But no one dreams of setting down the vocation of agriculture, because, like every other, it has its proportion of stupid men.

Why then should agricultural writers, as a class, be summarily rejected because some of them are visionary? Are we not to be allowed our share of fools as well as every other department of life? We insist on our rights.

A book or a paper never proposes to take the place of a farmer's judgment. Not to read at all is bad enough; but to read, and swallow everything without reflection, or discrimination, this is even worse. Such a one is not a book-headed but a block-headed farmer. Papers are designed to assist. Those who read them must select, modify, and act according to their own native judgment. So used, papers answer a double purpose; they convey a great amount of valuable practical information, and then they stir up the reader to habits of thought; they make him more inquisitive, more observing, more reasoning, and, therefore, more reasonable.

Now, as to the contents of agricultural papers, whose fault is it if they are not practical? Who are the practical men? who are daily conversant with just the things a cultivator most needs to know? who is stumbling upon difficulties, or discovering some escape from them? who is it that knows so much about gardens, orchards, farms, cattle, grains and grasses? Why, the very men who won't write a word for the paper that they read, and then complain that there is nothing practical in it. Yes, there is. There is practical evidence that men are more willing to be helped than to help others; and also that men some-times blame others for things of which they themselves are chiefly blameworthy.

For the New England Farmer.

MOWING MACHINES.

ty of which are upland mowing? A mower moved Immense quantities of this sour milk are brought by one horse should be sufficient for such a farm; from the neighborhood of Attica to Athens, though if two or more adjoining farmers could and every one hastens to purchase it in the beunite in purchasing a machine to be moved by lief of its wholesome qualities. And, in fact, two horses, the work would be better done. The this xynogalon, which exhibits a gelatinous cobest way you can fix it, it requires power, and agulum, is a very cooling and nutritious article. considerable of it, to carry through a swarth It is consumed with almost every dish. The three and a half or four feet wide, where there is shepherds prepare it either with rennet or from

many have practised skinning their land, by run-Unquestionably, there are two sides to this ning the plow only four or five inches deep, and question, and both of them extreme, and there-scrimping it by dealing out their manure with a fore both of them deficient in science and in small shovel—that the small crop mentioned is

May 2, 1859.

COTTAGE SONG.

BY JOHN S. ADAMS.

We've a cottage clothed with roses, Near a wood. Where the singing birds of summer Nest and brood; There in early spring the daises Gem the sod, Looking up to heaven above them,

And to God.

There in holy calm we worship One above, Through His works that all around us Speak Hls love; Read we there His will in every Rock and tree, While His blessings fall upon us, Rich and free.

Beautiful the morning sunlight Cometh there, Crowning Nature at her early Morning prayer; And at evening, when the twilight Closeth round, Still, devoutly at her worship, Is she found.

We are not alone, for angels Come and go, Walking often through our cottage To and fro; Promising to guide and guard us With their love, Till we go to live among them, Up above.

Nature's way, Learning of her truthful lessons Day by day; Striving to fulfil our mission,-Doing good: Living happy in our cottage Near the wood.

Simple life is ours; we follow

Sour Milk in Greece.—Dr. Landerer states I am frequently asked what kind of mowing that the Greeks, as well as the Turks, are great machine had I better obtain for the cutting of the lovers of milk, especially sour milk, called by grass on a farm of about one hundred acres—fif-the former xynagalon, and by the latter jayusti. a burden of grass of two tons to the acre; and some of the dried coagulum of the milk itself;

but the milk-sellers of the town employ alum for crawl under, by the side of the hill; they can the purpose, or place in the warm milk an old then be readily found about the middle of the Spanish coin, supposed to be of peculiar efficacy day and killed. I sometimes use a mixture of in securing coagulation.

EXTRACTS AND REPLIES.

ARTICHOKES FOR COWS-WHITE SPECKS IN BUTTER.

Will you be so kind as to inform me through the columns of your paper, whether or no arti-

chokes are useful to give cows.

I have, for years, occasionally noticed white specks in butter, and have made inquiry for the cause, but no one can tell. If you rinse the butter, many of those white particles will float on the top of the water, but it is impossible to get them all out. If you can tell me the cause or preventive, you will favor one who is interested in your journal.

What soil is best for white blackberries, and

what will make them productive.

Felchville, Vt., 1859.

REMARKS. - Artichokes are good for cows,

given in proper quantities.

come, all the particles of cream that have been thrown to the top, or any other part of the churn, should be carefully scraped down. If they are left, they will, more or less of them, mingle with the butter, and make white spots. Sometimes, the butter, and make white spots. Sometimes, green worm about an inch long when full grown, however, butter will have white streaks through by some called the inch-worm. When the bush it. This may be occasioned by collecting the is jarred, it will suspend itself by a web some six cream at many different times, so that in churning some of it is quite fresh and does not "come" ing some of it is quite fresh and does not "come" localities that it would be an endless job to pick so readily as the rest. The cream, while being them off by hand. Can you tell of some more collected, should be salted a little, and carefully expeditious method of ridding our gardens of this stirred every day.

OBSTRUCTED MILK.

I have a valuable cow which calved about ten hind teats. The milk will only flow in a very be quite likely to spoll the fruit. small fine stream and takes as long to milk it as it would two cows. The teat or udder does not swell, no appearance of garget; but there appears to be a small hard bunch in the teat in the milk passage close up to the udder. Can you, or any of your readers, tell me what to do for it? Atkinson, N. H., May, 1859. L. KEEN.

REMARKS.—Take one-half of a small pair of scissors, and grind down to a sharp edge on both sides, and running down to a small point. Hold the teat firmly in the left hand and thrust the inincision one-sixteenth or one-eighth of an inch wide. If you find the stream obstructed in a day or two, repeat the operation.

TO SAVE VINES FROM BUGS.

The most sure remedy is to go over the hills early in the morning, and kill all you can find;

three parts flour, two of sulphur, one black pepper, and sprinkle a little on and around the vines. Last season, I entirely gained the victory over the bugs in three days. Perhaps some may think my mode requires a deal of labor, but one hour in the morning and another at noon for a few days will save an acre, that is, if the bugs do no worse than heretofore.

HENRY J. DURCIN. Shaker Village, N. Π .

RECLAIMING LAND.

I have a small piece of wet land that was covered with brakes and small brush, and bore little worth anything. In August, 1855, I mowed it with a bush scythe, and let it dry well, and then burned it. After which I took a team and plow and tore it up, and let it rest until the next June, 1857; then I took a bog-hoe, and levelled it, and dug a ditch, and sowed herds-grass, red-top and clover seed and a few ashes. In 1858, I cut two crops of hay; the first was as large as I could well dry on the land. I have tried a number of In churning, as soon as the butter begins to pieces in the same way with equal success.

Ashby, Mass., 1859. A. TAYLOR.

GREEN WORMS-INCH WORMS.

Last year the current and gooseberry bushes of this place were stripped of their leaves, by a or eight inches long, and then return to its work of destruction. They are so numerous in some pest? They commence their work about the last of May or first of June.

Great Falls, May 16, 1859.

REMARKS.- We know of no remedy, as the days ago; she has an obstruction in one of her common application of whale oil soap, &c., would

ROOT CROPS.

Having read considerable discussion in the Farmer the past winter, on "Root Crops," I would refer you to an article written by myself at your request, printed in the Farmer of April 5, 1856, on the first page, in regard to "Root Crops."

I wish to say that I have practiced the same mode of farming with equal success, and that I now have a cow five years old that weighs 2360 strument up the teat, gently, so as to make an lbs., being 300 lbs. heavier than either of those I had at the United States fair at Boston.

I wish to have it understood that her principal extra feed during the winters has been roots.

Josiah Bennett.

Westmoreland, N. II., April, 1859.

COCKROACHES.

Can you, or any of the readers of your valuaget some old shingles or bits of board, put a lit-tle paper, inform me what will exterminate cock-tle tar on one side, and lay it so the bugs can roaches?

A SUBSCRIBER. For the New England Farmer.

STRAIGHT COMB.

MR. EDITOR:—I fully agree with Mr. Quinby as to the advantage of the movable comb hive. Indeed, it is difficult to understand how any one who has given it a fair trial could come to any other conclusion. Mr. Quinby says that he should be pleased to have all admit that the triangular guide was public property. I understand that it is, and that any one has a right to use it. Soon after I commenced keeping bees in the Langstroth hive, Mr. Clark's partner or agent called on me, and forbid my using the guide. I subsequently learned from the Patent Office that neither Mr. Clark nor Mr. Langstroth had obtained a patent for this part of the hive. Which of the claimants is entitled to the invention is a matter of little interest to me, as I do not now use it, and consider it of no value.

Mr. Clark's partner or agent did not succeed in forcing me to pay him five dollars for his pretended patent, but he did succeed in calling my attention to the possibility that there might be other ways of securing straight comb quite as good, and perhaps better. I shall now endeavor to describe a plan so easy in its arrangement, so certain in its results, that I doubt if a better can

be desired.

Take worker comb one or two years old and cut it into strips one and a half or two cells wide. With a small brush, coat the under side of the top strip of the frame with melted rosin and menced cutting by water, but still heading by bees wax, and immediately lay on one of the hand. pieces of cut comb, placing it so that the divisions between the bottom of the cells will form a line through the centre of the top piece of the frame from end to end. If the comb is crooked it can be straightened, and as it adheres firmly to became a losing business, and was given up. the wood, it will remain so. One frame full of comb will cut enough for several hives. As the comb does not cut smooth and neatly with a cold knife, I make use of a plan by which the knife MIDDLESEX AGRICULTURAL SOCIETY. is always kept warm, cutting the comb so smooth that the bees take up the cells where the knife leaves them, and proceed with their work without cutting away any of the comb. This arrangement for obtaining straight comb costs less than the triangular guide, is more reliable, and is free to all. E. A. BRACKETT. Winchester.

For the New England Furmer.

HOW CUT NAILS WERE INTRODUCED.

MR. EDITOR:—In your paper of March 12, under the head of "American Inventions," is a communication from CALEB BATES, Kingston, Mass., upon the invention of screw augers and ment of fruit culture has not hitherto proved cut nails. I have some facts in regard to the first invention of cut nails, received mainly from the Hon. John Folsom, formerly of Chester, once well known in various public offices, and as the keeper of a public house, which I will relate perhaps more in detail, and be more personal than will be generally interesting, but I think will interest many individuals.

Mr. Folsom told me that his father, David Folsom, was the first inventor of cut nails. The idea was suggested to him by seeing some person make it. Several of the statements by competi-

end of an iron hoop. He commenced cutting nails with shears, and heading them in a common vise. He then improved by having his cutting apparatus operated by a crank motion with a fly wheel, and a treadle operated by the foot. In heading, the vise was superseded by dies, a stationary one fastened to a bench, and a movable one attached to a lever, and drawn together by the foot. When this was first invented, every nail was taken from the dies, as well as put in, with the fingers. They soon bored a hole through the bench, so that the nails could drop out by their own gravity.

The introduction of the business, I think, was at Tamworth, N. H., or that vicinity. My informant was horn in 1776, and I think that when he was eleven years old, which would be about 1787, his father removed with his family to Har risburgh, Pa., and there set up the business, but died in a few months, leaving another son, William Johnson Folsom, some four or five years older than John, and they carried on the business there until John was about sixteen, or about 1793, when they removed back to Tamworth, and set

up the business.

In April, 1794, Hon. Joseph Blanchard, of Chester, N. H., who owned the mills at what is now Auburn village, married the widow Folsom, who was a daughter of the Rev. William Johnson, of West Newbury, Mass., and in the course of a year, the young Folsoms removed there, and carried on the business, and after a while, com-

After the New Hampshire State Prison was established, nails were cut there and earried to Concord to be headed by the prisoners, but the self-heading machines having come into use, it

Auburn, N. H., May 3, 1859. B. CHASE.

This Society, although the oldest county society in the State, is still hale and hearty. Its affairs are systematically managed. Its officers are energetic men, and the programme of its last exhibition was promptly carried out. The sum awarded in premiums was \$708,30.

Their last Transactions has several valuable reports of committees. One on heifers contains several useful suggestions to breeders .-The paper by ASA CLEMENT, of Dracut, is both witty and instructive, and tells the truth plainly about dwarf pears. The result of this departvery satisfactory. We think there has been money enough expended in it, and we cannot, in conscience, recommend it, except in localities that have been found peculiarly favorable.

The report by Samuel H. Rhoades, of Concord, on stallions, is a good one. That upon bread, by MINOT PRATT, of Concord, shows that he both knows what good bread is, and how to cutting with a pair of shears, some pieces off the tors for premiums are rather meagre. We should

be glad to see them more full and particular. which they offer at low prices. A good farmer The two most important papers in the report cannot afford to be without good agricultural are a story by the Secretary, Dr. Joseph Rey-books, as he will find his profits increased by NOLDS, designed to illustrate farm management their perusal. -and the address at the table by RALPH WALDO EMERSON. These are both interesting, and both suggestive of thought. Mr. Emerson's address is in his own peculiar style. He has a wonderful faculty of clothing old ideas in a new garb, so as to make them appear original and impressive. He can say more in a few words than most men, and he takes a philosophical view of everything he looks at. We heard of a remark with regard to the story upon farm management from one of the best farmers in the county, which we think, will afford the author more pleasure than the premium he received for it. It was this. The farmer said if he had a son who was going to farming, he knew of nothing he would sooner put into his hands, than that simple story. Both the story and the address bave been extensively copied, not only by the agricultural press, but other papers also.

We do not notice any premiums awarded for flowers, or for farms, or experiments. We would recommend the offer of premiums for experiments in reclaiming pasture lands, as a subject of great importance in Middlesex county,-the greatest milk-raising county in the State. The pastures in Middlesex are very much exhausted, and if anything can be done to restore them, it will be of immense value to the county.

There is much experience in this county with respect to feeding stock, which if it could be brought out, might result in securing much larger products from the same means.

For the New England Farmer.

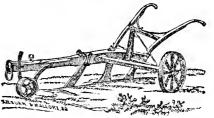
SECOND MARKET DAY FOR ESSEX.

This came off near Sutton's Mills, in North Andover, yesterday. The gathering was large, the animals presented of superior character, and trading brisk and satisfactory. So well satisfied were the trustees of these markets that they determined to hold a third at Georgetown, on Tuesday, the 21st of June, 1859. The probability is, double this number would have been at Andover had it not have been for the rainy aspect of the skies; but the rain did not essentially mar the utility of the fair.

I was pleased to see on the ground a mower, to be moved by one horse; and wheels for guiding the plow without hands; and corn cultivators, said to do the needful, without disturbing the roots of the plants. I have entire confidence, that market fairs are to be one of our

May 18, 1859. YANKEE NOTIONS.

A NEW PLOWMAN.



Labor-saving implements and machinery are desirable, we believe, on every account; at least, we know not what possible disadvantage is connected with any good labor-saving machine .-If they are useful and profitable under our present mode of culture, they will be likely to remain so until superseded by something still more useful and profitable.

Under existing circumstances, where so large a portion of the farm labor of New England is performed by our trans-Atlantic brethren, we want one of two things-machines that will think, so as to perform all this labor in the cheapest and best manner, or some person must put his own thoughts into machines, and so eontrive them as to make them work without thought, when the motive power is applied to

The farmer will surely be disappointed, who expects to conduct his affairs satisfactorily with only the heads and hands of these excellent brethren in their way, to whom we have alluded. They have broad shoulders and strong hands, with some impulse and great persistency in labor, but nothing, or little, to guide it. They must pass many more years yet in a course of preparation, aided constantly by Yankee teaching and examples of aptitude, before they will become qualified to take the lead in our agricultural operations.

The Plowman, introduced at the head of this article, is a machine of the latter description. Hitch it to your motive power, set it in place, and your men, without heads, or at least, heads innocent of much thought, will perform for you a good work. The Plowman, like most good contrivances, is a very simple affair-merely a triangle of cast iron, with a wheel at one point .. It is attached to the beam of the plow by bolts or screws, and is not easily broken or put out of place. In company with Mr. J. M. WHITNEY, AGRICULTURAL BOOKS. - Messrs. CROSBY, of Bolton, Mass., the inventor, we took it to the NICHOLS & Co., Washington Street, Boston, field and set it in motion. When once in place, keep a large assortment of agricultural books and properly adjusted, it kept on its way untouched by any one, and did work that would with work, that they cannot find one or two hours do credit to the best workmen. Its employ- each day for other studies besides those which rement will save the labor of one hand, in many vate studies should be the better to qualify ourinstances, and a saving may be made in a single selves for our work, to make us more intelligent, week sufficient to pay for it. Look at it, and if more skilful, more scientific, and thus to raise it seems comely to you, test it.

For the New England Farmer.

AGRICULTURE.

farmers against book knowledge, I wish to say a thousands of dollars to test and to make sure few words upon scientific, experimental and prac-what we desire to know. To accomplish our tical agriculture.

ignorance, and not of science or knowledge; and knowledge. their frequency is generally in proportion to the general literature, as though such studies were mers who do not pretend to be very scientific, or inconsistent with the ordinary husiness of a much given to experiment, but whose practice thrifty farmer. Very few farmers are so burdened works to a charm. They read and think and

ourselves above mere serfs and laborers, to a position of influence and growing usefulness.

Experimental agriculture differs in some respects from the scientific, inasmuch as it consists in endeavoring to find out by a series of experiments, what science already knows and is prepared to MR. EDITOR:—In order to obviate some of teach systematically. All experiments are more the prejudices which, unfortunately, exist among or less expensive. It may cost hundreds and Scientific agriculture, as I understand it. ex-But, when we have once obtained our knowledge plains the various methods of cultivating, improvements, and printed the repurpose, time and money and labor are required. ing and beautifying the earth, so as to render it sults in a book, it then ceases to be experimental, more productive and delightful. The term ag- and is so much added to our present stock of riculture, it derived from "ager," a field, and "cul- scientific knowledge. Every one who tries extura," culture, so that, according to its etymology, periments should be a man of thought and reit means field-culture. In a restricted sense, it flection, who knows how to combine elements, so is confined to, and explains, the different opera- as to make wheat, corn, roots and other vegeta-tions required in the cultivation and improve- bles grow, upon which man and beast subsist. He ment of arable and grass lands, and whatever apshould be a reader of agricultural books and pepertains to the same; the cultivating and pre-riodicals, a careful observer of nature, a close serving different kinds of crops, fruits, &c. In a thinker, a correct reasoner, so as to be able to more extensive sense, it includes the breeding, drawcorrect conclusions. In making experiments, rearing, feeding and management of all kinds of he should do it at first on a small scale, and acstock, and the disposal of the same. And it is cording to his means, and repeat them a sufficient the particular province of scientific agriculture to number of times to establish their certainty. But, explain the reasons why things should be done then there would be less need of his making explain the reasons why things should be done then there would be less need of his making explain the reasons why things should be done then there would be less need of his making explain the reasons why things should be done then there would be less need of his making explain the reasons why things should be done then the reasons which is the reasons whic thus and so, and not in a different manner. Sci-periments, if he read more and understood betence means knowledge; and he who possesses it, ter the experiments of others. Books should is master of his subject, and is competent to ex- be "the man of his counsel and the lamp to his plain it. But, as it is human to err, and there feet to guide him in the path of duty," because is no such thing as human perfection, it frequent- books contain the experiments and the experily happens, that our most scientific men are mis-taken in some points, and therefore are not per-the truth of every statement which he finds in fectly reliable in all their statements; and the reason is obvious, either because they have been delatter, because many of the writers in the agrificient in scientific knowledge, or because they cultural papers are uneducated men, honest and have carelessly overlooked some of the causes truthful, but they do not know the whole truth, which have contributed to produce a certain re- and are liable to make wrong statements. For sult, or have attributed the result to wrong causes. instance, in the use of salt, quicklime, potash, &c., In either case, it does not prove the uselessness or the worthlessness of science, or hook-know-ledge, but directly the reverse; for, if the most ded; because, when improperly used, or in wrong ledge. knowing and scientific sometimes make mistakes, quantities, they are very destructive to vegetation. the least scientific, that is, the most ignorant, will It is chiefly owing to the mistakes which have be the most likely to make the most frequent been made in the use of these and such like armistakes. Errors of this kind are the result of ticles, that so many prejudices exist against book

Practical agriculture is founded on science, degrees of ignorance which prevail. Ignorant peo- experiment and experience; in other words, it ple on this subject, are like narrow-necked bot is practical knowledge applied to farming, whethtles, the less they have in them, the more noise er that knowledge be derived from books conthey make in pouring it out. They seem to think taining the result of other men's experience, or that "a little knowledge is a dangerous thing," especially if it be derived from books. At least, they think it quite unnecessary for farmers to trouble themselves much about book knowledge, and well-established principles in the science of the true to character themselves beyond their imor to try to educate themselves beyond their im- agriculture to the cultivation and improvement mediate labor in the field. They seem almost to of the soil, in rendering it more productive and entertain a prejudice against one who devotes better fitted for the support and accommodation much attention to subjects of art, or science, or of man and beast. We have many practical farjudge for themselves, and apply in practice whatever appears to be right and reasonable. are not only practical, but progressive farmers. They are continually learning more and more, and doing better every year. They go on from one degree of improvement to another, so of Rochester, in the N. E. Farmer, monthly, that you may know them by their good fruits, as vol. 10, page 539. well as by their good works.

JOHN GOLDSBURY.

For the New England Farmer.

TASTE AMONG FARMERS.

MR. Editor:—There seems to be a great confess I pruned my trees the wrong season of want of taste among many of our farmers. They the year. appear to think that taste is of no importance whatever—something which they have nothing ling in the N. E. Farmer, from vol. 2 to that to do with-and if they only attend to the importime, and with more light, as I thought, than I tant duties of the farm, they care nothing for had possessed before, made up my mind to prune appearances.

in the surroundings of their dwellings; they will "small branches may be taken off any month in leave an ox-cart, sled or hay-rigging, in the door-the year with safety." This can't be so, and I yard, or in close proximity to the house, rather did not believe it when I read it, but did think than be at the trouble of removing it a rod or it would be safe to prune about the middle of

trees to a few so situated that they cannot damage and soon dies; the sap running down, kills the land which they care anything about, making that bark and rots the tree. I have lost a number of the standard, and sacrificing a noble clm, or hand-some oak, or maple, because they draw the juic-es of the soil, and they fear they shall have a otherwise maining them. And with all the light few less hills of potatoes or corn, if they let them of the present day, probably not one tree out of remain.

old, and I don't think it makes much difference mice, some by cattle, so that the chances for getwhat I have around them; but I say it does make ting an orchard are small. From what little exagreat difference. What if the buildings are perience and observation I have had, it is my old? if there is an air of thrift and neatness about opinion that any farmer may set an orchard on them, they will not look one-half so unsightly. good ground with trees grafted or budded, then Who would not see a difference between even a cultivate yearly, and in ten years from the time hovel without a shade tree or a rosebush, and the trees are set, not more than one in four will one precisely like it with rosebushes and wood- be worth what it cost when set. bines, climbing up its weather-beaten walls, covering its numerous imperfections, and with the one; that our forefathers were "old fogies." addition of one or two shade trees, making the may be so, in some instances, but is it so generspot look really attractive? It makes nearly as ally? I think not. Even in orcharding, farmers much difference as there is between neatness and took great pains to get trees; some carried them negligence, in the interior of a dwelling.

want of taste, for many a farmer's home exhibits being set, they were left to grow, not torn up by an appreciation of the tasteful and beautiful the roots with a plow, or barked by the ox-yoke highly creditable to the proprietor. Let not the or the harrow, nor pruned to death. Grafting farmer think it is beneath him to attend to such and budding were not practised as now, it is things, nor consider that time lost, which he spends in making the surroundings of his house family, and apples for cider. This they did to a

tasteful and attractive.

"Let the green tree wave by thy cottage door, And the rose in thy garden bloom;—
With them shall the planter's memory soar,
When he rests in the quiet tomb:— And oft shall the travellers pause to view
The works of thy patriot hands,—
The rose and the tree—the elm or the yew, That now by thy door-way stands.'

Concord, Mass., Feb., 1859.

TASTE.

For the New England Farmer.

PRUNING AND RAISING APPLE TREES.

My attention was called to make this communication by seeing one signed by Thomas Ellis,

I have got into the same dilemma myself that the writer of that article did. I have tried for a number of years to raise an orchard, and have succeeded in getting about a dozen trees to bear about as many apples each, and a small nursery for my own use of about one hundred trees large enough to set, all grafted. Now I am willing to

About a year ago I examined articles on prumy trees about the middle of June, although the One way in which they show want of taste, is editor quoted in one place from Downing, that two farther, where it would not be so unsightly. Some will have piles of manure, heaps of stones or huge piles of wood, left where they give an air of slovenliness to the homestead, no commenced bleeding, and I could not stop them. matter how new or handsome the buildings may I thought of searing them with a hot iron, but had never seen that recommended. If they run There are some farmers who limit their shade very much, the tree is ruined; it makes it sickly, four lives to grow up a healthy tree. A great Perhaps some will say, well, my buildings are many orchards are killed by pruning, some by

We think the present age is an enlightened miles on their shoulders to set orchards, selecting Think not that I believe all farmers show a the best situation, preferring a side-hill. After good purpose. It is true they did not have so good a variety as at the present day, but many of our best apples are from the "native" trees.

The editor, in his remarks on Mr. Ellis' communication, when speaking of our fathers, says: "They probably pruned apple trees in March or April, because it more was convenient, and as they did not graft nor bud and produce as many valuable trees as we do now, they cared less if they did die, and would supply their places with provement of his farm. Premiums for entire another set of natural fruit." Here, in the cold crops are more satisfactory, and we think more State of Maine, March is the best time to prune. I have known trees for thirty years that had been pruned in March that are now healthy trees. Three years ago I had small trees in my nursery trimmed by the snow settling in March. The branches were broken off, so as to leave a cavity in the main stem, and I never saw trees heal so quick, and that were so smooth where the branch came off, as they are now.

Canaan, Me., May, 1859.

REMARKS .- Trees are governed by natural laws just as much as animals, or the winds or rains. If the land of "Canaan," where our correspondent dates, is so cold and backward a region as he intimates, then July would be the time to prune, according to our theory.

MIDDLESEX SOUTH AGRICULTURAL SOCIETY.

of guests which have honored their board.

farm, by care and judicious management.

that several have done so this past season.

But the man who has planted and brought into hands. bearing a fine growth of trees, gives proof of his There is no subject that requires a knowledge own skill, and has made some permanent im- of so many things as agriculture, unless it be

crops are more satisfactory, and we think more useful than for samples. Such premiums bring out statements of the methods of cultivation on different soils, and in different localities, that are often highly interesting and valuable. We think the trustees of this society have shown much sound judgment in the selection of the objects of their awards. There are many other subjects deserving their attention, and we doubt not they will receive it in due season.

For the New England Farmer.

AGRICULTURAL BOOKS.

MR. EDITOR: -The following remarks were read a few evenings since before the Concord Farmers' Club. At your request, I send you a Yours, &c.,

A new department of literature has been cre This society appears to be in a flourishing con-lated within a few years. We have books or dition. It is in the hands of energetic and pro- soils, on manures, on horticulture, on field culgressive men. The address of Hon. EMERY ture, on tree culture, on fruit culture, on cattle, on horses, sheep, swine, draining, farm imple-ments, &c. &c. These may be considered chief-the dinner was enlivined by the presence and ly scientific. Then we have a wide range of remarks of several eloquent gentlemen. This so- what may more properly be called agricultural ciety has usually been fortunate in the selection riodicals, transactions, addresses, reports and essays, relating to agriculture or collateral sub-The various statements of the poultry fanciers jects. All these constitute a great body of readare an interesting feature in the reports, and ing. Men are better educated than formerly, show what can be done in this department of the and read more on all subjects. No man is now satisfied with the knowledge of his own businers The only premiums awarded for horses, were himself of the knowledge of others as well. He for farm and working horses. Such premiums must do so, to keep up with the progress of the clearly come within the range of farm premiums. times. This is as true in agriculture, as in any As the labor of horses is fast taking the place of other pursuit. Farming is progressive. Prinox labor, we should be glad to see the breeding varied according to circumstances. To do this, of this class of horses encouraged. Several pre-principles must be studied, and the circumstances miums were awarded for cut flowers and bouquets. which require their varied application must be These add much to the beauty of the exhibition studied. Young farmers all read, and find their in the hall, and their culture is a source of much by it. They thus acquire food for thought, and pleasure, and a gratification to any person of learn to reason. The interchange of ideas by taste, and we hope all our county societies will means of books, is like the interchange of prodoffer premiums for their exhibition. We notice ucts by means of commerce. It contributes to Awards were made for apple orchards, for pear ties engaged in it. This interchange of ideas Awards were made for apple orchards, for pear trees, for peach orchards, for grain crops, root crops, and for reclaimed meadows. Many societies confine their awards to articles exhibited at one man originates more than a few ideas. If the tables—the products of the garden and the he did, he would become too powerful, and would field. • We doubt the expediency of this. The swallow up his neighbors. Reading serves to distribute and equalize the amount of existing ideas, as commerce serves to distribute and equal-culture of the trees in the field, than in the dish ize wealth. Before commerce was established, a of apples or other fruit, which may often be the few men had the wealth and power, and the rest result of accident, or of the skill of some one who has owned and cultivated the trees before him. has owned and cultivated the trees before him. knowledge, and the rest were their tools—their

medicine. No one man has the time, even if he ment or experience to correct the errors and had the means, to work out all the various kinds misstatements they contain. When I take up a of knowledge which he needs; it would take a book, and find it a mere compilation, by some lifetime. We must be content to take it from man in the employment of a publishing-house, I others; and thus in a short time we can get more shut it up; I have not time to read such a book. knowledge by reading, than we could get in a But when I find a book which is written by a whole life, without it. The demand for books on agriculture, has increased greatly of late.—
The facilities of communication in the vicinity ly thought it would be a good thing, if some of cities has led many business men to live in competent man would set himself to review the the country, and thus made a great many ama-principal agricultural books in the market, and teur farmers. They want agricultural knowledge point out their excellences and defects, and pub-for immediate application; they have not time lish the results of his investigation in some of to acquire it by experience; they go to work as they do in other business, and consult those who profess to teach the knowledge they want, just thank him for his labor; until such a review has as they consult an architect, a mechanic or a seabeen made, I will not attempt to point out a list man; they read books, and apply the knowledge of books, which I would recommend to our young they get; it may not always be the best, but it farmers. is the best they can get; it is better than none. This class of men create quite a demand for books of many sorts; this is a good class of men, —in fact the best class; they are active and energetic, and therefore successful; they are public spirited, and make good citizens in the towns tice by the late Robert Manning, of Salem. It in which they reside. Notwithstanding the farm-originated on the farm of Mr. Saunders, of Rowers sometimes laugh at their operations, they ley, in this State. The fruit is large and oblong, impart a portion of their business energy to the resembling in form the Yellow Bellilower, of New farmers, and make experiments for them, which Jersey, readily identified from its beautiful stripes

a man posted up in matters relating to his par-kept into spring, becomes one of the finest fruits ticular calling, is necessary to success. The min- of its season. The skin of this apple is very thin, ister, the physician, the lawyer, the mechanic, the hence it requires to be gathered with the greatmerchant, the sportsman, the military man, must est care to prevent its being bruised. With that each have a magazine which contains the latest precaution, it will keep into May. I have one inventions, discoveries, and information relating before me, raised upon the farm of R. S. Rodgto his business or profession; without this he can-ers, Esq., of South Danvers, in the most perfect not keep pace with his competitors. This is no less keeping, with its fine aroma. I have always true in agriculture; hence, agricultural papers found this variety to be agreat bearer on a light have become a necessity. If a farmer can read but and warm soil, as well as upon one of a more reone thing, let him read an agricultural paper; tentive nature. but papers are for the most part filled with short articles, hints, suggestions, single facts and experiments. If a man wishes to study a subject more fully, he must read books. Books upon agriculture, as I have already remarked, have Some good land requires underdraining, to in-rapidly multiplied, and are sold at a very low sure good crops. We might instance some of price. Libraries have been established, by means of which farmers may refer to a great number of books for a small sum. For those who can of its surplus water. Soils which contain standing afford it, I think the best way is to own and al- water within thirty inches of the top, must be unways have at hand a few good books, and then derdrained, or they will not produce well. On add to the number one or two good books an- such land, there is a constant drainage of water nually. I think they will, in this way, read and to the surface, as in a flower-pot, when the wadigest them better than when they are in a liter is placed in a saucer at the bottom, but soon brary at some distance, and they can keep them but a week or two, when they get them. Many say most good agricultural books, are books to the soil, which is wanted there, that the oxygen be referred to frequently, rather than to be read in it may decompose the vegetable matter in the at once. Still, it is well to have a library, consoil, and change the poisonous protoxide of iron taining many more books than one can afford to into the beneficial peroxyde. This kind of land

made by men who have neither sufficient judg-jand poud lilies .- Ohio Farmer.

For the New England Farmer,

MINISTER (WINTER) APPLE.

This New England fruit was introduced to nothey would never try for themselves; and if they fail, they teach the farmer what cannot be done, as well as what can be.

of red from stem to eye; it has been confounded with another, Rowley Seedling, which has been sold for the above. The true Minister apple. At the present day, a periodical which keeps when gathered in the fall, is quite acid, but if

Salem, May, 1859.

UNDERDRAINING.

Some good land requires underdraining, to inis composed of a hard clay sub-soil, on the top Many of our agricultural books are of very of which is a layer of sand. If the water cannot penetrate the clay, it is held, as in a saucer, and unless drained off, its only way of escape is them; many are published by book manufactur- by rising to the surface and evaporating. This ers, and are mere compilations from other works, will soon drown out everything but water-grass

ASHES AGAINST PLASTER

Many farmers will expend money freely for plaster, and consider it a profitable investment, but at the same time throw or give away their wood ashes! At least, such has been the case. This is poor economy. While we regard plaster as a valuable article, we, at the same time, rank wood ashes much higher in the scale of fertilizers. It is true that no very accurate experiments have as yet been made to ascertain precisely the specific value of plaster and ashes; yet every one who has applied them to his soil and growing crops must have seen enough to convince him that both are serviceable, and especially that ashes should always be collected and pre- Analysis of the ashes of the cob: served with care. In the "Buckeye Plowboy," some years since, a writer apparently desirous of placing this subject in its proper light, but with somewhat less minuteness of detail than is perhaps requisite to the consummation of such an undertaking, details a single experiment instituted by himself as follows:

"I took three rows in a small piece of corn by the side of my garden, and put a handful of ashes on each hill of one row, a teaspoonful of plaster on each hill of another, and the third, left without putting on any of either. I cultivated them all alike, hoeing them twice. During the season some pigs got in and rooted up one end of the rows, leaving but about five rods of each that came to maturity. In the fall I husked the rows, as far as they had not been injured, and weighed preserved and used as a fertilizer. the ears of each:

Weight of the ashed row	3 lbs.
Weight of the plastered row	2 1 1ba

The ground was green-sward, turned over in the spring, the soil elay, inclined to loam."

We present the following analysis of the ashes of the sanwood of white oak, (Quercusalba.)

Potash	
Soda	0.£2
Sodium	2.78
Chlorine	
Sulphuric acid	0.12
Phosphate of Peroxide of Iron, Phosphate of Lime, Phosphate of Magnesia, Carbonic Acid	
Phosphate of Lime,	
Phosphate of Magnesia,	
Carbonic Acid	
Lime	30.8ā
Silica	
Magnesia	0.36
Soluble Silica	
Organic matter	5.70
	100.19

Many analyses have been made of the corn crop, and the following, embracing the ashes of applied to this vegetable, as a manure, must necessarily be productive of beneficial effects.

part with coal ashes."

Silica	9.500
Alkaline and earthy Phosphates	35.500
Lime	0.160
Magnesia	2.410
Potash	23.920
Soda	22590
Chlorine	0.405
Sulphuric Acid	4.335
Organic matter	0.367
	99.237

Analysis of the ashes of the leaves:

Silica	
Earthy Phosphates	
Lime	
Magnesia	1.250
Potash	
Soda	8.512
Chlorine	9.762
Sulphuric Acid	4.185
-	115 362

Silica	13 600
Earthy Phosphates	23.924
Lime	
Magnesia	
Potash	
Soda	
Chlorine	
Sulphuric Acid	
Organic matter	
Carbonic Acid	6.134
	89.365

The reader will not fail to observe how largely those elements prevail which are the most important to nearly all plants, such as the earthy phosphates, the potash, soda, and silica, or sand. He will observe, too, that they are far from being insignificant even in the coal ashes. If this analysis is correct-and we have no reason to doubt it—coal ashes ought to be more generally

The ashes of all wood are composed very nearly of the same materials, and so far as effects upon vegetation are concerned, it is of very little consequence whether they are from oak, elm, maple, or any other variety. Ashes from soft wood are said to be less valuable; but we have high authority that the ashes of the hardest oak and the softest pine vary but a trifle in the materials which compose them.

For the New England Farmer.

THE PIONEER FARMERS' CLUB.

MR. EDITOR:-Some little time since, as we were about taking measures to institute a Farmers' Club, I sent a request that you would offer some suggestions in regard to its formation. You very kindly complied by an article just suited to our peculiar necessities. If the result of our effort will be of any interest to you and any encouragement to others to form similar associations, I will briefly describe our success, hoping that it may not exclude more important matter the kernel, leaves and cob, we give, in order bet- from the columns of that weekly visitor, which, ter to enable the reader to understand why ashes to use the words of a grey-headed neighbor of mine, "tells more about farming every week than we ever knew."

Having completed such an organization as our Analysis of the ash of the kernel of white flint circumstances required, our President visited Mr. corn, "grown on a sandy soil, and manured in Secretary Flint, and obtained a package of books which laid the foundation for a valuable library.

Other volumes have since been purchased from been placed to the depth of an inch or so; place the funds of the Club, and we have now a re- it in the tree, and place a small glass globe lamp spectable little library, which has been repeatedly in the middle of the pan, which permit to burn consulted and referred to by those who have tall night. In durting towards the light, the curken part in the discussions, and from which a culios strike the glass, and are precipitated into great amount of useful information has been de-the liquid, from which they are unable to extririved.

The discussions have been animated, and have laid bare a vein of thought which has hitherto been little worked.

Even the ladies, without whose aid no good cause has ever prospered, have been constant attendants at the meetings, and have contributed to their interest by reading a manuscript paper we ask them to make a single practical test, in entitled "The Farmers' News." Gentlemen of no a proper manner, on a small piece of land, and professed literary talent have prepared and de-then they will be able to decide for themselves livered addresses, which, if not in beautiful sen- whether draining will not save them a great deal tences and well turned periods, in practical of hard labor, and at the same time greatly inthough and useful principles would bear a favorable comparison with those delivered at the din-crease their crops. Believing this will be the rener tables of the exhibitions of some of our coun sult, we shall present such portions of Judge ty societies. At a recent meeting, a full grown French's excellent work on "Farm Drainage," apple tree borer which had been preserved alive, as we think will induce them to commence the and without food, for a period of more than three weeks, was exhibited, and his habits explained good work. ern days, was exhibited by another gentleman.

But I should occupy altogether too much space should I attempt to tell one-half that is interest-been removed south as far as New Jersey. ing concerning this little institution, which has been to us, and something similar to which on Drainage spoken of above: would be to every neighborhood, an invaluable means of acquiring practical information in regard to that profession which has been honored understood, and we have no man, it is believed, by such men as Cincinnatus and Virgil of ancient, peculiarly fitted to teach its theory and practice;

G. A. Adams, Secretary. Hopkinton, May 11, 1859.

TO RAISE POTATOES.

A correspondent—Wm. Aldridge, of Goreland, Ind.—writing to the Prairie Farmer, states that having noticed how potatoes were interrupted in their growth, and invariably pined away and died if disturbed and bruised when wet with dew or rain, he selected a patch of a potato field, the whole of which was good soil, and in good order to try an experiment. This patch he only plowed from our mountains, and intend to avail our-once, and then loosened the soil with the hoe selves of its fertility in the best manner practice. when the vines were above ground, and in the cable. On the prairies of the West, large tracts heat of the day when they were perfectly dry, are found just a little too wet for the best crops He never touched them afterward until they were of corn or wheat, and the inquiry is anxiously dug in October last year. These vines kept green made, how can we be rid of this surplus water. throughout the season, and the yield of potatoes which meets the wants of our people. In Engwas very large. The other portion of this same which meets the wants of our people. In Engpotato field was purposely worked three times. I land, it is true, land-drainage is already reduced when the vines were wet with dew. These blight to a science; but their system has grown up by the first principles being pown too fami-

tacked, take a tin pan into which soapsuds has those who have studied the subject in English

cate themselves .- Homestead.

FARM DRAINAGE.

We cannot too earnestly call the attention of We ask them to make a single practical test, in

An acre or two of land which we thoroughly by a gentleman present. An antiquated looking An acre or two of land which we thoroughly spade which had been known among men a underdrained two years ago, laying the pipes hundred years, and which presented a striking down four feet helow the surface, has been affect-contrast to the well-finished implements of mode ed about as much as though the season had been ed about as much as though the season had been lengthened some three weeks, or the land had

Below we give an extract from the recent work

Drainage is a new subject in America, not well and Washington and Webster of modern times, yet the farmers everywhere are awake to its importance, and are cagerly seeking for information on the subject. Many are already engaged in the endeavor to drain their lands, conscious of their want of the requisite knowledge to effect their object in a profitable manner, while others are going resolutely forward, in violation of all correct principles, wasting their labor, unconscious even of their ignorance.

In New England, we have determined to dry the springy hillsides, and so lengthen our seasons for labor; we have found, too, in the valleys and swamps, the soil which has been washed

There is no treatise, English or American, ed early, did not produce half a crop, and the degrees, the first principles being now contained potatoes were of a very inferior quality. The liar to be at all discussed, and the points now in ground, seed, and time of planting in both some — Scientific American. sion of beginners. America wants a treatise which shall be elementary, as well as thorough —that shall teach the alphabet, as well as the CURCULIO.—A remedy for this pest is pro-transcendentalism, of draining land—that shall posed in the Ohio Valley Farmer, by Mr. Wal-tell the man who never saw a drain-tile what ker, of Kentucky. As soon as the fruit is at-thorough drainage is, and shall also suggest to books only, the differences in climate and soil, and hard. The luxuriant but distasteful herbage

must modify our operations.

America of the details of drainage operations, feed better and keep in better health. with a somewhat critical examination of pub- The succession of the various kinds of stock lished books and papers on all topics connected must be regulated by the circumstances of the with the general subject, the author has endear-owner. That says, that in spring the best pasored to turn the leisure hours of alaborious proturage is often given to ewes, because it is need-fessional life to some account for the farmer, ed to increase their supply of milk, and give Although, as the lawyers say, the "presumptions" them strength to nurse their lambs. The grazare, perhaps, strongly against the idea, yet a pro- ing of lands with sheep in spring, if not allowed The profession of the law has made some valuable contributions to agricultural literature. Sir Anthony Fitzherbert, author of the "Boke of Husbandrie," published in 1523, was Chief Justice of the Common Pleas, and, as he says, an "expeyenced Jarmer of more than 40 years." The author of that charming little book "Talpa" "it author of that charming little book, "Talpa," it is said, is also a lawyer, and there is such wisdom in the idea, so well expressed by Emerson as a fact, that we commend it by way of consolation to men of all the learned professions: "All of us keep the farm in reserve, as an asylum where to hide our poverty and our solitude, if we do vocates for the preservation of robins advance not succeed in society."

Besides the prejudice against what is foreign. we meet everywhere the prejudice against what I will admit that for fructiferous birds nature reis new, though far less in this country than in England. "No longer ago than 1835," says the duarterly Review, "Sir Robert Peel presented a Farmers' Club, at Tamworth, with two iron plows of the best construction. On him we will be found.

In Vermont and New Hampshire angle-worms of the best construction. On him we will be says the less any except the angle-worms are very scarce in warm places in the world with the robin never takes any except the angle-worms, where they can be found. of the best construction. On his next visit, the old plows, with the wooden mould-boards, were borhoods one square foot will contain more of

that they make the weeds grow!""

American farmers have no such ignorant prejudice as this. They err rather by having too much faith in themselves, than by having too little in the idea of progress, and will be more likely to "go ahead" in the wrong direction, than to remain quiet in their old position.

FEEDING OFF PASTURE LAND.

most succellent and nourishing food are first gulp him down his throat, as if he loathed him; turned to each separate division, and after they like a child taking Epsom salts, he is only gratiare removed, the other kinds, which need a small-fying his vicious destructiveness. er quantity of nutriment, are fed there. By this means the whole of the grass is eaten, those kinds most entirely covered with wintergreen loaded to which cattle are least partial with the rest with berries. Extracting essential oil from the The herbage is then left to recover itself for a plant is the employment of many of the inhabisufficient time, and afterwards the first herd is tants. Those extended wastes are the home of again allowed to feed upon it."

the practice of suffering the cattle to wander over northern winter limit, extending from there the whole extent of pasture ground. If the south to the Gulf of Mexico. space is large, a great deal of herbage is spoiled. Our statute law fines us two dollars each for

in the prices of labor and of products, which is constantly increasing, and in time crowds out the finer kinds, already lessened by being cropped With some practical experience on his own so closely and continually. Another advantage land, with careful observation in Europe and in is, that stock are more quiet, and consequently

For the New England Farmer.

ORNITHOLOGY.

MR. EDITOR :- I do not see as any of the adone idea in their favor, except their singing; no injurious insect do they prove that they destroy.

are very scarce; in many places in these neighagain at work. 'Sir,' said a member of the club, these insects than hundreds of acres in those we tried the iron, and we be all of one mind, States. Trout fishers know well that one dollar per gill is the standard price at the White Mountains for them to be used for bait. Such scarcity will account for writers in these States asserting that they eat grubworms, which, under those circumstances, I will not dispute. But where angleworms abound, grubworms need procure no life insurance.

To my mind, the robin possesses no taste; it selects and takes its food to the fancy of its eye; for we observe them eating every variety of fruit, selecting the most beautiful and mellow, "It is certainly advantageous to pastures," says including all kinds, from the strawberry to the Thaer, "to remove the cattle from them now and most sour apple, providing it is yellow and handthen, in order that the grass may have time to some; but after these are gone, they eat, with recover itself. For this reason, on the best con-apparent relish, the cedar and buckthorn seeds, ducted farms, the pasture land is divided into though intensely bitter. Sometimes I am led to separate parts. The animals which require the think, when I see him attack an angle-worm, and

gain allowed to feed upon it." the robin, in winter, living exclusively on the This system possesses decided advantages over berries of that plant. That locality is the robin's

or destroyed by the trampling of the cattle; the every robin which we may put in a pot-pie; so a pasturage is never uniformly eaten off, but some respectable sized pie may cost us fifty dollars, portions are left to grow until it becomes dry besides the materials, the fine to go to any revengeful scape-goat who may enter the com-tasted dogs' flesh. I have no particular desire to

the wisdom of the State is? I saw their report practice. De gustibus non disputandum est, or let of the habits of the robin before the fruit sea- there be no disputing about tastes, is a maxim son; they reasoned that they were not a fruit- which is worthy of consideration. Most heartily eating bird; where is the basis for such reason-do I wish that the men from our country would ing? Neither are our convicts confined in prison do nothing worse than eat dogs' flesh.

cil from the depredation of his kind, fleeing, like after the establishment of the mission, I landed the one whose protege he is, when no one pur- at Honolulu. sucth.

South Danvers, 1859.

For the New England Farmer.

THANKSGIVING DAY AT THE SAND-WICH ISLANDS.

MAKAWAO MAUI, HAWAHAN ISLANDS, DECEMBER 30, 1858.

by the closing year of my delinquency in writing were lean and unsavory. Of vegetables we had you, I hasten to devote a part of this day of pub-lic thanksgiving to this purpose. The occasion plantains—also, melons. These were our facil-will suggest a subject of interest to you and your ities in 1828 for getting up a Thanksgiving readers, as Thanksgiving day, though at a dis-supper. In 1829 no flour having arrived from

claim? with the remark, "You can be as thankful, time there has been a gradual improvement in certainly, as any of us, and God, who is no respect- the means of living so that to-day, we can have a er of persons, will accept your gratitude. But as Thankgiving supper purely Hawaiian, composed for the Thanksgiving supper, with tables groaning of the following dishes, viz.: Baked beef and with New England luxuries, around which gather lamb, both beautifully fat and tender, and good hosts of friends, this, of course, you know noth-enough for John Bull himself; fine large and fat ing about. A dish of poi and a baked dog or turkey and baked fowl; excellent mullet from raw fish spread on a clean mat, or on some fresh fresh water ponds; roasted pig fed on milk, tenferns, will doubtless constitute your Thankgiv-der and savory; potatoes, both Irish and sweet; ing repast." Well, friends, I mean to take in kalo, of which the poi is made, but which boiled good part this specimen of banter which I have or roasted is excellent; bananas or plantains supposed you might employ when hearing that cooked in almost as many ways as your apple, the king and chiefs of Hawaii are so far adopt- and, on the whole, an excellent substitute; bread ing the customs of New England, as to appoint a fruit, onions, beans and lettuce, Indian corn, today of thanksgiving and prayer to God, for His matoes and cabbage. To these vegetables, there kindness to the nation during the past year can be added at some of our stations, turnips, Nor will I deny that both chiefs and people are beets and carrots. Bread, of course, at Makacalculating somewhat largely on thrusting their wao, must not be forgotten. This we have plenfingers into the poi dish, and thence to their tifully, made of coarse meal ground in our handmouths, ere the day closes; nor do I doubt that mills or fine bolted at our steam mill at Honolumany a fat and sleek animal of the canine spe- lu. With these ingredients we can have chickcies is now in an oven of hot stones remuneration pie; also, custards, as sugar, eggs and milk ing in part the expense of feeding. I am not are abundant; pumpkin and banana pies like-horrified in relating, and I hope you will not be wise. Butter and cheese, with fig. guava and in hearing, that dogs are often strangled and ohelo—Hawaiian whortleberry—preserves. Pia eaten by chiefs and people. Foreigners, gener- or arrow-root puddings, Hawaiian coffee with ally, universally perhaps, cry out, shame, shame, cream and sugar. A part or all of these we can at the practice. I know not that any of them, furnish for our support his evening—also mel-knowingly, eat of this dish, though I shrewdly ons, oranges, guavas and figs. Or if our friend, guess that more than one gentleman from en- Dr. Alcott, will sup with us, he shall have good lightened lands when dining with the chiefs of baked potatoes and bread, pia, also, with figs and

aint. do so. Still, I see no moral wrong about it, nor I inquire where the committee appointed by do I feel like dissuading my people from such a

rum-drinkers while there, simply because they But to return to the subject of Thanksgiving cannot gratify that appetite. Who ever heard supper, which seems to be a sine qua non in the of robins eating fruit in March, April or May? idea of a Puritan Thanksgiving. I am glad that Legislation talks about insect defalcation, de-you feel a doubt of our ability to get up a suppredation and destruction. Their microscopic per on this occasion, which will at all compare eyes, however, never discern the ravages of the with yours, as in laboring to remove this doubt, gilded, cowardly robin, whose cowardice induces I shall be able to tell you of the change in our him to locate near dwellings, that his craven circumstances since March, 1828, when, as one spirit may never be aroused to defend his domi- of the second reinforcement, some eight years

At that time there were no Thanksgiving days appointed by the government, and had there been we could not have got up much of a supper. Cur flour was very poor, sour, and often musty. Butter and cheese, fresh beef and mutton we rarely tasted. Salmon from Oregon we could obtain, but without Irish potatoes and butter, this scarcely relished. Molasses we used for our tea and coffee. We had an occasional Editors Farmer: - Gentlemen, - Reminded fowl, but as we bought them of the natives, they tance, will remind them of scenes in which they Boston, there was much suffering in the Mission all delight to participate.

"Hawaiian Thanksgiving!" do I hear you exindividuals was greatly affected. Since that Hawaii, have eaten with a gusto from a creature oranges. Please recollect, gentlemen, that I did whose vernacular was bow-wow, instead of baa, not spread this table to cause a surfeit, but to as they supposed. I know not as I have ever show you what a change the blessing of God on

industry has wrought in our circumstances of liv-

ing since 1828. of God, where I addressed our people on the whole width of the inside of the hive, one-half goodness of their heavenly Benefactor during the inch in width, for the bees to pass up into the year which is near its close. It has been, on the boxes. Nail flat bars one inch in width on the whole, a year of prosperity to the Hawaiian na- under side of the top board lengthwise, or from tion. Health has prevailed as a general thing, front to back. To cause the bees to build in the Peace has blessed the nation with its balmy in-centre of the bars, stick a piece of comb on to fluence. The earth has yielded her usual in-each bar by dipping it into melted wax, and apwatchful care of a benignant Providence, and of lipting it immediately.

watchful care of a benignant Providence, and of lipting it immediately.

the loving kindness of God to us all. In additent claimed on them, and then it is less work to tion to the products of the carth purely Hawaiian, stick on the combs than to make the bevel bar there have been sown and reaped a larger num- of the Union Hive. And the passage through ber of acres of wheat in this district than ever be- the top when the boxes are inverted, answers the fore, and though a good deal of this was de-purpose of the hollow roosts of the Union Hive. stroyed by the caterpillar, still some 16,000 bush. The boxes are made with holes bored in the botels were secured and sold, besides a good deal tom. I usually make two passage ways across reserved for seed. Considerably many outs were the top of the hive, with a hole in each end of raised, also corn and beans. Besides these es- the boxes exactly over the passage. I prefer sentials, the islands are fast developing their call holes in the boxes to a long passage to correspublilities of producing fruit. Oranges are be-pond with the passage in the top board, because coming increasingly plenty. Peaches, also, will the queen will not be so liable to enter the boxes soon become abundant. Figs have long been so, and deposit her eggs there, thereby converting the also guavas and custard apple. I have not a contents into broad comb. At the same time, the doubt that Hawaii will become famous as a fruit-bees can pass up between all the combs into the growing country. In this prospect I greatly re- passage way, thence to the holes in the boxes. joice, and I am exhorting the people to turn! more favorably of this department of labor and the boxes, and for purposes of ventilation. enterprise. The growing of wheat, however, at present secures most of their attention. Though over the outside of the hive, and rests on cleats, it is not a very profitable branch of enterprise and to fit the bottom as well as the top of the still multitudes wish to try their hands at it, and hive, for the purpose of wintering bees in the as the Hawaiian Steam Flouring Company pay house; the cap should also have a ventilator, cash for wheat, an increasing number are thrust. Now invert the cap and raise the hive from the ing in the plow, and scattering the seed over stand; set it into the cap resting on cleats upon the furrowed fields. One benefit the people are the outside of the hive, then carry it to some

Yours with respect, J. S. GREEN.

communication.

For the New England Farmer.

THE APIARY---BEE HIVES.

MR. EDITOR:—In the Farmer of January 7 I noticed an article concerning bee hives, which ing else is necessary. This process is effectual, own construction. In the first place, make a simple box twelve inches square inside, and twelve or fourteen inches high, as the apiarian may deshould run crosswise of the hive, and made a little shorter than the width of the inside, and fastened by nails driven through the sides of the hive, in such a manner as to be easily drawn with will be safe. a hammer. Now whenever it becomes necessary to take out the contents, you have only to sever the nails from the sticks that support the combs, and take out the screws from the top, then raise the contents all out whole, cleaving to the top board without injuring the hive.

Having explained the why and wherefore, I will go on with the construction. Now make a Evening.—I have just returned from the house passage crosswise through the top board the

Now for a contrivance for your correspondent their attention more to fruit-growing. Oranges from Leominster. Bore two holes in the front and figs eaten freely would conduce much to the of the hive under the top board, exactly in line physical health and enjoyment of all classes with the holes in the boxes; to be closed by a among us. Some of them are beginning to think button, and opened when the bees are at work in

The cap to cover the boxes is made to shut certainly deriving from the introduction of wheat dark closet, open the ventilator and take off the into their country,-they are forming habits of boxes, and your bees will come out dry and clean industry. In this I greatly rejoice. Of the suc-cess of their labors I will tell you in my next Otter River,

Otter River, May, 1859.

TO KEEP MOTHS FROM FURS AND WOOL-LENS .- Shake and beat them well, then tie them up tight in a cotton or linen bag, and hang them in a dry place, or put them into a chest. Nothhas led me to give a description of a hive of my because the miller cannot get in to deposit its eggs. It shuns camphor, tobacco, or anything else of the kind, as much as a hungry boy would termine. The top board should be fastened on a good apple. We once deposited some nice furs with screws. The sticks to support the combs in the centre of a cask of tobacco; but the moth cared as little for it as for a cask of rose leaves, and ruined our furs. Tie up the furs, and they

WHEEL HOES .- Every person who has half an the comb from the inside of the hive, draw out acre in carrots, parsnips, onions, &c., all told, ought to have a wheel hoe. He can raise ten bushels of carrots or onions as easily with one, as he can five without one. Wont that pay?

MOWING MACHINES.

The favorable weather of May and early June has brought the grass forward with wonderful rapidity, so that by the 25th instant many fields will be ready to harvest. Our friends will do well during the having season to cut a portion of their grass quite early, and then in feeding it out during the winter, observe what the comparative value is of grass cut early and made into hay, and that cut when more mature. We have the impression that the early cut grass is much the most valuable; that is, cut in its early bloom. It is sweeter, less hard and wiry, and cattle, so far as our observation has extended, eat it with a greater relish than they do later cut grass.

Another query is, whether a large portion of our hay is not cured too much-that is, overmade, dried until it is almost juiceless, brittle, hard and innutritious. Grass cut just at night, and well tended during a bright July day, can be sufficiently dried to go in, by four o'clock in the afternoon-and if a gentle breeze is moving, even earlier.

mowing machine, and who have not yet used one, late. A thorough discussion of this subject must have not realized the "aid and comfort" they their value in increasing the quantity of milk, may derive from the use of a good one. Ketch-their value in improving the quality of the milk, um's, we believe was the first introduced on our and lastly, in what comparative condition the ex-Massachusetts farms. This has been re-modelled periment leaves the stock. As all neat stock is and greatly improved, and one has been recently destined in the end for the shambles, no expericonstructed for one horse, which we gave a cut ment can be fully satisfactory under either of the of some weeks since. Manny's has been quite it promoted this end; still, as far as such an exextensively used, has been much improved, and periment goes, it has its value, but the limits of is now fitted for one horse, and seems to us cal- its teachings should be noted. Of the value of culated to do good work. We have not seen it carrots for milk purposes, one of our enterprisin motion. Then there is Allen's, Russell's, the ing farmers, Mr. Mason Courtis, recently nar-Buckeye, Wood's, Thompson's, Gore's, &c., of which, as it was made with care, and the result which we have no particular knowledge, and can made a memorandum of, at the time the experigive no opinion of them. Some of those already ment was made, appears to be well worthy of constructed, we feel quite confident, will work well record. enough to pay their cost in a few years, so that, with cut carrots, of the orange variety, giving although they may not be perfect, there will be no loss in purchasing and using them.

HORSE RAKES AND HAY TENDERS.

The prejudice against the use of Horse Rakes in having has gradually yielded as they have been more generally brought into use. There are several kinds, the poorest of which are worthy of daily proportion of meal, they increased their introduction, in preference to the sole use of the | yield. hand rake. The "Revolver" works clean and well, is cheap, not liable to get out of order, and requires little room when not in use. But it ordinarily takes two persons to use it, or, if only and always milked by the same person. one, one of the best hands in the field, and is a hard and exhausting labor. The spring tooth rakes clean, too clean, usually takes two hands to work it, and is hard work for man and beast. in a summer, and each lay 250 eggs.

It is sometimes mounted upon wheels, so that the operator can ride, and in that form is said to be a good rake. We have not used it. The "Delano, or Independent Action" rake, when well constructed, rakes clean, is easy for the operator and the horse, and performs the work with great rapidity. A stout boy of fifteen or sixteen years, will rake after as many carts as half a dozen men can load at one time, and a skillful manager can do all the heavy part of cocking with one, after he has got the hay into winrows.

We understand that Messrs. Nourse, Mason & Co. have in process of construction a Hay Spreader made in connection with a Horse Rake. so that either can be used at will. Those who are competent to judge, inform us that it will be a capital machine. We await its advent with some impatience.

For the New England Farmer.

VALUE OF CARROTS FOR MILK PURPOSES.

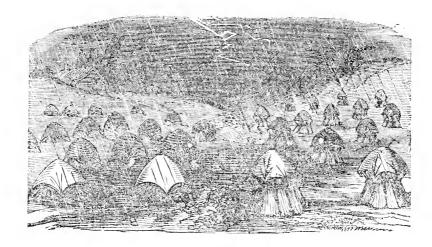
Messes. Editors:—I observe that the value Those whose lands will admit the use of a of roots for stock is considerably agitated of two first heads, that does not also state how far

two pecks daily to each animal, which was continued until the 20th of March, as long as the carrots held out. During this period, the yield of milk from the four averaged forty quarts dai-Immediately after the carrots were gone, the cows fell off regularly and rapidly in their yield of milk, and in thirteen days had fallen off eleven quarts, when they yielded a constant supply for a fortnight, after which, being fed with a

In the whole course of the experiment, they were fed with second erop hay, the hay having been proportionally increased after the carrots were exhausted. They were regularly watered

Marblehend, June, 1859. J. J. H. GREGORY.

There are six or seven generations of gnats



HAY CAPS.

old fogydom go to mill on a drag, if it pleases, they say will not mildew. while you sit on a well-stuffed seat and eliptic springs. You will find your grist none the less sweet, or coarser, for bringing a little art to your aid. But try the hay caps, for several reasons: portance that the milk should all be drawn from

- even in good weather.
- dry them in the sun.
- 3. As the having season is short, you can have more grass down at once by the use of caps, and thus get through having quicker.
- for making.
- oughly make with their aid.

Those of our friends who procure and use half Something was said last summer of a patented a dozen Hay Caps, in getting their hay and grain hay-cap, and permission was given us by the inthe present summer, will be quite sure to treble ventor, Mr. Dinsmoor, of Auburn, N. H., to try or quadruple the number next summer. If the sea-them. We did so, and found them much supeson should prove a "catching one," they will save rior to any we had before seen. The right to their cost on their present crops. Never mind make and sell these is now entirely invested in what disaffected grumblers say, who are deter- Messrs. Chases & Fay, Boston, whose cut above, mined not to "haw" or "gee" only as the antedi-illustrates the manner in which caps are used. luvians did,-but get a few and try them. Let They also make caps from prepared cloth, which

CLEAN MILKING .- It ista matter of great imthe cow's udder. Careful experiments made in 1. You can make hay much faster with them, England show, that "the quantity of cream obtained from the last drawn cup, from most cows, 2. Your hay will be better partially made in the exceeds that of the first in a proportion of twelve cock, under caps, than it would be made entirely in the sun. Persons who put up herbs ity about as much cream as would be afforded by for medicinal purposes, where it becomes four or six pints at the beginning; and loses, necessary to retain all their virtues, never too, that part of the cream which gives the richness and high flavor to the butter. - Country Gentleman.

REMEDY FOR THE STRIPED BUG .- Having 4. The quality of your hay made under caps will but plenty of old bricks, I took a wheelbarrow but plenty of old bricks, I took a wheelbarrow be 10 per cent. better; it will be sweeter, load of the latter, and stood four or five of them brighter, less dusty, and go farther in feed- on edge around each hill of melons, etc., as soon ing out, provided the season is unfavorable as the young plants made their appearance; and in ten days' trial I have not found a bag inside 5. You will save their entire cost in obviating these little pens, while some plants left outside were entirely devoured by them. The bricks the necessity of cocking and spreading out also promote the growth of the young plants, by again, quantities of hay which you can thor-protecting from winds, and giving out heat at night absorbed during the day.—Exchange.

BENEFIT OF DROUGHTS.

the influences of long and protracted dry weather, all of the provinces in South America, soda was to know that droughts are one of the natural obtained from the bottoms of ponds, which were causes to restore the constituents of the crops, dried in the dry, and again filled in the rainy seaand renovate cultivated soils. The diminution son. As the above explanation depended on the of the mineral matter of cultivated soils takes place from two causes.

ting droughts at periods, to bring up, from the deep parts of the earth, food on which plants of droughts. might feed when rains should again fall. The itself most strikingly in the drying up of springs BRIDGE, Camden, N. Y., in Ohio Valley Farmer. and rivers, and of streams which are supported by springs. It is not, however, only the water which is brought to the surface of the earth, but also all that which the water holds in solution. lime, or bone earth; sulphate of lime, or plaster reach the skies. of paris; carbonate of potash and soda, with sigrowth and production of plants which are used blossom this spring! for food. Rain water, as it falls from the clouds, would dissolve but a very small proportion of Johnston, on this subject, and on a re-examina-tion of some soils which were analyzed some years since, there was perceptible a larger quanfirst found. And as none had been applied in the May; but the crops were got in seasonably, not-

meantime, the thing was difficult of explanation, until I remembered the late long protracted It may be a consolation to those who have felt drought. I then also remembered that in severprinciples of natural philosophy, experiments were at once instituted to prove the truth. Into First. The quantity of mineral matter carried a glass cylinder was placed a small quantity of off in crops and not returned to the soil in machloride of barium in solution; this was then filled with dry soil, and for sometime exposed to Second. The mineral matter carried off by rain the direct rays of the sun on the surface. The water to the sea by means of fresh water streams. soil on the surface of the cylinder was now treated These two causes, always in operation and with sulphuric acid, and gave a copious precipcounteracted by nothing, would in time render the earth a barren waste, in which no verdure would quicken, no solitary plant take root. A of soda, and carbonate of potash, for the chloride of soda, and carbonate of potash, for the chloride of soda, and carbonate of potash. rational system of agriculture would obliterate of barium; and on the proper resolving agents the first cause of sterility, by always restoring to the soil an equivalent for that which is taken off these substances were detected in large quantiby the crops, but as this is not done in all cases, ties on the surface of the soil in the cylinder. Providence has provided a way of its own to counteract the thriftlessness of men, by institution of the surface of the soil in the cylinder. Here then is proof positive and direct, by plain experiment in chemistry, and natural philosophy.

We see therefore in this, that even those things manner in which droughts exercise their bene- which we look upon as evils, by Providence, are ficial influence is as follows: during dry weather, blessings in disguise; and that we should not a continual evaporation of water takes place from the surface of the earth, which if not supplied too, are for our good. The early and the later by any from the surface creates a vacuum, (so far rain may produce at once abundant crops; but as the water is concerned,) which is at once filled dry weather is also a beneficial dispensation of by the water rising up from the subsoil of the Providence, in bringing to the surface food for land; the water from the subsoil is replaced from future crops, which otherwise would be forever the next below, and in this manner the circula-useless. Seasonable weather is good for the tion of water in the earth is the reverse of that which takes place in wet weather. This progress plants in the soil, and furnish an abundant supply which takes place in wet weather. This progress plants in the soil, and furnish an abundant supply to the surface of the water in the earth manifests of nutriment for future crops.—Geo. Trow-

THE SEASON.

The promise is at present strong for abundant These substances are salts of lime and magnesia, of potash and soda, and indeed, whatever the middle of May brought the plants forward with subsoil of deep strata of the earth may contain. middle of May brought the plants forward with The water, on reaching the soil, is evaporated, great rapidity,—but the cooler weather since has and leaves behind the mineral salts which I will given them a desirable check, so that they have here enumerate, viz: lime, as air slacked lime; grown stocky and strong, instead of aspiring to magnesia, as air slacked magnesia; phosphate of

The apple blossom has been full in this region licate of potash and soda, and also chloride of so- The cherry blossom only moderate, while we dium or common salt: all indispensable to the have met only two farmers who have seen a peach

A copious rain fell here on the night of the some of these substances; but when it becomes 31st of May, and the ground is well wet below, soaked into the earth, it there becomes strongly -so that if little or no rain should fall before imbuded with carbonic acid from the decomposi- having, the grass crop will be an average one. tion of vegetable matter in the soil, and thus acquires the property of readily dissolving minerals on which it before could have very little influence. I was first led to the consideration of the above matter from a perusal of a lecture of Professor et, from \$1,00 to \$1,15 per hundred pounds, ac-

tity of a particular mineral substance than was east storm which occurred in the last half of

withstanding, and the grain crops are up and putation was made; and this process goes on appearing well. Corn has come up promptly, from year to year, till the whole is covered; the and looks well, and so do many fields of potatoes.

vests. Spring wheat also looks well.

and fifty trees that have not yet come into bearing are not in the slightest degree injured. Grape
vines, quince bushes, and various shrubs that
have shown no signs of starting until within a have shown no signs of starting until within a few days, are now pushing buds, and possibly one, who feels interested in the subject, to make may recover from the palsying stroke which they the following experiment. At the middle of each received. Grass has been badly winter-killed, month in the year, take a limb from the same which leaves many fields with rather a leprous definite and minutely the result. Knowledge appearance.

destruction? Who can tell us? Was it ex- as earned capital is better than borrowed capital. treme and sudden variations in temperature, the great depth to which the frost penetrated, or did the impenetrable covering of ice, which, resting upon the surface during a good portion of the winter, cut off a certain aeration or breathing, necessary to the plants? Who will solve per of the 28th of May,) in relation to the culture these mysteries for us, and enable us, by the exercise of enlightened art, to protect ourselves against future ravages of a similar nature? Surely, the farmer needs the best native ability, the most varied and abstruse learning, and the ex- costs more to renovate the soil after raising a Iosses which are perpetually occurring.

season.

For the New England Farmer. ABOUT PRUNING.

land Farmer, many articles on the pruning of experiment, (as Mr. Brigham has done,) side by trees. I believe it is time that the subject, and side with other crops, and I opine they will abanthe discussion of the subject, should be pruned. don its culture as a field crop. I trust the day is As you and your May number appear to be almost cloved with the subject, I feel some hesidon its cultivation, for as the Hon. Mr. Brooks tancy in undertaking it, with my dull tools. But very truly says, "It costs too much to raise ruta in doing it, I pledge myself that the sap shall bagas to justify their cultivation in this region." not flow very copiously from my head, nor from

The object of pruning is to rid the tree of its superfluous branches. The right time of prun-ing is, when the sap is gone up, and is elab-parsnips, &c. &c., that the farmers may find it for orating, by vegetable process, in the formation their interest to raise, and without any perceptiof a pulpy substance, (cambicam,) which be-ble exhaustion of the soil. I think it would be comes wood; and adds one grain to the tree, wise in our legislators to withhold the bounties If a limb be cut off at this time, the new wood of the State from those county agricultural sociforms between the bark and that part of the eties that offer premiums for the turnip crops. limb which remains. Thus a covering begins to be formed over the naked wood, where the amount of turnips with impunity, and never realize his

If it be asked, when does this pulpy substance Winter rye and winter wheat are of good height, between the bark of the wood commence in fruit and fine color, and have a fine start for rich har-trees, I shall not answer by giving the date; for there is more than three weeks difference in dif-As the season progresses, the fatal effects of the ferent seasons. But I am prepared to say, it As the season progresses, the fatal effects of the winter are more and more obvious. A gentleman informs us, that of one hundred peach trees that have been in bearing two or three years, not pruned about the middle of June. I make these one is left to be of any value, while one hundred remarks, not with the expectation of convincing

Now I recommend it to any one, and to every gained in this way is one's own knowledge, and What has been the cause of this widely-spread it is as much better than borrowed knowledge, Milford, N. H., May 24, 1859.

For the New England Farmen.

"RUTA BAGA AND CORN CROPS."

I fully concur with Mr. Brigham, (in your paercise of the ripest judgment, to penetrate the crop of turnips, than any other crop I cultivate. arcana of nature, and tell us how to avoid the Myexperience is similar to Mr. Brigham's in the succeeding crops. I think the deterioration is fully one-half. Many argue that the turnip erop On Friday morning, June 3d, there was a brisk is not exhausting, as the broad leaves receive thunder shower in this region, the first of the their nourishment from the atmosphere and the dews. If that be the case, and the food of plants is not imbibed by them in undue proportions, then I would suggest that they draw from the atmosphere poisonous substances and impregnate the soil with its deadly exudations. All I ask is, MR! EDITOR :- I had seen, in the New Eng- let the sticklers of the turnip crop make a fair

There are other root crops less exhausting or less poisonous to the soil, and as easily cultivated, containing more nutriment, and more palatable to

loss by deterioration of his soil, nor care for its day—or over ninety-one pounds in a year? that effects, so long as he reaps a bountiful harvest would be enough to made four barrels of good and present profit, but let him not "lay the pleas- strong soft soap. I humbly trust I am not so ing unction to his soul," that it is an honest op-full of lie as this would make me. eration, for he must surely feel some twinge of the avarice of their progenitor.

of the ladies at our agricultural fairs.

North Pembroke, Mass., May 30, 1859.

For the New England Farmer.

SCIENCE FOR FARMERS.

MR. EDITOR: -We poor ignorant clodhoppers, who, away out in the country, plod over our farms, have little time to study the profoundly wise sayings of those who write big books and agricultural articles in the newspapers. We are in the habit of believing everything we find in these big books, when we have time to read them. But we are sometimes a little puzzled, when these wise writers disagree, to know which to believe. We desire, in all humility, to believe both sides, but cannot always reconcile the stateshall we do in such cases? Must we be at the having recently seen, in Liebig's Agricultural trouble of using a little common sense—if we happen to have it? I suppose you will say, "Contain either no potash, or mere traces of it." This appears to be, at best, a careless statement; "This appears to be, at best, a careless statement; "This appears to be, at best, a careless statement;" right to demand that those who pretentiously for, if Dr. Jackson's analysis is to be relied upon, made statements with scientific gravity, should be careful to declare only that which they know?

"An analysis of the grain of white flint corn will give, of

"The leaves will give, of

Silex	about	53	per cent.
Phosphates	6.4	19	" "
Lime		6	66
Potash	4.6	12	64
Soda		Q	44
Chlorine	66	10	66

"The cob will give, of

Silex	bout	13	per cent.
Phosphates	6.6	23	
Potash	6.6	35	66
Seda	4.6	5	

important elements for those who are curious in them the most inconsistent statements, as well relation to the composition of the Indian corn

Now, this looks a little, a very little, like a himself by "reading up" for the occasion, but does not do it carefully. There must be some mistake about it, or else some of us put a good deal of potash into our stomachs in the course of to treasure up its sentiment. a year. I believe I average not far from a pound of Indian meal a day, taken in some form as

Then again, to think that the leaves of the corn conscience to leave to his progeny an exhausted plant contain 53 per cent. of silex; one might and barren soil (as an inheritance,) made so by well imagine that our cows' teeth would soon wear out, if called upon to grind much of it. As Therefore, I submit, that the evils of turnip to the cobs, too-35 per cent. of potash in them! culture (in a moral or pecuniary point of view,) Why have not soap-makers used them instead of are far greater than the equestrian performances ashes? More than one-third potash! How rapidly, too, the potash would be taken from the soil at this rate. A crop of 50 bushels to the acre, reckoning the potash at this rate in the grain, leaves and cob, would use up not far from 1400 pounds. The agencies that decompose and dissolve the rocks would have to be pretty busy in order to keep up a supply, at this rate of con-

I have no reliable analysis of the grain or leaves of Indian corn now, by me; but on reference to Dr. Jackson's analysis of the cobs of several different varieties of corn, it appears that in his specimens the percentage of potash varied from 2581-10000 to 6430-10000 of one per cent. The analysis given by the writer in Harper's Weekly was no doubt that of the ashes of the different parts of the plant, instead of the whole ments made so as to make that possible. What drawn to this statement more particularly from substance of those parts. My attention was (and I have never heard his accuracy called in question,) the cob analyzed by him averaged The getter-up of the agricultural department of Harper's Weekly for May 14th, has given his readers what he calls an analysis of the grain, leaves and cob of the "white flint corn." He more than a fourth of one per cent. of potash more than a fourth of one per cent. of potash and soda united.

This is a matter of much importance to us farmers, as a knowledge of the constituent elements of plants may guide to an economical use of fertilizers; and as few have either the ability or the means to make chemical analyses ourselves, we must depend on those who have, or ought to have, both; and we have a right to demand that what is told us shall be reliable—have we not?

Slackville, May 25, 1859. J. DOOLITTLE.

REMARKS.—Good, Mr. Doolittle. You live anywhere but in "Slackville." Some of the "big papers" of our land are recently attempting to enlighten their "rustic" readers in scientific mat-"We give the above figures of some the most | ters relating to agriculture. We often notice in as the most extravagant nonsense. Such "loose expectorations" are better suited to the gatherstatement made by a person who, ignorant of the ings of certain zealots, who love their country subject on which he writes, undertakes to prepare terribly just before an election! "Shoe-maker, stick to thy last," is an old adage, and is a good one. Some of our cotemporaries would do well

Draining.—Some people think that it is all food. Do I then eat four ounces of potash each a matter of useless expense to drain land. But it is probably not so. Col. Whipple has dug, stoned and covered some two hundred rods of stoned and covered some two hundred rods of drains on his land; one effect of which was shown Mr. Otis Brigham, of this town, on root crops. last season in the fact that he cut twenty tons of It was answered by a gentleman, the next week, hay on six acres of land where formerly only a small crop was produced.—N. II. Democrat.

EXTRACTS AND REPLIES.

ON RAISING MILLET.

Can you give me any information in regard to raising millet? Is it a good fodder for milch cows? Will it do to sow it upon green-sward and sow grass seed with the same? How much seed will it take per acre, and when should it be sown? What soil is best adapted to raising it?

Bedford, 1859.

Remarks .- Millet makes a good crop for green or dry fodder, and may be fed to milch cows with advantage. It may be put on sward land if it has been deeply-plowed and well pulverized-but it grows too thick and rank to al- towns in which exhibitions were holden in 1858: low grass seed to do well with it. Any good corn land is suitable, and eight quarts of seed per acre is enough. Sow from first to middle of June.

POTATO BLIGHT.

In going from Hartford to Waterbury, in 1846 at the time of the blight, there was only one field that looked healthy, and that one was overtopped with buckwheat, so that if the blight came from the atmosphere, that it kept it from the the potato. One farmer informed me that a day or two before the blight he kept his wagon in his potato field, and a few bundles of straw were thrown out of the wagon upon the potatoes, and remained about a week, when he dug the potatoes. Those that were covered were not diseased, been about \$12,000. Truly there is something in and the remainder of the field would not pay for locality, where 20 towns out of 300 get nearly digging. I think that early potatoes and early planting will be more successful than late planting, as far as my experience goes.

I will give you a receipt for curing a ring-bone, them. as it was given to me by one that told me he had cured quite a number by this application.

Take a pair of scissors and cut the hair from the bone, or around the hoof, then apply the oil of ambre, let it remain about two hours, then apply the soap palm-oil; this do once every day, and in 3 or 6 weeks the bone will disappear.

ROSE-BUGS.

June, the month of roses, will soon be along, and, as is usual, I expect to see rose-bugs come as it loses its strength, dip them over, and after in large numbers; they not only spoil the roses, every shower. I have taken boards five inches but the grape vines also suffer by their eating wide, made boxes and covered them with millithe blossoms. I know of no way to get rid of net, and put them over the hills; the vines would Who can tell? HENRY M. FALLS. North Wrentham, May 30, 1859.

A LAME COLT.

Can you tell me what will cure the stiffness of the fore legs of a colt that was caused by standing in the stable and eating too much grain? It appears to be in the joints. II. M. A.

Charlestown, N. II., 1859.

VALUE OF RUTA BAGAS.

who did not exactly agree with him. He thought that ruta bagas were as profitable a crop as any. I have raised them until I am satisfied that they are not worth the trouble of raising. You can raise, on good land, from 600 to 1000 bushels per acre, but what corn you can raise on the same land will be worth four times as much for feed to cows, as the turnips. They will make milk enough, but it is good for nothing after it is made. The turnips taste in the milk, butter and cheese, and even the pigs turn their noses up when it is fed to them. Besides this, they injure the land so that you can raise nothing on it after them.

Westboro', May, 1859.

PREMIUMS.

Abstract of premiums awarded in the several

Essex, Danvers	.\$291.53
Middlesex, Concord	242.00
Middlesex South, Framingham	293.61
Middlesex North, Lowell	355.37
Worcester, Worcester	340.50
Worcester West, Barre	240 99
Worcester North, Fitchburg	329.44
Worcester South, Sturbridge	108.00
Hampshire South, Northampton	216.00
Hampshire, Amherst	152.68
Hampden, Springfield	264.82
Hampden East, Palmer	195 75
Franklin, Shelburn	20500
Berkshire, Pittsfield	344.50
Housatonic, Great Barrington	251.00
Norfolk, Dedham	135 00
Plymouth, Bridgewater	314.75
Bristol, Taunton	350 75
Barnstable, Barnstable	
Nantucket, Nantucket	157.00
,	

\$5149.44

The whole amount awarded is believed to have half the whole amount awarded. These facts present matters for deliberate consideration .-Conclusions are left to those disposed to make

June 1st, 1859.

TO PREVENT THE YELLOW STRIPED BUG FROM DESTROYING WATERMELON VINES.

Take feathers from a hen's wing, or take sticks and split them and put in cotton, which is about as good, dip them in spirits of turpentine, and stick them into the hill in an oblique or slanting position a little above the vines; two or three will be sufficient for a hill, and as often run up tall, like growing in the shade, and come to take the boxes off they would not do well; but put spirits of turpentine around the hills, and theý will do well.

East Thetford, Vt., 1859.

TRANSPLANTING WHITE PIXES.

If your correspondent, "Oak Hill," will give me his address, I will write and inform him when and how I have succeeded best in transplanting white pines and other evergreen trees. planting white pines and other evergreen trees. Can your readers give me information through I have now growing about my house some forty the Farmer, what will cure ring bone, or the appines and one very fine hemlock, the latter measures 94 inches in circumference and over 20 feet high. This is the second year since transplanting, and it is "coming out" finely.

SAMUEL RAYMOND.

North Andover, May 21, 1859.

PINES-RASPBERRIES-GRAPES.

white pines? Should the top be cut in? Where bind whole continents together, the telegraphic can the Ohio Ever-bearing Raspberry be obtained wires which run their electric network through the -and what are some of its prominent character-air; these are the great nerves of human sympaistics?

vine shoots while growing, in order to strength- hood, if not to the greater work of revolutionizen fruit buds at their base for the succeeding ing the whole world. years? AN ATTENTIVE READER.

New Bedford, May, 1859.

REMARKS.—Transplant the white pine in June. Take up the sod with the roots, and keep the difficult, no obstacle insurmountable, no sacrifice roots from the sun and wind. Do not cut the too great for the enterprising spirit of the age. tree anywhere.

Raspberry."

It is quite a common practice to shorten lateral grape-vine shoots after the fruit is partly ferent extremes of the Union, from sea to sea. grown, in order to benefit the fruit, but not to This spirit of progress, this onward march of our knowledge, so early as to strengthen the dom, can not be arrested; for the people who are buds.

APPLE ORCHARDS.

If apple seeds are planted, and the young trees

quently bears only half the time.

let the spears stand six inches apart, and the communication. yield will be three times as much as to plant in hills, with the manure in the hills.

S. P. BAKER, now 83 years old. Ipswich, Mass., 1859.

REMARKS.—These statements are worthy of being tested.

TO STOP COWS FROM KICKING.

be hollow; fasten the rope, and she cannot kick.

East Thetford, Vt., 1859.

H.S.

RING BONE.

pearance of one, coming on a yearling colt? Mason, N. H., May, 1859. S. H. WHEELER.

For the New England Farmer.

THE SPIRIT OF PROGRESS.

Mr. Editor:-Among the great discoveries in our day are the steamers which crowd their What is the best season for transplanting the way through stormy seas, the railroads which thy, and are destined to the high office of uniting Is it ever desirable to shorten lateral grape the whole human race in one common brother-

Surely, this is an age of progress and improvement; and no power on earth can arrest its onward march. Our country is already dotted all over with improvements. No undertaking is too Directed by the skill of human genius, steam and We know nothing of the "Ohio Everbearing electricity already cross our rivers and climb our mountains; and our railroads will soon extend from the Atlantic to the Pacific; and with the telegraph, holding hourly conversations with the difengaged in this movement will roll on the car of civilization and improvement, till the whole American continent forms one vast Republic.

This onward march of the spirit of improvebudded or grafted where they are permanently ment is destined ere long to produce equally to remain, the orchard will be worth twice as great and important results in our agricultural much as though it were managed in the usual pursuits. It has already brought forth its mowners and the spant of the span way. The trees will live as long again, and bear ers, its reapers, its threshing-machines, its horse-twice as many apples, which will be larger, fairer, rakes, its stump-pullers, its seed-sowers, its and will keep altogether better, especially if they horse-hoe, its harvesters and its corn-shellers; are gathered as soon as they have got their growth, but before they are fully ripe. They will be fine-flavored in June and July, and conse-fields of the South, and into the great prairies of quently be valuable.

Apple trees grafted from scions that are two years old will bear every year, as a one year old shout of freedom to be heard throughout the scion has only half come to maturity, and conse- American continent; because one steam-plow can do more and better work than a hundred and fif-Corn for planting should be selected from an ty slaves; so that these United States will soon equal number of male and female ears, shelling be as greatly distinguished for their agricultural and mixing them together. Plant in drills and pursuits, as they are now for the means of inter-

Tell me not, that two-hundred and seventy-five thousand slave-holders will put their veto upon my steam-plow; for I know better; because I know, that they understand their own interests too well to do this. Tell me not, that the ignorant and the wicked, fearing the effects of all these improvements upon their own daily labors and income, will combine together as they have done in some instances already, and burn down all Put her into the stancheon and put a rope our steam-bakeries and machine-shops througharound her horns and over the top of the stan- out the land, and thus burn their own fingers, put cheon, and draw her head up so that her back will out their own eyes and starve their own families; for I will not believe, that, in this land; of light and progress, of churches and schools and mis-

sionary efforts, any considerable number of per- and barley-straw. Oil-cake, at the rate of six or sons can be found, so ignorant, so short sight-seven pounds per hundred sheep, and dissolved ed, and so vicious! No; the great mass of the in water is also allowed when the flock cannot be people are right upon this subject. Their course turned on the young wheat. is onward and upward. Their progress, if not so . Three or four weeks before lambing, an addirapid as could be desired, is still in the right di-tional allowance of hay and straw is given to the rection. "Having put their hands to the plow, ewes; and while they are suckling, a little oathaving put their hands to the plow, ewes, and while they are sucking, a fixed water they will not look back," but will press forward meal is mixed with the solution of oil-cake. In the work of improvement till every mountain, when the weather will permit the turning out of hill and valley shall be improved and beautified; the ewes, the lambs are still kept in the houses, every field rendered productive; and every humand the mothers brought back to them at noon man dwelling shall be pleasant to behold, neat, and night; after that the lambs are not permitted beautiful and attractive. John Goldsbury.

PRUSSIAN SHEEP.

about the middle of the eighteenth century, and they are placed, and take less nourishment than the advantageous change they effected every- when quietly kept on separate pastures. A few where they were introduced, could not be disput-barren ewes are, however, placed with the lambs ed. Notwithstanding this, Mr. Fink—to whom for the purpose of guiding them, and perhaps Germany owes much in regard to sheep-culture teaching them to select the best and most wholebreeds, purchased in 1768 some Saxon Merinoes, cessary to keep up the flock, and when they are and though his breed was much improved, yet two years old they are inspected—one-third of his object did not seem accomplished, and in the best of them are kept, and the remainder 1778 he imported some pure Merinoes from sold. The lambs are never shorn, in order that Spain. He took as the guide of all his experitively may be better able to endure the cold and ments, that which is now received as an axiom rain of autumn. among breeders, that the fineness of the fleece, the selection of the animals from which he bred, he improved his own native flocks to a considerable extent, and he succeeded to a degree which he dared not anticipate, in naturalizing a still more valuable race of animals. His success attracted the attention of the Prussian government; and Frederick II., in 1786, imported one hundred rams and two hundred ewes from Spain. Mr. your paper of this date, a further explanation of Fink was subsequently commissioned by the gov- Mr. Emerson's theory of the destruction of the ernment to purchase one thousand of the choicest onion maggot, by the application of guano. 1 Merinoes; agricultural schools were established, find no fault with his facts, but with the inferenand at the head of one of them was placed Mr. ces he draws from them, and beg leave, respect-Fink—the most competent of all persons—the fully to say, that his facts do not warrant his first improver of the Prussian sheep. The follow-conclusion. ing was Mr. Fink's mode of management:

snow with their feet, in order to arrive at the stroyer. short wheat or rye beneath. When the weather

to graze with the ewes, but are turned on the fallows or the clover of the preceding year; for it is supposed that they unnecessarily fatigue themselves by running with their mothers, and The Merinoes were introduced into Germany, this account, they refuse the herbage on which -unwilling to give up altogether the native some food. More lambs are saved than are ne-

The Prussian sheep-dogs, like almost all on and to a great degree the value of the carcass, the continent, are trained to obey the shepherds, too, are far more attributable to the inherent and are skilful in guiding the sheep, but they quality of the animal than to any influence of never worry or bite them. There is no natural climate or soil. Uniformly acting on this fun-necessity for it anywhere; and if flocks are occa-damental principle, and being most particular in sionally wild and intractable, bad management

For the New England Furmer.

THE MAGGOT IN ONIONS.

FRIEND Brown:—I am pleased to see, by

I repeat, what I have before stated, that no He properly maintains, that free exposure to method of destroying, or even checking the prothe air is favorable to the quality of the wool, gress of the maggot, has yet come to my knowland therefore, although the sheep are housed at edge; and that I have no confidence at all that the beginning of November, yet whenever it this can be done by the application of guano. freezes, and the ground is hard, even although it Such is the opinion of many practical men of may be covered with snow, the sheep are driven sound judgment, who have had a hundred times to the wheat and rye fields, where they meet as much experience, in the culture of onions, as with a kind of pasturage exceedingly wholesome, Mr. E. has; who have grown thousands of bushand while they feed they are likewise benefiting els annually, for the last twenty years; and who the crop. Nothing is more common than to see now discontinue the culture, by reason of their a flock of valuable sheep scratching away the fearful apprehension of the ravages of this de-

I am pleased to know that the Secretary of will not permit their being taken out, they are the Board of Agriculture is directing his attenfed on hay, aftermath, and chopped straw of vari tion to this subject. I would not have impugned ous kinds. The kind of straw is changed as Mr. E.'s assertions, if he had not unnecessarily often as possible, and wheat, barley, and oat-commenced the attack. I commend his spirit straw, and pea-haulm follow each other in rap- of inquiry, but caution him not to think he knows id succession. The oat-straw is sparingly given, as much about the culture of onions, from the and the pea-haulm is preferred to the wheat growing a small bed in his garden, as those who

which crops came under my observation.

J. W. PROCTOR.

South Danvers, May 21, 1859.

N. B. I thank you for the just notice taken of our annual publication. Mr. Secretary Dodge is entitled to much credit for the compilation.

For the New England Farmer.

ONION CULTURE, MAGGOT, &c.



Onion Fly .- Anthomyia Ceparum, (greatly magnified.)

"The male of this fly is of an ashy color, roughish, with black bristles and hairs; the eyes are contiguous and reddish, the face silvery white; horns black; there are faint lines down the trunk, and a line of long blackish spots down the centre of the body, more or less visible in different lights. The female fly is of an ashy grey color, clothed with black bristles and hairs; the commenced his work: eyes are reddish and remote, with a light chestnut stripe between them; face, yellowish white."

To 20 gallons of wa

attacks the plants in their young state, and continues feeding on them during the whole summer; sometimes they attack the crop generally, causing a total failure, at other times attacking them in patches only, the effects being most observable in dry weather, the leaves turning yellowish, and the plants at last falling over and de-

about fourteen days, they then descend into the uneven churning. earth to undergo their transformation, when they become a reddish brown pupa of an oval form. dasher of the churn so adapted to the inside of

have grown aeres, annually, for many years. I The means hitherto employed for subduing these, know one gentleman, of Marblehead, Mr. H. are, laying soot over the beds, or incorporating Ware, who last year grew ten acres, yielding, it with the soil, applying salt in the same manfit for market, more than 4000 bushels.

Messrs. ner, watering with lime-water, gas tar, stale soap-Buxton, Huntington, Watson, Bushby, Osborn, suds, soot water, stale urine and old tobacco waand others, cultivated in like manner-all of ter. Their power of reproduction is so great, that unless they are destroyed the moment they are discovered to have attacked the crop, (which is known by the drooping and yellow leaves.) their total eradication becomes next to impossible; all other means except carefully pulling up every diseased plant and burning it, can only be regarded as exceedingly superficial in their effects. Deep trenching, and frequently turning over the soil, are of great advantage, in the one case, burying the pupa too deep for its again reaching the surface, and in the other, disturbing it during its transformation, and probably preventing that change from taking place.

> Sowing onions year after year, on the same ground, is a very certain way of multiplying these insects, and might be carried to the extent of literally stocking the ground with them. Insects peculiar to any plant, seldom attack the crop during the first year, after being planted in land not previously occupied with the same kind of erop, because the soil has not yet become furnished with the pupa of the insect peculiar to the plant; hence some advantage arises from sowing onions after celery, and vice versa, cabbages after

potatoes, &c.

Spirits of tar is of great use, if applied in sufficient quantity to the soil immediately after the crop is removed. The following has been applied to an onion erop, even after the insect has

To 20 gallons of water, 1 peck unslacked lime, 1 peck soot, 2 gallons of urine, 1 pound soft soap Mr. Editor: - This vegetable, worshipped by and 2 pounds flour of sulphur. After the above the ancient Egyptians, and the want of which was mixture is settled, it is then sprinkled over the so lamented by the Israelites in the wilderness, bed through the nose of a watering pot. "Powhas within a few years, in many localities here, dered charcoal has been used, but is not found been almost entirely destroyed by the maggot, so efficacious as soot. Branconnet has shown or grub of the onion fly, so called by one of the that a watery infusion of soot is eminently antibest entomological writers of England. He says, septic, preventing the rottenness to which the "The common onion fly, Anthomyia Ceparum, onion is extremely liable when attacked by the J. M. IVES.

Salem, June, 1859.

For the New England Farmer.

WHITE SPECKS IN BUTTER.

Mr. Editor:—I noticed in the N. E. Farmer caying. On removing the outer coating or skin last week, your theory about churning to prevent of the plants destroyed, the cause will be discov- white specks in butter. Having devoted my whole ered in the presence of a small grub, which eats time, for the last five years, in the manufacture its way into the very heart of the onion. The and sale of the Fyler churn, and spent much time eggs of the fly are deposited on the leaves when among the dairies of Vermont and northern New in a very young state, and close to the earth; as York, I venture to differ with you in theory on soon as the maggots are hatched, which takes that subject. You say as soon as the butter beplace about the time the plants are the size of a gins to come, scrape carefully down all the cream small quill, they bore their way through the out- that is thrown to any part of the churn, and has er leaf and penetrate the onion at its base, feed-escaped its share of churning. I say never scrape ing chiefly on the bottom part of the bulb, eausthere cream down into the churn after it begins to ing it to separate from the root, and occasionally, come; if scraped at all, scrape it into the cream a mass of mouldiness familiar to every cultivapot and save it for a new churning, and not into the churn to form those very speeks you wish to These grubs generally attain their full size in avoid. Those white specks are usually caused by

The true principle of churning is, to have the

the cylinder as to act on all the cream alike, and integrated and fitted up for the life of man. if so adapted, and the cream has been properly classes of men affirm this. Sydney Smith says cared for, and you churn quite slow till it is pertopolic speakers, that if they would walk twelve feetly mixed, and then faster, till the sacks commiles before speaking, they would never break taining the butter begin to break, and then will down. In English Universities, boat races, horsescrape what is on the lid into the cream pot, you back rides, and ten-mile walks are a part of the will not be troubled about those white specks educational means for physical development.—that spoil one-half the butter made in this coun-Plato says a walk in the open air will almost cure

To carry out your theory, suppose you try an experiment; churn, say nine quarts of cream on my principle, and see how much butter, then take the same quantity and churn till it begins to come, or until you have churned one-half the time required; now put in another quart of cream, and I will be bound, you will either have plenty of white specks, or your buttermilk will be enriched with about the value of one pound of butter. HENRY HOLMES,

Proprietor of O. R. Fyler's Butter Working Churn Grafton, Vt., May 30, 1859.

REMARKS .- We have no doubt that the practice which our correspondent suggests, is the true one—although careful butter makers seldom experience any trouble in scraping the cream down, as we suggested. We have the Fyler churn in constant use, and after having tried several other kinds, do not hesitate to say that it is the best churn we ever used. We hope all butterdent, rather than ours, for in that no risk whatever is run. He has our thanks for his prompt of butter-making, packing, and keeping.

a table-spoon twice full of weak lye, and it will or three lumps of white sugar always of a cerraise them in fifteen minutes after given. One tain size, and you sweeten to your liking. In no morning I found fifteen or twenty sheep poisoned instance is your coffee boiled, and this is one reaby eating ivy the day before. Some of them son the cafe au lait and cafe noir are so much when found were flat on their sides; others admired by those who take them. If you try frothed at the mouth, grated their teeth, and this mode, I am sure, in a few experiments you staggered about badly from the effects of the will succeed in getting it right, and possess yourcured by putting a gag in their mouths, which breakfast on a cold morning-try it." would keep the sheep from swallowing the poison, but let it rise and run out of their mouths. After Lihad lost three out of six, that could not hold up their heads, and appeared lifeless, one of my the accomplished wife of a captain of the British neighbors recommended weak lye as a sure cure; navy, gives a lively account of a call she with it was given them, and in ten minutes one of the two other ladies made upon Mrs. Washington, sheep was eating rowen. It had the same effect who, like her husband's mother, was distinguishon the other two, and the whole three are now as ed for her management of household affairs. "As lively as any of the flock. - Virginia Farm Jour- she was said to be so grand a lady," says Mrs.

that air is mind. Some one else says air is the duced to her ladyship. And don't you think we hidden food of life. Plutarch seems to incline found her knitting, and with a check apron on! to Anaximines' opinion, remarking that perhaps | She received us very graciously and easily, but the reason why there is a sympathy of feeling on after the compliments were over, she resumed various subjects, arises from breathing the same her knitting. There we were, without a stitch of air. Air is an exhalation of all the minerals of work, and sitting in state; but General Washing-the globe; the most elaborately finished of all ton's lady with her own hands was knitting stockthe works of the Creator-the rock of ages dis-lings for her husband."

a guilty conscience.—Emerson.

LADIES' DEPARTMENT.

HOW THEY MAKE COFFEE IN FRANCE.

A cup of French coffee seems to have the effeet to put Americans into ecstacies; yet few of them are thoughtful enough to obtain from their French brethren the process by which the delicious beverage is decocted. Of this few is a Buckeye writing from Paris, under date of Nov. 9th, who supplies the desired information:

"While at Mr. Moriols, his good lady kindly initiated me into the art of coffee-making. the first place it is scorched in a hollow cylinder, which is kept constantly revolving over a slow fire, and not a grain of it allowed to burn. Seeondly, it is ground very fine, and thirdly, when it is to be used, a portion of this is placed in a finely perforated pan or eup, which exactly fits into the top of the boiler, coffee-pot, or any vesmakers will adopt the practice of our correspon- sel you wish to use. Boiling hot water is then poured on and it percolates gradually through, carrying with it all the essential principles of the coffee. As soon as percolation is completed, the and timely notice of the matter, and we hope to pan is removed containing all the grounds, and hear from him again on the important subject then boiling hot milk is added to the infusion, and your coffee is made. It is brought on the table in bowls, with a knife and spoon, and a little willow basket of bread. The servant then A REMEDY FOR POISONED SHEEP .- Give them places by your plate a tea-dish, on which are two ivy. Those that were not found sprawling were self of a luxury which will add very much to a

A LADY OF THE OLDEN TIME. - Mrs. Troupe, Troupe, "we thought we must put on our best bibs and bands. So we dressed ourselves in our WALKING AND PURE AIR .- Anaximines taught most elegant ruffles and silks, and were intro-



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N0.

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SIMON BROWN, EDITOR.

FRED'K HOLBROOK, ASSOCIATE HENRY F. FRENCH, EDITORS.

CALENDAR FOR AUGUST.

"The Dog Star rages."



UGUST, like every other month in the year, has its distinctive peculiarities. July may have been hot, but pavements seem glow with an intense heat, the brick houses throw back the rays of the vertical sun, unre-

lieved by a single shadow-the trees are covered with dust, and you breathe in an atmosphere which seems to arise from some

fiery furnace. The omnibus horses, which never have a vacation, still plod along, looking dejected and unhappy, and you are inclined to believe

that in this form, some poor human soul is working out its second probation. Saving said omnibus horses, business men, and the dwellers in lanes and back streets, the city is well nigh emptied of its inhabitants.

in and the thrush still sing in the woods, but the whippoorwill, whose plaintive note is the sweetest of all, we shall hear no more till another summer. He only comes out in the night, and there is a superstition that he foretells death or misfortune to any household he may visit. Like most other superstitions which are handed down from one generation to another, it is difficult of proof-for we have known him to serenade a whole village night after night-enough to have foretold a pestilence at least, and yet nothing unusual seemed to follow.

Down in the meadow and by the brook, you will find the cardinal flower, which takes its name from its brilliant scarlet blossoms, -and the clematis now trails its vine over the alder bushes by the way-side. The May flower, the June pink, the cinnamon rose, the damask and the blush, have all had their day. The apple tree hung out its blossoms, and the horse-chestnut put on its thick, green leaves and gorgeous flowers, grew furiously for a few weeks, and then settled quietly down for the remainder of the summer-so that even now, while this glowing heat is upon us, there are many voices that tell us summer is going-sad voices they are too-who ever listened to them,

"Nor cast a longing, lingering look behind?"

A few words about the horse-chestnut, by the Let us follow the multitude, and flee into the way. It is in reality a hardy tree of rapid growth, country. Even here the freshness of summer has but it has not the aspect of a citizen of New Engdeparted. The grass which was waving so grace-land. When in full bloom, it has the appearance fully a few weeks ago, is lying in heaps, while of a huge bouquet of tropical flowers. It is, morethe hay-caps scattered over hill and valley, look over, even when in its proper place, standing like the tents of a Lilliputian army. The sun alone on some hill-side, or open place of an exsinks down in the West, and rises again in the tensive lawn, entirely ornamental, its fruit being East, with the same lurid glow. He is entirely bitter and uneatable. Fifty years ago, in some shorn of his beams—a mere red ball of fire. Lis-portions of the country, every house had its row ten, and you will hear the grasshopper singing of poplars, but either from the fact that it is natfrom morning to night, as he vaults gaily about urally a short-lived tree, or because our climate among the short grass. He enjoys himself, and did not agree with them, they began to die out, would not give a fig to have it cooler. The rob- and to look ragged and old. Now you will scarce-

places are elms, maples, horse-chestnuts, &c. only pleasant figures of speech. People say the poplar is not a graceful tree. With the loss of some things which seem poet-True, it has a firmness of aspect not in accor- ic and picturesque, however, we have, undoubteddance with modern ideas of expansive luxuriance, ly, many comforts of which our fathers never but how perfectly it seems adapted to the early dreamed. There is a greater attention to the days of New England, when little children were beautiful in-doors and out, and with increased duly washed, whipped, and catechised every Sat- facilities for performing mechanical labor, we urday night—were taught to make courtesies to must find more time for its cultivation. passers-by, and, tradition says, to say "yes sir," and "no sir," to their elders! Then ladies wore much with the notions of the preceding-for, to skirts without gather or plait, and bonnets that close in the same spirit with which we comactually covered their heads. But a time of great-|menced, "Every dog must have its day." er latitude in dress, manners and morals came about, and the old tree fell out of place, and quietly stepped out, with the good old grandmothers who used to sit under its branches. It may be a precise, puritanical tree, but there are some in whose eyes it will always be beautifulto whom it will tell more tales than the fabled leaves of the Sybil. South of us, on some of the old estates of Virginia, the poplar may still be seen, broken and decayed, fitting monuments of the old aristocratic families who planted them.

Doubtless, the march of improvement is onward, but it is not without a pang that one sees the ancient land-marks removed. It is astonishing how quickly, now-a-days, customs are transferred from the heart of life and business to the extremities of the great body of humanity. We have in our mind a certain village away up among the hills of New Hampshire. The nearest railway station is six miles distant, and the steam whistle comes softened and modified through the forests, till it loses its harsh, business-like reign? sound-here the very birds are suffered to sing nothing newer than "Old Hundred" or "St. Martin's," and from time immemorial the same white houses with green blinds have gleamed pic-ture, with now and then an iron barrel, made so turesquely among the abundant foliage; but this thin and weak, without being guarded and summer we took a look at this conservative spot, and behold, the old tavern-stand, which had stood a hundred years, looking meekly out of its dormer-windows upon the world below, has come out in a new fawn-color suit with dark trimmings! Should the ghost of its builder, who lies with name and number printed on it, and they near by come out to view his possessions some keep their ashes in nothing else, how long would near by, come out to view his possessions, some moonlight night, what a surprise awaits him!

"O! tempora, O! Mores," won't they leave us a spot anywhere "sacred to the memory" of old associations! Must civilization go ruthlessly striding over our hills and valleys, building up and levelling down till the world is all made after one pattern?

"glowing fireside" has become a tradition, and of straggling long vines.—Working Farmer.

ly find a solitary specimen any where. In their the "chimney corner" and the "old arm-chair"

It is not wise to hamper one generation too

For the New England Farmer.

IRON OR METALLIC BARRELS.

A few nights since, while nearly all the people were in their deepest slumbers, fire was discovered in an eating-saloon, No. 25 Ann St., New York, caused by ashes put into a wooden barrel, the day or evening previous. My attention of late has been called to several instances of the same kind. To my mind, many subjects of less importance are brought before the public, while this is left unnoticed, although of the utmost consequence to the safety of our lives and property. Why should we suffer such a devouring enemy as fire to moulder and feed among the ashes contained in a vessel suited to its element, ready to break out in the stillness of the night, and threaten such fearful consequences? Have we not learned to confine the lions and tigers in iron cages, and with iron chains, where they cannot gnaw and break away? Should we not then do so with that monster who serves us well when controlled, and is so destructive when allowed to

I have often noticed, when walking through the streets of New York and Boston, good coal and ashes together, set out for the city carts, in wooden barrels and vessels of a combustible nastrapped, that it will not sustain its own weight, while being emptied over the rave of the cart. In such a city as this, subject every moment to conflagration, we ought to have every means of safety and good order preserved. Suppose every person be provided with a good iron barrel, it be before a handsome dividend would be remitted from their insurance policies? inform us where such are made, and the best kind of sifters suited to them.

A FRIEND TO SAVING LIFE AND PROPERTY.

Melons, Cucumbers, etc.—These are materially improved by pinching off the runner bud Bayard Taylor says-"Pianos in Lapland, Pa- after the third rough leaf has been formed. This risian dresses among the Lofodens, billiard-ta-practice will always insure a number of young risian dresses among the Lotodens, billiard-ta-shoots instead of a few, and the fruit sets early bles in Hammerfest—whither shall we turn to and near the centre of the hill so as to perfect itfind the romance of the North!" Already the self, instead of giving small results at the ends

For the New England Farmer.

LETTERS FROM MAINE --- No. 1.

As the New England Farmer is fast growing into favor among the farmers of Maine, I wish to Baldwin trees grafted at or near the ground are make it a medium of communication for some likely to prove failures in all parts of Maine. The facts—the result of experiment and observation last winter has destroyed tens of thousands of -which may be both interesting and useful.

I will begin with some observations more particularly applicable to the latitude of Maine, than while many other varieties have escaped in the to that of Massachusetts, but the facts I shall re- same locations, bidding defiance to the temperacord may suggest a test of certain theories and ture that causes mercury to congeal. principles relative to fruit culture, which would be more likely to escape notice in a warmer lati- the attempt to raise young Baldwin orehards in tude, and which may still be of essential impor- this State, and we must either seek a substitute tance to the fruit culturist in the location of milder winters.

The last winter has proved to be a disastrous one to fruit trees in the interior of Maine. Not that the average coldness of the winter was in tions upon the relative capacities of different vafact that on the intervales, and generally in the ature of winter. valleys, in all the central and northern parts of the State, on one occasion, the mercury sunk to the point of congealation, 40° below zero.-This circumstance affords an opportunity to test the capacity of different varieties of fruit trees to resist the effects of climate. It may likewise enable us to decide what varieties may be generally ventured upon with safety.

duced into general cultivation in Maine.

attained maturity, and the first observed results fences, but vegetation has here been uninjured. seemed to promise unlimited success. Nor has The prospect for grass and spring grains, thus this part of the experiment, up to this time proved far, is promising. a failure, for immense sums of money have been brought into Maine, for Baldwins exported which ish best upon a stony, gravel bed, south of a have been produced on new tops furnished to old stone wall terrace. The adjacent ground was

which has attended this experiment, orchardists in width. Finding that a row of strawbery plants have suffered material loss by the winter-killing might be inserted at the foot of the wall, I placed of one after another of the branches, and occa-them in that unpromising position, to take care sionally of whole trees. This has been generally of themselves, if they would, but hoping little attributed to too hard pruning. And undoubtedly from them, stones alone being their companions. thousands of valuable trees might have been They took root and produced some fruit, and saved if more science had been called into requi-sition in pruning; but the past winter has proved that no care in this respect can prove an absolute down roots from the joints of the runners, in the security for the Baldwin in our high northern interstices of the stone-pebble walk, till the suratitude. Excessive pruning always endangers face was nearly covered. No grass or weeds inthe winter-killing of the tree, and in proportion terfered with their growth, and the size and to the coldness of the climate. A tree in New amount of the fruit now exceeds that which I can Jersey will receive no injuiry from the pruning raise, upon the same area, elsewhere upon my that would invariably prove fatal in Maine, and premises, and it matures a week earlier than in one of the lessons I wish to impress upon the reader, is that less interference with nature must be the terrace, with roots and peas, descends gently practiced as the fruit culturist approaches the to the terrace wall, and rains wash rich, manured quired to mature the sap for resisting the frosts and this doubtless feeds the strawberry roots. of high northern latitudes, than is found to be Yet I am satisfied that if a gardener has such an necessary where frosts are less severe. Hence in amount of pebble stones that he hardly knows all attempts to cultivate less hardy varieties of how else to dispose of them, he may, by a moder-fruit in colder regions, much caution must be used ate intermixture of rich earth, form them into in pruning so as to reduce the quantity of leaves. productive strawberry beds. The propagation of

Baldwin is less liable to winter-kill when grafted at a considerable hight above the ground, and on

the slowest growing trees.

In fact all attempts to raise new orchards from Baldwin trees in our state, and swept off almost the whole Baldwin departments of nurseries,

Money enough has already been squadered in in some hardier variety, or lose most of the benefit to be derived from the crop second only in importance to one other of the crops of our latitude.

In my next I propose to detail some observaany sense peculiar or remarkable, but from the rieties of fruit trees to resist the extreme temper-SANDY RIVER.

For the New England Farmer.

THE SEASON --- ONIONS --- STRAWBER-RIES.

Mr. Brown:—My Dear Sir,—The last week of May and three days of this month, the 1st, 3d and 4th, have been abundant in rain, with chilly The past winter has proved that the Baldwin east winds, and on the night of the 3d and 4th is the most tender variety of the apple yet intro- there were two drenching thunder showers, the lightning frequent and vivid, and the thunder Some ten or fifteen years since, the universal powerful. Yesterday, the 5th, required overcoats popularity of the Baldwin apple induced its wide-out doors, and fires within. The thermometer spread introduction into the State. It was in- at 4½ o'clock this morning, 6th June, stood at 35° troduced by grafting on the tops of trees that had and white frost was seen on the top boards of

Accidentally I have found strawberries flourcleared of pebble-stones, thrown and raked up to But notwithstanding the measure of success the wall, and then levelled for a walk of two feet A much larger amount of leaves are re-soil in some degree into the pebbled bed below, Another fact, proved by observation is that the the plants by the runners whose roots will get

and common grass, is a fact very observable, and highest of which is less than the present current one that can be turned to good account, in giv-value. en localities.

blight of my onion crop has come on when the sult. The provender consumed was, tubers are but half-grown. The best manuring English Hay, 86 ths., at \$17 \$\psi\$ ton..... and tillage of mine does not prevent it. It comes on in August, with a decay of the tops of the plants, when the extremities turn white. This symptom extends to all the crop, and increases, till the tubers cease expanding, and their tops wither down and die. The onions gathered rot in the winter, and few remain sound till spring, whether traced up, or spread out in the cellar. These facts I have not seen stated in the Farmer, The mean time since dropping their calves is 8 and therefore mention them, that if they have months. Three will come in again in a mean been witnessed by others, they may, peradventure, be explained, and the cause and cure be as-

signed.

The apprehension that a species of butterfly, observed in the summer of last year, a specimen of which I sent, was parent of a destructive forest insect, a migrating worm, that infested our forests in 1857, was happily not verified by observation. Still, numerous worms appeared upon our hard maples, in our street, and consumed the foliage fast, in August. They seemed not travellers, like those of the preceding season, and generally were seen more clustered together. They disappeared earlier than those of 1857, and our friends, the chipping birds, were so numerous and industrious, that very probably they stopped their depredations.

Many cherry trees decay here; peaches are despaired of, and for some cause, vines, the Isabella especially, are greatly damaged by the winter. Salisbury, Conn., June 6, 1859.

For the New England Farmer.

COST AND PRICE OF MILK.

At a recent meeting of the Lexington Farmers' Club, the question under discussion was whether pure milk could be afforded in this town for less than 25 cents per can. The general impression was that it could not be afforded at that price in winter, but none had exact estimates as the result of experiments, except Messrs. Reed and Fessenden.

Mr. N. Reed had made a trial with 20 cows by carefully ascertaining, one day in each week for three successive weeks, the amount of provender fed to them, and also the amount of milk produced by them, and by dividing the amount by three he obtained the mean result for one day as follows, viz.:

•	Estimated value.	Estimated value.
Oil Meal, 30 fbs	\$,54	\$.54
Shorts, 43 lbs	,43	,43
Fine Feed, 20 lbs		
Roots, 5 bush		
English Hay, 300 fbs		
Meadow Hay, 200 lbs		
Depreciation of stock, 22		
Interest and taxes, 15c	≯ day,15	,15

found to be 140 quarts. It will be perceived that course" on earth.

into the earth, among obstacles that impede weeds there are two estimated values of hay given, the

Mr. N. Fessenden made a trial with 5 cows For one or two seasons past, an inexplicable for one day, fed as usual, with the following re-

OH Meal, 9 lb.s., 13 cts. \$\rightarrow\$ lb. 13 Rice Meal, 8 lb.s., 14 cts. \$\rightarrow\$ lb. 10 Husks, quantity and value guessed at. .08	Sali Hay, 20 lbs., at \$11 \$\pi\$ ton	
Husks, quantity and value guessed at	Oil Meal, 9 lt.s., 13 ets. ₽ lb	;
25 \\$1,15(,0	25\\$1.15	7.0

Per can..... The quantity of milk produced was 25 quarts. time of 4 months; the other two are farrows.

LEXINGTON.

For the New England Farmer.

MASSACHUSETTS SCCIETY FOR PRO-MOTING AGRICULTURE.

BY JUDGE FRENCH.

When a man has lived so long and so faithfully, in this thankless world, that he has become, at length, content to labor quietly and constantly, to promote the welfare of his fellow-men, receiving and expecting no other reward than that which an approving conscience may afford, he has become once more "but a little lower than the angels." As the elder Mr. Weller remarked, by way of consolatory reflection, on the death of his wife, such a person is almost "too good a creetur for this place," and might be translated with no great change to a better sphere.

It is true of most machinery that the more perfect its workmanship, the less noise it makes. It is the friction, and not the power, that attracts common notice. The big engine that propels the ocean steamer Vanderbilt, with a power equal to that of thirty thousand horses, makes less noise than a single, idle, braying jackass.

"Stillest streams, oft water fairest meadows, And the bird that flutters least, Is longest on the wing."

The Massachusetts Society for Promoting Agriculture, ever since the 7th of March, 1792, has been modestly, quietly, but steadily keeping the even tenor of its way, like the steamship, regardless of the shifting breeze and the inconstant waves, straight onward, by her compass. And now at the end of almost threescore years and ten of its life-voyage, we have an abstract of its log-book, in a modest pamphlet of 149 pages, from the hand of its accomplished secretary, RICHARD S. FAY; given to the world, not in a spirit of boasting, to show how much good this Society is now doing, or proposing to do, but rather as a memorial of the worth and un-The amount of milk produced in one day was selfish labors of those who have "finished their

So little was known of the operations of this In 1820, it appears that a stallion of the breed and it was unanimously voted inexpedient to become of the posterity of this horse. form a new society. A decent respect for the | Verily, there is nothing new under the sun.

For nearly seventy years, men of the highest In 1800, a seed-sowing machine was exhibited social and political position, in aristocratic Bos- to the trustees. In 1812, the model of a double ton, and neighboring towns, men whose time and plow was ordered to be procured. business talent could coin them money in all de- In 1827, a letter was received from N. BIDDLE, partments of life, have laid aside their everyday Esq., of Philadelphia, describing a mowing macares, and met regularly, to take counsel togeth- chine. er, for what they rightly deemed the great and fundamental interest of their country. Among as to discharge seven balls successively, with the great names of early members of this Soci-lonce loading and priming, but the committee say ety, we find SAMUEL ADAMS, JOHN LOWELL, that they do not deem themselves authorized to FISHER AMES, THOMAS RUSSELL, CHRISTOPHER recommend any premium for it, "it not being an Gore, James Sullivan, Martin Brimmer, instrument of use in agriculture, and having no THEODORE LYMAN, THOMAS L. WINTHROP, certificate of its having been used and improved AARON DEXTER. In 1805, JOHN ADAMS, ex-by any practical farmer!" president of the United States, was chosen Pres- | Corn-shellers, straw-cutters and threshing maident, in place of Gov. STRONG, and DUDLEY chines were shown and discussed nearly a half

THOMAS L. WINTHROP was elected President, found on every hay farm in our country. and Col. THOMAS H. PERKINS a Vice President. There is hardly a new implement that has been Further on, we find among the officers, Peter introduced, or a valuable breed of animals, or a C. BROOKS, Dr. JAMES JACKSON, DANIEL WEB- new and valuable plant or root or seed, or a hint STER, ELIAS PHINNEY, J. P. CUSHING, JOSIAH as to a plan for aiding the interests of agricul-LAWRENCE and EDWARD EVERETT. GEORGE the influence of this Society. W. LYMAN was President in 1858, and CHARLES From time to time, men who are "tired of heareditor, in the monthly N. E. Farmer for March, spirit could be largely increased in numbers. 1859, gives a list of some of its more important. The commonwealth of Massachusetts is the including Hereford and Alderney cattle.

Society, that at a public meeting at the State known as the Suffolk Punch, bred in England, House, in Boston, on the 5th of February, 1857, was presented to the Society. Of this breed of for taking measures to form a new State Agricul-horses, we had an excellent opportunity, while in tural Society, one gentleman said of it, that "it England, to form an opinion, which has been alhad a respectable existence, he believed, in State ready expressed in this paper. Our belief is, Street, and was likely to be a money-making con-that the world does not afford another breed of cern. The State paid it \$600 a year, and some horses, so well adapted to farm labor and general said it was spent in good dinners!" A very brief purposes of heavy draft, as the Suffolk Punch, discussion, however, dispelled all such delusions, and we have some curiosity to know what has

dead, as well as the living, seemed then to de- In this record, in 1801, we find a proposition for mand of the Society some exposition of its holding market fairs "on Cambridge Common," transactions, and we have in this little volume, in May and October, and this seed has just vegin a simple statement of facts, a vindication of etated, after fifty-eight years, into market fairs in its course, alike creditable to the present and for- Essex county, which will now spring up everymer members of the Society, and to the country. where, with great advantage to the farmer.

In 1820, a pistol was exhibited, so constructed

Tyng and Josian Quincy were elected trustees. century ago, in this Society, and a hay-making In 1821, Rev. Mr. Coleman delivered the ad- machine was presented to the Society in 1823, dress, and the next year, Col. TIMOTHY PICKER- an implement which we have seen at work in ING rendered the same service. In 1828, Hon. England, and which should, and soon will, be

QUINCY, Jr., Dr. JOHN C. WARREN, ABBOTT ture in any way, that may not be traced back to

G. LORING and ROBERT C. WINTHROP, Vice ing Aristides caled the Just," have cried out Presidents, Thomas Motley, Jr., Treasurer. against its members, as book farmers, and gen-It is doubtful whether the records of any agri-tlemen farmers, and as an aristocracy, and nocultural society in the world can show a list of body can deny that all these appellations belong more distinguished names among its officers, to them. For ourselves, we have no antipathy And its records of what it has done, are worthy to books or gentlemen, and only wish the arisof the names of its members. An article by the tocracy of learning and benevolence and public

premiums, and notices its valuable importations model State of the world, at this moment. Noof live stock of approved breeds, from time to where is she excelled in the general edification time, commencing with Merino sheep in 1802, of her people, in the true spirit of freedom in the hearts of her citizens, in the equal and just

every class, or in general prosperity in every son why, eventually, the whole of these plains, branch of business. In fostering the interests will not be reduced to near barrenness, if this States of our Union, doing for the rest what less is continued; namely carrying away the crop, ability or enterprise prevents their doing for and returning nothing to the land, which well themselves.

Long may the old Massachusetts Society continue to prosper, diffusing, through the press and so that manuring extensively is out of the questhe quiet example of its members, the light of tion. These plains are happily interspersed, how-science by which alone all progress is securely ever, with brooks, runs, and low plats, besides

For the New England Farmer.

SANDY LANDS ... MUCK ... THE "SKIN-NING" METHOD OF FARMING.

ten miles to the east, is a large tract of light, again. This land, on account of dryness of the plain land, about which, and its management, I surface, is hard to stock with clover, or the grasspropose to say a few words, especially that in es, and unless the season is unusually wet, the this State, south of the green-stone range of seed sown is generally wasted. Hundreds of Holyoke and its sister mountains. Geologically, acres I have in mind, which, when not in crops, it is drift, overlying new red sandstone, which are covered with weeds, wild, useless herbs, and sometimes crops out, or is within a few feet of the low briars, (cubus canadensis;) these, dethe surface. The soil is naturally thin, and the caying on the ground, are all the nourishment timber principally pine, except along streams and received by the land. occasional hills, where the ground is more moist, and the subsoil a red, hard-pan. Dryness at all ent investment, is not doubted by those engaged seasons of the year is a characteristic of this soil; in it; but that they do not sometimes think of and in summer, after a rain or a heavy shower, what it must lead to is quite improbable; still, the farmers can resume their hoes within a few guano is often applied, and though it generally hours, with but slight inconvenience from mois-produces larger crops, undoubtedly draws the ture; but notwithstanding this, no land is found harder upon the land. that suffers less during a drought.

of seventy-five to one hundred acres, and devoted land hardly pays, and though it works quick, and largely to the raising of grain, rye and corn; produces satisfactory crops, immediately after its thirty acres in each crop being not unusual, with application, it does not seem to last in the land. the larger farmers. The yield is not large; from And again, such a large surface of land is imfive to twelve bushels of rye per acre and fif- proved each season, that it is next to an impossiteen to twenty of corn; but the land tills easy; bility to manure it all; but doubtless it would so that a man can easily hoe from one to two be better, taking into account the continued crop-

The present condition of these light plains, ground. under their present management, does not present a very flattering prospect for the "rising large reservoirs of muck, in pond-holes, convegeneration." "Money" not only "makes the mare niently interspersed, and accessible, either by generation." "Money not only makes the mark of accession, and accession, clarety go," but with the New England Yankee, is, to a drainage, or in dry weather, and large beds of far too great extent, the great incentive of life, but of the swamps. Some farmers under this spur, the high price of wood in this vicinity for the last five or six years, has induced the cutting off of hundreds of acres of wood menced the application of muck to their sand-but generally merely as experiments. every winter, until the market became clogged knolls, but generally, merely as experiments. with the article; but not, we are sorry to say, till One hundred and fifty loads to the acre, on the the greater part of the woodland has been cut poorest of these sandy fields, would produce a over; nearly all the old growth; and now the good soil, that would produce double, and even effects of the north-west wind, as it sweeps across the knolls, is seen in bare sand-blows, which every with judicious management, ten or a dozen years, and the woodland has been cut poorest of these sandy fields, would produce a over; nearly all the old growth; and now the good soil, that would produce and last, probably, the knolls, is seen in bare sand-blows, which every with judicious management, ten or a dozen years, and the control of these sandy fields, would produce a over; nearly all the old growth; and now the good soil, that would produce a over; the control of these sandy fields, would produce a over; nearly all the old growth; and now the good soil, that would produce and even effects of the north-west wind, as it sweeps across treble the crops it now does, and last, probably, the knolls, is seen in bare sand-blows, which even with judicious management, ten or a dozen years, and the control of the control ery fall and spring are increased in size. The without further outlay, or good crops of grain, land where the wood was cut, not being allowed every season, for five years. The muck can be to grow wood again, because it requires time, is drawn at any season of the year, when there is

administration of law, in liberality towards the few seasons. The older land is now much worn, poor, the blind, the deaf, and the unfortunate of and when too poor to grow corn and rye profitaof agriculture, she stands at the head of the system of improving them (rather misimproving) deserves the epithet of the "skinning system." The grain is sold, and generally but little more stock is kept than is necessary for convenience, now and then a hill, with the hard-pan subsoil before mentioned, which furnishes all the mowing-land, and accordingly receives the manure.

There are generally taken from the plain-fields two crops in every five or six years, which, of course, draws severely upon the natural resources In what is called the Connecticut valley, be- of the soil, originally scantily supplied with vegtween the Connecticut and the gneitic hills some etable matter, and nothing is done to restore it

It seems to be a settled fact in people's mind, These plains are generally divided into farms at least hereabouts, that manuring on dry, sandy or three acres a day; at least it is passed over, ping to which the land must be subjected, to combut, perhaps, sometimes "hoed at" rather than mence the business of permanently improving these soils, and raise more grain on half the

Nature has supplied the necessary means, in broken up, and two, three or more crops of rye, leisure, by a little calculation before hand. Acand one or more of corn or millet, are successively taken off, when it is permitted to rest a there is a way;" but if where there was a way

there was a will, in this matter of muck versus entertaining and instructive—and with the pressand-blows, two or three acres might be thus improved by almost any farmer, every year.

In conclusion, I will briefly give a history of an experiment in this line, though I cannot give as precise data as I would like. Some six years ago, in converting an alder-swamp into mowingland, I had occasion to bog considerably, taking hands of practical, energetic men, and is doing off the whole crust an inch or two in depth between the bogs. This crust, consisted, in part, of grass bogs, but principally of loose ham- that portion of the valley of the Connecticut. mocks, abounding in brake roots, or "nigger-heads," as commonly called. An acre of meadow was treated in this manner in August, and the bogs packed into heaps, and in the following winter, were drawn to a sand-knoll, some thirty rods distant, covering about the same surface there. In the following spring, the bogs were plowed usual yield of the land, and the zucceeding rye crop was bountiful, far exceeding the yield of the remainder of the piece, which, before treatment with muck, was much more fertile. After resting one year the bogs were sufficiently rotted to knock to pieces easily, and the piece was again belowed and planted to potatoes the Mercer variance work large than the control of the protection of the protection of the piece was again belowed and planted to potatoes the Mercer variance work large traight to my experience and observation, are these; long head, broad and observation, are these; long head, broad and even the eye, and the eye full, keen, and pleasant. Such marks indicate ability to receive instructions, and a willingness to obey. An observation are these; long head, broad and observation, are these; long head, broad a riety. The neighbors thought it foolish to think broad, not peaked, and the distance short between of raising potatoes in that dry sand; but the the ankle and the knee; these properties ena-

plied. J. A. A.

Springfield, May, 1859.

FRANKLIN COUNTY AGRICULTURAL SOCIETY.

The report of this Society for the year 1858, year, he should be fattened. is an interesting document, and is prepared with the usual ability of Mr. Grennell, the accom- by far the best time to train steers is when they plished Secretary. The thousand head of stock are calves, say the first winter. Oxen that are on the grounds must have made a magnificent trained when quite young, are much more pliashow. There are no finer cattle to be found in the State, if in the country, than the Short-horns and grades of the hill and river towns in Frank-ter. They are always running away with the lin. The hills afford sweet, rich grass for the cart or sled whenever there is a chance for them, summer, and the intervales abundant crops of and often serious injury is the result. I would good hay for the winter. We have seen some not recommend working steers hard, while young, samples of their four year olds, weighing 4000 between working them and merely training them. pounds per yoke. They are splendid animals, I have observed that very little attention is paid and the cows look as though this county should by our farmers to train their steers to back, but be the very focus of good butter.

wolds are hard to beat, and together with his forward, forgetting that much pains has been taox weighing 3,300 pounds, shows that he knows ken to teach them to draw forward, but none to how to make good stock.

The show in the other departments was highly creditable to the society.

ence of such men as Mr. GRENNELL, Mr. FAY, of the Massachusetts socie'y, Dr. Loring, Mr. DAVIS, of Plymouth, and Gen. WHITNEY, they could not be otherwise.

This comparatively young society is in the much to develop the agricultural capacities of

For the New England Farmer.

ON WORKING OXEN.

Read before the Concord, Mass., Farmers' Club, BY CHARLES A. HUBBARD.

Till oxen are four years old, they are usually under as well as possible, and the land planted called steers, afterwards oxen. The signs of a with corn. The crop was more than treble the good ox for work, according to my experience plowed, and planted to potatoes, the Mercer va- ward legs straight, toes straight forward, hoofs yield in the fall, though less than on moist, manured ground, surprised them. A fair crop of oats followed, and this spring we have planted the same piece to corn. I am confident that peat alone, after a year's the hair; when the toes turn out, the knees bend exposure to the weather, will increase the crops in, and an ox with crooked knees is apt to beof light land two or three fold, if bountifully ap-come lame by holding heavy loads down hill; full breast, straight on the back, round ribs, projecting out as wide as the hip bones; these are signs of strength and a good constitution. The best colors are brown, dark red and brindle. When an ox has completed his eighth or ninth

TRAINING OXEN.

A word on training oxen. I have found that as they become able to draw a considerable load There are some very fine flocks of sheep in the county. Mr. FIELD's South Downs and Cots-walds are bord to best and to see the will be cart or sled with as large a load as they can draw teach them to push backward. To remedy the occasion of this thumping, as soon as I have taught my steers to be handy, as it is called, and The address, by Dr. Loring, was both able and interesting, and the services in the hall they will soon learn to back it. Then I place them

on level land, and exercise them there. Then I to do it. I accordingly purchased a large pair of teach them to back a cart up land that is a lit- Durham cattle which weighed thirty-six hundred tle rising, the cart having no load in, as yet. pounds, paid a great price for them, and put them When I have taught them to stand up to the at work, and a more miserable yoke of oxen I tongue as they ought, and back an empty cart. I never owned. If they did a day's work, it took next either put a small load in the cart, or take them three to get over it. I then purchased a them to where the land rises faster, which anpair of medium size, which weighed about twenswers the same purpose; thus in a few days they ty-six hundred pounds; they proved well, went can be taught to back well, and know how to do through the job in good shape, and were ready it, which, by a little use afterward, they will for another. never forget. This may appear of little conse- As to the particular breeds of cattle for work, quence to some, but when it is remembered how I know of none better than our native race. The frequently we want to back a load, when we are Devons make very pretty workers, but as far as at work with our cattle, and how convenient it is my experience goes, they are generally a little to have our cattle back well, why should we not too high-strung. The Durhams, on the contrary, teach them for the time when we want them thus I believe to be rather slow of motion as a generto lay out their strength? Besides, it often all thing, and want high keeping. The Ayrshire, saves blows and vexations, which is considerable Hereford, and various other breeds, I am not a when one is in a hurry. I never consider a pair all conversant with. of oxen well broke until they will back with ease any reasonable load, and I would give a very considerable sum more for a voke of oxen thus tutored than for a yoke not thus trained.

MANAGING AND FEEDING WORKING OXEN.

a broad shoe, to travel on hard roads; the shoe on the fore foot, should set back at the heel, nearly half an inch further than the hoof bears upon it. Oxen are frequently lame by reason of mixed with good chopped hay, three times a day, and as much hay as he will eat; this is the highthey will work every day.

SIZE OF WORKING OXEN.

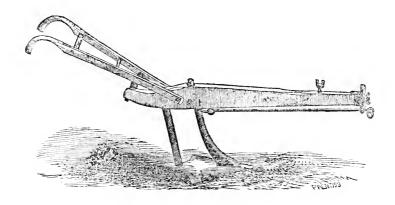
A word as to the particular size of working oxen. A yoke of oxen weighing twenty-eight engravings of implements, &c. It should be practical purposes. It depends something on drain. what a person wants to use them for, but for travelling on the road, or for most any part of and thought I must have a heavy yoke of oxen sold the flock for \$75.-Country Gentleman.

MASSACHUSETTS SOCIETY.

The attention of the reader is called to an article in another column, by Judge French, upon the "Massachusetts Society for Promoting Agri-The following is from the Yankee Farmer. | culture," in which he glances at the operations Oxen working on a stone-drag, on the foot of a and influences of the society, since its foundaplow, on the sled-tongue, cart spire, or twitching stones or timber, should carry their heads well tion. The Judge has our thanks for this timely up, as this will enable them to do this work much and just notice of a society whose life has been easier; those that work as leaders, forward of crowded with good deeds. We have personal acother oxen, should carry their heads low, and quaintance with very few of its members, and the neck; the yoke and bows to the leaders should set a little snugger than to the nib oxen. Never use the whip but from necessity. When from their commencement, with care, and have about to strike the young steer or ox, ask your-been instructed by them, and whenever the sociself, "Will he know what I strike him for?" Let ety has been assailed, have said whatever we each ox have a name, and be sure he knows his rame. Never speak a word to an ox without meaning; have a particular word to start your ter understood. We hope it will keep on its acteam by, that all may pull together. Never hurry customed course, form "no entangling alliance" your oxen while riding behind them, lest they with other associations, and continue to promote learn to haul apart. Oxen should be shod with the interests of agriculture in the future as much

FARM DRAINAGE.—The above work, a handshort shoes. The best feed for oxen at hard some volume of 400 pages, will be sent post-paid, work, is to give to each two quarts of meal, wet, to any subscriber to the N. E. Farmer who will send \$1,00 to this office by mail or otherwise. est feed working oxen ought to have, and on this The author is Judge French, our well-known Associate, and the book gives practical directions for draining land with stones, wood and tiles, in the cheapest and best manner, with 100 hundred pounds, I consider heavy enough for all read by every farmer who has an acre of land to

PROFITABLE SHEEP .- I will give you a statefarm labor, cattle of this size are heavy enough. ment of a little flock of sheep that I have raised There is a prevailing opinion among farmers who in two years. I bought three ewes, two years use oxen, that they must have a very large, heavy ago this spring—two of them had four ewe pair. in order to get along well; but as a general lambs; and last year six of them had eight ewe thing, large, heavy cattle are very apt to be slow lambs, making in all fifteen ewes; they have never of motion, and much more liable to be lame, be-had a buck lamb. I consider it a pretty good sides more expensive in keeping. Two or three increase. I had \$14 for the first purchase, and years ago. I had a heavy job of work on hand, the wool has about paid for keep, and I have just



For the New England Farmer.

THE LITTLE SUBSOILER.

BY JUDGE FRENCH.

When we plant early, and heavy rains follow, the earth packs down so hard between our rows of corn, potatoes and roots, that we frequently repent of our haste in putting in the seed, and declare that we will never be guilty of such folly again.

My friend, Professor Hoyt, now Chancellor of ployed a man to fork up the earth between his potato hills. His land was sandy, and had set like air, heat and moisture in the natural soil, the Reader, do you know what is the best kind? better they thrive.

it to the surface. I have used the little subsoiler process there so familiar. with great satisfaction; the present season my corn was planted May 25th, on land drained with tiles, part of it heavy clay; it came up well, al-

but down goes the water to the depth of this cut, instanter, and the drains are doing their best below, and the water is out of sight, though the three-inch drains often run full.

On the 19th we finished hoeing it, and my man James, and I, think we saved the cost of the little plow on this one and one-third acres of corn. On our mangolds, three-fourths of an acre, we have also used it, running between the drills as soon as the rows are visible, and we are ready to recommend it without hesitation for Washington University, at St. Louis, once em- general use in corn, potatoes, mangolds, turnips, carrots, and the like.

Prof. Mapes, I think, is entitled to the credit the sea beach, as hard as a very soft grindstone. of introducing the use of the subsoiler in this The professor said he knew the potatoes could not way, and the pattern of the best subsoil plows in breathe in so tight a place as that. Often we see use was furnished by him, and he calls it a soilgardeners loosen the earth round their plants lifter. Send to Nourse, Mason & Co. for subwith a spade or trowel, after a hard storm, and soil plow No. 0. It is of steel, and well made, every man of common sense knows that in gen- and the price \$8. After the little subsoiler has eral, the more freely plants are supplied with gone through, use the best kind of cultivator.

James says that "at home," that is, in Ireland, Now we have an implement (figured above) they use a small plow with the mould-board rethat supplies the want thus indicated, in the moved, running between the potato drills, to shape of a small subsoil plow drawn by a single loosen the soil before turning the earth up to the horse or mule. The use of a subsoil plow is to potatoes with the common plow, and he joyfully break up and loosen the subsoil, without bringing recognizes in the use of this little implement the

Exeter, N. II., June 22, 1859.

PRATT'S PATENT SELF-VENTILATING COVERthough the season was wet. As soon as the rows ED MILK-PAN.—One of these pans was left with could be well traced, on the 13th June, the little us a week or two since, and was at once transsubsoiler was put through twice in a row, about ferred to the dominions of the women, where it ten inches deep, which raised up the soil as light $|_{was}$ put to a practical test, and pronounced a as if just plowed. Then came the rain and as good article, but not one adapted to the dairyevery body knows, it has kept raining eversince, woman's use. It is not broad enough as milk

should be set shallow, in broad bottomed pans. keep so long. On low land it does not ripen so It would require too much time to adjust the early and the pulp is more firm, and the flavor cover. It is too expensive. But for use in large not so pleasant to the taste. towns and cities, where people set only a gallon from Ipswich I disagree wholly. "Apple trees or two of milk, and where rats, cockroaches, flies grafted from scions that are two years old will and other interesting vermin invade their eata- bear every year, as a one year old scion has only bles, it must prove an excellent article, and half come to maturity, and consequently bears would not be too expensive. It is a capital year only half the time." I have grafted with my would not be too expensive. It is a capital ventilator and cooler.

For the New England Farmer.

HUNGARIAN GRASS.

MR. EDITOR:—When I was a lad, some fiftyfive years ago, I distinctly recollect of hearing an old gentleman declare, (sportively,) that, the farmer who would make two spears of grass grow where only one grew before, and would make a yearling steer weigh as much as an ox, was entitled to much credit, and would most assuredly

ground, and between the fifteenth and twentieth days of June, '58, sowed thereon twenty-nine quarts of Hungarian grass seed; the product of which, he informs us, was seven and one-half tons of hay secured, and, moreover, from the hay he threshed out eighty-five bushels of well-ripened Hungarian grass seed!

If Mr. Richard, (in some future number of the Farmer,) will be so obliging as to give the actual measurement of the land from which he took so large and valuable a crop of grass and seed, the character of the soil, and the manner in which there is any remedy for the onion maggot. Has he prepared the ground for the seed, whether he tried the guano and did it fail him? If he by top-dressing or otherwise, he will confer a favor upon every farmer who takes delight in seeing fat cattle upon a thousand hills, and all those high, and again when they are setting for botwho are most willing to learn the science whereby two spears of grass may be made to grow, will do different with him than they have done fore. A. Browne.

Dalton, Mass., June 13, 1859.

For the New England Farmer.

APPLES AND APPLE TREES.

In your paper of June 11, your correspondent, "S. P. Baker," says that apple seeds planted where they are to stand permanently, will be worth twice as much, and will live as long again, bear twice as many apples, &c. I considmy own mind, an orchard will do better to have we walk, we treak upon tho skin of the bullock; the seed planted where they are to stand, as then we wear the skin of the kid upon our hands, and the tap-root goes directly down, and on dry land the fleece of the sheep upon our backs. More the tree will stand the drought better, and will, I than half the world are human beings in sheep's think, live longer; but to say they will live twice clothing. as long, and bear twice as much fruit, is, I think, some we drink the milk; upon others we are dea mistake. My opinion from long experience is, pendent for the cultivation of the soil; and if it that the flavor of fruit is affected by the soil, and is a pain for us to suffer hunger and cold, we very little generally by the tree. Putting the should scrupulously avoid inflicting wanton mis-Baldwin on a warm, dry soil, the flavor is richer ery upon the animals by which we are warmed and more melting. It ripens earlier, but will not and fed.

own hand and taken the scions myself from one year old, to two, three, and four, but more generally from two, repeated it every year, and the cases are very rare that the Baldwin will bear every year; there are some kinds of apples that will bear every year, but it is not, in my opinion, because the scions were one or two years old.

In consequence of a very fine apple that originated in Sherborn, where I lived seventy years, running out or failing to produce fair and handsome fruit, which was esteemed by every lover of good fruit, and was fit for the table from October to April, my father before me had grafted probably a hundred trees of that kind, and up to ing to his Hungarian grass, I was led to feel that he, too, was entitled to much credit, for he most positively declares that he prepared his ground and any least that he repared his ground and have ever seen. Since that year it has not been worth raising. That settles the question that some apples have and will run out. I tried any way I could see that he prepared his ground and have been some apples have and will run out. I tried any and way I could see that he prepared his some apples have and will run out. writers have supposed that the flavor of fruit is influenced by the stocks on which they are grafted, but I have thought more by the soil.

Daniel Leland.

East Holliston, June 13, 1859.

For the New England Farmer.

ONION AND TURNIP CROPS.

MR. EDITOR: - Mr. Proctor does not believe will fix a little bed in his garden, and sprinkle the plants with guano when about three inches toms, and the maggot meddles with them, they (throughout the farm) where only one grew be with me. I have now a little bed in my garden of about ten square yards of as handsome onions as I have ever seen at this time in the year. They have had two coats of ashes and one of guano.

> I see I am not alone on the turnip crop. My experience has been the same as your correspondents, "C." and "J. L. T." I never had a good crop of anything after a crop of turnips till I had manured the ground. Ed. Emerson.

Hollis, June 11, 1859.

THE SLAUGHTER WHICH SUSTAINS US.—When er his remarks partly true, but not wholly so. In we ride we sit upon the skin of the pig; when We eat the flesh of some creatures, of For the New England Farmer.

SHEEP SHEARING.

the oil has been secreted after washing." In head down, after ne swanows the drenen, stap him several times on the side of which he comwashing sheep in cold water the "yolk" or oil, cannot be started, it is only the filth and dirt, plains most, with a paddle about two feet long, that can be washed away, and as soon as the sheep are dry they are fit to be shorn; two fine days is amply sufficient after washing, getting them under cover for the first part of the day for shearing.

Putting up wool for market is just the same as any other commodity. If wool is not washed well, either for the sake of gain, or through negligence, it will certainly diminish the price, or its mer. real value, and make room for fault-finding.

PUTTING UP THE FLEECE.

In my practice of upwards of forty years, I find a great deal of wool bungled up, in the fleece, which much deteriorates its value. After the spects, and though once in ten years a little too fleece is off, bring the wool outside up, then dry in summer, is also, some years, rather wet, shuck it up as near its natural size as possible; The year 1857, to the first of August, was dry, then double the sides over (not roll) till about a and up to April 8th, 1858, was so beautiful that bring the head part to meet it.

in purchasing. JAMES TOWNSEND.

Marlboro', N. II., June, 1859.

ALLIGATORS.

You have heard of these interesting reptiles, in books, and perhaps seen a stuffed specimen in some cabinet of curiosities. You can behold yet., here, on both sides of the road, ai situ. They middling sized animal, perfectly sun-dried, and brown as the log he rests on, his mouth gently opened, with a most benevolent smile. His air while at the East you are burning. is so meek and languishing, that he would not him. They walk in, delighted with the apartment, month; and this year bids fair to be about equal Snap! those amiable jaws are only an ingenious to it, as the month of May is very wet. fly-trap, enticing myriads of hapless beings to their undoing. But catching flies is only the pasabundant in these parts.—Letter from Louisiana that it cannot be done. in Hartford Homestead.

A CERTAIN CURE FOR BOTTS IN HORSES.— When you find your horse complaining, and look- teen cloudy, eleven stormy-rain three inches. ing around at his side, and lies down pretty often, In May, ten fair days, six about half fair, fif-

and is not swollen, you may very readily come to the conclusion that he has the botts. Lose no Mr. Editor:—In your last number I noticed a remark on sheep shearing, where it says, "when the oil has been secreted after washing." In head down, after he swallows the drench, slap six inches wide and one inch thick, striking him pretty hard; this process jars the botts loose from him, and they take hold of, and feed on the milk and molasses. In ten or fifteen minutes after striking him with the paddle, give him a quart or half gallon drench of strong sage tea; this accomplishes the object by killing the botts, and the horse is relieved.—Livery Keeper in Ky. Far-

For the New England Farmer.

RAIN AT THE WEST.

foot wide, then turn the rump half way, and farmers could plow every month. The great rains began at that date, and abated June 10th, Roll the fleece half way over, and then the oth- 30 inches having fallen. To this date wheat Use one around, and the other end-wise, bringing it up tight, and in good shape. As manufacturers of wool are scattered all over the New England States, sell your wool to them, and you will farmers, hopes also. Great showers in July and hope more likely to get its real value as more days, soon ruined the wheat by black blight, and farmers, hopes also. Great showers in July and hope more likely to get its real value as more days. be more likely to get its real value, as many August. From October 23d to December 6th speculators don't have the practical knowledge almost incessant wet-at one time the sun was not seen for nine days. From April 8, 1858, to the same date, 1859, 84 inches of rain fell; of course the ground was wet, there being six inches in March.. April had 11 storms, and twice when snowing there was thunder; in fact, electricity seems to abound, whether cold or warmthough there has been very little warm weather yet. There has been a great amount of thunder and lightning, sometimes of the most vivid and are just beginning to show themselves in consid-terrific character, for six or eight hours in almost erable numbers. In summer they swarm by thousands. They lie on top of the logs sunning them-selves, very much like mud turtles. There is one sun shines but little, as my record will show you, what may be expected for crops this season? In this section we may be doomed to drowning,

Last year, in eight months from the 8th of apparently hurt one of the thousand flies around April, we had 72 inches of rain—nine inches per

It is altogether premature to form an opinion of the wheat crop in the whole West; but one time of the alligator. His tail is a handy blud-thing is certain, as Iowa sows but a little winter geon, with which he knocks over larger game. grain, and as that of spring is a small sowing, He is fond of pig, both "long" and "short," and and as what there is stands thin, and is backif any of the stray shoats do not return at night-ward, this State will have little if any surplus fall, the owner never thinks it worth while to look for him the next day. They seldom attack some of it needs weeding, as New Englanders men that kind of accounts. men, that kind of game not being particularly say, but the ground is so drenched with rain

In March last we had eight fair days, five part fair, four hazy and fourteen cloudy-rain six and one-fourth inches.

In April, eight fair days, five part fair, seven-

one-half inches. I could give you the direction through your columns, it will greatly oblige of the wind every day for three months, but the range of the thermometer would be more than you wish to print, or your readers to peruse; though worth more than it costs to me. Though not a subscriber, I read your valuable paper, and mended it may give Mr. P. some informationappreciate it highly though not all adapted to we have never used oil soap for that purpose. this region.

June 1st, another smart shower.

With such an amount of rain and cloudy weather on your sandy soil in Massachusetts, you might cultivate the ground quite well; but here, on the rolling or flat prairies, with a fine adhe-tition, and confine her head with a rope, so she sive soil, more or less clayey, and all limey, resting on a clay subsoil, it is altogether different, the other side, having a place beside her head to and allowance must be made to farmers, if in put one end of the bar in, and fetch the other such excessively wet seasons we cannot pay all end of the bar down as low as you can conve-IVERS TAYLOR, our debts. A Bay State Man.

Denmark, Lee Co., Iowa, June 1, 1859.

EXTRACTS AND REPLIES.

A GOOD CALF.

I am now raising a heifer calf that is considered by myself and neighbors a very good one. It is ten months old to-day. When eight months and a half old, it weighed 700 lbs. Think it inches in girth, and is, according to its length and blood South Down buck? weight, proportionally small where measured for the girth. It is of the no-horned breed, and of a bright Devon color. Until within a few days some besides. Yours, &c., B. F. FLETCHER. Derby, Vt., May 25, 1859.

REMARKS.—We suppose the writer means by "no-horn breed," what are termed "Polled cattle," by graziers. Ayrshire and Dumfries, in Scot-plan suggested by "J. Y. N." for the purpose of land, with two or three other places, once formed which is, perhaps, equally as good. Take a rope the ancient province of Galloway, and the polled, long enough to go round the cow, commencing ince. By "Devon color," he means the dark ma-hogany color which always distinguishes the true lind legs; she cannot stir them an inch. Devon.

WIHTE SPECKS IN BUTTER.

I would say in answer to "T.," of Felchville, Vt., that white specks in butter are caused by getting sour milk in with the cream when skimming, which becomes hard like cheese; to prevent white specks in butter, stir the cream thoroughly after skimming, and should there be specks then, rinse in cold water.

Ludlow, Vt., 1859. MRS. L. E. II.

OIL SOAP FOR BORERS.

within the last six months-I do not now remem- takes what corn he wants before the farmer is ber the date of it— a communication in which up, or in the house at his meals, or gone to meetthe writer stated that he had, for several years, ing, or absent from the premises from any other used oil of soap to prevent the depredations of cause. The best mode that we ever adopted, to borers in apple trees. I would like to know if keep this inveterate old preacher from pulling it is the oil of soap such as is used by fullers in up our corn, was to surround him with assailants scouring; and, if so, what is the time of apply- of his own kind. Make bird fight bird. We once ing it? What quantity is used, and in what man- set up a couple of martin-boxes on poles in our ner is it applied? If you, or some of your sub- corn-field. These were occupied by families of

teen cloudy, fifteen days rain-amount six and scribers, will give me the desired information SAMUEL PARKS.

Rock Bottom, Mass., June 4, 1859.

Remarks.—Perhaps the person who recom-We suppose it is the common whale oil soap.

KICKING COWS.

Place the animal by the side of a stall or parniently; milk under the bar, and make it so tight that she cannot change her position. If she should kick she can do no hurt, and she will soon relinquish her old trick. I have tried it E. E. Robinson. with good success.

Sunderland, Mass., 1859.

I have just lost a valuable South Down buck, and on examination, found worms in his head, which probably caused his death. Can you, or and a half old, it weighed 700 lbs. Think it any of your correspondents, tell me the cause would now weigh 800. It is five feet and two and cure? Where can I obtain another pure inclusion with and in correlation to the course would be supplied to the course of the course where the course weights are the course of the course where the course weights are the course of the course where the course weights are the course of the course where the course weights are the course weights are the course where the course weights are the course which we can be considered as the course weights are the course weights are the course which we can be considered as the course weights are the course where the course weights are the course which we will be compared to the course with the course which we will be compared to the course with the course which we will be compared to the course with the course which we will be compared to the course with the course which we will be compared to the course with the course which we will be compared to the course with the course will be course with th N. P. RINES.

Concord, N. II., June 6, 1859.

REMARKS.—Worms in the head of sheep are it has had the milk of one cow, and has been fed caused by the "gad-fly." Read "Morrell's American Shepherd."

TO PREVENT A COW FROM KICKING.

Having noticed in the Farmer of this month a or no-horned cattle, were natives of that prov- at her forward legs, and tie it over her shoulders.

Boston, June, 1859. A BELMONT FARMER.

SCARE CROWS.

This is the time of year for our corn-fields to exhibit all sorts of artistic ingenuity, in the shape of old clothes statuary, and a very odd and expressive tableaux, as well as a great extent of never-ending twine-glittering pieces of tin hung on poles, by ever twisting and twisting stringsold coffee pots, and dilapidated hats; all to intimidate that very sable, but sagacious bird, the crow. Mr. Crow generally laughs in his sleeve MR. EDITOR:-I saw in one of your papers at all this expenditure of cast off toggery, and

martins; and woe fell upon every crow's poor consequently, naturalists say, that there are four devoted head that dared to show itself anywhere grand divisions in the animal kingdom. In the was pulled up that year.—Maine Farmer.

"NEVER PUT OFF TILL TO-MORROW."

Now is the time to be busy, Now is the season for toil: Work while 'tls Spring, and the Autumn Will bring you the fruits of the soil. There's no time for work like the present, Let idlers not lead you astray: For "never put off till to-morrow The thing you can do to-day!"

Be up with the dawn of the morning, In time to your labor repair; And though you do ever so little, Be sure that you do it with care. And should the world tell you to linger, And join for a moment in play. Mind, "never put off till to-morrow The thing you can do to-day !"

So youth is the time for progressing In wisdom's delightful road, That age, at the end of the journey, May find a repose with God. Then remember, while youth is in splendor (Not when you're old and grey,) To "never put off till to-morrow The good you can do to-day !"

For the New England Farmer.

GRAND DIVISIONS IN THE ANIMAL KINGDOM.

It seems to me that the greatest impediment to the diffusion of knowledge, by the press, or by scientific lecture, is to be found in the persistent rejection, by the farmer, of scientific terms. "But," I am frequently asked, "why not use common terms?" I answer, because in some cases we bone. The jaws work vertically—those of the have no common or familiar term to express the articulate work horizontally. In this division idea, but more frequently we use the scientific, are included fishes, snakes, turtles, lizards, allirather than the common term, because the com- gators, monkeys and men. mon term is indefinite, and the scientific term is precise, in its meaning. If the lecturer use the common term to express his definite scientific idea, his different hearers will interpret it differently. in which thousands of our readers ought to tread, I meet with men every day who use indifferently the words, species, order, class, genus, tribe and and take observations. family, to express the same idea. These things ought not so to be. It seems to me a truism, that without precision of language, no definite idea can be conveyed. Is it not, then, the farmer's first duty to acquaint himself with the lan-

near the premises. They were out as early as order of their rank, commencing with the lowest, Mr. Crow himself, and ready to give battle all they are the Radiates, Mollusks, Articulates and summer, or, until their young had flown, and Vertebrates. The Radiates are so called becaus they got ready to migrate South. There was their organs, especially their nervous systems, many a battle fought over the field, but no corn are arranged around and diverge from a centre, like the spokes of a wheel. The star fish, (Asterias,) is the type of this style of animals. But in every division, the general plan is greatly modified, producing classes, orders, genera and species, and giving that beauty and variety in which the Creator seems everywhere to delight. This division mostly inhabits the sea, and is of little economical importance to the farmer.

The second division is that of shell fish. They are called Mollusks-the word signifying soft. Most Mollusks, though soft animals, are covered with a hard shell, as in the case of the clam, oyster and snail, and are said to be testacious.-Squids and slugs have no visible shell, only a rudimentary one under the cuticle. Slugs are often found under old logs and stones, and are thought to be snails, which have crept away from

shells—a natural but a false notion.

The third division is said to be Articulate, because the animals, for the most part, have an external skeleton composed of rings articulated or joined together, as in the lobster and the wasp. The earth worm and the leech have no hard skeleton, but their rings are visible, and their style of organism of the articulate type, their nerves being distributed in two lines along the lower part of the body, with ganglia or modular masses at each ring. Insects, caterpillars and spiders belong to this division. The farmer's hopes and his fears, his success and his failures, are frequently intimately connected with these animals.

The fourth division is that of Vertebratesanimals with a spine or back bone. The plan of this division reverses that of the last. skeleton of this is on the inside and the muscles on the outside. The nervous system is on the upper side of the body, and contained in the back More Anon.

Wilbraham, 1859.

REMARKS.—Excellent. You point out a path

For the New England Farmer.

BOTS IN HORSES.

Mr. Brown:—I noticed in a recent number of guage of science? I do not propose to write a the Farmer an account of the sick colt, written lexicon, but to give the proper idea to be at-by "O. T. Willard." He called the disease bots, tached to a few terms found in each of the de-which I thought was impossible, although his partments of science in which the farmer must description answered to a case recently before be interested. I shall dilute the article some, to me. But my colt was so far gone when friend keep it from being dry, but wish it understood Willard intimated that it was bots, that it seemed that each scientific term, however frequently used, useless to doctor for them. I had been told if has but one meaning—the same in every place. Imy colt died and I examined him, I should not I commence with the animal kingdom. All detect the cause, for all horses have some bots. animals have been formed by the Creator, on My colt died this week. I got my brother, and four great plans, as distinct as the Gothic, Ionic, into the examination we went, expecting to find Doric and Corinthian orders of architecture; the truoble in the spinal column. But if it was there, its traces were so delicate that we could bare by accident or by man. In order to accomnot detect it.

In the region of the heart and lungs there appeared serious trouble; they were very dark colored; the lungs swollen to a monstrous size; as we had got our hand in, we thought we would ny wherever they may alight. look in to the stomach or maw, and entrails. On opening the stomach it seemed literally coated with bots. We commenced counting, scraping off, or cutting them from the maw, until we counted in round numbers, five hundred bots, as large as a bee; his maw was literally eaten out of him.

ing to draw some instruction from you or some his duty is in relation to this matter. of your correspondents. Have given this colt the past three months, while unable to stand, some laudanum, brandy and molasses, and a great quantity of new milk. I had supposed the bots to be a quick disease. Was it the milk and becomes light and porous, is prepared to receive molasses that made him linger thus long?

Some one that knows, I wish would inform me how many bots, or how many hundreds of them, a healthy, full grown horse usually has in the the dews. Lands well hoed are placed in a conor an uncommon number? I think it uncommon. Friend Willard advised me to doctor for the bots, but I want a prescription for killing those five hundred bots, without injury to the colt.

WHARTON D. SEAR.

Southampton, June, 1859.

HOEING.

One of the most important items of business on the farm is hoeing. So much depends upon this particular process of crop-getting, that a farmer may cover broad acres of fertile land with manure and seed, work it in the most approved and careful manner, keep off all beasts and insects, and then, neglecting to hoe timely and properly, fail to receive anything like a remunerative crop. It is one of the weakest pieces of folly in which the farmer indulges, and is the nextdoor neighbor to cultivating and raising a fine crop with assiduous labor and pains, and then neglecting to harvest it. Another look at it, shows that the folly is even greater than this. hot to say any more about it now. It is cooler Why?

A neglect in hoeing allows weeds to grow and perfect their seeds. These are annually shed upon his own ground, stocking it for years to come, and these annual sowings are so many annual accessions of new crops of rank weeds, to torment and exhaust the energies of the culti-vator, in his attempts to make them give place to small tubs, and having fixed them firmly in the the plants which he wishes to rear. But this is each tub one quart of salt and three quarts of not all the wrong he does.

the otherwise bald roadside, where excavations once a week, as its more frequent use would be have been made, or patches of fresh grass, or injurious. But when supplied in this way, no aprushes, or sedge, or shrubs, cover the earth laid prehension need be entertained.

plish this, she has given many seeds locomotive power, and they fly or float away, perhaps long distances, in vast numbers, to settle a new colo-

Is it right, then, for one farmer to raise a crop of pernicious plants and perfect their seeds, that they may invade the premises of another, and cause him years of painful labor from which he derives no profit? It certainly is not right, and I have been thus particular in this case, hop-the good husbandman will consider well what

Hoeing has other advantages beside that of keeping the weeds down. It has something the the air and warmth of the sun's rays, and the fertilizing properties contained in rain water and in maw? Was the number in my colt a common dition much like this, and will produce a much larger crop than lands left unhoed. Neglected hoeing brings-

- 1. An unsightly, slovenly field, which is a shame to its possessor.
- 2. A hard, unyielding soil, that makes what hoeing is done doubly expensive.
- 3. Tons of weeds to rob the soil and deprive the crop of its natural source of support.
- 4. Crops of seeds that perpetuate the evil, and an infliction of wrongs upon others that we have no right to inflict.
- 5. Loss of reputation as a good farmer and an upright man.
- 6. Loss of labor, loss of crop, and what is more than all, loss of that heavenly feeling of duty done, that approbation spoken by every well-tended tree and plant and flower, "Well done, good and faithful servant, thou shalt have thy reward."

Better neglect haying than hoeing-better neglect planting, even, than hoeing! But it is too and more pleasant to hoe on such a day as this sixteenth day of June, than to sit at the desk and write about it.

SALT AND ASHES FOR COWS.—On turning my sifted wood-ashes, previously well mixed by stir-Nature is always at work to hide her blemishes (as we look upon them) with something grateful and beautiful to our eyes—some drooping bell-shaped flower with large green leaves covers at the otherwise held readily where experiences as the otherwise held readily where experiences. The cows partake freely of this mixture. It prevents injury from the sudden change from dry to green food, and has, besides, a most invigorating effect upon the general system. Some assert that salt should be given only as often as For the New England Farmer.

A SIMPLE PLOWMAN.

Mr. Editor:—I noticed in a late number of the N. E. Farmer a diagram and description of a "New Playman," to take the place of one of the sons of the Emerald Isle, which I have no doubt will do the work full as well as he. But it is a privilege which the Yankee farmer highly prizes to purchase that which is simple and cheap, rather than that which is more complicated and expensive, provided it will do as good, or better work. Hence, I propose to give you a description of an implement designed for the same purpose, which the farmers in this vicinity have been using for some years past. It is manufactured, and I suppose was invented, by H. STRICKLAND, Esq., a plow manufacturer, at Bradford, Vt.

It is simply a wheel, fixed to a cast-iron bow, similar in shape to those commonly used for holding plow-wheels, which is fastened to the where the exhibition takes place, or to persons land-side of the plow by bolts. There is a mor-from towns in its immediate neighborhood. tice through one end of the bow, so that the wheel can be raised or lowered at pleasure. On land that is comfortably even and free from stones this wheel will hold the plow more even and

steady than most men.

In order that a machine of this kind should work perfectly, it is necessary that the surface of ble winds and low sunrise temperatures, but afthe ground where the wheel and plow runs should ter the first few days the weather was uniformly correspond; for if the wheel drops into a hollow, mild, and the whole month much resembled what it will run the plow off; or if it rises over a knoll, April usually is. The frost left the ground very it will run it to land. Hence, I should think this early; the snow disappeared on the plains during wheel would work better than the Plowman, inasmuch as the ground would be more likely to the close of the month, and by the 20th, the correspond at a distance of only three or four inches from the furrow than it would as many cleared of ice, and on the 22d, the frogs croaked feet from it. The description of the Plowman merrily. Many of the early spring birds came in does not give the length of the triangle, but by the fore part of the month, the blue birds arrivthe diagram it appears to be as long as the distance from the colter to the end of the beam, passed over on the 10th and 11th, and other flocks which must be nearly three feet, which I should followed on the 15th and 25th. The thermomewhich must be nearly three feet, which I should followed on the 15th and 25th. The thermomewhich must be nearly three feet, which I should followed on the 15th and 25th. think would not only render it useless, but some-what troublesome, when the land was nearly fin-there was every indication of a very forward seaished, and when plowing back furrows near a son. The last week of the month was very fine,

Fairlee, Vt., June 7, 1859.

For the New England Farmer.

STATE BOUNTY.

limited and partial use of the bounty of the State. two feet one inch below the great flood of 1854, Without doubt, the purpose in giving it is, that the highest ever known on the Connecticut. the benefit shall be generally diffused through the same, as to pocket near all the bounties.

tered in every section of the district, within the limits of the Society? These hints are thrown out, if possible, to bring forth a more equitable and less exceptionable distribution of this bounty, which is admitted to be quite liberal.

June 10, 1859.

Remarks.—Glad attention is called to the subject. We do not think, however, that the premiums are awarded in the town where the show is held, by any management of "those who regulate the Shows," but because, it being convenient, so many more persons contend for the premiums when the show is to be in their own town. We believe the records of every society in the State will show that a considerable portion of all the premiums are awarded to the people of the town

For the New England Farmer.

THE WEATHER OF THE SPRING MONTHS, 1859.

March came in rather roughly, with disagreeathough there was remarkably strong north-west wind during the last twenty-four hours.

But the most remarkable feature of the month was the large number of heavy rain storms, and consequent heavy floods. The highest water in the Connecticut was on Sunday, the 20th, when the MR. EDITOR:-In the tabular statement of river at Springfield was twenty and one-half feet premiums awarded from the funds given by the above low water mark, and at Hartford twenty-State for the encouragement of agriculture, it six feet above, while the water was thirteen feet appears that nearly half the whole amount is deep on the Holyoke dam. Many of the bridges paid and distributed in the towns in which the over the Connecticut and its tributaries were carshows are holden. This will do in those coun-ried away, and a large amount of other serious ties where there is a rotary plan of exhibitions, damage done, the flood ranking in hight as the but in those where the exhibitions year after year fourth of the century, falling but two inches beare stationary in the same place, it seems to be a low that of 1845, a foot below that of 1801, and

April followed, with the first week cold and whole community; and not that a few individuals, rough, there being out of the first nine days eight who regulate the shows, should so manage the of strong north-west wind. About the middle of the month, there were several cold rain storms; Would not this difficulty be in a measure corrected by awarding more for farm management, or experiments in culture, instead of animals exhibited? or might it not be done by having committees to examine such claims, as may be en-formly mild, and generally fine; and at the close

the 31st.

poplars and birches being quite green. During May, 35°, on the 16th. the last few days, swallows, brown thrushes, chewicks, whippoorwills, and a host of warblers and tenths) warmer than in 1858, and 4.58° warmer

fly-catchers, made their appearance. vegetation, and consequently for the farmer, was were generally light, doing but slight injury to divided into about three distinctly marked sec- crops. tions of fair weather and rainy weather. The first ly warm for the season, thermometers ranging shining the greater part of each day—twenty-from 84° to 94° in the shade. The weather about eight cloudy, and twenty others in which the this time for nearly two weeks was very dry; clouds predominated, as follows; in March, four fires raged in the woods in various quarters, and clear days, eight tolerably clear, twelve cloudy, a dense smoky haze threw a disagreeable aspect and seven quite cloudy; in April, six clear days few miles in extent, and veiling everything discloudy; in May, twelve clear days, five tolerably tant in a forbidding indistinctness. On the 9th, clear, nine cloudy, and five quite cloudy. after great heat in the forenoon, a great change Rain fell on twenty-six; on nine days in in the weather, in consequence of thunder show-March, including five heavy falls; on five days ers, occurred, the temperature falling thirty de- in April, and on eleven in May. grees in eight hours. Heavy rains followed on the 10th and 11th, and the weather was more or fore part of April, occurred on the 3d of March, less cloudy, excepting perhaps one or two days with a fall of five inches; but frozen rain or sleet about the 15th, with indications of rain, and more fell about the middle of April, and snow at the or less of rain fell, till the 22d, a cloudy term of same time on the mountains. six days, during which the sun hardly shone, ending on the 22d. There was heavy rain on the of May. night of the 18th, and more or less on the 19th,

ally are at the same date.

The mean temperature of the spring months was 45.8°; of March, 37.14°; of April, 42.94°; in April and two in May. Four displays of of May, 57.31°. The mean temperature at sunrise was 39.86°; at noon, 51.35°; and at sunset, March and April. Three rainbows were observed 48.35°; of March, at sunrise, 34°; at noon, in May, and one on the 19th was attended by the 41.71°; at sunset, 39.51°; of April, at sunrise unusual phenomenon of supernumerary bows. 38.4° ; at noon, 47.73° ; at sunset, 46.05° ; of May, at sunrise, 47.2°; at noon, 65.52°; at sunset, 59.490.

The warmest day was the 8th of May, the mean temperature being 72.5°; the coldest was the 2d of March, with a mean of 16.17°. The warmest of May, the 11th, with a mean of 43.17°.

The highest temperature was 86°, (by my Fahrenheit thermometer, well adjusted,) though some thermometers indicated 94° at two P. M., on the 8th of May, and the lowest was 4°, at sun- eases. There is perhaps, no better preventive of

of the month, vegetation was considerably ad-rise on the 2d of March. The highest in March vanced, rye being several inches high, mowing was 54°, on the 28th; in April, 71° on the 30th; lands and pastures green, and the buds on the in May, 86°, on the 8th. The lowest in March trees just bursting into leaves, even then some was 4°, on the 2d; in April, 27°, on the 10th; in

The spring months were 2.2° (two and twothan in 1857. Only two frosts occurred in May May, though warm and generally favorable for -on the morning of the 16th and 22d-and both

Of the ninety-two days of spring, twenty-two eight days were remarkably clear, and exceeding- were clear, twenty-two tolerably clear—the sun over the landscape, hemming in the view to a nine tolerably clear, seven cloudy, and eight quite

Rain fell on twenty-six; on nine days in

The only snow storm, save a few squalls in the

The only thunder shower occurred on the 9th

There were fifty-three days of wind from a 20th, 21st and 22d. The remainder of the month northerly quarter, and thirty-six from a southerwas clear and fine, with rather too cool nights, ly; as follows: Twenty-seven from the northhowever, and a heavy fall of rain on the night of west, twenty-three from the north-east, and three from the north; eighteen from the south-west, In short, the spring opened very early—the thirteen from the south, and five from the southground being in condition for plowing in the lat- east. In March, ten from the north-west, five ter part of March, continued very forward, and from the north-east, one from the north, four as a whole was very fine. The trees "arrayed from the south, eight from the south-west, and themselves in green" with more than usual ra-three from the south-east. In April, fifteen from pidity; cherry trees were in full bloom on the the north-west, seven from the north-east, two 9th, and apple trees by the 18th, at least, a week from the north, one from the south, three from in advance of last year, ten days ahead of 1857, the south-west, and two from the south-east. In and three days earlier than the average for the May, but two from the north-west, eleven from last half century. Much planting was done quite the north-east, eight from the south, seven from early, and at the close of May, corn and potatoes the south-west, and three in which the wind was were several days in advance of what they usu-light, and there was no steady current from any point.

There were eleven haloes; six in March, three

Springfield, June 8, 1859.

RAISE FRUIT AND EAT IT.

This is a fruit country. Nearly all farmers may day of March was the 18th, with a mean of raise their own fruit. Strawberries, raspberries, 49.67°; of April, the 30th, with a mean of 55.17°; currants and gooseberries grow or will grow alof May, the 8th, with a mean of 72.5°. The coldmost everywhere. They can be canned, and so est day of March was the 2d, with a mean of preserved the whole year. Apples, pears, peaches, 16.17; of April, the 5th, with a mean of 32.5°; cherries, can be raised on most farms. There is no good reason why fruit should not be as plenty as corn or wheat.

This is a bilious country—that is, the people who live here are especially liable to bilious dis-

bilious diseases, than the constant use of fruit as nounced in the title page, have been omitted. a part of the diet. It corrects the acids and juices of the stomach, and assists digestion. It keeps the bowels properly active, and prevents that sluggishness and torpidity, which promote bilious derangements. Fruit, to do its best office in the jects which it discusses, and the most uninformed diet, should be cooked and eaten as a part of the regular meal. Thus used, how delicious it is! How it adds to the pleasure of a meal to have it enriched with so delicate and agreeable an article of diet! And how chaste and elevating is the tendency of such a diet, compared with one of ties have not permitted us to examine all the solid meat and bread. So it is. The best diet principles laid down, or all the practices which is really the pleasantest. Therefore let fruit grow on all our farms, and adorn, and make pleasant all our tables .- Valley Farmer.

NEW PUBLICATIONS.

HISTS TO HORSE KEEPERS, A Complete Manual for Horsemen; embracing How to Breed, Buy, Break, Use, Feed, Physic, Groom, Drive and Ride a Horse. And Chapters on Mules and embracing How to Breed, Buy, Break, Use, reen, ruysuo, Groom, Drive and Ride a Horse. And Chapters on Mules and Ponies. By the late Henry William Herder; with additions, including "Rarrey's Method of Horse Taming," and Baucher's System of Horsemanship; "also, giving directions for the selection and care of Carriages and Hanners of every description, and a Mangin of the Author. Beautifully Illusdescription, and a Memoir of the Author. Beautifull trated. A. O. MOORE & Co. 140 Fulton Street, N. Y. Beautifully Illus-

One of the fine books of this celebrated pubfishing house. It has a full index, which will refer you to all you will ever wish to know about the horse. The type of the book is large and fair, and its mechanical execution is every way attractive. In speaking of the importance of the mare that is to be bred from, one of the off-hand dashing paragraphs, of which the book is full, is as follows:

"We now come to another, and by no means, secondary part of the business; that is to say, to the choice of the mares. And here we say that the first thing to be looked for is, not blood nor performances, but size and symmetry, accompanied, as a matter of course, by constitutional and structural soundness. Blood from the sire, beau-gestions to School Grounds, Furniture, Apparatus, Sc., ty from the dam, is the golden rule of the breeder. We know it is commonly said by farmers, concerning some miserable, undersized, ewenecked, cat-hammed wretch of a mare, brokenwinded, ring-boned and spavined, 'O, she will o to raise a colt out of!' So she will! But what will the colt be? The breeder had better, for all purposes, have shot her at once, for the colt will not be worth the mare's grass."

The twenty-second chapter of the work is devoted to Veterinary Homeopathy, and gives it much value. The merits of the book will abundantly justify any lover of the horse to pay its price for it, \$1,25; and its faults, if it have any, we leave for the reader to find out for himself.

OUNTRY LIFE. A Handbook of Agriculture, Horticulture and Landscape Gardening. By R. MORRIS COPELAND. Boston: John P. Jewett & Co. COUNTRY LIFE.

This is a book of over 800 pp., on fine paper, scarcely a topic embraced in the subjects an- he will probably find one or more of the atten-

The author is an acute observer, a deep thinker and an ardent votary to the useful art. The work, indeed, is a library in itself, upon the subcould scarcely fail of finding in it all that is necessary for his guidance in any of the departments of farm management, or in the more attractive pursuit of landscape gardening. Pressing duare commended,—but we have seen sufficient to make us admire the fine taste and great industry of the writer, and to induce us to wish that each of our readers may have a copy of this book on his table.

Wells's Natural Philopophy; for the use of Schools, Academies and Private Students. Introducing the latest results of Scientific Discovery and Research; arranged with special reference to the practical application of Physical Science to the Arts and Experiences of every-day life. With 375 Engravings. By David A. Wells, A. M. Fifteenth edition. New York: Ivison & Phinny.

This is not only a suitable book for schools and academies, but is a capital hand-book for the family—that is, reference to its pages would afford explanation to a thousand queries such as are always arising in the minds of an intelligent family. If such queries go unanswered, there is little if any progress in scientific knowledge,but if such a book as this is often referred to, and its subjects are under frequent discussion, the family using it will soon be distinguished for its valuable attainments. The book is printed handsomely, has a full index, and ought to be upon the shelf of every person who cares to know anything of natural philosophy.

and a Treatise on School-House Architecture. By James Johonnor With numerous designes by S. E. Hewes. New York: Ivison & Phinney, 321 Breadway. Chicago: S. C.

Every town in New England, about to rebuild its school-houses, ought to be in possession of this book. It will afford so many suggestions, and point the way, step by step, so closely, as to make any intelligent committee, master of the subject they have in hand. It is an important point gained in building, to know, ourselves, what we want, and how, and for what prices, it ought to be done. The work is handsomely illustrated with numerous designs, and floor-plans, together with the furniture of the school-rooms, inkstands, book-cases, &c. The book should be in every town library in the State.

BOOKS IN JAPAN .- Whoever walks through the streets of a Japan town or village, will be elegantly printed, and embellished with numer-surprised to notice the number of books exposed ous engravings. The complete index shows that for sale in almost every shop. On looking inside

dants, if otherwise disengaged, busily reading, or man, making various inquiries respecting the exlistening to something being read by one of the tent of this district, and the prospects of wheatcompany. In walking through the outskirts of growers, and I may speak to you again respect-the town, it is not unlikely he will come sudden-ing this portion of Hawaii. Other than this comly on a knot of children, seated in a snug corner mencement of wheat growing, I have heard of no out of the sun, all intensely engaged in looking new agricultural enterprise on that island. There through some story-book or other, they have lave all along been many important native projust bought at a neighboring stall, and laughing ductions carried to Honolulu, such as Pia, or right heartily at the comical pictures which adorn the narrative. The conviction is thus brought fish-nets and rope, Pula, a material much used home to a man's mind that the Japanese are a reading people.—London News.

For the New England Farmer.

LETTER FROM THE SANDWICH ISLANDS.

MAKAWAO MAUI, HAWAHAN ISLANDS, FEBRUARY 12, 1859.

Messrs. Editors: -Gentlemen, - Dec. 30th being our Hawaiian thanksgiving day, I wrote you giving some account of the increase of our comforts for the physical or outward man since I took up my residence at the islands in 1828. Let me now speak of other things pertaining to the agricultural interests of the islands up to the present time, beginning at Hawaii, the most southern of the group, and ending at Kauai, the most northern, as you will see by looking on a

Hawaii is much the largest of these islands. I have resided on that island and, have travelled around it. But for its being the seat of Pele's dreadful reign, it would be the most important island, having the largest forests, the loftiest mountains, most extensive fields for cultivation, the greatest variety of climate, and spacious bays. we trembled when intelligence from Hilo reached us lest one item should be that that beautiful village had been destroyed by the rivers of molten lava which rolled their burning waters till some six or eight miles only remained between them and Hilo. Had they reached this village, they would have disgorged themselves into Byron's Bay, destroying probably the most spacious harbor on the islands. God spared our friends their village and harbor, seemingly saying to the burnand here shall thy proud waves be staid."

January 23, only about three weeks ago, our friends of Hilo were again startled by the sight of the burning lava gushing from the same place apparently as in 1855. It was at first supposed that it would pursue the course of the former one, and make for the Bay of Hilo. But it is now well nigh certain that the flow is toward the west or Kona side. But more of the doings of Pele at some other time. I am to tell you of Francisco, and will be profitable, I think. On the agricultural interests of the island.

At Kau, the southern district of the island, at the station occupied by Rev. Mr. Shipman, the people have during the year engaged in the business of wheat raising. A few hundred bushels have been produced and sold, and the hopes of gathered will be profitable. From my recollect In my letter of Feb. 11, 1857, which you g tions of this district, from having once passed your readers in the July monthly Farmer, I rethrough it, I should say there is a wide field for this enterprise. I am now writing to Mr. Ship- * So on Maui, largely.

arrow-root, Olona or Hawaiian hemp, suitable for for bedding, potatoes, yams, coffee, oranges, &c. The latter fruit of an excellent quality is rapidly increasing, and it is said that American apples are being raised on that island.

On Maui, wheat is becoming one of our staple productions. In my former letter I told you of the number of bushels raised the past year. Much more land is being sown this year, and unless the cut-worm shall destroy more than in ordinary years, the amount of wheat will be much larger than ever before. We have a small mill at length, at Wailuku, some ten or twelve miles distant from our wheat fields, where we can proeure grinding for toll. This is a favor. Other things of an agricultural nature on Maui are much as they have been for many years. But for the cut worm the labors of agriculturists would rapidly increase; but the ravages of this insect are most discouraging, and we know of no remedy. For a while we cherished the hope that frequent and thorough cultivation would do the business for this implacable enemy of wheat, corn, beans and garden vegetables; but such is not our experience. Can any reader of the Farmer tell us how we can escape this seourge?

The best gardens on the group are at Lahaina and Honolulu. I know not how gentlemen there eruption of the volcano on Mauna Loa. In 1855 the ravegoe of investigating vegetables from the raising by them of fine beets, turnips, and other comforts, such as New England gardens furnish. I am confident that our island home will, ere long, abound in fruits of an excellent quality. Last year I had in my garden alone some ten barrels of peaches, and there were as many more in three other gardens in the neighborhood. We abounded, also, in figs, had a few oranges, guavas, citrons, chirimoya or custard apple and water lemon. As yet, I have not succeeded with the ing liquid, "Thus far shalt thou go, but no farther, American apple, and much fear that this fruit will not do well on Maui. Still, we shall not give up the hope without further trial. I am hoping to see the orange and peach flourishing in native gardens. The orange and fig are both nutritive and exceedingly healthy. Just now there is nothing like wheat in the estimation of my people, but they will learn, ere long, that the cultivation of fruit is a cheaper method of obtaining a living. Oranges, too, can be exported to San Kauia the natives have made the raising of sweet potatoes, for a few years past, quite profitable. They have exported them to San Francisco, and have had very fair returns. Sugar and coffee have been exported from this island,* but these are produced by the capital of foreigners, and I

In my letter of Feb. 11, 1857, which you gave

ferred to my old neighbor and associate, Mr. mend it with entire confidence. The turnip serves Bailey, of Wailuku, whom I had requested to prop up the plant, while it prevents the evapwrite you. On seeing it in print, I fear that oration of the water. You do less injury to the either Mr. Bailey or his friends will mistake my plant by pouring the water into the saucer, than meaning. I spoke of his having developed a by pouring it on the plant itself, while the fibrous state of mind which forbids, I think, all hope of roots have so incorporated themselves with the his writing for any periodical. I should have allearth that it may be slid out of the saucers in a luded to the cause, failure of health, which afmass. Try it next year. fected his mind, and I should have qualified my hope of his writing for any periodical, by adding, unless his health shall be restored. Just as I write of my own excellent wife at the present spring in sprouting potatoes. I put them into a time—she has developed a state of mind which forbids her writing to her own relatives. With Mr. Bailey I have lived many years on terms of affectionate intercourse; and I utterly deny having written the paragraph from a wish of easting plant, I sawed off the hoops and let the potatoes a reflection on him as a man or a Christian; no out, when I found that although the sprouts were such thought entered my mind. He has lately that Leveld where the political states are found that although the sprouts were such thought the United States and the United States are found to the political states are visited the United States, and I hear he is returning to his island home in renewed health. This I rejoice to hear, and I hope he will be spared long to labor for his people and to aid in form a perfect matting of roots. developing the resources of the country. If you PEAR AND APPLE T. think these letters worthy of being published, please give your readers what I say of Mr. Bailey was led to notice a half-dozen pear trees of as in this closing communication, and greatly many different kinds, that stood the winter peroblige your unseen friend at Makawao.

J. S. GREEN.

more ere very long, concerning Pele, and the ef-cannot tell. fects of the late disturbance on Hawaii from the outpouring of the molten floods. Many from Oahu and Maui had gone thither to gaze on the wonderful displays of divine power now being there exhibited. With respect yours, J. S. G.

For the New England Farmer.

LITTLE THINGS:

OR, A WALK IN MY GARDEN.... No. 18.

I have been transplanting some tomatoes today from the house to the garden. It has been quite a little study with me to ascertain the best method of starting different plants in the house, and then transplanting them to the garden without disturbing their roots. I have hit on a plan partly original with me, or else I have forgotten how I came by my knowledge of

TRANSPLANTING PLANTS.

with rich earth; then cut circular slices of tur-lifteen minutes; but the secondary was quite dim. nip an inch in thickness, but not quite so large Within the primary, were two distinct arches over as the top of the saucer, cut a hole an inch of red, with a green one visible between them in diameter through the turnip, lay it on the at times. These arches, called in meteorology earth in the saucer, fill the hole with the same supernumerary or supplementary bows, extended soil as in the saucer, plant your seeds in the hole, the greater part of the length of the primary water the earth by pouring it into the saucer; bow, and were visible for ten minutes, even till capillary attraction will carry the water to the after the sun had passed below the horizon .plant.

case-knife into the hill, slice down the turnip on occurring after a thunder shower. At about ten

SPROUTING POTATOES.

I accidentally learned a new lesson the past cask, and placed some earth on the top of them, but did not mix it with them, and poured on a breaking the sprouts, as is very apt to be the case when they are sprouted in earth, where they

PEAR AND APPLE TREES.

fectly well, while several seedling young apple trees in the same situation were killed to the P. S.-I will give you, if spared, something ground. Why this in favor of the pear trees, I

GRAFTING.

Apple trees that I grafted on a warm day, before the snow was off the ground, have taken finely, while those I grafted the last of April, seem to have been affected by the extreme warm weather the first of May. I believe there is no danger of grafting apple trees, (I speak of large trees,) as early in the spring as possible, provided there be weather sufficiently warm to make the wax adhere to the trees. Such has been my N. T. TRUE. experience for ten years past.™

Bethel, Maine, 1859.

For the New England Farmer.

AN UNUSUAL PHENOMENON.

Thursday, the 19th of May, was cloudy and very threatening, a little rain falling at ten in the forenoon, and at sunset. At sunset, there was a very beautiful rainbow, the primary bow Take common saucers, and fill them just full continuing unbroken and very bright for about This phenomenon is spoken of as occurring very Now for the beauty of the thing; when you rarely by meteorologists. I have observed it but wish to transfer to the garden, prepare your hills, twice before. On the 14th of August, 1857, there and slip all the contents of the saucer with a was the most beautiful rainbow I ever witnessed, two sides, and let it remain, or take it away, as minutes before sunset, these supernumerary bows you please. Squashes, cucumbers and melons appeared, one after another, till five were visible can be transplanted in this way without being in the highest part of the arch, within the primary checked at all in their growth. The whole pro-bow, continuing till after the sun was just below cess is so simple and so effectual, that I recom-the horizon. Those nearest the primary bow

were broadest and brightest; the others successively fading, shortening in length, and becoming narrower. These were red, the first and second vieing with the colors of the primary bow, with a green arch between them. I never saw them when the sun was more than ten or fifteen minutes high; and its nearness to the horizon probably has something to do with its formation.

Springfield, May, 1859.

For the New England Farmer. LABOR-SAVING MACHINES.

MESSRS. EDITORS:—I believe no industrial class in the world is capable of more real enjoyment and independence than the farmers of New England, and yet many farmers among us avoid an agricultural journal, or a labor-saving ma-chine on their farms, or in their farm-houses, as

if of no possible use.

Now, brother farmers, why do we so? Can the mowing machine came into notice, I doubted a year or two, then purchased a Ketchum's; it paid well, (though others may be better.) I get more grass, get it quicker, and get it better. Delano's Independent Horse Rake has frequently nearly paid for itself in one day just before a shower or rain storm. Then in the house! How much annoyance from green wood, want of conveniences, want of suitable implements, &c. &c.

Monday, when he comes home to dinner, washtubs, soap-suds, a cold dinner and ill-humor will be among past recollections. If that implement does not pay in saving labor and saving clothes, papers to all engaged in cultivating the apple. I do not know what will. In this I speak from readers ever purchased ready-made clothing, and

very late at night to accomplish it?

A year ago, I examined all the machines for sewing, which stand in favor, and after much and made a very fortunate selection; it pays in a prosperous condition. well. It sews any thing, from a muslin to a bedquilt, and a stitch alike on both sides. It is the admiration of the household, and male and female alike use it successfully. For those of moderate prefer the Wheeler & Wilson machine.

Middlefield, Ct., 1859.

TRANSACTIONS OF THE WORCESTER NORTH AGRICULTURAL SOCIETY.

The first remark suggested by looking over this report, is, that the statements are full and particular, and contain many practical suggestions by men competent to make them. The statements upon Plowing show that the importance of this leading operation of the farm is fully appreciated. The statements of the competitors upon stock and poultry are full and distinct. That by John Brooks, Jr., upon feeding stock, is the marked feature of the report. His experiments were obviously conducted with care and accuracy, and the results are of much interest to all feeders of milch cows. We are glad to see such experiments encouraged. The society deserves praise for offering a premium for this object. We hope many such experiments will be made in all parts any of us really afford to do without the agricul- of the State. The plan pursued by Mr. Brooks tural experience of our best and most enlightened is a model for others to follow. We should judge cultivators of the soil? I am one of those who that there must have been a fine exhibition of are obliged to study economy, and have to ask concerning this or that new thing, which is crowded into public notice, "Will it pay?" It is not forgotten. Seven dollars and fifty cents were not always easy to distinguish between a good awarded for flowers, and we had occular proof at thing and a humbug. Thus, for instance, when the time of how much they added to the pleasure of the show, and tended to give a stimulus to this most delightful branch of garden culture. The most strenuous objector to women's rights, certainly cannot object to her right to cultivate flowers, and exhibit them too.

The report of the committee on farms and the statement of Mr. HARTWELL, respecting the cul-Now, then, in the house, he who regards his tivation and products of his farm, are valuable wife's strength, health and comfort, let him pro- papers. The report of the committee on orchards, cure a metropolitan washing machine, and on and the statements of C. C. Field, Jabez Fisher, the President, and JOHN MINOTT, show what may be done in this department. We commend these

We are particularly pleased to see that numernearly two years' experience. Have any of your ous and liberal premiums were awarded for grain crops. The statements upon these subjects are soon after found by inspection that it was only very nicely basted together? Have they ever valuable, and encouraging, showing, as they do, heard their wives say, "I find it very difficult to that large crops of corn, rye and wheat may be do all my sewing." Do they sometimes sit up raised by proper care and attention. The offer of premiums for the same objects for the next year, show that the society duly appreciates their consideration bought one of Wheeler & Wilson's, importance. The report shows the society to be

POTASH---SAND---PHOSPHORUS.

No vines can produce fruit without potash. means, the \$50 cheap style are probably most de- Dye-woods and all color-giving plants owe their sirable, as they do the same work with the same vivid dyes to potash. Without it we cannot have speed. All inferior machines will eventually find a mess of peas. Where it exists in a natural a place in one corner of the garret. Therefore, state in the soil, there we find liguminous plants if you desire to please your wife, either get a growing wild, and in such places only we find good "Wheeler & Wilson," or a "Singer," or a wild grapes. All the cereals require potash, phos"Grover & Baker;" but for family sewing, we phate of magnesia and silica, which is dissolvable in a solution of potash. It is this dissolved P. M. Augur. | sand that forms the hard coat of stalks, and gives

them the strength to stand up against the blasts of wind and rain while ripening. It is this substance that gives bamboos their strength, and beards of grain and blades of grass their cutting sharpness. No cereal ever came to perfection in a soil devoid of potash, silica, phosphate of lime, other portions of the field, even near the water, other portions of the field, even near the water, carbonic acid and nitrogen.—Maine Farmer.

For the New England Farmer.

VALUE OF RUTA BAGA---THE ONION CROP AND THE MAGGOT.

Mr. Editor:—A correspondent in your paper of the 11th of June says that he has raised ruta bagas until he is satisfied "that they are not; worth the trouble of raising." This is truly a sweeping condemnation of a root, which is con- perature just above the freezing point. sidered the most important one raised in Great have observed this result several times during Britain, the failure of which for a single year in the present month, on the banks of a stream. that country, would, according to a very high authority, be a greater calamity than the failure of the Bank of England. I would suggest with was a mist or fog and no frost, while on contigall due respect, whether such an article should uous land, a little higher, vegetation was frostfind a place in an agricultural newspaper, with-bitten. out a simultaneous comment from the editor; a word of caution, at least, to the unreflecting. We all know that many believe, and are influenced in their belief, by any statement they see in print. Ink in the form of type is gospel to many readers. I should like to have had you say, "The remarks of our valued correspondent on the subject and but four cloudy days in the last six weeks. of ruta bagas are startling and novel; they conflict with the experience of half a century, and oats, potatoes, barley and other spring crops, with the recorded wisdom of our most scientific agriculturists. We should like to have our correspondent furnish us with the data which has led him to the conclusion that this "root is not country for farmers of all classes, either rich or worth raising."

Your esteemed correspondent, J. W. PROCTOR. in the same paper, in speaking of the maggot in onions, says that no method has yet come to his knowledge of checking its progress. Now there horses, the fields and meadows with waving the progress are detted with cattle, sheep and knowledge of checking its progress. are some secrets in agriculture as well as in trade; grain, and the woods with evergreens, and the and perhaps it may be that some growers are successful, because they have discovered, but have not divulged the reasons for their success-they may not be aware themselves, why it is that they do succeed. Permit me to offer a remedy; it will do no harm to try it. Soak the onion seed for nips. Which shall I use, guano, superphosphate, suds, and I do not believe a single maggot will or poudrette? How much to the acre to produce suds, and I do not believe a single maggot will a good crop by sowing it broadcast; and also, be found in the plants. It is not too late to try whose make? Where I use a machine for sowthe experiment the present season, though too ling the seed, must the land be plowed, cultivalate to plant for a crop. I do not speak positive ted or harrowed in order to get the manure near ly; at the same time, if I had ten acres of land the roots? I find when the manure is near the ready for onions, I should plant the whole of it, surface they are apt to be spongy and ugly shaped without fear of the maggot, soaking the seed as things. I have suggested. Essex Co.

REMARKS.—We adopt, with pleasure, the language suggested by our correspondent. We of- manure well mixed with the soil, we have found ten refrain from remarks upon the articles of our good superphosphate of lime, 300 to 500 pounds friends, because we do not wish to present the per acre, more advantageous than anything else appearance, even, of being an infallible teacher. for a turnip crop. Prof. Mapes manufactures a We stand in doubt, every day, in regard to some good article, so does Coe, and perhaps others. things, and earnestly desire not to be over-posi- The land should be well pulverized and the seed tive in any assertion. But that ruta bagas can sowed on ridges of eight or ten inches in height, be raised with permanent advantage to most of -but that must depend upon the nature of the our farmers, we have no doubt.

EXTRACTS AND REPLIES.

EFFECTS OF FROST.

After the last frost, June 5th, I observed that were hardly damaged. Can you explain why N. Dearborn. this is so?

Deerfield, Me., June 11, 1859.

REMARKS.—The water, near the corn, having stored up heat from the sun's rays during the day, was warmer than the atmosphere. The warm evaporations from the water were probably carried over the corn plants, and kept the tem-

CROPS IN MAINE.

The weather here has been warm and delightful since the first of May; grass and grain look extremely well, just rain enough to suit all round, The farmers have got in a very large quantity of which are all up finely. I have corn up and as forward as I used to have it in Massachusetts. This is truly a fine grazing country, this is a good poor, soil cheap and productive, climate healthy, water the best in the world, timber cheap, and everything to make home pleasant and happy. The pastures are dotted with cattle, sheep and

Rangeley, Me., June, 1859. J. CROWLEY.

CULTURE OF THE FRENCH TURNIP.

I am in want of some fertilizer for French tur-S. Denham.

South Hanson, June 4, 1859.

REMARKS.—After a liberal dressing of barn-

A NEW TRANSPLANTER.

have invented for transplanting vegetables or mencement of winter. flowers without disturbing the earth around their roots. A gentleman in this city removed over ing to a quarter or more of the expected crop. I day, and he says they did not wilt at all. If it of your experienced correspondents, would exmeets with your approbation, you will much plain this matter. As has been before remarked, oblige a constant subscriber to your valuable the farmers of this county realize more money monthly by a friendly notice of it in your paper. from the hay they send to market, than from any JOHN BURGUN.

Concord, N. H., June, 1859.

REMARKS.—Certainly, friend Burgun, you in their farm management. shall have a friendly notice, or rather the "Transplanter" shall, because it is a labor-saving, as well as plant-saving, and very convenient article. The house you mention is a good one to sell for you.

PROSPECTS FOR FRUIT.

The peach crop is an entire failure this year. Apples now look well, and I hope were not injured by the frost of the 5th inst. Pears look well. Strawberries, (now ripe,) in abundance. A fine ing mowing machines. prospect for a large crop of Lawton blackberries. Currants and gooseberries full. Grapes were somewhat injured by the winter-about half a We have had a fine spring for the growth of all crops, and the prospects are good for the STLVESTER.

Lyons, New York, June 8, 1859.

A COLT'S HIND FOOT.

I have a yearling colt which has a bunch on the fore part of hind foot, between fetlock joint and improved patent, 1859, mower, both one horse hoof. It appeared March 1st, has increased to and two horse, manufactured by Nourse, Mason three fingers' width, and extends nearly round & Co., Boston and Worcester. Manny's patent the foot.

Can you or any of your correspondents suggest a remedy? E. P. CHASE.

Deerfield, Me., June 11, 1859.

CISTERNS.

per the best and cheapest way to construct a cis- Manny mower did its work well, but its swarth tern for the purpose of watering farm stock. I lacked the evenness and smoothness of the Worthink you published an article about a year since, cester Ketchum's when raked. It cut a swarth in which the writer recommended digging in the three feet six inches wide. The Ketchum (meansame manner as wells are dug, and then simply ing always the Worcester machine) cut a swarth lining it up with cement, puting on two or three four feet wide, and its work was satisfactory to coats. Can one be made in that way and be all the spectators. I understand that this madurable, or will it be necessary to brick it up chine, cutting four feet, was strictly a two horse and then cement on to them?

Haverhill, Mass., June, 1859.

For the New England Farmer.

WINTER-KILLING OF GRASS.

of grass is good, where it was not winter-killed. machine, whereas the horse used with Ketch-What is to be understood by this phrase? Is it um's had cultivated corn all the forenoon at simply, where the ice had so formed as to adhere Worcester, and had been driven ten miles since closely to the grass, and in this way to destroy one o'clock, and was harnessed to the machine at the vegetating power of the plant, or is it some two and a half o'clock. Yet, notwithstanding its other operation or process?

I have witnessed this effect on fields of rye, to ness of horse, the Manny mower was inferior to a considerable extent. I have a strong suspicion the Ketchum.

that what is sometimes called winter-killed, pro-I forward for your inspection an instrument I ceeds from causes that operated before the com-

This is no trifling effect on some fields, extend-100 strawberry plants in full bloom the other should be gratified, Mr. Editor, if you, or some the farmers of this county realize more money other product of their farms. Whatever, therefore, diminishes their prospect of income one. fourth part, becomes an essential consideration

June 13, 1859.

For the New England Farmer.

THE BEST MOWER.

Mr. Editor:—Permit me to avail myself of the medium furnished by the columns of your useful and impartial agricultural sheet, for the purpose of saying a few words to the farmers, to whose homes it makes its weekly visit, concern-

Our little town was all astir yesterday, with excitement occasioned by an exhibition and trial of mowers, on the farm of Capt. LAMBERT LAMson. Though your correspondent intends to speak principally of this occasion, he would say that he has often witnessed the operations of some of the rival mowers used in this section of the country, and consequently whatever opinions he may advance, are not based entirely upon the

proceedings at this trial. The machines put upon trial were Ketchum's mower, also one and two horse, made by Alzirus Brown, Worcester, and a one horse Ketchum mower, made down in Connecticut. The trial was first between the one horse machines, each of which cut two swarths on the side of the field. The Manny began, followed by a Ketchum machine from Connecticut, and then by the Ketch-I wish to inquire through your excellent pa- um machine from Nourse, Mason & Co. The mower, but placed upon trial as a one horse machine by the proprietors, in the complete confidence of success. The regular one horse mower, I was told, cuts three feet, six inches. Another circumstance worthy of notice, is the fact, that the horse used with the Manny mower was ta-On all hands, I learn, the prospect for a crop ken fresh from the barn, and harnassed to the advantages in shortness of cutting-bar, and fresheach cut two swarths on the side of the field, it iron, the parts are much lighter, at the same was proposed that they should cut a double time stronger and more durable, than those of swarth, and the Ketchum immediately entered the Manny, which are principally of wood. In the middle of the grass, and performed its work conclusion, I would confidently recommend to in such a manner as to render its superiority still the farmers of New England, as the result of more striking. Nothing can exceed the beauti-careful observation, the Ketchum improved paful manner in which this perfect little mower actient 1859 mower, as the best in the market. Adcomplished its task, and by the almost unani- ding that these ideas, though well founded, are mous consent of the unprejudiced portion of the hastily put on paper. spectators, it was acknowledged to be the best and most complete one horse machine on the field, or in the market. Although, for many important reasons, the trial of the two horse mowers was an event of less interest than the trial of the one horse machines, still I would not deny to them their just amount of attention.

ing the substitution of a pole for the shafts, and of blood. the longer bar for the short size) it must be evi-

so, cheaply.

But the greatest novelty of the occasion remains to be mentioned. The proprietors of the and pour it down, saying, if it cures your horse, Worcester Ketchum, not content with the success of their one and two horse machines, de-lar. sired permission to mow with one of somewhat heavier build, cutting a swarth six feet wide. proper. The attempt was not only another success, but an agreeable surprise to the numerous spectators. I did not see that the horses labored much RINGING THE GRAPE VINE FOR FRUIT. harder with this, than with the other machines of less capacity. It presented a truly noble apopening of twelve feet of cut grass presented quite a gap to the eye. I would sum my account of this trial, by saying that, upon the whole, its proved patent mower of 1859, manufactured by Nourse, Mason & Co.

Permit me to consider now, for a moment, some particulars which it would be well for a farmer to notice in buying a mower. When he is unable to make up his mind as to which mower as large as the grapes borne by the same piece is best, he naturally inquires the cost, weight, of wood that had not been ringed. This was the draught and other characteristics of the rival case in every instance where one shoot had been machines, respectively. I was able to gather ringed and the other had not. In the opinion of these facts concerning the machines exhibited, from the circulars and politeness of the proprie-

tors of each.

of four feet, six inches wide, weighs 480 pounds, an inch wide, just below the insertion of the and costs \$85. The two horse Manny mower cuts a swarth four feet, four inches wide, (two ficulty to be encountered is the danger of cutting inches parrower than the Mark Source and Source an inches narrower than the Ketchum,) weighs 750 too deep. The time for ringing, is when the vine pounds, (270 pounds more than the Ketchum,) and costs \$110,—\$25 more than the Ketchum. My experience teaches me that the Ketchum. My experience teaches me that the Ketchum be pressed very favorably with the simplicity and the simplicity and too deep. The time for ringing, is when the vine is about to flower. The shoots selected for this operation are those bearing ones which should be pruned off next season, as the ringing of course destroys the branch with the maturity of the fruit.—Michigan Farmer.

After the different one horse machines had durability of its construction. Being entirely of TRUTH AND JUSTICE.

Boylston, June 15, 1859.

For the New England Farmer.

A SICK COLT---STAGGERS.

MR. EDITOR:—In looking over the N. E. them their just amount of attention.

Whatever superiority the one horse Ketchum

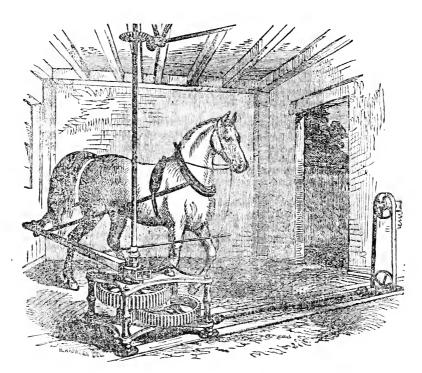
W. D. Sear," describing the case of his colt, mower may have possessed over its rivals, when which I understand to be what is generally de-I say that in less than five minutes, it was trans- nominated staggers, which arises from congesformed into a two horse machine, cutting a swarth tion of the brain and lungs, with loss of tone in four feet, six inches wide, (the only change be-the digestive organs and very unequal circulation

I had a work-horse badly affected this spring, dent to all, that the same superiority remained and within the last eight years have seen perhaps with it, and the superiority of the two horse a dozen in all stages of the disease. I have di-Ketchum mower was no less apparant, and no rected to keep the animal warm and dry, to rub less appreciated, than in the case of the one horse the limbs twice a day with common spirit and mower. In fact, would it not be a good idea for cayenne pepper, and gave them a quarter of a some of our farmers to have the machine arranged pound of a deobstruent powder, to be given one for one or two horses? I presume they could do teaspoonful in bran or oats wet, three times a day, or if the horse was down and would not eat, put the powder in a junk bottle of warm water give me a dollar, and I have always got my dol-LAWSON LONG, M. D.

P. S.—A moderate bleeding from the nose is

Holyoke, Mass., June, 1859.

The practice of ringing, or cutting off the bark of the branches of trees bearing fruit, for the pearance, as the tottering grass came tumbling of the branches of trees bearing truit, for the down, and having finished its double swarth, the of the fruit is beginning to be better understood of the fruit, is beginning to be better understood and more practised. At Bordeaux, in France, there was recently exhibited portions of a vine of result was a decided triumph of the Ketchum im- the Chasselas variety, which had bunches of very unequal size and quality. The bearing shoots which had been left to themselves, had only bunches of grapes in the common condition, while the contiguous ringed shoots each bore a superb bunch of magnificent grapes, each twice the exhibitor, the advantages of ringing, are a fortnight's earliness, finer berries, and better quality. The practice of ringing, consists in re-The Ketchum two horse mower cuts a swarth moving a ring of bark something less than half



FIELD'S HORSE-POWER MACHINE.

For the New England Farmer.

FIELD'S HORSE-POWER MACHINE.

sawing wood, grinding, pumping water, &c.

It might be useful also, in materially lessenwashing machine a day's washing could be accomplished in an hour; and by a very simple and cheap arrangement the same power might be made to do the churning.

These machines are durable and compact, simple in their construction, and being made entirely of iron and steel, are easily kept in order. They can be operated by any number of horses, from one to eight, according to their capacity; upright power is preferable when it is to be used coming in good time.

in a building where there are timbers overhead to which the shafting can be secured. For out-MR. EDITOR:-Knowing your deep interest door work the horizontal power is required. A in everything pertaining to the farmer, and es- space of twenty feet in diameter is required for pecially in improvements which tend directly to the sweep of the levers and a travelling space lessen the labor of farming, I send for publica- for the horse. A shed divided into several aparttion in your valuable periodical a few items in ments to accommodate the various kinds of regard to a horse-power machine which is manu- work, and a horizontal shaft geared into the perfactured by Mr. William Field of this city. This pendicular shaft, (as shown in the cut above,) machine is peculiarly adapted for doing the fol-extending through the building, and connected lowing kinds of work-threshing, shelling corn, by pulleys and belting with the machinery in each room would be a convenient arrangement.

Nearly every farmer cultivating twenty-five ing the labor which usually falls to the lot of fe- or fifty acres would find the horse-power a males on large farms. With the aid of a rotary profitable investment, as he would be enabled by the above arrangement to accomplish in a single day the work of six days. This would enable the farmer to get his produce to market much sooner, in better order, and cheaper than formerly.

These last considerations have induced me to forward the above article. Yours,

Providence, June 25, 1859. B. D. BAILEY.

To Correspondents .- Thanks for numerous size adapted to one or two horses, weight about articles from correspondents. If some of them eight hundred pounds; measures a little more are delayed a little, it may be because others are than two by three feet square, and costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal control and costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal control and costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars, including either the horizontal costs one upon subjects a little more applicable to the seahundred dollars. or perpendicular connecting shaft and gear. The son. But most that are received will be forthFor the New England Farmer.

POTATO ROT.

the communication of "S. H. P.," in your paper aside every idea of "theory." of May 14th. The subject to which he refers, is

The subject thus known a still one of absorbing interest to agriculturists; becomes definite, real, unanswerable. Therefore, and the various agricultural journals throughout no "theory" can be connected with the question. this continent are discussing the question, so Neither speculation or argument can rebut facts. long an open one, of the cause, and for the rem- Occular facts show that the disease in the stalk edy of this wide spread malady. In answering commences at, and spreads from the point at the "S. H. P.," I believe I can place before your readers some facts, which will throw new light and no brown rust, or poison appearance, can be upon this subject. He says he never has seen found on the stalk, or at the roots, except on "any statement of the symptoms" of the potato vines where these insects are found subsisting. blight and rot. The "symptoms" that blight and disease will appear in the potato crop, are re-vealed first by the indications, and the fact that next to the old parent tuber, a brown, rusty apthe eggs of the aphis are found in perforations pearance is found, and a withered appearance of in the epidermis of the potato, and in the eye that end of the vine. From this point, the brown socket and bud-part of the sprouts, at the time rust can be traced, with the natural vision, into the potatoes are dug, and, as are easily seen, before the tubers are planted. He says, "The disease commences its ravages the last half of August, or from 1st to 10th of September." The causes of this disease, may be traced to the attack of insects. They begin their destruction of the stalk of the witter peak ignit of the stalk. the vines, at the vital neck joint of the stalk, be compared to a reptile's poison flowing from nearest to the seed tuber, under ground, and at the spot where the poison fung is placed, through such time, earlier or later, as influenced by the the veins to the vitals of the unfortunate object warmth of solar, or artificial heat, to sprout the attacked. The blight in the plant follows the intubers. This elementary action, animates the in-sect's attack. The vines above the ground and sect's eggs, when a living, active, voracious enemy commences sucking the sap, extracting the vitality and nourishment, which, if retained by the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years the vines, (as was the case thirty or forty years). ago.) would cause a continued growth of the plant, long beyond the "last of August, or 10th ber is very young and growing, and are firmly of September." This shows that the "mischief is imbeded in the trunk or embryo of the vine for not done very suddenly." A slow poison spreads next year. In this nidus, they are hinernated. from the point where these insects make their attack, and that is the remote cause of sudden decay, by cutting off the nourishment.

their secluded position under ground,) communi- Thus, while subsisting in a suctorial manner on cate the "poison to the juice of the top," which poison is admitted by "S. H. P." He "theorises" orate the plant. The secret source of this mulapoison is admitted by "S. H. P." He "theorises" orate the plant. The secret source of this malafor "poison." I point out the enemy, and tell where to find him while communicating the "poison." Let me here ask, if this fact of insect generation of tubers to those of the succeeding representation of tubers. ravages is not far more reasonable to believe as year's growth. Microscopic research unfolds the the cause of the "poison," than to theorize about mysterious works of the Great Creator. By thus the "temperature at 76° to 80°, or southerly or viewing, with microscopic power, the minute south-west winds blowing briskly, or more or less particles of dust, (as seen by the natural vision,) rain, or heavy mist, or fog." Is it possible that, this "wind blowing briskly" can be seen on the our own superficial knowledge. Year after year,

as a "symptom" of disease?

always existed, to do now in causing the potato malady. But more recently, the microscope has blight, that they did not exercise forty years revealed the botanical condition of the tuber, ago? Why does this "atmospheric influence or showing clearly the entomological connection, epidemic," act so destructively upon the potato now, and leave the corn, beans, tonatoes and other vegetables in perfect health and vigorous growth, the same as forty years ago? You, and all must admit, that something acts upon this can repel. It is no "bug theory." There is a relative transition of the plant. Their plant now, that did not scriously affect it previereal aphis sucking the vitals of the plant. Their ous to 1813. "S. H. P." asserts that, "if this eggs and the definite embryo have been searched poison in the top is correct, it upsets the bug out, and made visible with the microscope, as be-

theory." I deny that there is any such thing as "theory" touching insect depredation, and the influence of insects, causing this malady. The occular demonstration of their ravages at the Mr. Editor: -I have read with some interest roots dispels all "theory." Occular facts set

The subject thus known and settled by facts,

By dissecting such stalks, at the more mature

When the tuber is planted, as before described, the insects start into life, and by the instinct of the parent, placed where surrounded by juice, The insects, in their larva or grub age, (in or sap, they pump or draw it from the vine. potato or plant, so as to be recognized, definitely, scientific men and agricultural laborers, have a "symptom" of disease?

What have these various influences which have purpose in revealing the cause of this wide-spread part of the tubers.

Who ever doubts this assurance, or attempts to repel the fact, may as well attempt, at noon-day, to disprove the existence of the sun. I "advance" this fact of identity with "eonfidence," that occular proof will baffle the exertion of those who may declare it a fallacy, or attempt its "overthrow."

"S. H. P.," says, "The advocates of this the-

dents from the garden of Eden.

changing events, in connection with our philosophical judgment, will furnish abundant answers as to the phenomenon why "such bugs" rarely that the devastation committed on highlyare now found on the potato. By inherent transmission, year after year, from tuber to tuber, these insects, by their extraordinary powers of fecundity, have multiplied, and become legion looked for, for the increase of insects, rather than They are so minute, when first starting into motion, as not to be seen with the natural human vision, on the point of a cambric needle, thereunited, revealed in a eavity in the skin of the potato—space, size of the head of a shingle naila spawn or roe appearance, and I counted distinctly more than four hundred eggs in this little cavity. This, in some degree, answers "S. H. P," that "every effect must have its adequate cause," and "can so small a thing produce such effects as to cause thousands of bushels of potatoes to rot?" I reply, emphatically, that, these myriads upon myriads of insects, in their larva age, as of our predatory neighbors. found upon the roots of potatoes under ground, ter week, they are sucking, poisoning and cutting off the sap, thus changing, gradually, the natural health of the sustaining element and life of the

statement of "S. H. P." which is a fact, that, from my own observations and experiments, I can corroborate.) which was fully admitted by the Prussian government in 1854, after their three years' experiments,) that, "this poison in the top (or vine) descends to the tubers," and I show the cause that "produces this disease and decay." "S. H. P." speaks of animalculæ. His allusion to that part of zoology has no connection whatever with this "bug," the aphis. The former, in fair share shall reward the labor of the cultiva-its zoological order belongs to infusoria; the tor. This affords us an opportunity for the exerlatter to entomology; and they are as widely cise of our patience and ingenuity, and as a gendifferent from each other as fish and fowl. One, eral thing, is a blessing rather than a curse. as he says, "floats in the water," the other inhabits the earth, and I know positively, feast in their larva age on the fresh sap of the roots of the potatoes and other plants, and in their pupa

fore described, in the very skin, sprout and bud-and voracious appetites, in their larva age under ground, are the secret, and heretofore hidden, predisposing or definite cause of the potato blight and rot. This fact cannot be repelled.

June 30, 1859. THE FARMER BOY.

HIGH FARMING VS. INSECTS.

Speaking of the insects infesting the wheat crop in this and the old country, the Mark Lane ory will ask, why the atmosphere did not affect Express thinks that the production of insects is the crop previous to 1843." I have previously greatly promoted by the defective system of agreement to this, and I want "S. H. P." to answer riculture in this country, remarking that "when Express thinks that the production of insects is it himself. I reply to his "Yankee-fashioned" the average produce of wheat in England was question, that, the insects are doubtless descen- only two and a half quarters per acre, the ravages of insects were far more general and de-Natural causes and fixed facts, arising from structive than they are now that the average has risen to four quarters and a half. High farming is as destructive to vermin as to weeds, and it is cultivated land is very serious."

REMARKS .- We think other causes must be the "defective system of agriculture." Increase follows supply in the insect world, as well as the fore their eggs are little indeed. A microscopic vegetable. Feed the land well and it will prodemonstration which I made on the 24th of April duce abundant crops; so with insects. High last, with six achromatics and other glasses farming produces an abundance of succulent and tender plants admirably adapted to insect wants, such as the leaves of beets, turnips, onions, cabbage, celery, tomato, parsnips, roses, egg-plant, &c. The leaves of our budded and grafted apple trees are far more tender and sweeter than those of apple trees in a natural condition, and probably more congenial to the tastes and habits

We are inclined to the opinion that on sterile are capable of doing all this mischief. Week af-tracts of land, one's squashes, cucumbers and melons would be much safer from the depredations of insects, than those in the midst of a highly-cultivated district. We kindly supply in-Carry out the acknowledged principle and seets with the food they need, in the variety and richness of the plants we cultivate, so that they have a good time, and have little else to do but to multiply and replenish the earth with their

> Having brought the plants to a state of great perfection, it is the part of wisdom to devise the means of keeping off their invaders, so that a fair share shall reward the labor of the cultiva-

A TRAP FOR CATCHING SHEEP-KILLING DOGS. —Make a pen of fence rails, beginning with four, and imago ages move on their wings in the air. so as to have it square, and as you build it, draw Animalculæ cannot be found upon, or in the po- in each rail as you would the sticks of a partridge tato. Atmospheric influence is not a predisposing or definite cause of this malady. The occular demonstrations revealed by microscopic researches, clearly settles the question, that, myriads of entomological insects, by their ravages, it difficult to escape, should he have the agility of an antelope. All that you have to do to eatch the dog that has killed your sheep, is to construct by covering early with clay mortar, made soft so the trap, where a dead sheep is left, as directed, as to fit close to the tree, and then cover with as soon as possible after an attack has been earth to prevent the air from drying the tree. made on your flock, put a part or the whole of a There are within forty rods of me three or four sheep that has been killed, in it, and remove the large trees capable of bearing four or five barrels balance to some other field. In a majority of each, that are spoiled and partly dead, and the cases, the rogue and murderer will return the remainder will die, by being driven too fast. succeeding night, or perhaps the next, and you will have the gratification next morning of finding him securely imprisoned .- Southern Planter.

For the New England Farmer.

CAUSE OF LOSS OF APPLE TREES.

DEAR SIR: -Will you allow me to say a word in answer to an article in your paper of the 21st of May, written by C. A. Hewins, West Roxbury? Mr. Hewins and yourself come to the conclusion that the underdraining of the land saved the apple trees. I believe the underdraining, if it proves anything, proves that the trees made a more vigorous growth where the land was not underdrained.

The occasion of the injury to the trees was, the land being too rich and the trees growing too fast. The fall of 1830 I suppose to be the warmest that ever was known in this country. Pumpkins and other vines were growing all October and into November, and we had no frost to stop the growth of anything until Wednesday or ied from the *Ploughman*, on farm work for June, Thursday after Thanksgiving, and then winter in which the venerable editor of that paper says set in, in earnest. I thought nothing of it until that it is but one-third of the labor of having to March, 1831.

in cultivating trees, and a distinguished horticul- of the whole labor. I think he has never had turist, living in Roxbury, wrote an article in the a good machine in practical operation on his own New England Farmer, saying we shall have no farm, or he would have mentioned another immore fruit for ten years to come. On reading portant item in hay-making, which is saved by the article I went into the nursery where I had the machine; that is, spreading the swaths and peach, cherry and apple trees, and I believed, turning the grass once. on examination, that it was true.

fine trees as you will see, that were dead. I had just at the time when it is of the most value in sold to Joshua Seaver, of West Roxbury, I think, the whole year. a lot of nice Baldwin trees, which he nursed finecame on the 10th of November did the injury.

see trees almost dead that were injured that win-suit himself! ter. I believe that had Mr. Hewins, if he saw it in January, taken a piece of old oil cloth and afford to buy a machine? If to secure his hay, covered the exact and would be seen to be a secure his hay, from what I saw in 1831.

Again, I have saved trees injured by the mice,

DANIEL LELAND.

East Holliston, June 14, 1859.

REMARKS.—Apple trees, as well as men, are quite often ruined by feeding them too fast. They become purient, gouty, burst, and die. We have often cautioned our readers against overfeeding fruit trees. The safe way with apple orchards is to manure highly, cultivate thoroughly, and take off a crop from the land every year, during the first fifteen years' growth of the trees. Such trees will not have the gout. We have seen an entire orehard of the finest trees, entirely ruined by high manuring and cultivation without cropping the land.

For the New England Farmer.

MOWING MACHINES.

Mr. Editor:—I have noticed an article copcut the grass, and if the machine saves half the John Lowd, who was then living, and engaged labor of cutting, it does not save but one-sixth

From my experience with a machine, I think The result was, that trees that were growing that grass, where there are two tons to the acre, fast were killed, thousands and thousands of cut with a machine after the dew is partly off, them, while those that were making but little will be as dry at two o'clock, P. M., as that growth were not injured. I was then in the nursery business. I took up ing, and the swaths spread at ten o'clock, and two hundred handsome Baldwin apple trees, as turned again at noon; here is a saving of labor

He speaks of those who are bred on a farm, ly, and every one was killed. It will, therefore, as delighting in mowing. I know there is some-be seen that there is danger of making trees grow thing pleasing and exciting on a dewy morn in too fast. In the case before us the frost that swinging the well-ground scythe through the well-grown timothy, and see the pollen rise at The question then is, is there any remedy? In each stroke, and scatter its fragrance in all di-2831 the injury was not half as serious as I ex-|rection; but with me, the poetry is all gone, long pected at first. I went to many trees and found before the field is mowed. Then comes the dull the bark started from the tree, but where it did prose, and the sweating and sighing for some not crack open to let in the air, the sap went up; easier mode, and tired nature yields to the hot but where the bark cracked open and let in the sun, and I like to hang my scythe where the air, it was hindered, and did not get up. Trees farmer of Marshfield hung his, when in his boyhave been dying from that day to this, as I now hood his father told him to go and hang it to

covered the crack, and wound it with rope yarn, and do his other work upon the farm, he annually so that the air would have been kept out, the hires fifteen days' work extra in July, which will trees would have lived. I draw this conclusion cost him in this county twenty-five dollars, by lusing the machine he can do his having as well,

fifteen days' extra labor, is it not better for him the size of the ball, and not only will the same to pay the interest of what the machine costs, object be effected, but the tree will suffer less by and work his horse, than to pay out so much the removal.

money annually for extra labor in having time, In all operations of this kind it is important which, my experience has taught me, is the poor-that they should be carefully and well done, and est of all help if told to do anything but work if possible, the owner should give his personal at having? He says that it is but one-third of attention to the subject; having done so, I venthe labor to cut the hay; this may be true, but ture to assert that not one tree in fifty will fail on many farms it is difficult to get this third to grow the next year.

done; some have not the strength, and more The size of the hemlock, in my communication done; some have not the strength, and more have not skill enough to do it advantageously. published in your paper of June 11th, is 9% in-He says, "good mowers will cut down two acres ches in diameter instead of circumference, and I per day, and be pleased with the job." It is easy find by measurement, that it is 30½ feet high; the to tell what we can do at mowing, and what we frozen ball in this instance was 9 feet across. have done when we were young, and what a man ought to do, but the most practical question is, how much do hired men mow, per day? I think the farmers in this county pay for more days' work at mowing than they mow acres. Danvers, June 15, 1859. WM. R. PUTNAM.

land and high, thick grass and thin, the average subject, in the Farmer of the 11th inst. I have REMARKS.—It is our opinion, that taking low ground gone over by the farmers of Essex coun-substantiate all he says. At any rate common ty, or any other county in the State, does not ex- sense, (which has become quite too uncommon a ceed one acre per day. We never have, and quality in our days,) is on his side. Common obnever expect to hire men to mow, who will make servation, also, will sustain him in the main deca greater average than this, taking all kinds of the trees are to remain, to make healthy, longmowing into account.

For the New England Farmer.

TRANSPLANTING WHITE PINES AND

to inform them, or publish in your paper, my wall, or in the corners of fences by the wayside, method of transplanting white pines, hemlock They sprung up by chance, and have grown by and other evergreen trees. After having tried neglect, at least by letting alone. Their tap root and falled to a great extent in all other ways, I has never been taken off. Their side roots have determined to try winter transplanting. I pronever been shortened. There they stand, firm ceed as follows, viz:—Late in the fall of the year as young oaks; if disease attacks them they have I drive a stake where I wish the tree to stand, a constitution to baffle with it. The borer selmake a circle around it five feet in diameter, take dom takes quarters in them; worms may weave off the sod and lay it out of the way and cover their web there, but these are easily destroyed. the hole well over with refuse hav or straw to In old fields we see the same facts illustrated. prevent freezing; it might perhaps be better to How many thousand trees there may be in Masleave the sod on, as the grass affords much pro-sachusetts, scattered in a higglety pigglety way tection against frost. I then select such a tree over meadows, we know not, but there are probas I wish to transplant, preferring those about 10 ably many more than there are in young orchards. or 12 feet high, limbing close to the ground and We sometimes see them slow growing, shrubby thick in foliage, make a circle about it four feet things, and well they may be, for they stand in in diameter, dig a trench outside of it the width places where ordinary crops give labor but a of the blade of the spade, and about a foot deep, poor remuneration-in exhausted, shallow soils, cutting down square and smoothly, fill the trench where they cannot grow, though they live on, and with leaves, hay or straw, leave until the ground show a good disposition to do so. They are the is frozen five or six inches deep, (if any snow falls offspring of neglect. Cattle browse there, still clear it off,) then clear out the trench. Apply they live. The borer sometimes attacks them, a stout lever, and raise the ball of earth suffibut very seldom, for if it preyed upon them as it ciently to run under a couple of short planks, one does on cultivated trees, thousands of them would lever on the opposite side to free the ball there, looked upon the teaching of nature and have repass a chain around it, and with the team slide it ceived instruction, and the deductions I make carefully on the drag, and unload in the same correspond with the suggestions of the man who way. Be careful that no spaces are left under has rounded his fourscore years. If we would exposed, three or four large stones may be placed main.

and his other work better than he would do with about the tree, or what is still better, increase

SAMUEL RAYMOND.

North Andover, Mass., June 20, 1859.

For the New England Farmer.

APPLE ORCHARDS.

Thanks to S. P. Baker for speaking out on this no doubt but his experience and observation will lived trees. Transplanting and root pruning may help forward an early productiveness and shorten the life of the tree, which, in order to have durability, provides itself with just so many roots as it needs for its special benefit.

MR. EDITOR:—I have received letters from modern apple trees may be found in those that many gentlemen in your vicinity requesting me bave sprung up from accidental planting by some end of which rest on a stone drag; apply the long ago have been clean gone forever. I have the tree; make a good pit and fill in the earth have healthy trees, and leave them for posterity, around the edges. If the situation is very much we must plant the seed where the tree is to re-

To raise trees from seed the ground should be are some poor trees, which he is not willing to well prepared, the soil made deep and well pullose—they must go with the rest. He does not them grow one season, and then select the most they die. promising for the future tree, (removing all othwill be better.

a perfect tree, like a perfect animal, has all its ground and made my selection and taken up the parts furnished by a provision of nature. Take trees myself. I should not hesitate to do the parts lurinsted by a provision of nature. Take trees mysen. I should not nestate to do the away any of those parts, and you deprive nature same again, but I should hesitate, twice at least, of its perfection. Who would think of giving a before I purchased of a travelling vender, undrawing of a horse divested of its tail, mane or less he gave me a warrantee, signed and sealed, ears, or of a bird with its wings clipped, or of a man with either hand divested of a finger, or seedling stock, carefully taken up and delivered minus an eye? In such a case, the drawing would in a good condition. represent the object claimed, in perfection, but in a mutilated form, divested of a part essential to its perfection as the object represented, and necessary to its growth and healthfulness. We have no members we would willingly dispense with, none but what contribute to our success. They are all provided by the God of Nature for useful purposes. So with a tree; it has its parts and "What makes the white specks in butter?" proportions adapted to its circumstances.

cultivators, while the unfortunate purchasers have in the form of speeks. laid the blame to the localities from which their trees were originated. In some instances, probably, the failures have been justly given to right causes. But there are, no doubt, other and more tangible reasons operating collaterally with these. The volume of the cream being more tangible reasons operating collaterally with these. The volume of the tree trees are a constant to the trees are I have heard of a practice among some nursery theory is, that they are caused by the salt being men of dividing roots to an indefinite extent pro-imperfectly worked in at the time of salting, the portioned by the quantity of them, and grafting white streaks are not so salt as the rest of the and making a tree of each of the parts. Of butter. course, these would make but part of a tree and He has them of every quality, and like every one would have learned that fact. else, is anxious to dispose of his wares. There Hardwick, Vt., June, 1859.

verized, thoroughly drained, and put and kept in know who will have them, so he is not responsias good condition as though corn, wheat or any ble. Mr. A. has ransacked the country to sell other paying crop was put upon it. The seeds trees, and agrees to furnish Mr. B., Mr. C., and should then be selected from fair fruit, for I am so on, so many each. Each purchaser must sign confident that for grafting purposes a good, the contract, but the vender of wares is left on healthy stock is desirable. I know not why diseases and other objectionable qualities may not very best, of course. What arrangement he eases and other objectionable qualities may not very best, of course. What arrangement he be hereditary in trees as well as animals. Select, makes with the nurseryman I know not, but I then, the plumpest seeds from the best fruit for have seen more than one sorry looking, almost planting, and if half a dozen are planted where rootless bundle of trees, brought on, and the puryou wish a tree, no harm if they all start. Let chaser must take them. It is not strange that

When trees are purchased, it is better for the ers,) and bud or graft it with the desired variety buyer to deal direct with the nurseryman. It as early as may be. I have no doubt but an will save the percentage that the middle man orchard may be raised in this way as cheap and works for, and as we may well suppose, secure of a great deal better, longer lived trees, than by better trees; for what nurseryman will fill an any other course. It may require more care for order for reliable trees with an inferior article? a year or two than is necessary for trees started in the nursery, but in the end I firmly believe it have sent orders to nurserymen direct, with cash accompanying, three hundred miles, and were as A tree, like an animal, is an organic being, and well accommodated as though I had been on the WILLIAM BACON.

Richmond, Mass., June 20, 1859.

For the New England Farmer.

WHITE SPECKS IN BUTTER.

Mr. Editor: -Your correspondent "T.," asks, answer, they are occasioned by the milk being Of the thousands of apple trees that have been "set" where there is a current of air, as from an transplanted for the last dozen years, the num-ber now living is discouragingly small, and those warm, so that the surface of the cream in the pans actually promising to make good and durable before skimming becomes dry, and in the process trees is still less. In most instances, these fail- of churning does not mingle with the rest of the ures have been attributed to want of care in the cream, but remains in the butter and butter-milk

Since writing the above, I have read the coma sickly, short-lived part at that, for a piece of a munication of Henry Holmes. He says, "if you root can never make a full root to sustain and scrape what cream there is on the lid of the churn nourish the plant. Another cause has probably into the cream-pot, you will not be troubled with been that very many trees have been sold by those white specks." The cream on the lid, or in travelling agents, whose trees, to say nothing of the corners of the churn has nothing to do with their quality when standing in the nursery, are the specks or streaks in butter, and had Mr. often, judging from the scantiness of root, dug Holmes spent the last five years in person, churn-with great haste and little care, and hurried off ing, working, and putting down butter for mar-to their destination. If they fail, where is the ket, or so much of the time as would have been responsibility? Not in the nurseryman. He fills requisite to taking care of a good dairy, inthe orders sent in by Mr. A. for so many trees. stead of "manufacturing and selling churns," he

For the New England Farmer.

TRIAL OF MOWING MACHINES.

sue of June 25 an article on mowing machines, tomers as fast as their orders are sent in, and at signed "Truth and Justice," in which the writer this time our supply of one-horse machines is labors to convince the public that Ketchum's im- exhausted, except what we are able to turn out proved mower is the best machine in the market, from day to day. and that it proved itself such at the trial of mowers in Boylston some ten days since. There are ter I leave the public to judge which is the best several statements made in that article which are machine, and how much consistency there is in erroneous. The first which I will notice, is, that your correspondent subscribing himself "Truth "the work of the Manny mower lacked that even- and Justice." ALZIRUS BROWN. ness of cut which characterized the work of the Ketchum;" the opposite of this was evident to most who examined the work of the different machines impartially, especially in that of the publish the article in our last signed "Truth and Connecticut machine, whose swath, in many parts, was a complete wave. It was claimed for the Ketchum that it would cut closer than the accordance with the design of our paper. Know-Manny, that it would not clog, would cut lodged ing the writer however, not only to be what is grass better, would start easier in heavy grass, called a fair man, but a man of the strictest inand had less side draft than the Manny machine. tegrity, a man of sound judgment, and of ac-These, I think, were refuted by the working of the Manny machine. "Truth and Justice" claims knowledged reputatation wherever known, and as a reason for the fatigued appearance of the listening to his argument that the people ought horse which drew the Ketchum, (which, by the to learn the result of such a trial, we admitted way, is from 200 to 300 lbs. heavier, and I should the article. say quite a number of years younger than the Manny horse,) that he had been worked all the forenoon at Worcester, then driven ten miles and put on the machine. Admit this—but was that the case on another occasion when the writer saw the same horse on the common in Worces-notice two methods recommended to prevent a ter, drawing the same machine, and exhibiting cow from kicking. Of course, it is not Mr. even greater fatigue than on the occasion in Beecher's brindle, "All Saint." "A Belmont question? Farmer" says: "Take a rope long enough to

a six-foot bar, were attached two powerful horses Is the rope to surround the cow longitudinally driven by one of the best operators of mowers in or latitudinally? If the former, we don't see the State, and with this strong team it was with how it can be tied over her shoulders. If the difficulty that the horses could draw the machine, latter, i. e., as a girt is put on a horse, we don't and at the same time be kept clear of the stand-ing grass, so great was the direct and side draft, We once had an awfully bad kicking cow. ing grass, so great was the direct and side draft, We once had an awfully bad kicking cow. the pole of the machine swaying against the off She kicked so badly that it really made us mad horse nearly the whole distance cut; this fact, at her; and we foolishly, I allow, undertook to perhaps, was not noticed by your disinterested (?) lick it out of her; but it was of no use; the correspondent, "Truth and Justice," but it was more we licked, the more she kicked. O, we

mowing machines in the country. The fact that both Manny machines exhibited Justice" asserts that they did.

was such that according to previous arrangement it should not have taken place. The machine was put into wet, heavy grass, and the seven to ten years old, and for a few years, Ketchum proved an entire failure, clogging and trimmed it in the spring; as some writers on

slipping over the grass, cutting it anywhere but close to the ground. The Manny did its work well, cutting the wet grass closely and evenly MR. EDITOR: - Dear Sir, - I notice in your is- We are straining every nerve to supply our cus-

With these statements of the truth of the mat-

Worcester, June 27, 1859.

REMARKS.—We were somewhat reluctant to

For the New England Farmer

KICKING COWS AND ORCHARDS.

Mr. Editor:—In your issue of last week I The operation of the two-horse machines was go round the cow, commencing at her forward quite as opposite in its results to what "Truth and Justice" claims, as was the case with the one-horse mowers. To the Ketchum machine, with will prevent her from using her legs." Query.

noticed and spoken of, not only by the writer, had a terrible time of it, at least the cow did. but by many others in his vicinity, among them. You can lick or choke a bad habit out of a horse, one or two of the most experienced operators of but out of a cow never; they don't know enough. But to the method to prevent kicking.

Take a rope, say a yard long, and with a sinwere sold on the ground, and that five or six gle knot tie it in its centre, just above the hoof have been sold since to parties who were present of the rear forward foot. Full upon the ends of at this trial, proves that all the farmers there as- the rope a little, and she will raise her foot. Hold sembled did not form the same opinion as to the the foot up and tie the ends of the rope around merits of the two machines, which "Truth and the leg above the knee, which keeps the foot up, and she has to stand on three feet. If she flour-Since the above trial there have been trials at ders a little at first, never mind it; she will come Georgetown, Lowell and Sutton, in all of which all right soon. After doing this a few times, she the Manny has proved itself to be the most reliand and practicable machine. At Sutton a trial and you can have simply a noose to slip over the came off on Friday last, although the weather knee as she doubles it up, and effectually prevent

trimming advise to trim at any season when you further remarkable in this case, is, that the part I found my trees to bleed badly, for two or three exposed on the north side, while the other part years, and to turn the bark black. I now trim was sheltered by buildings. I should like to not till after the trees get well leaved out; say know how these facts can be accounted for. the last of June or later, and they do not bleed. Is that right?

Lowell, Mass., June 20, 1859.

REMARKS.—Certainly. If you must trim, do it when it will cause the least injury; and that knowledge in the world. Mr. WESTON, of Readis when the sap has passed up and is elaborated ing, told me that he had succeeded in ridding his into the substance that increases the size of the orchard of the curculio by turning his swine intree. From the middle of June to the middle of July is a good time. It may also be safely trees, and the fowls acted as gleaners, following done when the leaves have fallen in autumn, and in the rear of the rooting pigs and devouring the tree is in a comparative state of rest. Al- all the worms and other small animals which esways cover the wounds with shellac dissolved in caped the hogs in their rooting operations. alcohol.

EXTRACTS AND REPLIES.

SEASON AND CROPS IN WESTERN MASSACHU-SETTS.

Our season has some beautiful and some discouraging features. I never knew so severe a winter on fruit trees as the last-not from excessive low temperature, but severe and rapid changes. How can trees survive, when, as in January, the mercury falls 50° in twenty-four hours? Peaches may be considered used up; quinces have suffered badly; the last year's growth of the apple was in many instances killed, and some trees that just survived are very late in showing verdure, I have seen apple blossoms on such trees June 15. The pear was decidedly the hardiest tree, at any rate it suffered least.

which, from my locality, has injured me, while a about the fundament, and small white lines of mile distant corn is cut down, potato tops nipped, pompions and beans killed. We have frequent and heavy rains, giving grass and grains a fine appearance. W. BACON.

Richmond, Mass., June, 1859.

THE SEASON IN NEW HAMPSHIRE.

The first half of the present month has been colder, here, according to the testimony of elderly residents, than the corresponding season of any previous year since 1816. From the first to the twelfth day of the month there were five frosts, doing great damage to corn and other tender field crops and to gardens. Much of the corn in low grounds is entirely killed. Farmers, in ago, and now we are having a wet time. Crops some instances, have planted again with an ear- are looking middling well. The greater part of ly kind; and some have plowed up their fields. In some particular localities and in some fields the corn has escaped, when in other fields but a few rods distant, and of a less northern exposure, it the farmers, generally, mean to get 45 to 50 cts. has been entirely destroyed. My attention was for their wool. We have more old corn on hand called to-day to a field which had been planted than is usual at this season of the year. with corn, all at the same time, in part of which the corn had been almost entirely destroyed, while that in the other part appeared to have been but little affected. The field was level, and the line of division between the part that was destroyed and that which was spared was most distinctly marked and straight for several rods. What is who inquires about preserving cans, may find

see a limb that needs cutting off. By so doing of the field in which the corn escaped was fully

R. M. FULLER.

Lempster, N. H., June 16, 1859.

THE CURCULIO.

Experimental knowledge is the most reliable kept his hogs and fowls in his orchard till Sep-tember, or till apples were ripe. He had an idea that hogs alone were not sufficient to spy out all the worms, and therefore their extermination required the assistance of the fowls.

SILAS BROWN.

North Wilmington, June, 1859.

WORMS IN HORSES.

I wish to inquire of you, through your paper, what the symptoms are of worms in horses? Also, a remedy for the same. Lisbon, N. H., June 14, 1859.

Remarks.—Symptoms of worms are a tight skin and rough coat; the horse will sometimes stand with a sort of vacant look, and at others seek to rub the hind parts against the boards of We have had three frosts in June, neither of the stall. Other symptoms are an irritation mucus around the anus. You will not be likely to mistake this symptom. An easy, and what we have always found a certain remedy, is to take clean, fine wood ashes, mix a gill of it with wet oats or cut feed, and give the horse every other day till these symptoms disappear.

CROPS AND WEATHER IN VERMONT.

We have had pretty sharp frosts this month, of the consequences you can judge-have had cool weather for nearly two months; our grass was very much injured by the severe cold last winter; it has been dry until about two weeks our corn had not shot out of the ground when the frosts came. We have few sheep compared with what we had twenty-five years ago. I think

W. F. GOODRICH.

Middlebury, Vt., June 18, 1859.

PRESERVING CANS.

Our correspondent at West Henniker, N. II.,

plenty of tin ones at Haynes & Foss's, Black-brought from the same nurseries, seems to be stone Street, Boston. If he do not like tin, take proof against our coldest winters. any glass jars, put the fruit in hot, or exhaust the air in some other way, then tie over a thin received not the least injury from the winter, piece of India rubber or rubber cloth. There are when the mercury freezes. various kinds of cans in the market.

WEATHER IN VERMONT.

The prospects of the farmers here are gloomy the effects of frost. enough. The season, thus far, has been very dry and cold, with frequent frosts. Last Friday of my observation have been killed, and so have quite rainy, and to-day also. Much corn has the Lombard plum trees, but the Imperial Gage been killed with frosts, and worms are injuring proves hardy enough for our climate. corn and other grains. M. S.

Cambridge, Vt., June 13, 1859.

COW LEAKS HER MILK.

Can you, or any of the readers of the Farmer. I have tried liquid cuticle, and a neighbor has tried white oak bark boiled down and alum, without stopping the leak. E. H. W.

Charlotte, VI., June, 1859.

CURE FOR GARGETY COWS.

I have found horse radish, cut and fed in potatoes the same as garget root, a good remedy E. P. CHASE. for gargety cows.

Deerfield, N. H., June 18, 1859.

LETTERS FROM MAINE --- No. 2.

thermometer to the point of congealation of the volved in the structure of all these machines, to mercury.

the ground, or which were subjected to high cul- mon sense in all these movements. ture, when grafted higher, have been entirely destroyed, or received irreparable injury.

Next to the Baldwin, the Tolman Sweeting suffers the most severely, and the Rhode Island Greening is unsafe with the thermometer thirty degrees below zero. The Spitzenburg is not safe Emerson in your paper of June 25, "Has Mr. in Maine. When severe cold may not kill the Proctor tried the guano, and did it fail him?" I tree, it has an injurious effect upon the fruit. The answer, that I have not myself tried it; but my New York Russet is nearly worthless with us. neighbors have tried it, viz., Messrs. Buxton, Wil-Too much dependence has been placed upon va- son, Bushby, Bodge, Huntington, and others, all rieties of the apple which have proved valuable of them extensive cultivators; and each and all in the latitude of New York, while too little at-of them have assured me, since the publication tention has been bestowed upon varieties origin- by Mr. Emerson of his experience, that they ating in higher northern latitudes. Much has have no confidence whatever in the curative qualbeen said about the introduction of trees raised ities of guano. I have the same assurance from in New York nurseries into Maine, and it is now Mr. H. Ware, of Marblehead, who in the season generally believed that trees from the South can- of 1858 raised and sold five thousand bushels of not be made to thrive in our latitude, but with onions; and who now has twelve acres planted me the variety has had more to do with the har-with onions, from which he hopes to obtain six diness of the tree than the location in which it hundred bushels to the acre - provided their was raised. While all investments in varieties growth shall not be interrupted by the magget of the Baldwin type brought from the Rochester or rust. nurseries have proved total loss, the Pomegris | South Danvers, June 25, 1859.

The Black Oxford, a native of Maine, a slow

The past winter has proved fatal to the Black Heart Cherry when growing on its own root, but the heart cherries, when grafted on the wild or bird cherry stock, appear to be proof against

Almost all the damson trees within the reach

SANDY RIVER.

For the New England Farmer.

MOWING MACHINES.

Much disappointment was manifested at the tell what will stop a cow from leaking her milk? late fair in Georgetown, at the imperfect exhibition of the power of these implements. I confess to have shared in this disappointment, Not that there was not a sufficiency of good machines on the ground, but at the combination of circumstances that tended to prevent their operating advantageously. First, there was no order in this movement, each one going into the field just when and where he pleased, and continuing more or less as he pleased, therefore affording no opportunity to compare the operations of the machines with each other. Second, the imperfect growth of the grass, it not being fit to cut. Third, the uncontrollable movements of the multitude through the grass in all directions. For these In my last, I referred to the disastrous effects and other reasons, the committee acted wisely in of the last winter upon young Baldwin trees, in not expressing any opinion of the implements Maine; and the facts stated seemed to me to presented. I was quite surprised not to find on prove that no reliance can be placed upon the the field our old favorite implement—the Allen success of the culture of the Baldwin, where there machine. What has this done to be placed hors is a liability of the occasional sinking of the du combat? I had supposed the principles inbe so simple and so common, that any one might With us, whenever the mercury has approached use them as they pleased. This carrying patent within ten degrees of the point of congealation, privileges to an extreme, is not promotive of pubalmost all Baldwin trees which were grafted near lic good. Give us honest effort and sound com-

For the New England Farmer.

ONION MAGGOT AND GUANO.

MR. EDITOR:—In reply to the inquiry of Mr. J. W. PROCTOR.

For the New England Farmer.

HEAD OR HUB.

Every system which is self-sustaining is justly to be compared to a circle and a wheel. Such, if a system of farming, has its hub, or item of Such will cost no more care, no more keeping; prime and indispensable importance. Men have and yet they will be worth more, and they will their systems of farming which are successful, as pay for more. systems of money-making; which ought not to be called self-sustaining, because the farmer's is sound. Your carriage will "go to smash," if money is obtained by the exhaustion of the land. it is not. Such systems have a head-some leading and governing idea-but they have no hub.

land poor, robs the next generation of the means of subsisting comfortably, by honorable industry, as farmers. Such a man is a great sinner against God who gave the earth, or soil, for a perpetual blessing to the cultivator; he heaps heavy burdens upon unborn generations; he is a scourge and curse upon the land, in his day, and leaves the blight of barrenness to those who may be born after he dies. His march through time is like that of the warrior. He makes money, and this is all his aim. Men give him the glory which they give a conqueror; because he has gotten to himself riches. But desolation fills his track.

God gave the soil to be fruitful, and to grow, more and more fruitful by continued culture, only enjoying its Sabbaths. Man must ever be ous or productive in the highest degree, unless dependent upon the fruitfulness of the soil for the means of a comfortable subsistence. Fishing good market. It is the expected rule of one's may feed a few, hunting may abate some hunger, prudence that urges him to raise more than he but the farm must feed the multitude.

and more for home consumption, and at the same to acquire a knowledge of it, and to learn the time more and more for foreign market? He best methods of rendering his lands productive. who can strike that idea, in a true answer, will Good markets, therefore, exert more influence in hit the hub of the wheel. He will know upon the education of the farmer than is generally atwhat part of his system everything else depends, tributed to them. While their labor in the field and around which everything else revolves.

The man who only thinks to increase the contributions for market, without a proportional in-ket encourages them to increase their efforts, and crease of consumption on the farm, will be found to attempt new things. Let it be demonstrated to swindle the soil.

Upon some farms a few cows will be the hub of the wheel in a self-sustaining and an improving system of farming. Cows produce calves; calves grow into cattle; cows produce milk; milk 'produces pork; milk produces butter; milk makes to him that in a new market lately opened, he cheese. A prime article for the life and prosperity of man, is milk.

To a good, grass-growing farm, a cow is justly entitled to the crown as queen of the realm; she has proved, to many a man, the mother of money. Sometimes she has proved almost the mother of mind at work to learn all the valuable improvemen; she contributes to the compost heap; she ments in farming. He overleaps his prejudices nourishes the calf that grows and contributes to in the ardor of his pursuit of fortune. He bethe compost, also; she feeds the pig with her milk. comes more studious as well as more active, and while he grows at less cost, and adds by work takes a sudden start, like a healthy young tree, and contribution to the compost heap. Thus that has been transplanted from a dry and barren does Mully make a threefold contribution to the declivity to a deep soil and an open situation. compost heap; in herself, through her offspring, contributes more for the growth of piggy than portunities of improving their condition. If the

could be gathered from a half-acre of poor corn. She giver a large portion of her value yearly in golden butter, or in nourishing cheese.

Now, it is a matter of some moment to the farmer, that the cows he keeps should be good ones.

See, friendly farmer, if the hub of your wheel

There is, as I believe, some just and proper sysoverning idea—but they have no hab. Item to be pursued on every peculiarity of soil, He who makes himself rich by making the which shall at the same time prove a blessing to the soil and a source of profit to him who cultivates it. I do not believe that even in these material matters the governing law of a true system can be such that labor and life tend to destruction.

> I have already spun this thread so long that I must cut it short at once.

Lee, N. H., 1859.

For the New England Farmer.

AGRICULTURAL MARKET FAIRS.

BY WILSON FLAGG.

The agriculture of a State cannot be prosperevery district has an easy and ready access to a wants for his own consumption; and the hope How can the farm be made to produce more of making his business profitable, stimulates him teaches them experimentally how every process is to be performed, their observation at the marto any young farmer of sober habits and intelligent mind, who occupies a farm which is badly situated for the sale of its produce, and who has neglected his business because he saw no chance of making it profitable; let it be made evident could find a good sale for every thing his farm would produce, and he immediately becomes enterprising and industrious. Inspired with the hope of increasing his wealth, he feels a new interest in his occupation, and immediately sets his

Whenever a body of farmers are unsupplied and through the thriving grunter in the pen. The with good markets, as we observe in certain resize of the manure heap will mostly settle what mote and isolated districts, they commonly unite is in future to happen on the farm, by way of their employment with some mechanical art; and corn-crops, clover-cuttings, handsome cattle, &c. under such circumstances the state of agriculture She contributes a calf—the father of an ox or is low. The intelligent members of their comcow-too important a friend of the farm to be munity are better informed upon other subjects bailed to the butcher without hesitation. She than upon agriculture, which offers them no op-

construction of a rail-road through one of these for the farmer, one of two things must be accomremote districts suddenly creates a market for plished. Either the non-agricultural population agricultural produce, or renders a distant market must be increased, or the present number must accessible, an immediate impulse is given to the be induced to purchase of the farmers in their agriculture of the place. The present inhabitants vicinity. The first is often done by the establishare stimulated to greater activity, and other in- ment of manufactories, and by opening new avedividuals of superior skill and enterprise are in- nues of trade. The second object may be accomduced to join them in the occupation of farming. plished to a limited extent, by rendering the me-Instances of agricultural improvement arising dium of communication between these two classfrom this cause have been observed by all.

the market was created, not by a change in the advantageously trade with one another. Each of system of public travelling, not by what might these ends may be promoted by the establish-be called an accident, but by a premeditated ment of markets and depots for agricultural scheme, originating with the inhabitants of one products, and by making the farmers acquainted of these isolated districts. The farmers of this with the extent of their ability to compete with section may be supposed capable of producing on distant producers, who have formerly supplied their lands the value of half a million more than the wants of the people. This knowledge they they now produce. Outside of it, the people of would soon obtain by observation and experience other occupations buy the products of distant at the markets. parts, from which they can easily obtain them Markets may be regarded as of two sorts: through the great throroughfares. The farmers first, those of a general nature to supply the misof the district above mentioned, having become cellaneous wants of commerce; second, those aware of these facts, and led on by some capable established to accommodate the members of a individual, resolve to establish, outside of the particular branch of business. All great cities, district, a depot for all their productions, and towns and manufacturing villages afford markets they agree to send them to this place which is of the first description. Markets of the second very accessible to the whole neighboring country, sort are commonly the result of agreement be-whose inhabitants are mostly non-agricultural, tween the parties to be accommodated, like the The consequence of such an arrangement, if the trade sales among publishers and book-sellers. management of the business and the sales are Such, also, are many of the agricultural fairs esconducted by an honest and capable body of tablished in all parts of Europe, and which are agents, is an immediate change in the condition attended by the farmers and peasantry, to save of the people. The inhabitants of the adjoining the trouble and expense of going to a general villages purchase many of their commodities at market to buy and sell. They are instituted this depot, in preference to their former method chiefly for the benefit and accommodation of agof supplying their wants, because a near market, ricultural producers. other things being equal, is always preferred to a distant one.

more produce, are able to live in better style, to but they are attended with great expense; and enjoy superior comforts, and gradually acquire though this expense is contributed for the imadditional wants. The manufacturers who buy provement of agriculture, yet, if the same ends their products find a ready sale for their own ar-could be accomplished by another system, in ticles, for the children of the farmers who for-which this expense would be avoided, so much merly went bare-footed now wear shoes; both money would remain to be usefully appropriated men and women use better clothing, better house- in other ways. Our annual shows are used to hold furniture and improved agricultural imple-some extent as markets; but they do not bear ments; they consume more luxuries, both in the this character, and no man attends them for the parlor and the kitchen, at the table and the toi-mere purpose of buying and selling. Regular let. They become more liberal and ambitious, agricultural markets are established throughout and both willing and able to support other occu- the kingdom of Great Britain. Some of these pations. Every branch of business receives a are monthly, others are semi-monthly or weekly. healthy and extraordinary impetus, by the voluntary establishment of this market. Yet this was many of them were founded by the exertions of the effect of a forced arrangement -of a combi- some wealthy land-proprietor, for the purpose of the accidents of commerce. By means of it, they and to afford all possible facilities both to buyers are brought into commercial intercourse with the and sellers. So much expense would not be lavrest of the world, and the intelligence of the far- ished, without reasonable expectation, at no dismers improves as rapidly as their prosperity.

But the farmers of a particular district, while their mutual benefit. At different times, there surrounded by a large non-agricultural community, may still be unprosperous, if the wants of the latter are supplied from other sources. When, Their efforts in connection with other circumtherefore, it is proposed to create new markets stances, have ended in the general establishment

es more easy and practicable, and by demon-We will now suppose another example, in which strating to each the methods by which they could

Markets may be regarded as of two sorts:

Agricultural fairs in this country are premium distant one.

The farmers being urged, thereby, to raise rope. They have not been without their utility, nation of the inhabitants of a dull place, to re- raising the value of his estates. In some places, suscitate it, and to improve their circumstances it has been the landlord's practice to give a dinby supplying a want, which was not supplied by ner to all purchasers who attended the market, tant period, of profitable returns. In these cases, The prosperity of agriculture must be depen-the landlord undertakes, at his own expense, the dent on the extent of the non-agricultural popu- work which, in one of our supposed examples, lation that needs to be supplied with its products. the farmers accomplished by associations for

of agricultural fairs in the British Islands .- for greater efficiency tends to improve the skill It cannot reasonably be doubted that these lo- and awaken the enterprise enlisted in the busical institutions have exerted the best influence ness. Our farmers will improve in skill and inon British agriculture. They have brought mar-telligence, not as we multiply the direct means kets for the farmer up to his very doors; and for their instruction, but rather as we increase they are so general and so frequent, that one sel-their facilities for bringing their products to a dom fails to dispose of his produce or his stock. good market.

If he does not sell his products to-day, at the It was recommended, therefore, some time since, market in which he has offered them, he immediby R. S. Fay, Esq., to establish periodical Marately adjourns to the next fair, that happens to-ket Fairs in some important town in each county morrow, in some adjacent town. It is unnecessa- of the State, for the improvement of commercial ry to enumerate any of these fairs; but we would intercourse between the agricultural and the nonremark that they are, for the most part, severally agricultural classes of our inhabitants. These used for the sale of products or stock, of one de-fairs were proposed to be a sort of Farmers' Exscription alone. There are fairs respectively for changes, where they would be accommodated, no horses, for oxen, for cows, and for particular only in buying and selling, but in conversing breeds of each of these animals. There are lamb- with their fellow-citizens upon all topics of interfairs, fairs for rams and for ewes, and for lamb- est. It is reasonable to conclude that one or two ing ewes. At some of the principal fairs in Scot-days in a season, devoted to these occasions, land, the number of sheep exhibited is from would be of more value than one or two days' 70,000 to 80,000, and the number of cattle is labor to the general agricultural interest, as well from 20,000 to 30,000. Some of these are of a as to the individual interest of those who attend-description called *character* markets, at which no ed them. They would greatly relieve the monotsheep or wool is shown. The quality of the sheep ony of the farmer's life, by providing periodical stock, and the nature of the clip of wool, from holidays, if they may be so called, where business each farm, are known by experience or reputation might, to a certain extent, be joined with recreato the purchaser, as flour is known, in this countion; and while the parties were making bartry, by the brand of the manufacturer.

would serve, in great measure, to diminish the mands of the markets, the prospects of the sea-evil of fluctuation in prices, which is caused by son, and the means of improving their farms. unsteadiness either in the demand or in the circulation of goods. The first cannot be controlled; dations of Mr. Fay, the Sccretary of the Massathe last may be checked, in part, by increasing chusetts Society for Promoting Agriculture, this and multiplying the facilities for internal com-association offered a prize of \$150 for the best merce. There is often a demand for corn in the essay on this subject. Allen W. Dodge, Esq., Eastern States, when there is a great surplus at was the successful competitor. the West. The railroad communications are not with the plan recommended in the essay, and to sufficient to preserve an undeviating regularity carry out the original design of Mr. Fay, the Esin the exchange of commodities between these sex County Agricultural Society have set the two sections of the country. Were it as easy in first example to the public, by their late Market Massachusetts to obtain corn from Illinois or Fair in Danvers. This is said to have been very Tennessee as from New York city, the fluctua- successful, and the society have voted to hold tion in its prices would be chiefly caused by an the next fair in North Andover, on the third increase or diminution, either in the production or the demand, as they could not proceed from one annually in the same place. It is to be the imperfect character of the conveyances. The hoped that the farmers will see the tendency of same reasoning applies to the commerce of more these institutions to promote their general and limited districts or sections. The commercial in-individual interest, and that they will contribute tercourse of the farmers of Massachusetts, with their endeavors to assist Mr. Fay in carrying inits non-agricultural population, may be so imper- to execution his patriotic enterprise, the mere fectly systematized, as to render it difficult to preliminaries for which have required no ordinasell half the quantity of produce which might be ry amount of energy and ability. readily sold under a good system of commercial opportunities.

Our farmers do not raise many products for a distant market, because the State contains a large population which is not agricultural, whose wants are more than our domestic agriculture could supply. Hence their principal trade is carried on with the inhabitants of their own State, and do-your last issue, represent? I have long considmestic markets are almost the only ones that are ered it an exhausting crop, as compared with available to them. It is, therefore, highly impor- many other vegetable products, but not so bad tant that these should be sufficient in number, as they represent. that they should be widely distributed, and placed under wise and efficient regulations. They might, ster, on his return from England, spoke of the thenceforth, become the most valuable aids to culture of the turnip as engrossing a large share our domestic agriculture, and stimulants to its of the attention of English farmers. I am quite activity. The increased sales of every commodity sure their books on culture speak of the turnip, always tend to increase the efficiency of the la- as the principal crop for the feed of their flocks

gains for their mutual benefit, they would learn Such markets, were they to become general, from each other the state of the crops, the de-

> In accordance with the views and recommen-In conformity

> > For the New England Farmer.

THE TURNIP CROP.

Mr. Editor:—Can it be that the turnip is so

If my recollection is right, the great Mr. Webbor employed in producing it; and the necessity of sheep, permitting them to gnaw them in th

this to be a better yield than 75 bushels of In- of scientific agriculture. dian corn from the same land-both demanding like dressings of manure.

his townsman C. in this matter-nor do I believe will Mr. D., of P., all of whom have had the honor of being Presidents of the Plymouth speaks forcibly and to the point, he spoke en- ing full. The present season has been remarkacouragingly of the culture of ruta bagas and oth- ble for two weeks of the coldest weather ever er turnip erops. Essex.

June 13, 1859.

For the New England Farmer.

LITTLE THINGS:

OR, A WALK IN MY GARDEN....No. 19.

While watering some plants the other day, I was led to notice some of the

SIGNS OF A STORM.

My dog, Carlo, has occasionally a fit of eating grass. Now I suppose others have noticed the same fact in dogs; but I never yet saw one cating grass whose act was not followed by rain the next year, and when the next year came, bloswithin twenty-four hours. Others may have met with an exception, but I have not.

tiquity; and I believe the time has arrived when the to do with them. The present year they have a careful collection of facts should be made re- recovered their energy, and, frost or no frost, I specting the behavior of plants and animals as shall have a good crop.

indicative of the weather.

EARLY AND LATE FROSTS.

sensible-looking neighbor told me that ground not generally known. recently hoed in spring was more liable to frost, but when hoed in the fall it would preyent a spring the earth has not been warmed, and evap- enough of little things, till you hear again from oration is increased, and cold results, as a consequence, sufficient for a frost; but in the fall, when the ground is warm, stirring it causes an evaporation of warm air and moisture.

It was a beautiful evening, and while taking a THE LAW IN REGARD TO THE SALE OF walk down the garden I was meditating on the

INFLUENCE OF THE MOON ON THE TEMPERA-TURE.

say, it is colder than at other times. It is the is now dealt out to them. dread of the farmer that he shall have a frost on have a severe frost till the next full moon in Oc-|measure, making the price per quart, beer meas-

field, without being harvested. Is their soil so tober. Farmers have long noticed that when the different from ours, that this crop will do well moon runs low in the summer months, the nights there, and not at all well with us? I have known are very warm. Here, I believe, is an interest-1600 bushels of English turnips to be gathered ing field of inquiry, requiring, to be sure, a long from an acre, estimated to be worth for the feed series of observations, but which will result in of stock 20 or 25 cts. per bushel. I supposed something important to the cause of science and

While painting over the wounds on my apple trees, this week, I was pleased to see the apples I do not believe Mr. A., of P., will agree with well set for a crop, and was led to reflect on the

EFFECTS OF COLD ON APPLE TREES.

I have for several years been led to doubt the County Society. If my recollection is right, in generally received opinion of farmers in regard the last speech I heard from him, and he always to the causes of a failure of fruit after blossomknown in June in this vicinity. Water has been frozen the thickness of a dollar. The leaves of locust, beech and sumach trees are all killedgrape vines ditto. On three-fourths of an acre of eorn on my land, probably not a hundred hills can be found which are not killed to the kernel, and past recovery, yet the apple trees adjacent are heavily set with fruit. A year ago my orchard was a mass of blossoms, and we had no very cold weather, yet I did not gather but six barrels where I should have expected fifty. I think I can explain the reason. Two years ago my orchard bore heavily. The fall season was favorable for the development of the fruit buds soms were abundant, but the trees, except a few in a high state of cultivation, were not in a con-The instincts of animals with reference to the dition to bear fruit. They had been exhausted weather have been noticed from the earliest an- the year before; I think the weather had but lit-

RHUBARB FOR GREENS.

I did not know till the other day, when a lady While noticing a white frost in my garden told me, that the leaves of rhubarb make excel-where I had hoed a few potatoes, I was led to in-lent greens. They are as tender and delicate as quire why it should be so severe there; when a anything I have ever eaten. I think this fact is

But as your readers may see that I commenced this article rather dog-matically, I fear they may frost. The reason was at once obvious. In the think that I shall close it cat-egorically. So

Bethel, Me., June 20, 1859.

For the New England Farmer.

Mr. Editor:-It is well known that a law was passed last winter that milk should be sold Physicists are not inclined to attach much im- and bought by wine measure, and that it is in force portance to the influence of the moon upon the in our cities many persons will be ready to tesweather, but it seems to be a well-established tify who have keenly felt the difference between fact that when the moon runs high, as farmers the quart they used to receive and the one that

But I am confident that the law is not as strictthe full of the moon, either late in the spring or ly adhered to by those who buy milk at wholeearly in the autumn. He always looks for it at sale, as it is by those who sell at retail, and I that time, and no other. Farmers in Maine know know that in many instances milk is bought of that if they can get safely by the frosts on the full farmers in the country for sixteen and seventeen moon in September, they will not be likely to cents per can, the cans holding seven quarts beer giving the dealers an enormous profit, while the the heaviest and fairest sample." farmer is not receiving enough for his milk.

measure of the farmer.

I am not a farmer, and sell no milk, yet a sense of the injustice done to those who do sell, prompted me to write this, hoping that it would be equally ripe at the same time-if, on walking call attention to the subject, and that something through the field, and selecting the greenest would be done about it.

Knowing that your valuable paper has an exarticle to you for publication.

Concord, Mass., June 27, 1859.

REMARKS.—We have a good law for regulating the purchase and sale of milk, and if those who sell milk by the quantity are disposed to submit to the exactions of others, and transgress the law of the State every day, let them suffer the consequences. Thank you for calling attention to the matter.

HARVESTING THE GRAIN CROP.

In making a tour of two or three hundred miles last summer, while our farmers were harvesting their crop of small grains, we became English work, does not precisely agree with our convinced that much negligence and waste still remarks in relation to the appearance of the prevail, even with some who mean to be tidy and stem, as the latter, we have often observed, may economical farmers.

important consideration to be, the time of cut-green. But the suggestions we have quoted are ting. When is the proper time to cut wheat, valuable, and will aid many cultivators in decidbarley and oats? Some persons do not com- ing at what particular moment to cut their grains. mence until the leaves on the stem are dead, and

the kernel is then glazed and just going out of ever-all their upper portions being entirely dry. the milky state. "If not reaped until the straw We thought that about three farms out of four

ure, two and one-half cents, while the milk is ripe, as the ear generally, except in late seasons, sold in our cities for five cents a quart, wine ripens before the entire of the straw; and it is measure, which any one can see at a glance is observable that the first reaped usually affords

Now, it seems to me, that the old adage, "It is a poor rule that will not work both ways," is cations of ripeness in wheat are few and simple. applicable in this case; and that if milk is sold by When the straw exhibits a bright golden color wine measure, it ought to be bought by wine from the bottom of the stem nearly to the ear, or when the ear begins to bend gently, the grain may be cut. But—as the whole crop will not heads, the kernels can be separated from the tensive circulation among the very class of per-chaff when rubbed through the hands, it is a sure sons most interested in this matter, I send this sign that the grain is then out of its milky state, and may be cut with safety; for although the straw, may be green to some distance downwards from the ear, yet if it be quite yellow from the bottom upwards, the grain then wants no further nourishment from the earth, and, if properly harvested, it will not shrink. These tokens will be found to sufficiently indicate the ripeness of wheat, barley and oats; but that of rye arises from the straw losing some of its golden hue, and becoming paler. The usual practice in England is to cut down all grain before it is quite ripe, and to leave it in shocks until the grain is perfectly matured and hardened."

This extract, which we take from an excellent appear nearly dry for a few inches immediately In harvesting these grains we suppose the first below the ear, while the rest of the stem is quite

Another loss in this harvest is occasioned by the berry or kernel is so far advanced as to be the careless manner in which grain is gathered considerably dry. Under this practice there must and tied up, being brought into bundles uneven be considerable loss experienced in both grain at the ends and of irregular size, so that in the and straw. At this advanced stage the head has shocking and after-handling, the bundles are become dry, and the little scales which encircle burst, and the ears broken off. The stooking, and hold the grain are separated from it, so that or shocking, is often so badly done that they do at every touch it shatters out and is lost. The not shed the rain, or protect the bundles from process has also gone too far to permit the grain dews, and are upset, and scattered by the wind. to produce as much flour and nutriment as it They are often left uncovered, so that in wet would if the harvesting were done at an earlier weather, as was the case at the last harvest, the loss must be considerable in the quantity of grain, As wheat or barley approaches maturity, the and more still by a depreciation of its quality. careful observer will notice that the stem, imme- We were gratified to notice in our ramble last diately below the head of grain, shrivels, and has summer that in some districts, caps, or coverings the appearance of having partially become dry. of cotton cloth, were used on stocks of grain in When this appearance has covered about six inch-the field. It had been raining for three days-a es of the stem immediately below the head, we part of the time heavily—and yet most of the have been in the habit of cutting these grains; stooks so covered had received no damage whatis wholly yellow, the grain will be more than along a range of towns in south-eastern New

Hampshire, were using these coverings. There fered, there are a greater number of named pears their cost.

It is a great loss to hurry over, or to perform general culture. indifferently, the labor of harvesting, because then the crop has matured, and only needs one step more to return to the cultivator its profit. The gathering in, and stowing away in the barn, should be conducted with great care, to prevent waste of grain, to protect it from vermin, and to ton, Vt., that he is correct in regard to keeping give it proper ventilation, so that it shall not heat the cream which adheres to the churn and covers and start the germ of the seed.

For the New England Farmer.

ESSEX AGRICULTURAL SOCIETY.

In the "Sixth Annual Report of the State Board of Agriculture," I find the gentleman who was appointed to visit the fall exhibition of our society, speaks of the show of fruits, which he says was "very large and perfect specimens, of others, but I nope by my own experience and that both of apples and pears," but that he was agree with her in saying it is the same milk "somewhat disappointed in the comparatively which adheres to the cream in the process of small number of dishes of fruit presented, and skimming, but instead of stirring each day, would only offered for certain varieties, and that all others were excluded." He is right when he more closely the nix from the last say, "This course has been all the permanents were excluded." others were excluded." He is right when he says, "This course has been adopted for the purpose of keeping out a flood of ordinary and inferior varieties which would otherwise crowd the tables." But when he goes on to say, "that it washing until the water is perfectly clear. Please is only by comparing the good with the bad that the superior qualities of the one and the imperfection of the other are brought out," I would ask him, "how long are we to lumber our tables with worthless varieties? At what time shall we commence this reform?" I apprehend that when a variety of pear or apple has been grown by various individuals, and they all uniformly consider it as worthless, or at any rate, not at all comparable with other and vastly better Rock Lifter, recently employed by the Shakter sorts, the time has arrived when this expurence at Harvard, Mass. Was that the same mated the past season, more than was seen at Dan-well as lifting rocks? vers? Nearly one thousand disher and plates! The premiums were offered, not by "a certain arbitary standard, nor for the consideration of the Mass., or Nourse, Mason & Co., Boston, sell the amateurs," but for the benefit of the farmers of machine. Some persons who have tried it say that tivate those varieties which may be most remu-\$225. We have sent your letter to Mr. Ellis. nerative. Ours is not a horticultural, but an agricultural society, and in additon to the list of premiums, we award gratuities for any "acknowledged superior fruit" or new varieties pre-

can be little doubt but that the saving by their than would be give by the generality of our most use in a single season like the past, nearly paid experienced cultivators; for out of the hundreds that have been introduced, it would be difficult to name over 20 that we should commend for J. M. IVES.

Salem, May 25, 1859.

EXTRACTS AND REPLIES.

WHITE SPECKS IN BUTTER.

I would say in reply to Mr. Holmes, of Graf. during the process of churning entirely from the butter; but in order to avoid it in your next churning be equally as careful to keep it from your cream-pot, or you will not only have plenty of the said specks, but an unpleasant flavor to the butter. It need not be lost, as every good housewife knows well how to enrich her biscuit with it, or whatever she chooses.

Mrs. "L. E. H.," of Ludlow, Vt., is on the right track, but I hope by my own experience and that try the experiment in saving cream, and my word for it, you will not be troubled with white specks Keep the cream-pot covered close, to avoid both white and black specks.

Putney, Vt., 1859.

PATENT ROCK LIFTER.

gotion should begin. Regarding the "small num-chine, the operation of which you describe in the ber of dishes of fruit," I would inquire of him, at N. E. Farmer, sometime last summer or fall? what county Agricultural Society he saw exhibi- Can it be used to advantage for pulling stumps as

REMARKS.—Thomas Ellis, Esq., Rochester, Essex county, that they may be induced to cul-lit pulls moderately sized stumps well. Price,

A GOOD COW.

Mr. Secretary Dodge informs me that he has a cow, which he purchased five years since, for \$37. He says, "there were some important omis- He has kept her for his own family use, and fed sions of generally acknowledged superior fruits." her as good cows should be fed. Since the 1st If he means by this, superior flavored pears, we of May, there has been made from her milk 77 admit that there are fine sorts which may succeed in the sheltered gardens of our cities, that will not flourish in open farm culture. Then, again, there are others; the St. Michael and St. Germaine, that are still cultivated at the South, least two pounds of butter, she would have yielded at Germaine, that are still cultivated at the South, least two pounds of butter per day. While such that the shelt all eavy New Foreland. Perspective the lutter steel have proved in the contraction of the state of the sta that blast all over New England. Regarding the butter stock can readily be found on our own number of varieties for which premiums are of-lactive hills, there will be no occasion to go

abroad for butter. At a recent visit to the Treadwell farm, I learned it took more than twelve quarts of the milk of the Ayrshire stock, there fed, as it ordinarily flows, to yield a pound of butter. Ten quarts, or twenty pounds of the milk, from Mr. Dodge's cow, will do this.

June 27, 1859. ESSEX.

PROFIT OF HENS.

As there is considerable talk about the profits of keeping hens, I thought I would give you a bit of experience. A little over one year ago I commenced keeping debt and credit with a few. I had but 11 hens and 1 rooster; I kept the account one year, and it stands thus:

Cr. by 120 dozen eggs at 13½ cents	.\$16,20 1.71
Dr. to feed, worth	\$17,91
Balance in favor of hens.	

They were fed in the summer with corn, oats and wheat screenings, with occasionally a mess of warm dough or potatoes, boiled and doubt whether its use would prove efficacious. mashed and given to them warm. They did not have a very good chance, as we had to keep them shut up a while in the spring on account of the crops. In the winter they were kept in a rather Some of the hens are full blooded cold stable. black Polands, the rest a mixture of the Poland, bantum and what we call the old-fashioned hens. I think the Polands are as good layers as there BLACK POLAND.

Montpelier, Vt., June, 1859.

SEED CORN.

lowing: "Corn for planting should be selected gotten and living, still pull down the old pasture from an equal number of male and female ears, shelling and mixing them together." Signed, S. ask a few questions.

If you plant a kernel of corn alone in a field, why does the stalk ever "ear" at all? In a pile all they have lost is their old shaggy coats, aidof ripe corn, how can the male and female ears ed by a long tail, and plenty of bushes in rubbing be distinguished? Will you or Mr. Baker, who, it off. What a preparation this, for another winfrom an experience of eighty-three years, is doubtless well posted, inform me upon the sub-come out thinner, in spring. There is no money ject? What is the most convenient size for hay-in this operation. A FARMER'S BOY.

Charlemont, Mass., June 22, 1859.

REMARKS.—Two yards square for hay caps.

STUMP-FOOTED CABBAGE.

Can you tell me what makes cabbages grow stump or clump-footed, and what is a remedy? I have often seen large pieces nearly entirely lost from this cause, for a clump-footed cabbage will ALBERTUS. not head.

REMARKS .- We have heard it said that cabbage seed raised from the stumps—that is, where the head has been cut off and the stump set out, will produce clump-footed cabbages. whole plant, head and all, should be set, to raise sweeten the butter for a better price in market. seed from.

HEDGES.

I have a hedge in progress, part of which has arrived to the height desired. Will you or some of your correspondents inform me, through your columns, at what time and how often it should be pruned? and oblige, HEDGE.

Derry, N. H., 1859.

REMARKS.—Prune it now, and if the growth continues luxuriant, prune again in six or eight

SHEDDING MILK.

I wish to be informed of the liquid that has been recommended by some for the suppression of milk from the cow's udder where the cow sheds her milk.

Cambridge, Vt., 1859.

Remarks.—The trouble is probably organic; some of the muscles or other parts not acting with sufficient force. The liquid to which you refer may be glycerine or liquid cuticle, but we

For the New England Farmer.

PASTURING---COWS---WOODLAND.

Mr. Editor:—If any one thing is neglected, forgotten, and left to take care of itself, it is the old farm pasture of New England. How many farmers, and good farmers, too, that crowd to the ridge-poles their barns with hay; that fill to overflowing their corn and grain bins, all, (excepting wheat, to their shame,) still trusting to the same old pasture, unassisted, unnourished; In the Farmer of June 1st, I noticed the fol- their flocks and herds feed there; generations forbars; perhaps fifty to one hundred acres is the "area of freedom," for fifteen or twenty cattle; P. Baker. I believe that plants have sex as well they ramble, (poor creatures,) grub and nip all as animals, but being no botanist, permit me to the day long, to carry home their scanty messes and empty stomachs. Now summer has ended, they have gained a little vitality of the skin, and

> The pasture should be the fattening ground; the farmer enriches his land to make his hay to feed his winter's stock; why should he not make rich ten or fifteen acres of his good old pasture, and make it produce more fattening feed than seventy-five to one hundred acres of the old mossy mounds, that time has affixed to decaying nature? The advantages are, a self-manuring process; it necessarily becomes so, the range being made small; animals inclined to be breachy are contented to graze in good feed, and lie down quietly in their own enclosure. This is the place to give the calves and colts a start; the young stock, growth and sleekness; the faithful ox, muscle and fat; the noble cows, flesh and full udders, to increase the business of the "milkman," to better fill and enrich the cream-pot, and Dollars and cents come of good pastures. Hav

ing established your pasture lots in proportion With regard to this insect travelling along under dead pasture waste, sometimes half of the farm perfect insect emerges in the spring. territory, seems to me one of the great farming oversights of the more populous parts of New onion, last spring, part of which I sowed, and England. How often do we see the "axe laid at the root of the tree," to make more "tillage land," of this seed is that with which I have made these while the old, cleared acres, are suffering for want of the plan. The posture lies a hald gripmin [Salam Lat. 1850]. of the plow. The pasture lies, a hald, grimmy waste, perhaps, and probably, the best soil on the homestead. Neither spade or plow has opened its surface since the removal of its primeval forest. Within its bosom, may be found rocks enough to lay your walls, and at odd jobs, ous centre of chemical and vital actions as wonwith small expense, a great and permanent work can be accomplished.

er will subscribe to my doctrine; and my only sels, which, in the course of the twelve months, regret is, my inability to do the subject greater H. Poor. justice.

Brooklyn, L. I., June 12, 1859.

For the New England Farmer.

ONION FLY.

mends seaking onion seed "36 hours in strong they are invisible to the naked eye, and then they soap-sads before sowing," with the impression are called capillaries, hair-like vessels-although that the eggs of this insect are laid upon the seed, they are no more to be compared to hairs than In this I apprehend that he is entirely mistaken. hairs are with cables. I have, by the strictest examination with the microscope, before and after soaking, been unable to detect eggs or germs of any kind in the seed. Another quite as strong proof that the eggs are not found upon the seed, is, that one cultivator In these vessels form a net work finer than the finest lace, so fine, indeed, that if we pierce the surface at almost any part with the point of a needle, we open one of them, and let out its blood. In these vessels the blood yields some of its nutries.

ticularly if thus buried below the influence of the or circulation. sun and air of spring. In this matter, however, This wonder assumes that he stopped his farther progress, all extracted from the blood of great men.

to your farm wants, which can always be kept in a high grazing condition, and at little expense, they undoubtedly do, enter all the roots in near convert the balance into woodland, and a few proximity, but farther than this, they probably years will give you a forest of great value. The do not progress until the next season, when the

Salem, July, 1859.

THE RIVER OF LIFE.

Blood is the mighty river of life, the mysteriderful as they are indispensable. It is a torrent impetuously rushing through every part of the Mr. Editor, I humbly trust you and every farm- body, carrying by an elaborate net work of vesconvey to the various tissues not less than three thousand pounds weight of nutritive material, and convey from the various tissues three thousand pounds weight of waste. At every moment of our lives there is nearly ten pounds of this fluid rushing in one continuous, throbbing stream, from the heart through the great arteries, which branch and branch like a tree, the vessels becom-A correspondent in your last Farmer recom- ing smaller and smaller as they subdivide, till

this spring, who sowed three pounds of the trient materials, and receives in exchange some Weathersfield red onions, has not as yet been able of the wasted products of tissue; thus modified, to detect a single instance of the worm in his the stream continues its rapid course back to the patch, while another, who sowed two pounds of heart, through a system of veins, which comseed from the same lot, has already lost, or nearmence in the myriad of capillaries which form the ly so, his whole bed by this destructive worm.

Regarding the various methods adopted in of subdividing like the arteries, become gradual-England for the destruction of this pest which I ly less and less numerous, their twigs entering forwarded to you some days since. I would par-branches, and their branches trunks, till they ticularly recommend the trenching or deep plow-ing of the land in the fall, or just before winter, into the heart from the veins, than it rushes believing that the chrysalis of the insect, if through the lungs, and from them back again to buried deep, will be unable to develop itself, par-the heart and arteries, thus completing the circle

This wonderful stream, constantly circulating, I am instituting experiments by transplanting occupies the very centre of the vital organism, these onions carefully, without disturbing them, midway between the functions of nutrition and into boxes of various depths, in order to ascer-excretion, feeding and stimulating the organs intain how deep they descend to undergo this to activity, and removing from them all their transformation. I imagine that this insect, like useless material. In its torrent, upwards of forthe canker worm, has its period of growth, and ty different substances are hurried along; it also its desent into the ground. I have, upon a carries gases, it carries salt-it even carries metsmall bed, applied tobacco water without effect, als and soaps! Millions of organized cells float and more recently tar-water and soot; this latter in its liquid; and of these cells, which by some has a better effect. As regards guano, there have are considered organized entities, twenty milbeen various opinions, and it has occurred to me lions are said to die at every pulse of the heart, that these conflicting accounts have been in consequence of this insect appearing on one part, (it it washes onward can be separated. Professor may be the corner of his plat,) and then applying Berard used to exhibit a lump of it in his lecture guano over the whole bed, and this worm not ex- room—nay, one ingenious Frenchman has sugtending itself that season over the whole bed, he gested that coins should be struck from the met-



DESIGN FOR A SUBURBAN COTTAGE.

and useful illustrations to the Farmer, we pre-principal feature, is a bay window overlooking sent to-day another of the chaste, simple and yet very beautiful designs by Mr. G. E. HARNEY, of as a bed-room or living-room. No. 5, the kitchen, Lynn. Those already given, Nos. 1 and 2, have is 15 ft. by 16; it contains a large closet, and conbeen very favorably received, and we are confinects with a pantry, No. 6, which opens upon a dent that No. 3 will afford valuable suggestions gallery, No. 7, leading to the yard. Under this that will be made practical by many individuals.

design and plan for a cottage suitable for a sub-chambers are lighted by dormer windows. Though the exterior is urban or village lot. somewhat ornamental in its character, there is nothing about it costly or difficult of executionno detail which cannot easily be wrought by any ordinary house carpenter.

ed on brackets. The house should rest on a over the under ones in closing the mouth. comprises

ber and cellar.

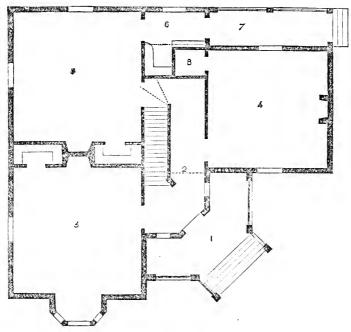
In accordance with an announcement made at From the hall we enter No. 3, the parlor, 16 the commencement of the year to furnish new ft. square, in the front of which, and forming its the front yard.

> No. 4, is 15 ft. square, and may be used either gallery is the outside entrance to the basement.

The second floor contains 4 chambers, each The sketches which we now offer comprise a furnished with a large clothes-press; two of these

Cost, about \$1600 near Boston.

THE TEETH.—The teeth are divided into three classes, each class fitting us for a different kind It is designed to be of wood, and covered in of food: First, The incisors, or cutting teeth, the usual vertical and battened manner. The being eight in number, four top and bottom; roof projects two feet and a half, and is support-those of the upper jaw being larger, and fulling foundation projecting, at least, three feet above office of these teeth is for dividing and cutting the level of the ground. The first story is 10 ft. the food, by bringing it between the surfaces of high in the clear, and the second 6 ft. at the the sharp edges. Second, The canine teeth, so eaves and 10 ft. high at the ceiling. The plan called from their resemblance to the dog's tooth, are placed on each side of the incisors, making No. 1, gallery, 5 ft. wide. No. 2, hall, 7½ ft. two in each jaw. The intention of these teeth is wide and 20 ft. long, containing stairs to chambrook hold of substances, and are peculiar to all learnivorous animals, and of which man is con-



GROUND FLOOR PLAN.

that nature designed man should partake of each ground, and on the slowest growing trees." of the foods common to the carnivorous, herbivmet with at all.

For the New England Farmer.

EFFECT OF WEATHER ON FRUIT TREES.

that destroys our fruit, but other circumstances, causes it. which, perhaps, we may find out by looking on all sides of the question.

win is the most tender variety of the apple yet ing later, escaped the frost. In Maine the ap-introduced is so Maine." The reason is obvious; ples are later, do not ripen so early, do not ripen

sidered the most harmless. Third, The molars, there is no tree that has ever been cultivated in or grinders, are ten in each jaw, and serve to fit our nurseries, that will make wood so fast as the the food for the stomach, by dividing it into mi- Baldwin, hence its tenderness. Notice his exnute portions, or pulp. Thus, it will be seen pression, "grafted at considerable height above

There is no danger of the Baldwin, if you do orous, and granivorous animals. There are not grow them too fist. Now let me show you other teeth, appearing late in life, called "wis- an instance in my own experience: In 1822 or dom teeth;" but frequently these are not to be 1823 I set out twenty-five Baldwins and twentyfour russets, (and one greening by mistake,) and as I said to you in my other communication, the winter of 1830 and '31 killed the twenty-four russets, and not one of the Baldwins! what was the reason of this? The russets were set on the richest soil, and grew the most; the MR. EDITOR:—In reading the article of your greening was set on the richest spot, and made "Sandy River" correspondent, it suggested to my more wood than either of the russets, and is a mind some thoughts that may be a benefit to him fine tree now; so are all the twenty-five Baldwins. and others. He says, "The last winter has proved Now I would like to know why the greening tree to be a disastrous one to fruit trees in the interior of Maine; in one instance the mercury fall-dy? It is a settled question in my own mind, ing to 40 below zero. This circumstance affords that it depends upon the growing of the trees an opportunity to test the capacity of different late in the fall, and of our having gentle or light varieties of fruit trees to resist the effects of cli-frosts at first to check the growing of trees, and mate." I had supposed the question nearly set-preparing them for winter, that prevents the intled that it was not the coldness of the winters jury, and not the severity of the winter that

If it is true that Maine has suffered the past year, I doubt whether they have as much as Mas-The winter of '55'-56, and '56'-57, was colder sachusetts did in 1831. I do not recollect of than 1858-9; the mercury fell lower in Massa-hearing that Maine suffered at that time. Maine chusetts, and I think the papers gave it lower in has its advantages and its disadvantages. In Maine. But I do not recollect hearing anything 1834, Maine had more apples than all the rest of in particular of the injury done the fruit trees.

He says, "The past winter has proved the Bald- in the other States, but in Maine, the season beples. I would not be discouraged with the Baldwin; we may not see another season like the past for a long time to come.

N. B.—I was in Maine in the fall of 1834; bought eider and apples; saw many of their orchards, and noticed their fruit generally, and be-lieve that where the fruit of Maine is as well cared for as in Massachusetts, it will keep as well or better. Daniel Leland.

GRAY'S BOTANICAL SERIES.

Professor Asa Gray, the author of the botanical works referred to above, has devoted his the earth's surface. The laws of development life to the exposition of the delightful science of are adopted as the basis of correct classification. botany, and has achieved a success not only hon-Plants are grouped into classes. These are diorable to himself as an individual, but honorable vided into orders, and orders into genera, and to his Alma Mater, and his native State.

and infinitely varied forms and properties, adapt- viduals are arranged into these groups, to point ing each to its peculiar location and life, the out the structure and the organs of plants, to wonderful provision made for the preservation show how they are developed from their germ , and propagation of each species, their growth and to teach the laws by which this development from seeds, buds, roots, tubers and cuttings, is governed, is the object of botanical science. -their fruits designed principally to furnish | The great difficulty in the study of botany, has protection and nourishment for their germs, hitherto been the use of technical terms, and unand secondarily to furnish food for all animal pronounceable names, as though botanists inlife, cannot but awaken in the mind of the stu-tended, like the hierarchs of Egypt, to confine dent, wonder, reverence and love for their Creator, as he witnesses the proofs of his inexhaustible resources, his infinite skill, and his boundless elementary books, in conveying a knowledge of benevolence.

has obviously yielded his own mind, while at the same time his enthusiasm in his chosen pursuit nas carried him onward through all the difficulties and intricacies of the science, until he has become the most accurate and accomplished botanical teacher in the country. His statements are always clear and reliable, and the student feels that he is guided by the hand of a master. an author who speaks right on, telling us what wants of more advanced students. he does know, and instructing us out of the accumulated treasures of his own mind. Such an

so perfectly, do not decay so soon, and will make some distant mountain crest, illuminates, and better cider, generally, than Massachusetts ap-distinguishes the organic and inorganic forms, that seemed but one confused mass, while the shadow of the mountain rested upon them.

> Prof. Gray follows the order of nature in his classification, and thus has an unerring guide, which all may follow with perfect confidence.

Botany, like zoology, has to deal with an infinite number of individuals, and as the latter has reduced all animals, whether inhabiting the air, the water or the land, into four classes, so the former includes in a few groups, the countless varieties of vegetable forms, which spring from genera into species, and these into varieties. To The study of plants, with their beautiful describe the principles according to which inditheir knowledge to men of their own class.

Prof. Gray has succeeded admirably in his two the principal parts in botany, in language that To this proper effect of his studies, Mr. Gray can be readily comprehended by every intelligent child. They are illustrated by a multitude of drawings, which are among the most perfect and best executed cuts that we have ever met with in any educational book. They are printed on good paper, and with a clear type, and are highly creditable to the press—that of Messrs. Ivison & Phinney, New York-from which they have issued.

We cannot doubt that the little book, "How Many of the educational books of the present Plants Grow," and the "First Lessons," will soon day are mere compilations, soulless skeletons, take the place of all other books on the subject, and it is in the highest degree refreshing to find in our schools. The larger books will meet the

HEN MANURE.—The excretia of birds of all author is Prof. Gray. He imparts to his readers kinds is valuable as manure, and if properly used, a portion of his own enthusiasm, and keeps up will invariably pay for the pains-taking. Lime, in their minds an unflagging interest, while they ashes or other alkalies, should never be mixed follow his clear, concise and consecutive state- with hen manure; such treatment throws out the ments, and almost before they are aware, they value. When dry muck, charcoal dust, woodsammonia, and forms other compounds of lessened find themselves enlightened with some rays of earth, or other cheap divisor, can be procured, that light which had shone so clearly in the mind compost hen manure with it, and if wetted with of the author. What was before confused and dilute sulphuric acid, so much the better; this mysterious, and little more than a dark mass, gradually arranges itself into clear and well-defined forms, which become instinct with beauty nure to morocco dressers, even at four times the and life, as when the morning sun, rising above usual market price. - Working Farmer.

For the New England Farmer.

SELECTION OF STRAWBERRIES.

STATEMENT OF WM, R. PRINCE.

American Institute—Farmers' Club—June 20th.

The great point in all culture is economy and its results, and the true test of the strawberry is farm culture, with or without cutting off the run-

The following I consider the best varieties for pense, and making the whole of the soil available.

Scarlet Magnate, the heaviest of all strawber-

grow on a given space as he saw growing on this on this root as stock food. - Maine Farmer.

Eclypee, early, bright scarlet, upright, clean

and beautiful.

Minerra, estimable quality, produces more than twice Wilson's Albany.

Imperial Scarlet, large, bright scarlet, upright, firm for market.

Perfumed Pine, seedling of Burr's Pine, obtuse cone, very large, bright scarlet, sweet, juicy, high flavor, vigorous, very productive, combines more valuable qualities than any other berry.

Horry, qualities well known. Mulvina, same qualities as Hovey, but more productive, brighter color, higher flavor and ear-

fine flavor, vigorous, very productive, valuable. Globose Scarlet, large, rounded, very produc-

tive.

Prince's Globose, a late variety, large, scarlet, moderate flavor, very productive and vigorous, ripens twelve days after the general crop, and therefore valuable as a late market fruit.

Six best staminate varieties for field culture, requiring to be cultivated in stools, and the runners to be cut off, thus however occasioning additional expense, besides leaving much of the fore, and, as if to compensate for the grain they ground unoccupied,—Scarlet Prize, Wilson's Albany, Sirius, Barry's Extra, Primate, Montrose.

Varieties preferable for families, being of finest flavor,-LeBaron, Ladies' Pine, McAvoy's Superior, Sirius, Longworth's Prolific, Ward's Favorite, Giobose Swainstone, Fragrant Scarlet, birds, I am persuaded that these plunderers as Hooker, Imperial Crimson, Perfumed Pine, Mi-

nerva, Scarlet Prize.

ROOT CROPS---FODDER.

roots, such as turnips, ruta bagas, mangel wurt- worm. I have seen the ampelis, or cherry bird, zels and carrots, among us. Not that they have that remarkably silent and dove-like species, upon ever been wholly abandoned, but the culture of my apple trees, when the canker worm was about them, for the last ten years, has fallen off very half grown, destroying them in numbers, and almuch. People talk about the comparative value though called plunderers, they are, in fact, beneof these things.

We all know that there is great difference in the nutritive power of the articles which we use, than humanity, plead for the protection of the not only for our own food, but for the food of feathered race, and the wanton destruction of our domestic animals; and we also know, that birds, so useful, beautiful and amusing, if not we, as well as our animals, are so constituted as treated as such by law, ought to be considered

to require this same variety for the continuance of health and activity. Keep yourself on one single article of concentrated food, and you may perhaps grow fat, but you will also become sick, or languid and spiritless. Sailors know this. When they get into situations where they are obliged to live on one kind of food, they find their health decline, and their strength and vital powers to flag, and they finally have to "give up the ship." It is, therefore, a duty to cultivate a field cultivation, where the plants are to cover the variety of articles to be used as fodder for our entire ground, thus avoiding extra labor and ex- stock, during our long winters. Good hay is the staple crop for this purpose. It is to cattle what bread is to their owner, the staff of their lives. But roots of different kinds make an agrecable and a profitable variety. In olden times, when Diadem, splendid scarlet, very productive; the potato rot was unknown, the potato, be-Mr. M. Bergen, of N. J., stated that he had not used for cattle food. The potato rot put a veto

For the New England Farmer.

BIRDS VS. FRUITS.

Regarding the service or injury of birds, of which so much is now written. I am aware that they destroy considerable fruit, much more than at the time of Wilson. I think that all animals acquire a taste; for example, the domestic pigeon will now eat the acid currant. Some years since I obtained of Col. Jaques, of Charlestown, a pair of Bremen geese for a farm; these birds I kept for a fortnight, and during that time their food was grass; corn they would not eat. Some twelve months after this I saw these birds on a farm in Florence, very large, conical, splendid scarlet, Danvers, and was then told that they were great eaters of corn. I say above that in the time of Wilson birds could not have been called such plunderers. In his description of the purple grakle or crow blackbird and the common crow, (these of all birds considered the most destructive to the corn,) he thought that they more than compensated for their depredations, by "following in the furrow of the plow, and that their services in the spring, in destroying grubs and larva, of which they eat prodigious quantities hetake, in the fall."

In the first edition of Manning's Book of Fruits I inserted an article on this subject from

which I take the following extract:

"In speaking of the annoyances sustained from they are sometimes called, more than compensate for their inroads upon our orchards by their services in the spring, and during their incubation, in destroying insects: in the breeding season we see them constantly flying from the nest We are glad to see a return to the culture of for a supply, and returning with a grub or a efactors likewise.

"Public economy and utility, says one, no less

as a crime, by every moral, feeling and reflecting mind."

If we should make war upon the crow, blackbird and blue Jay, particularly the last named, it would be for their thievish propensities in destroying the eggs of our truly insectivorous birds. Salem.

For the New England Farmer.

SUPPORTING DWARF PEARS-PROPA-GATING GRAPE VINES.

ened from heavy rains.

kind of wood were used, it would last for a long cable to some agricultural implements, which time, and if it were well coated with gas tar, it will not utterly fail when tested by putting the would be much more durable. It need not rise same on, or into the ground, by a practical farmore than a foot above the surface of the ground, mer. Hence it is the duty, I think, of farmers to and if the tree were kept bound to it, it would co-operate with the manufacturer in his efforts to certainly hold the tree firmly in its place. Such improve and perfect agricultural machines and a support would be of much service to dwarf implements. Should be not, therefore, purchase pear trees standing in places exposed to high and use those machines, although imperfect, and

winds.

that roots are preferred, but that cuttings two facilitate, and render farming attractive in New inches in length will answer. As the premium England. If this reasoning is correct, the above is to be awarded in two years after the roots are observations will apply with peculiar force to planted, I suppose that these short cuttings are mowing machines. The practical utility of a mato bear fruit the second year. Will some one chine for cutting grass is now a question past posted on such matters tell us how such cuttings controversy, or discussion. It is only a question are treated, to make them produce fruit so of time to prepare the surface of our mowing early? If by grafting, give us the mode of doing lands, and the machine best adapted to do the it, as I have tried the ways given in the books, work. I do not propose to enter the partizan but never could make them succeed; they would controversy respecting mowing machines. I do grow an inch or two, and then die. I should be not profess to be a special advocate for either of very glad to learn how to graft the grape successfully.

Can you tell me how to distinguish the Angers quince from the Orange? Is there any ton (June 14,) and saw the operation of the five difference in the leaves of the two varieties?

AN OLD SUBSCRIBER.

Clinton, June, 1859.

REMARKS.—We do not know.

ENCE.-This work is published monthly at Cin-to correct them, I should say that "Truth and cinnati; is a magazine of 48 pages, has six edi-|Justice" had not given sufficient credit for the tors, and is well spoken of by the press of the cutting of the Manny machine, and Mr. Brown country. It has many medical terms, of course, but the plain comments that the plain comments the plain comments that the plain comments the plain comments that the plain comments the but the plain, common sense that pervades its in this matter, I do confess that I am much pages is refreshing. We like it, especially for pleased with the working of the Ketchum patent, its liberality, and thank the editors for their man- as now manufactured by Nourse, Mason & Co. ly defence of Dr. Curtis, of Hartford. Carry It is also my impression, confirmed by six years, out the principles laid down in your article on experience, that in order to be adapted to New out the principles laid down in your article on England farms as we find them, and to be popu-"Illiberality," and you will not fail to make your lar throughout New England, every machine journal popular and useful.

For the New England Farmer.

WHY DO YOU NOT PURCHASE A MOW-ING MACHINE?

Mr. Editor:—If the above question were put to many of our farmers, they would respond by saying, "That the manufacturers are continually making improvements, and I intend to wait until

I can get the best."

Now let us examine this reply for a few moments, and see if it will abide the test of sound reasoning. I presume that I have your assent to Mr. Editor:—In the last number of the this proposition: That until recently, nearly all monthly Farmer I find an article on supporting the inventive genius that has been expended, has transplanted trees, from the pen of your able cor-been in the line of producing and cheapening our respondent, "J. M. I." I like the plan which he apparel and our equipage instead of our food, describes very much, and it has occurred to me that it would be valuable as a permanent sup- has fully come when the latter should receive its port for dwarf pear trees, which are liable to be full share of inventive talent. To make this most swayed to and fro by the wind, especially in the effective, it is manifest that on the part of both spring and fall, when the ground has been soft-manufacturer and practical farmer, there should be mutual sympathy and cordial effort. I hold, Now if a large, strong stake of some durable that there is no ingenuity, skill, or theory, appliin the process of using them, report to the maker On another page of the Farmer for June, may of them their failings, or suggest improvements? be found an article on the \$100 grape premium offered by a gentleman in N. H. The writer says machines may be obtained as shall very much them, and have refused to be a paid agent for the sale of them from two establishments.

I was present at the trial of mowers in Boylsmachines, and for the first time saw the working of the Manny machine. I have also read in the N. E. Farmer the report of the trial by "Truth and Justice," and the reply by Mr. Brown. After carefully reading these statements, I apprehend they may not be an exception to the general rule in such cases that the exact truth is to be THE COLLEGE JOURNAL OF MEDICAL Sci-found "between them." If I were called upon must be reduced, substantially, to the construcof the various machines will call this a sweeping tested. At the trial at Boylston, their working

observation, and demand my reasons.

present obstacles, more or less, to the mower, them. such as apple trees, boulders, stumps, uneven surfaces, &c. We are bound, nevertheless, to circulars from me, certifying that they are "hon-have a machine which will work, notwithstanding orable men," and I will only say to those who these obstacles. But under these circumstances, purchase of them that they seem anxious to supthe demand is imperative that we have a mower ply all improvements as fast as discovered, and in its construction simple, strong, compact, I have no doubt that with the aid and patronage "handy;" one into which we can readily insert of farmers, they will give us a machine of such cutters of different length, from a three foot to a price and quality, that every man who has twelve six foot, according to the condition of the grass, or fifteen acres to cut, will find it for his interest surface or obstacles. This idea of changing cut- to buy. ters carries with it an importance which farmers do not yet appreciate. My own experience enables me to say that it is a most happy arrangement by which I accommodate my machine to the grass to be cut, and the work to be done, to the capacity of my team. I may be mistiken, but I apprehend that I am correct in saying there is now no machine capable of meeting the above demands but the Ketchum patent.

The labor of taking apart and of re-adjusting is a consideration with me in favor of the small iron machine. Last fall, a neighbor came to me for my machine to cut his rowen; said that he had been to three owners of the Manny, and they refused because their machines were taken apart, and it was too much work to "rig up." The light, and the ground every way favorable, so Ketchum, occupying four square feet in the corner of my tool room, was ready for action in less

than ten minutes.

for itself, and when the manufacturers of both common cultivator in working corn. kinds had made great improvements, I sent it back with directions to send me their best mower, and give me what they could afford for the old one. To this last, I have added the improvehour, the town clock bearing testimony. And yet my horses gave no evidence of the least extra labor. Now, sir, if you do not consider this sufficiently expeditious, come and see me, and tomorrow I will slip in a six-footer, and cut an acre by the side of it in thirty minutes, and yet my horses will not labor harder than they did with the old machine with a four foot cutter.

I do not profess to have any scientific guage by which I can discover the amount of power required to overcome a given amount of resistance, but from careful observation, I have reached this conclusion: That the two horse machine as now manufactured by Nourse, Mason & Co., requires no more power to work it with a six foot cutter, than the machine did with a four foot cutter made five years since. Also, that the one horse machine, with a three and one-half foot cutter, is no harder for one horse, than it would be for the same horse by the side of another in the old machine with a four foot cutter. For this statement, however, you have only my own judgment, based merits. upon the evidence I had at Boylston.

Nearly all the interest manifested in mowing to be expected, inasmuch as probably nine-tenths cannot enter. Wet the harness over night, cover of our farmers keep but one horse. These are it with a blanket, and in the morning, it will be

tion of the Ketchum mower. The manufacturers just now being introduced, and remain to be was very gratifying to me, and I think they come The mowing lands of New England will always within the ability of most farmers' horses to work

> The manufacturers of these mowers need no CHAS. HUMPHREY.

Lancaster, July 1, 1859.

MOWING MACHINES.

A trial of two mowing machines took place on the farm of Mr. Lynde, in Melrose, on Tuesday of last week, which we had the pleasure of witnessing. The machines used were the "Buckeye" and the "New Englander," the first with two horses, and the latter with one. The Buckeye took a swath four and a half feet wide, and the New Englander four feet. Each cut its acre handsomely in forty-two minutes. The grass was that the labor for the horses was not severe,that of drawing the one horse machine was not When my first machine had more than paid a heavier draft than is required in the use of a

After this trial, each machine was put into heavier grass, where there were some patches of thick clover, and some of it lodged. The New ments as they have come out, and yesterday I Englander led the way, cutting the grass finely cut a piece of grass sixty rods long, and three and turning a handsome double swath. The Englander led the way, cutting the grass finely wide, (one and one-eighth acre) in less than an Buckeye also cut a double swath, and did it well.

> Since this trial, we have used Ketchum's and Manny's one horse machines in a very heavy growth of clover on our own farm. The field was on a hill-side, was encumbered with apple trees twenty-five feet apart, and the clover in many places badly lodged, but both machines cut it as well as could be reasonably expected. It seems to us that the draft on the Manny was the lightest, but that the Ketchum had more facility in turning, and could be moved over the cut grass, to go from place to place, with greater ease. Where a person cuts fifty tons of hay annually, either machine will pay for itself in three years.

> Many trials of machines are taking place, and the public mind seems at last to be aroused to something like a proper appreciation of their

OILING HARNESS-LEATHER, &c.-Oils when machines in this part of the county, appears to applied to dry leather, invariably injure it, and be in behalf of the one-horse machines. This is if to leather containing too much water, the oil damp and supple, then apply neats-foot oil in small quantity, and with so much elbow-grease of whom have but one horse—is this: can we as will insure its disseminating itself throughout have a mowing machine which will work in all the leather. A soft, pliant harness is easy to kinds of grass and grain, which will adapt itself handle, and lasts longer than a neglected one to uneven land, which will keep in repair, and Never use vegetable oils on leather, and among which can be worked by an ordinary farm-horse? the animal oils, neats-foot is the best.—Working The trial on the field of Mr. Lamson did not de-Farmer.

TIMES GO BY TURNS.

The lopped tree in time may grow again, Most naked plants renew both fruit and flower; The sorriest wight may find relief from pain, The dryest soil suck in some moistening shower. Times go by turns and chances change by course, From foul to fair, from better hap to worse.

The sea of fortune doth forever flow, She draws her favors to the lowest ebb; Her tides have equal times to come and go, Her loom doth weave the fine and coarsest web No joy so great but runneth to an end, No hap so hard but may in time amend.

Not always fall of leaf, nor even spring; No endless night, nor yet eternal day; The saddest birds a season find to sing, The roughest storm a calm may soon ally. Thus with succeeding turns God tempereth all, That man may hope to rise, yet fear to fall.

A chance may win that by mischance was lost; That net that holds no great, takes little fish; In some things all, in all things none are crossed, Few all thy need, but none have all they wish. Unmingled joys here to no man befall; Who least have some; who most, hath never all.

For the New England Farmer.

MOWING MACHINES.

Mr. Editor:—I noticed in a recent number of the Farmer a communication describing a recent trial of mowers on the farm of Mr. Lamson, in Boylston; the writer signs himself "Truth and Justice." His comparison of the relative condition of the horses does not prove the inferiority ing the butter. of Manny's mower, for every teamster knows that a horse in high condition works better after half a day's exercise, than a fresh horse, especially if the latter is unused to the work, which was the case in this instance.

truth is, all the machines performed their work water, and injures the tree, and it never heals so waste for mere display, unless we can have the is a great help to the wound in preventing its profits of mowing machines for compensation. | drying and cracking."

But the real question with our farmers-most cide any of these points. The draft was through a half-grown crop, and down a smooth inclined plane. "Truth and Justice" says the decision of those who witnessed the trial was in favor of of much merit, two centuries and a half ago. The philosophic strain pervading the piece is worthy of admiration.

Ketchum's. In reply, I answer, that several of strain pervading the piece is worthy of admiration. know of none of Ketchum's that were disposed HONESTY.

For the New England Farmer.

STRIPES AND SPECKS IN BUTTER.

Mr. Editor: - With an experience of twentyfive years in butter, I believe Mr. Holmes to be wholly mistaken as to the true cause of stripes and white specks in making it, as I always practised scraping down the cream that is thrown about the churn in churning, as soon as the butter began to come, and never have striped butter. If the butter is thoroughly churned, and well worked after churning, it will never be striped. I believe the cream that is scraped down from the sides and lid of the churn, most, if not all of it, comes to butter; if not, it goes in with the butter-milk, which only makes it the better for biscuit.

The white specks in butter are caused by getting milk in with the cream when skimming, which is suffered to lie still until it becomes hard like cheese; to prevent this, stir the cream thoroughly after skimming it off the milk; this will generally prevent there being specks in the butter. If the cream is strained after skimming it off, there will never be specks. If my theory be correct, it will be seen that the idea of cream making stripes or specks in butter is incorrect.

N. B.—Good butter-makers rarely have stripes or specks in their butter; if they do, they attribute the cause to the neglect of duty in not taking proper care of the cream, and properly work-

Ludlow, Vt., June 25, 1859.

SUMMER PRUNING.

A Mr. Sweet, of Triftonburgh, Mass., writes to "Truth and Justice" says that in cutting the the Boston Cultivator: "Trees should never be double swath the superior excellence of the pruned in the fall, for the reason that the stock Ketchum machine was still more apparent. The dries up, the bark curls from the stock, lets in admirably, nor could any unbiased spectator de-well as when removed at the proper time. To cide which cut the closest, smoothest, or evenest. prune in early spring is better, but not the best "Even "Truth and Justice," himself, could not time. Limbs removed at this season of the have selected, on the next day, the swath cut by year, when the sap first begins to start, also in-the Ketchum, except by measurement, and this jures the trees, for the sap rushes with great boasted length of cutting bar is no merit in a power to every part of the tree, which will cause mower, unless there is a commensurate gain in the wound to bleed. The tree, or limb, will turn the power applied. For instance, if the six feet black, and often the tree will die. I am satisfied cutting bar, which made such an "awful gap in that the best time to prune apple trees is from the tottering grass," requires one-third more the last of June to the last of July. At this seapower than Manny's, cutting four feet, then give son of the year, that strong flow of sap begins to us the latter; for horse-flesh is too expensive to subside, the tree is covered with foliage, which

BUSINESS CHANGE.

business management of the Farmer, by the relinquishment by Mr. Nourse of a third interest each to Mr. Russell P. Eaton and Mr. Albert TOLMAN. Mr. Eaton assumes the general edilishment. The announcement of the new firm will be found upon the cover of this month's is-

For the New England Farmer. MOWING MACHINES.

of land, and you will readily see that haying, with as any we have tasted, and is generally so prome, has been a long and tedious business. I tried several mowing machines, and found none that gave satisfaction, as a great part of our land and can be easily followed by any family having and can be easily followed by any family having and can be easily followed by any family having the mode of manufacture is simple, is low. clay meadow, laid in beds four rods wide, the currants and the disposition to make the and no machine would operate on this land, only one whose knife-bar played up and down, independent of the driving wheel. I was induced to pendent of the driving wheel. I was induced to try the Manny mower—and this has accomplished the work so near perfection that I have main a day or two; then crush them with the main a day or two; the crush them with the main a day or two; the crush them with the currants should be fully ripe when picked; the crush them with the currants and the disposition of the crush them with the currants and t but will say that it is a good machine, and in the and water sufficient to make a gallon. experiment of last year I saved nearly the price of the machine. JOSEPH BROWN.

Kensington, N. H., July, 1859.

For the New England Farmer.

THE PEAR MOTH.

rana) is now busy in some localities upon the the wine off carefully, either from the spigot or young fruit of the pear, attacking it immediately by a syphon, and keep running all the time, under the crown or eye. This worm is about a Cleanse the cask thoroughly with boiling water, quarter of an inch long, of a dirty green color, then return the wine, bung up tightly, and let it and reddish brown down the back. As a means stand for four or five months, when it will be fit of destroying this insect, it has been suggested to to drink, and can be bottled if desired. a mixture of strong soft soap and air-slaked Telegraph.

lime. I have a few of these insects, taken from On the first of July a change was made in the some young pears some days since; they had

Salem, June, 1859.

Each plant, while growing, throws off cer-TOLMAN. Mr. Eaton assumes the general editorial charge of the weekly Farmer, while Mr. growth of successive crops of the same plant. Tolman will conduct the business affairs of the Plants in this respect are somewhat like animals, firm. No change whatever is made in the editor- which always avoid their own excrements. Now, ship of the monthly Farmer, or in the manner other plants may use these matters. Hence a roof carrying on the general business of the estabwhat another throws off.

LADIES' DEPARTMENT.

TO MAKE CUBRANT WINE.

Mr. EDITOR:—I cut about seventy-five acres keg of currant wine, which is of as good quality For several years we have made a ten gallon

purchased, and am fully satisfied with its opera-hands, unless you have a small patent cider-press, tion. I am not acquainted with the new main which they should not be pressed too much,
chines, but I understand that this year there are
many new and very good ones. One advantage
that I notice in my machine is, the instant the
used, put the real removes it from the fingertype pure a small patent care.

property
in which they should not be pressed too much,
or the stems will be bruised and impart a disagreeable taste to the juice. If the hands are
that I notice in my machine is, the instant the
used, put the crushed fruit, after the juice has grass is cut, the reel removes it from the finger- been poured off, in a cloth or sack and press out bar, while I have noticed that on machines that the remaining juice. Put the juice back in the have no reel, when going with the wind, the grass stops upon the finger-bar. Upon close examination about three days, until the first stages of ferments about three days, until the first stages of ferments. tion I have found that the grass in great quantities was cut as fine as powder, and good for nothing or wasted. My advice to farmers that have twenty or more acres of land to mow, is, first barrel—of a size to suit the quantity to be made, to find a good machine and then have. Perhans I to find a good machine and then buy. Perhaps I and to each quart of juice, add three pounds of am not at liberty to say the "Manny" is the best, the best brown sugar, (we prefer this to the loaf,)

Thus, ten quarts of juice and thirty pounds of sugar, will give you ten gallons of wine, and so on in that proportion. The cask must be full, and the bung or stopper left off till fermentation ceases, which will be in twelve or fifteen days. Meantime the cask must be filled up daily with water, as fermentation throws out the im-The worm of the pear moth (Tortrix angustio- pure matter. When fermentation ceases, rack

search for the maggots in the eye of the fruit, All the vessels, casks, &c., should be perfectly but the most rational way is to collect the leaves sweet, and the whole operation should be done in autumn and burn them, as it is more proba- with an eye to cleanliness. In such event, every ble that they lay their eggs upon these, or that drop of brandy or other spirituous liquors added the caterpillars spin webs in the chinks of the will detract from the flavor of the wine, and will bark to undergo their transformations. If they not in the least degree increase its keeping qual-hybernate in the latter, the best method to de- ities. Currant wine made in this way will keep stroy them would be to paint over the bark with for an age, unless it is -drank.-Germantown



DEVOTED TO AGRICULTURE ITS KINDRED ARTS AND

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NOURSE, EATON & TOLMAN, PROPRIETORS. OFFICE ... 34 MERCHANTS ROW.

SIMON BROWN, EDITOR

FRED'K HOLBROOK, ASSOCIATE HENRY F. FRENCH, EDITORS.

SEPTEMBER.

To him who, in the love of nature, holds Communion with the visible forms, she speaks A various language. For his gayer hours She has a voice of gladness, and a smile And eloquence of beauty; and she glides Into his darker musings with a mild And gentle sympathy, but steals away Their sharpness, ere he is aware.

Bryant.

kind almost feared a second deluge—but of June loves his "vine-clad" France, and the Italian his such as it should be-such as it was in our mem-sunny Italy, but the Switzer on duty in a foreign ories, and on the page of the poet. It is true, we country, must not even hear his familiar Ranz miss the long, sweet twilights of early summer- | des Vaches, or he can no longer be restrained and a few yellow leaves gleam from among the from returning to the hills and glaciers of his abundant foliage, like the first gray hairs that tell own native land. Even the Esquimaux and Iceof departing youth. We can see, too, that the sun lander, were they transported to the orange-groves sets a little further to the south, but his beams of the South, would sigh for the huts where they are as ardent as ever, and as yet we have no need had burrowed with wife and children, and perto put by our light garments, or to close our win- haps said wife and children are just as beautiful dows and doors against the outer world.

mer is over! How the wind wrestles with the trees, and strips off the leaves, still green, in showers! Now we are glad to gather about the fire again, and to beguile our evenings with books and work in winter fashion. When the storm has spent its fury, it will pass by, but not again shall we look out upon a landscape having the semblance of summer. Decay is everywhere vis-EPTEMBER. It has ible. Even the birds have heard a mysterious its name from Sep- voice telling them that winter is coming, and tum, a Latin word warning them to seek a warmer climate. meaning seven, be- however, is not nomadic. It seems strange that, cause formerly the when "the world is all before them," human beyear began with ings should voluntarily subject themselves to the March instead of inconveniences of extreme heat and cold. But January - making such is man's attachment to home, that he will September the sev- endure almost anything rather than cut loose enth month of the from old associations, and wander over the world seeking a place of rest. If necessity compel September is him to this, he presently takes root in his new called a fall month, but it abode—and gathers his household goods about seems more properly to him. As one by one his friends pass away, here be a connecting link be- he buries his dead, and more than one harsh tween summer and fall. wind will blow over him, before he will volunta-Its first days are as warm and rily surrender the comforts and delights of a percalm as those of June-not to manent home. One would think, too, that the speak of the month of June, eigh-dwellers in the most beautiful lands would have teen hundred and fifty-nine, when the strongest attachment to home and country, it rained, and rained, till man-but such is not the case. The Frenchman in their eyes, clad in robes of bear-skin, as those But presently comes the "equinoctial storm" of their more luxurious neighbors in their silks -and the bright, brief vision of a northern sum- and muslins. Well, "every man to his taste."

is our destiny, in a general way, to put out our branches very near the spot where we first took root, let us rejoice that this spot W. The following experiment by an English for ent climates, habits and customs.

the soil, his sojourn would be likely to be more every town.—Ex. desolate than any explorations we have yet heard of. But, to use another's language, "Where no trees grow, where no vegetables come to maturity, and gales from every quarter of the Icy Sea beat the last faint life out of nature, men will still persist in living, in apparent defiance of all natural laws."

"Well is it for us, that there are people whose ideal of life consists merely in possessing a sufficient quantity of whale oil, blubber and seal skins, with a warm den underground. To the torrid zones we are still more indebted. Our finest fruits, our precious woods, are all brought from countries about the equator.

But we have got upon a subject involving too many considerations to be fully dealt with here. One inference strikes us,-that what at a first glance seems mere accident, will be found, on a closer view of the subject, to be the result of a full investigation. So may we always

"Look from Nature, up to Nature's God."

COAL ASHES AS A MANURE.

But few experiments have been made by Amer- to a system of lasting effects. ican farmers, says a writer, to test the fertilizing. One is the scratching of the scab which approperties of coal ashes. While we are importpears on the surface, and for temporary relief; ing guano and other manures from foreign lands while the other is the cure of the disease which in enormous quantities, and at great expense, it produces the scab. may be well to employ substances nearer home, which are now neglected and cast aside as worth- tages, who ditches his grounds extensively. less. Thousands of tons of ashes might be obployed for fuel, which, when applied to the soil, died system of drainage. would doubtless greatly augment its productive coal oshes contain sulphate of lime, with some stood and practised them well.

Let us be thankful that we are born at least potash and soda, all of which are known, when among the appliances of civilization-that if it separately applied, to produce a good effect on

root, let us rejoice that this spot did not happen mer, may shed some light on the subject: The to be the summit of an iceberg. Yet in this cu- ground selected contained three perches (rods) rious ordering of nature, we see a wise purpose. of clover; the first had no manure, and produced Were it otherwise, the tendency would undoubtedly be toward the temperate portions of the which had not been exposed to the weather, globe, giving them an undue population, while were applied, the produce was fifty pounds; the rest of the world would be thinned of its in- on the third perch, one quart of plaster was habitants. One sees at a glance how the arts and sciences would suffer, and how many comterm of the company forts we should be deprived of, which flow di- manure was applied, which goes to prove that rectly from an intercourse with people of differ- this substance is a valuable fertilizer. Coal is said to be of vegatable origin; therefore, we can Doubtless some adventurous Dr. Kane would see no reason why its ashes should not contain still pay a visit to the North Pole, but if there and crops might be made by any farmer at a small the food of plants. Experiments on various soils were no human beings in that region, native to expense, as coal is employed as fuel in nearly

FARM DRAINAGE.

Everybody has heard of F. O. J. Smith, as one of the pioneers in telegraphing, as a politician who generally prophesies correctly, and a thorough going business man.

It may not be so generally known that Mr. Smith is, also, always interested in agricultural affairs, residing upon one of the most picturesque and beautiful estates in New England, known as Forest Home, near Portland, Me., where he amuses his leisure hours with his thorough-bred stock and the high culture of his broad acres. Thus he speaks in the Eastern Argus of Drainage, and Judge French's treatise on that subject.

A BOOK FOR FARMERS.

Of all departments of agricultural science, that which teaches the value, and best methods of THOROUGH DRAINAGE of lands for cultivation, special design. It is so in this case, and we be- has no rival in practical usefulness. No other is lieve it will always be found to be so, where our marked more distinctly in its results, when lisown limited faculties do not stand in the way of tened to and properly obeyed in its teachings. It is the base line of all wise agricultural improvement upon a major part of all lands on this con-

> Ditching grounds is the rude, superficial and temporary remedy of a positive evil.

Drainage is the perfection of ditching, reduced

That farmer has a good look towards advan-

But that farmer marehes far in advance of the tained in cities where coal is extensively em-first, who appreciates and executes a well stu-

In this country quite too little importance has powers. It is stated in "Faulkner's Farmers' been attached by farmers in general to either Manual," an English publication on manures, that ditching or drainage; although many have unall lands, all the fertilizing elements of nature, he should have failed. and of using them in exactly the best propor-

ments from an English paper:

Leicester, at Longford, in this country, which readable and interesting in its lively style and some years ago was occupied by Mr. John Sher-|manifold details. And she, too, may be left to the rat, and brought forth rushes in such abundance, struggles of a desolate widowhood, in the managethat the occupier gave leave to any body to carry ment of a heritage, until her youthful sons can rethem away, who would be at the trouble to mow lease her of the painful responsibility, and until them. Three years ago, the field was drained, then she will need to know how to instruct those under the direction of Mr. T. Harper Foster, and sons in the judicious modes which the father would this year, we are told, the present occupant, Mr. have pursued if present, first with this field and

the most complete, instructive, readable and en-lor in her solitude and cares.

world.

books extant, and substantially comprehending upon me, for commending it to him.

all other books on the subject. As the incidents of thorough drainage, and proper to be understood, the legal rights of flowage and drainage, pertaining to land owners -average annual rain falls; snows, dews, frosts, composition, filtration, absorption, and their affinities, are discussed and illustrated in a style clear to the eye whatever the pen might have the information in our possession. failed to render clear to the commonest understanding.

And, what is especially praiseworthy in an author, he has furnished not only an elaborate table of contents, but a capitally minute index, without which the best of books is only as a ligated candle under a half-bushel measure.

Judge French is himself a practical farmer as well as jurist, and a constant writer on the theories and practice of agriculture, being one of the

editors of the New England Farmer.

Besides personal practice and extensive reading and writing on this science, he has treated himself to extensive personal observation of the practice of others, in both our own and foreign lands. He visited Europe a year since with a special reference to his own improvement in his study and practice of agriculture.

With a mind naturally active, vigorous, search-

Most men have been inclined to seek lands for ing and discriminating-with an ambition to rencultivation that seemed to require neither ditch- de himself personally useful to others, concurivg or drainage. And yet, the most valuable of rently with a rational enjoyment of life-with an all lands for improvement and when improved, acquisition of advantages in education and sociare those which require these agencies, and ety tending directly to the success of these endraining in particular, and extensively. And for downents and personal aims-it would be the reasons that they are susceptible, under such strange if in attempting to produce a book rangsystem, of commanding, with most certainty of ing within the chosen field of his chiefest labors

He has not failed. And no man who obtains tions, and at the right times, and of throwing off the book and reads it will feel otherwise than rethe redundancies of each, as may be best for the joiced in the possession of it. No man owning growth, or support, or protection of the desired an acre of ground should be without a copy of it. It is the book for distribution by our Agricultu-As a marked and instructive illustration of the ral Societies as premiums at their shows. Even effects of drainage, I recollect of noting in my the housewife, who is privileged to learn by study readings some years since, the following state-in doors, what the prudent husbandman, and his sons and workmen, ought to understand how best "There is a field on the estate of the Earl of to execute out doors, will find this volume both T. Robinson, has cut three tons an acre of as then with that, to secure the greatest improvenice herbage as ever grew." ment and derive from it the greatest advantage. Judge Henry F. French, of New Hampshire, In all that relates to redeeming lands from the through Messrs. A. & O. Moore, Agricultural waste of a superabundance of waters, Judge Book Publishers, New York City, has produced French's book will be found a faithful counsel-

tertaining manual upon FARM DRAINAGE that. It is seldom I find leisure, or feel an inclinahas been given to this reading and progressive tion, to praise a book. It is generally labor enough to read them thoroughly. But I deem It contains a greater variety of details, of clear this production of Judge FRENCH so deserving, and comprehensive, practical and practised re- and so calculated to be useful to the agricultural sults, of rules, and of reasons of rules, and of community, I hesitate not to risk all the censures modes and agencies to be employed in this de- which any intelligent person who may procure partment of agricultural economy, than all other and carefully read it, may feel disposed to bestow

Frances O. J. Smith. Forest Home, Westbrook, July 27, 1859.

STATE FAIRS FOR 1859.

We publish below a list of the various Sta' alike entertaining and instructive, and more than and Provincial Fairs to be holden the coming one hundred engravings are interspersed to make fall, as nearly perfect as we can make it from

STATE.	PLACE.	TIME.
Alabama	Montgomery	November 15—18
California		Sept. 27—Oct. 6.
Canada West	Kingston	September 27—30.
Connecticut	New Haven	October 11-14.
Illinois	Freepart	September 5—9.
		Sept. 25—Oct 1.
Iowa	Occaloosa	September 27—20.
Kentucky	Lexington	September 13-17.
Main	Augusta	September 20—23.
Maryland	Frederick City	October 25—28.
	Detroit	
New Hampshire.	D: ver	October 5—7.
New Jersey	Elizabeth	September 13—16.
New York	Albany	October 4-7.
Ohio	Zanesville	September 20—23.
		September 27—30.
Southern Central	. Agricultural Societ	У,
		October 24—24.
St. Louis Agricul	tural and Mechanic	al Association,
		Sept. 26—Oct. 1.
	Nashville	
		September 12—17.
Vermont	Burlington	September 13—16

Wisconsin..... Milwaukie......September 26-34

For the New England Farmer.

AGRICULTURAL KNOWLEDGE.

doling it out in premiums, to a fortunate few.

Promoting Agriculture," which is a new series just issued, and I find that from its foundation, its managers have been zealous in getting agricultural knowledge in some form or other before the people; they resorted to such expedients as were available, which were widely different from the collection of such matter and resources for its dissemination now. It appears if there was that interest taken in the diffusion of agricultural knowledge at the present time, that there has been formerly, it would materially change the aspect of many rural homes. "Knowledge is Its effects have produced wonderful power." give it a new impetus. It may be said, we have a large number of agricultural works and newspapers; this is all very well, but it does not suffice. We want a system by which the community may be drawn together to have a talk, or hear occasionally a lecture on agriculture.

Winchester, Feb. 8, 1859.

REMARKS .- Certainly. We have given premiums a fair trial-let us now try something else. When you have got farmers to talk and compare notes among themselves, in public gatherings, you will at once inspire them with a new love and interest in their calling; and then they are in a condition to receive benefit from lectures, books, and the discussions of more scientific men.

For the New England Farmer.

UNDERDRAINING .-- MOWING MA-CHINES.

Mr. Editor:—I this morning visited the farm of Mr. Franklin Alley, of Marblehead, who, wherever he is known, is regarded as good auhis attention has been given. My particular obnow uses about half of it for the growing of veg- daylight, ready to defy the closest inspection." etables. On this he has laid about 3000 feet of by the extraordinary crop grown on his land, an account of which was given in our transactions.

Mr. Alley is a practical farmer, without pretensions, no mistake. While looking at his lands, I

"There is in the neighborhood of New York with the Buckeye Mower, moved by two horses. are made so closely to imitate the foreign, as to

I asked him which he preferred, a single or twohorse mower. He said he would not take a one-MR. EDITOR:—It appears to me that the son, if any one would give it to him. That one means of obtaining agricultural knowledge is not horse was not adequate to the performance of so easy as it ought to be. The State money which this work. This so entirely accorded with the is distributed annually among the several coun-impression that I had formed, that I was pleased ty societies, can and ought to be so managed that to hear it; and now mention it for the informaknowledge will accrue from it to the great mass tion of those who are willing to learn the best of the farming interests of the State, instead of mode of cutting grass-of which there is at present a prospect of so great an abundance. I do I have recently been perusing the pages of the not pretend to be an instructer myself, any fur-"Transactions of the Massachusetts Society for ther than I learn from good authority.

J. W. Proctor.

South Danvers, June 30, 1859.

LOOKING IN THE WINE CUP.

"Look not thou upon the wine cup when it is red, when it giveth his color in the cup, when it moveth itself aright. At the last it bitch like a serpent and stingeth like an adder."—Proverbs 23: 31, 32.

Hiram Cox, M. D., of Cincinnati, has made the following statement:

"I analyzed a lot of liquors for some conscientious gentlemen of our own city, who would not changes. May it be applied to the important science of agriculture in such a manner, as to sisted upon my bringing my chemicals and apparatus to their store, that they might see the operation. I accordingly repaired to their store, and analyzed samples of sixteen different lots. Among them were Port wine, Sherry wine and Madeira wine. The wines had not one drop of the juice of the grape. The basis of the Port wine was diluted sulphuric acid, colored with elderberry juice, with alum, sugar, and neutral spirits.

> The basis of the Sherry wine was a sort of pale malt, sulphuric acid, from the bitter almond oil, with a per centage of alcoholic spirits from brandy.

> The basis of the Madeira was a decoction of hops with sulphuric acid, honey, spirits of Jamaica rum, &c. The same week, after analyzing the above, and exhibiting the quality and character of the liquor to the proprietors, a sexton of one of our churches informed me he had purchased a gallon of the above Port wine, to be used in his church on the next Sunday for sacramental purposes, and that, for this mixture of sulphuric acid, rum and elderberry juice, he paid \$2,75 a gallon."

> Prof. C. A. Lee, of New York, makes the following statement:

"A cheap Madeira is made here, by extracting thority as any other man, on subjects to which the oils from common whisky, and passing it through carbon. There are immense establishject was to witness the improvements he has ments in this city where the whisky is thus made by underdraining. For many years the turned into wine; in some of those devoted to farm he occupies has been known as one of the this branch of business, the whisky is rolled in in most productive hay farms in the county. He the evening, but the wine goes out in the broad

Prof. Lee further states, "The trade in empty underdrains—on an average about 21 feet deep. wine casks in this city, (N. Y.) with the Custom By so doing, he thinks his crops have been House mark and certificate, is immense; the doubled. My attention was first called to this, same casks being replenished again and again,

saw about two acres of grass that had been cut an extensive manufactory of wine casks, which

deceive experienced dealers. The Custom House most every topic connected with agriculture and marks are easily counterfeited, and certificates

are never wanting."

"I have heard," says Dr. Lee, "dealers relate instances in which extensive stores had been filled with these artificial wines, and when merchants from the country have asked for genuine culture. The course of study at Westfield inwines, these have been sold them as such, with cludes, assurances that there could be no doubt of their purity."

The late Rev. T. P. Hunt, of Wyoming, Penn., wrote: "While I lectured in Philadelphia, I be-

came acquainted with a man who was engaged extensively in making wines, brandy, &c. Through my influence he abandoned the horrid traffic. He informed me, that in order to produce the "nutty flavor" for which Madeira was so much admired, he put a bag of cockroaches into the liquor and let it remain there until the cockroaches were dissolved. I have been informed by several that this is no uncommon practice. If any wine drinker doubts it, he can soon settle the question by experiment. Cockroaches are plenty, and many much more nauseous and poisonous substances are known to be employed by the makers and venders of intoxicating drinks. I the recipe for using cockroaches, but he gave it in confidence, and is now occupying a much more moral and useful station than that of poisoning his customers."

Says President Nott, in his admirable lectures, "I had a friend who had been himself a wine dealer, and having read the startling statements, some time since made public, in relation to the brewing of wines, and the adulteration of other the verity of these statements. His reply was: 'God forgive what has passed in my own cellar, but the statements made are true-all true, I as-

sure you."

"That friend," says President Nott, "has since gone to his last account, as have doubtless many of those whose days on earth were shortened by poisons he dispensed. But I still remember, and shall long remember, both the terms and the tone of that laconic answer, 'The statements made are true—all true, I assure you."

"But not on the evidence of that friend does the evidence of these frauds alone depend. Another friend informed me that in examining, as an assignee, the papers of a house in that city, which had dealt in wine, and which had stopped payment, he found evidence of the purchase, during the preceding year, of hundreds of casks of cider, but none of wine; and yet it was not cider, but wine, which had been supposed to have been dealt out by that house to its confiding customers."—Michigan Farmer.

an additional sum of \$5000.

horticulture. We have heretofore spoken of the Institution at Bernardston, Mass., conducted upon similar principles. These are among the encouraging indications of the progress of agri-

Recitations in Scientific Agriculture.

Agricultural Chemistry. Special Topics in Chemistry and Agriculture.

Theory of Fertilizers. Discussions of Questions relative to Crops, Modes of Culture,

Agricultural Implements, etc. Feeding and Treatment of Stock.

Directions for conducting Experiments in Agriculture.
Discussion of Agricultural Statistics.
Principles of Land Surveying.

Horticulture

Fruits and Modes of Culture. General Principles of Taste, with Applications to Landscape

Gardening and Rural Architecture. JOSEPH B. HOLLAND, M. A., Principal.

WORCESTER AGRICULTURAL SOCIETY. FORTIETH ANNUAL REPORT.

This report contains the award of premiums, statements of committees and competitors, the bywould give you the name of the person who gave laws of the society, and a list of the members from its origin. The premiums awarded amounted to \$979 50. There appears to have been a fine show of neat stock, and this is always expected in Worcester, for there is no finer stock to be found in the State, than in Worcester county. Horses were obviously a prominent feature at the exhibition, and nearly one-third of the whole liquors generally, I inquired of that friend as to amount of premiums awarded was for horses. Two premiums of \$50 each were given to one person for two fast horses! We notice, also, that \$331 were received for the use of the track. This we suppose was for a purpose not contemplated in the act incorporating the society, or for any thing that would tend to promote the art of agriculture. We presume, however, that the operations on the track were not carried on under the immediate supervision and patronage of the society, but only with its knowledge and consent, and the society, must therefore share in whatever credit and honor may be attached to them.

We notice that the society has a heavy debt of nearly \$16,000, the interest on which absorbs a large portion of its income. We fear it will be a long time before the profit derived from the track will pay this debt. We believe the true policy of all our societies is to invest as little as may be in real estate, and keep their funds so in-WESTFIELD ACADEMY.-We notice this insti- vested that they will yield an annual income, tution with pleasure because it has an Agricultu-|which may be used for the legitimate purposes of ral Department. The late Stephen Harrison, the organization. When money is invested in (we will cherish his memory,) of Westfield, be-buildings, insurance must be paid, and they conqueathed \$5900 for endowing this department, stantly require repairs, which absorb no small and the town, with great good sense, contributed portion of the income of the society. A cheap, substantial hall, that will accommodate the exhi-The course of instruction in this department, bition, when suitable accommodations cannot be we learn, is eminently practical, and includes al-|procured in the immediate neighborhood, is justi-

of buildings, fixes the annual meeting at the earnest solicitation to participate in the benefit, place where the estate is located, and however simply by remitting a small sum in advance—but time passed on, and the bugs with it, and I gratifying it may be to the people in the imme-have heard nothing of them since. I have a diate vicinity, leads to the division of county so-strong suspicion that the bug discovered was of cieties into district societies. This has been the the humbug order; whether it will be found in case in Worcester and Middlesex, and will be the the latest work on insects, I am not able to say. case in other counties, whereas, if the annual their entomologist from Christian Hill, in Andoexhibitions could be held alternately at two or ver, will be able to tell us about it, when they three towns in the county, the county societies next publish a treatise on onion maggots. **.*. might continue unbroken, and have strength and friends enough to devise and execute many useful and efficient plans for the promotion of agriculture, which cannot be accomplished under the existing order of things.

EXTRACTS AND REPLIES.

WHITE SPECKS IN BUTTER.

written by Henry Holmes, on "White Specks in and fresh, it presents a disgusting appearance; Butter." I never manufactured or sold churns, has the small red insect called lady bug anything but have used churns more than forty years; I to do with it? Will you please inform me have had white speeks in my butter, but it was through your paper what it is, or what comes not caused by uneven churning, or by scraping from it? down the cream while churning. The cream should be put down as soon as it thickens, and before the buttermilk appears, or you lose the ing across the pans. Since I altered my milk-occasions its singular appearance, room, and put on a blind to prevent the wind from blowing directly across the pans, I have got rid of the dried cream. If your cream is dried, you can soak it in the cream-pot and pre-vent the specks in the butter; it should be scriber" asks what will exterminate cockroaches, soaked twenty-four hours before churning, and In reply—Equal parts of dry red lead and sugar, stirred well, and if thick, some milk added to well mixed, is a certain and sure exterminator of soak it; but if you churn it as soon as skimm-d. cockroaches, black and red ants, and other like in Fyler's churn, or any other churn, you will pests. have white specks in the butter.

AN OLD FARMER. Montpelier, Vt., July 4, 1859.

A YOUNG NON-BEARING ORCHARD.

I have a young and thrifty orchard, from which I receive little or no fruit. The trees are about 12 inches in diameter, and in a rich soil, facing the sun; the ground has been cultivated every year and a crop taken off, since the trees were set, 12 years ago. As trees in good bearing yield, I have enough for one hundred barrels of apples. What can be done to procure a crop of apples? Will you, or some of your correspondents, answer this question?

Remarks.—Hard to tell you. Let it go to grass two or three years, clover, and then plow it again shallow, and see what the result will be.

MR. REED AND HIS BUGS.

In the summer of 1858, my attention was arrested by the grand microscopic discovery made by Mr. Lyman Reed, of Baltimore, of the bug that destroyed the potato. I received from him the good opinions he expresses for the Farmer.

fiable. The purchase of ground and the erection notice of his patent right for the remedy, and an

REMARKS .- We know Mr. Reed, and believe him to be an ardent and sincere inquirer after

EGGS OF INSECTS ON GRAPE VINES.

I herewith send you by a friend, a small slip from my grape vine, cut in March last. It contains, as you will perceive, either an insect, or the larvæ of some insect. My vines have, for some I noticed in the Farmer of June 11, an article years, been nearly covered with it. When plump

Lynn, July, 1859.

REMARKS.—We are unable to shed any light cream, but it will not cause white specks in the upon the inquiries of our correspondent. Sever-butter; dried cream is the cause of white specks, al persons have examined the piece of vine sent, It is dried in summer by a current of air blow- but without giving us any knowledge of what

TO KILL COCKROACHES.

TO "OAK HILL"-PINES AND DUCKS.

For the information of "Oak Hill," please say the best time for transplanting the pine, spruce, &c., is from the first to the middle of June. The same care is needful in transplanting them as in other trees.

He will obtain the Muscovy ducks he inquires for by sending four dollars for the three to South Wilbraham, Mass. NELSON MOWRY.

GRASSES.

Will you please give me the names of the enclosed grasses? E. T. WHEELER. Berlin, Mass., 1859.

REMARKS .- The parcel marked "No. 1," is the true Fowl Meadow Grass. "No. 2," is the Italian Rye Grass. "No. 3," is the Blue Joint. "No. 4," is a grass entirely unknown to us.

GOOD OPINIONS.

Thanks to "O. P. I.," Pembroke, Mass, for

For the New England Farmer.

CORN AND CORN FODDER.

In the monthly Farmer for March is an article on "Corn and Corn Stalks," by W. Baeon. fully endorse his preference for the "old fogy" way of topping the corn, both on account of the er, the corn crop, from improved cultivation, has grain and the fodder, and also the labor of har-continued to improve, until reports of 80, 90, or vesting.

I have tested the matter to my entire satisfaction by cutting up at the roots and shocking at part of my corn each year for several years past. some of our most talented poets, but even a way" may be advisable, but in all other cases I much prefer that my corn should ripen the "natural way."

I place a high estimate upon the value of corn fodder for stock, and much has been said and written upon the best mode of curing it. The .. ay which I prefer and practice is this :-- when the tassel has become dry and the kernel well Apple-Tree Philosophy-Should Seed be Planted where the glazed, I cut off the stalk above the ear, laying the stalks of two hills together. When wilted I bind and pike them in the field, letting them re-speculations of several correspondents of the main, if the weather be favorable, ten or twelve Farmer, who seem to be devoting particular atdays, then cart to the barn, hanging them on tention to the subject of fruit culture. I, too, poles or setting up under the roof.

in this way, than if hung up in the barn as soon ple-tree philosophy. as bound, or if dried wholly in the field.

salt them freely.

er and exposed to the weather the usual time al-lards. lowed in such cases. Perhaps it is because they than that which is topped.

that it is better to feed out all the corn stover in peculiar condensed cellular texture of wood and early winter, to the exclusion of other fodder. bark which was at first the result of slow growth. Fed out exclusively it is too laxative, and noth-When an apple seed germinates and sends forth ing but the husks will be eaten; but a few fod- its first leaves, or perhaps the first ten or twelve derings a week, from November to April will leaves, it has a tender herbaceous stalk, and if tend to keep the bowels of the cattle in a loose the soil or culture force the growth, while in this and healthy condition, especially if you have state, the sap cells become large, and when the much straw or poor hay to feed out. A few corn stem hardens to wood this peculiarity is prebutts, through the winter and spring, occasional-served and transmitted to every succeeding part ly, will be chewed with a relish.

that the well secured fodder from 150 to 200 fruit of different average size and flavor from bushels of corn, fed out judiciously, to a stock of those which are raised in another nursery. Nur-25 head, is nearly as valuable as an equal weight series which are not forced the first year will proof medium quality hay.

turn crop can hardly be overestimated. It is a than the average of forced nurseries.

heard my mother remark that she looked upon that first crop of corn, when in the field and in the chamber, with more satisfaction than upon any succeeding crop, though many times as large. While many of our crops, from causes known and unknown, deteriorate as the land grows oldeven 100 bushels to the acre, have ceased to create surprise.

"The golden corn" has drawn inspiration from When severe frost is apprehended, the "new Longfellow cannot give it a richer dress than its own bright hue.

Royalston, July, 1859.

For the New England Farmer.

LETTERS FROM MAINE --- No. 3.

Tree is to Grow, &c.

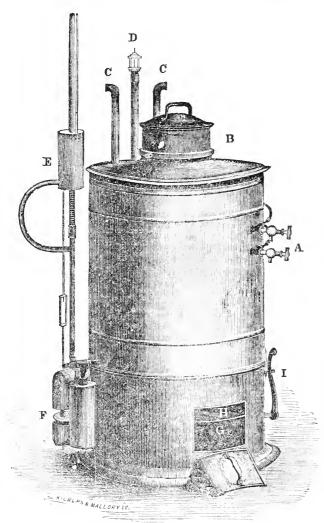
I read with much interest the observations and would show my opinion, and propose in my pres-I find that my cattle eat them better if cured ent communication to discuss the subject of ap-

One writer contends that apple trees ought to As I husk my corn mostly evenings, I begin so be planted in the seed where they are designed early in the season that the husks and butts to grow, as transplanting injures the tree and would mould too much, if I did not mix with makes it shorter lived. This theory he supports them a quantity of straw or poor hay. I also by the fact that trees which came up accidentally by the sides of fences, &c., prove to be more My cattle being judges, the fodder is better healthy and longer-lived than those which are cured in this way than when all is cut up togeth-raised in nurseries and transplanted into orch-

I will not dispute the fact alleged, but I will have failed to "get the hang of it," which I am account for it in a different manner. Trees which sometimes told is the reason why I think the la- come up accidentally in the situation alluded to bor greater to harvest corn which is shocked, grow very slowly for a number of years, and al' slow growing trees are hardier than those which While I agree with your correspondent in so grow more rapidly. Even if such trees, after a many things. I must dissent from his opinion while, become rapid growers they preserve the of the tree, and even to the fruit. Hence the From my own experience I am led to believe fact that trees from some nurseries will produce duce trees of firmer wood, slower growth, hardi-It is often and truly said, that the value of the er character, smaller fruit, and fruit of finer grain

native grain, and, on a large proportion of our Will not this account for the longer life of apsoils, the surest crop which can be cultivated. ple trees which originate under disadvantageous The farm on which I have always resided, was circumstances? Another cause may likewise have purchased by my father when covered with its a share in producing the effects under considerantive forest. He was told that he must not extended to the management of the mechanic knows that "pasture oaks" ect to raise corn; and when, after a few years, -as lone trees growing in fields and pastures are he ventured to plant a small patch, and succeed-sometimes called—make tougher timber than ed in raising fifteen bushels of ears, he felt that trees taken from groves. The firmer texture of his land had an unexpected value. I have often the wood is the result of the shaking and bend-

NICHOLS AND INGALL'S PATENT STEAM WARMING APPARATUS.



same characteristics; and I believe the fact is now generally conceded, that orchards planted in situations exposed to the winds are longer lived and better bearing orehards than those which are fect ease. located in sheltered situations. At least, I think this is the case in high northern latitudes.

SANDY RIVER.

Truth is the most powerful thing in the world, since even fiction itself must be governed by it, and can only please by its resemblance. The appearance of reality is necessary to make any passion agreeably represented, and to be able to move others, we must be moved ourselves, or at least seem to be so, upon some probable grounds.

Within the extended circle of our readers there is a large class of persons living in cities, or populous towns, who are not farmers, and who use coal, principally, as fuel. This class, probably, numbers some thousands. They are among our prompt and steady supporters, and we feel inclined to say and do something occasionally for their especial benefit. In noticing the Steam Heater, however, we are far from believing that it may not yet be introduced into a large number of farm-houses, heated with wood as fuel, and keep the entire house warm with a less expense than is now incurred. We had it in use all last winter and spring until warm weather, and enjoyed the luxury of a tropical climate, if we desired it, or kept the house at any temperature we pleased. For warming three rooms, each fifteen feet square, and a little more than nine feet high, three rooms of the same size and eight feet high, and two halls, each thirty feet long, we used 5t tons coal, at a cost of about \$40,-and we think this more than would have been required, had we thoroughly understood how to manage it from the first. During the extreme cold of the eleventh of January, when the thermometer fell to 22° below

ing which the tree receives from the winds in zero, no more coal was used than usual, but the its exposed situation. Apple trees which stand rooms on the north side of the house were shut alone or in exposed situations will possess the up, so that the halls and chambers in use could easily be kept up to 60° or 65°, and the sittingroom which the family occupied to 73°, with per-

It is simple in its construction, and in no way more liable to get out of order than a common stove. It is self-feeding, both as respects a supply of coal and water, and controls the air-draft promptly and perfectly. There is not a single pulley, float valve, chain or pump connected with it, and there are no tubes, flues or valves in the boiler to become obstructed or get out of or-

The apparatus is as portable as a house stove,

as may be desired. It requires no more than the shade in a hot summer day. ordinary skill in its management, and may safean air furnace.

It receives a supply of fuel in the morning sufficient for twenty-four hours, and the steam man, Perham & Co., 8 Charlestown Street, Bosdoes not vary in amount night or day.

The steam is condensed in the radiators in the rooms, and runs back to the boiler through the same pipe that conveys it from the boiler. If there is no escape of steam or no leakage, the same water put into the boiter in the autumn will be found there in the spring, undiminished in quantity. There is a simple device for feeding water, if it is wanted.

The amount of fuel required is very small, not more than half the amount used in hot air furnaces.

EXPLANATION OF THE CUT.

A, are the water cocks to show the height of the water in the boiler.

B, the fire pot. The fire is built in the boiler, by taking off the cover at B, and putting in

C C, are pipes for conveying steam to the radi-

D, is a safety valve.

E, a water vessel sliding upon a tube to open and close the air-draft valves at F.

G, shows the position of the ash pit.

H, an opening into the space around the boiler. I, the handles to the grate.

It is not so much our purpose now to speak of the advantages of this arrangement in regard to health as to the economy of the matter; but the great superiority of steam heat over that got by stoves or hot air furnaces, is very generally understood and conceded. Health and safety ought to be the first consideration,-but a saving of dollars will be, by a majority.

A six months' use of this steamer has convinced us that we can save the whole cost of the apparatus in a few years in the item of fuel alone. Then there is a great saving of time, as it does not require half the time to fend it to warm the whole house, that it does to tend a saving is in sweeping. There is no dust from it, either of ashes or coal, so that very little sweeping of carpets or floors is required.

hurtful to it. When the thermometer stands at great fear they manifest in their uneasiness. A 70 in the room, the air has a cool and fresh feel-litter of pigs at sea, are as valuable as a barom-

and can be put up in a basement, hall or parlor, ing, like that blowing upon a person standing in

Those who are building may introduce this .y be intrusted to servants who can attend upon steamer at a very cheap rate, as but one chimney will be found necessary in the house.

For further particulars inquire of Messrs. Bra-

THE NEW MOWN HAY.

BY CHARLES MACKAY.

When swallows dart from cottage eaves, And farmers dream of barley sheaves; When apples peep amid the leaves And woodbines scent the way-We love to fly from daily care, To breathe the country buxom air-To join our hands and form a ring-To laugh and sport-and dance and sing, Amid the new mown hay.

A stranger comes with eyes of blue; Quoth he, 'I'm Love, the youth and true; I wish to pass an hour with you,

This pleasant summer day." "Come in! come in! you saucy elf! And who's your friend "" "Tis friendship's self." "Come each-come both, our sports to share; There's welcome kind, and room to spare, Amid the new-mown hay."

The ring is formed; but who are these? "Come, tell your errand, if you please; You look so sour and ill at ease,

You dim the face of day." "Ambition!" "Jealousy!" and "Strife!" And "Scorn!" and "Weariness of Life!" "If such your names, we hate your kin; The place is full, you can't come in Amid the new-mown hay."

Another guest comes bounding by, With brow unwrinkled, fair and high-With sun-burnt face and roguish eye,

And asks your leave to stay. Quoth he, "I'm Fun, your right good friend!" "Come in! come in; with you we'll end!" And thus we frolic in a ring-And thus we laugh, and dance, and sing, Amid the new-mown hay.

For the New England Farmer.

INSTINCT OF ANIMALS.

Messes. Editors:—For the specimen of your valuable paper under the new firm, I thank you. Most animals have some peculiarities indicative of a change in the weather, beside the grass-eating dog. The goose, for instance, that usually stove to warm a single room! Another item of may be found sitting about the farmer's door, in the summer time, in pleasant nights, however pleasant the afternoon and evening may be, if it is to be rainy or stormy before morning, will most certainly take shelter. Yet they have not It is ornamental, durable, economical, abso-the least idea of perpendicular distance, for they lutely safe, as it is impossible for it to explode, will quite as lowly bow the head in passing unand gives an elastic, wholesome air to breathe, der the great doors of the barn as under the lowwarmed up to 65° or 75°, without depriving it of any of its vital powers, or adding anything and quite surely before a thunder storm, by the

ones, abound in advertisements of artificial ma-the hand-hoe, as must necessarily be done if the nures—they are well enough for use in the vi-cultivator is used only one way of the field. cinity of large cities, where manures, proper, cannot be so well made; but for the country, where fields that where they happened to run out at farming is pursued as a business, to make it either end in a long triangular point, so that the profitable, the fertilizers used must be made up-narrowest part was too narrow to bother with on the premises. AGRICOLA.

Augusta, Maine, July 10, 1859.

For the New England Farmer.

CULTIVATION OF CORN AND OATS.

BY FREDERICK HOLBROOK.

Benefits of Cross Cultivating-Effects of different Fertilizers-Corn not calculated to follow Turnips or Buckwheat—Guano for Oats-Oats and Grass-Guano on Grass.

My Friend Mr. Brown:—I have been looking about in the fields here to-day, observing the modes of cultivation, &c., and now send you a few notes about such things as most interested | iy, and make it stocky and stout.

me in the course of my tramp. In passing through five or six cornfields, I was which have a dressing of superphosphate of lime impressed anew with the advantages one derives in the hills. My neighbor, R. Bradley, Esq., most serviceable to the crop. So far as I can in size with that which had a more favorable form an estimate, from considerable particular starting. observation of the effects of cultivating or thorsaving of expense in cultivation will be consider-by-and-bye.

eter,—and at the end of the week, more so, as the they serve as a fresh mess for poor Jack. able by working the land both ways, with the horse and a good sharp cultivator, rather than by Most of the papers, particularly agricultural digging so much between the hills of corn with

I have repeatedly observed in my own cornso short rows crosswise the field, and therefore this end was only worked with the horse and cultivator the long way, while the rest of the field was worked in rows both ways, the corn on the narrow end would not grow so fast the first of the season, nor yield so large ears at harvest, as that on the rest of the field.

Notwithstanding the fine theory that may be stated as to the advantages of level cultivation of the ground for the corn crop, I must still say that I do like good broad hills,-especially, if the land is inclined to pack, or to crust over. A well shaped, mellow hill, not raised too high and peaked, operates to send the corn forward rapid-

Several corn-fields have been examined to day,

from having the rows of corn marked out both has several acres of corn, dressed with a heavy ways of the field, so as to use the horse and culti-coat of manure, broad-cast, and a table-spoonful vator each way between the rows, at hoeing time. of superphosphate in each hill. His corn is large Indeed, if the land gets foul with grass and and vigorous for the season, and of splendid colweeds, or is at all inclined to be heavy and to or. On one field he used superphosphate in a pack close, or to crust over after a rain, the horse part of the hills, unleached ashes in another part, and cultivator may be advantageously used twice and plaster in the remainder. That portion of in a row, each way, at each hoeing. By using the the corn dressed with the superphosphate is dehorse and cultivator thus thoroughly, the land is cidedly superior in size and color to those porworked up fine and mellow, the labor of hand-tions dressed with ashes and plaster; and it aphoeing is very much lessened, and the young pears now as if this superiority might hold out corn grows all the more rapidly, and is more through the season. Coe's superphosphate was "stocky" and healthy, for having the soil thus used. It seems to be a very strong manure, and completely stirred up and its particles changed needs a good covering of earth before dropping about and mixed anew, or if the manure is near the seed-corn over it. Occasionally, in a hill, the surface, within reach of the cultivator, having that stirred about and brought in contact with other or different particles of the soil. The horse was dilatory about coming up and growing, at and cultivator can do very much more for the first,—the superphosphate being in too close concrop, in the way of mellowing and enlivening the tact with it and eating off the little tap roots as soil, and effectually rooting up grass and weeds fast as they shot out. But at length the lateral between the hills, than can be done by man with roots pushed out beyond the superphosphate, the hand-hoe. The hand-hoe is indeed quite and the ground also absorbed and modified its necessary for dressing out the hills and shaping qualities, so that the downward tending roots the earth properly about the young corn-plants, could run through it, and now the corn in these out beyond that the horse and cultivator are the hills is growing well, and may perhaps catch up

I next came to a corn-field of my own, well oughly stirring the ground, I am inclined to manured broad-coast, and in addition dressed think one may realize from five to ten bushels with a shovel-full of manure in each hill, on half more of corn to the acre, by the thorough use of of the field, and a table-spoonful of superphosthe horse and cultivator between rows running phate in each hill on the remainder. The corn each way of the field, than he would obtain if he has been cut pretty hard by frost at three differworked the land only one way, all other things, ent times; but it has survived all hindrances, and as to land, manure, &c., being equal. The gain is now growing fast. On the half that has suin the crop by thoroughly working both ways, perphosphate in the hills, the corn is taller and over what could be realized by working only one of a deeper green color than that which has the way of the field, will be somewhat in proportion manure in the hills. This goes to show that the to the natural tendency of the land to pack close- superphosphate has the quality certainly of forely and crust on the surface, or to bear weeds and ing the corn along fast through the first of the grass between the hills. In any case, however, season. Whether it will hold out in good works let the character of the land be as it may, the as well as the manure, can be better determined

growing well.

planted on the superphosphate and plaster has fact as now stated. rather the deepest green color. As a whole, Mr.

promise of a fine crop.

corn forward vigorously.

is not likely to cut off the young tender corn-by-and-bye. roots in the hill; and the muck, which is a superior more than about a moderate table-spoonful of su-harrowed them in; then sowed grass seeds liber perphosphate in each handful of the compost. Per- ally and rolled them in. The oats made a greahaps even a smaller quantity of superphosphate growth, and the catch of grass was perfect.

year produced root-crops—a part potatoes, a likely that six pecks would be still better. Th

Mr. CHARLES LAWRENCE has three acres of part carrots, and the remainder turnips The land corn which is well manured broad-cast, and has is of uniform quality, and well and equally mana table-spoonful of superphosphate in each hill, ured, broadcast, this spring. There is not much The corn is of good size for the season, and its difference in the growth and color of the corn on color as good as can be. Here, too, Coe's su-the portions of the field which last year produced perphosphate was used, and there are occasion-potatoes and carrots, though perhaps the corn ally hills where it came too near the corn, delay- after carrots looks rather the best. The corn afing its growth at first, the same as in Mr. Brad- ter turnips, however, is small and pale as comley's field; but the roots have at length got pared with that on the other portions of the good foothold, and the corn in these hills is now piece; and from former experience, I should incline to expect that this inferiority may be seen I next looked at Mr. Rufus Pratt's corn-throughout the season. So far as I know, corn field, which also is manured well broadcast, and does not follow either turnips or buckwheat very on a part of the field the hills are each dressed well. Manure the land ever so well for corn, the with a shovelful of rotten manure, and on the re- year after it has produced either of these two mainder with a table-spoonful of a mixture of crops, and you will not get as large a crop of Mapes's superphosphate with plaster, about half-corn as though the land had not borne the tur-and-half of each. Here the corn planted on the nips or buckwheat. I shall not attempt to give compost manure is the tallest as yet, but that the philosophy of the thing, but have found the

I have been looking at Mr. BRADLEY's fine Pratt's corn stands remarkably even, and gives field of oats of six acres. Last year the land produced a light crop of corn. This spring it I next examined Mr. Rufus Clark's corn. was plowed and two hundred pounds of guano, He has several pieces which are dressed in the and two bushels of oats were sown on each acre hill with a compost of Mapes's superphosphate and harrowed in each way of the field. Then thwith old rotten muck, a handful to each hill, and land was stocked with sixteen pounds of red about a table-spoonful of superphosphate includ-clover seed to the acre, and the surface smoothed ed in each handful. The land is also manured with the roller. I have not seen so good oats broad-cast. He has also one or two pieces with for size and color, nor so thick and perfect a a shovelful of manure in each hill, instead of catch of clover, on any other land this season. the superphosphate and muck. As a general thing, the corn planted on the superphosphate prove a very profitable investment. On a few and muck has a deeper green color than that on rods at one corner of the field, the guano was the manure, but there is little or no difference omitted, and the oats and young clover here between the two as yet as to size of stalks. On look very inferior, every way, as compared with one of the fields the superphosphate and muck the growth on the rest of the field, where the mixture was omitted in two of the rows of corn, guano was applied. The design in thus treating while the remaining rows had a handful in each this field, is to get a good crop of grain this year, hill. The corn in these two rows is quite small if possible, and to fill the soil well with clover and pale, as compared with the rest of the piece, roots; then to mow off the first crop of clover and shows one, at a single glance, the value of next year, and plow under the second crop, the the dressing in the hills, for starting the young roots and stems of which, together with a good coat of manure, to be applied the following Mr. Clark's practice of mixing superphosphate spring, it is thought will enrich and enliven the with dry finely pulverized muck, appears to me land, and bring it at once into a high state of to be an excellent one. The superphosphate, thus cultivation for a crop of corn. I shall, perhaps, diffused and modified by mixture with the muck, have something further to say of this experiment,

I have a piece of land, of a light, loose, sandy absorbent, imbibes enough from the superphos-soil, which formerly bothered me a good deal phate to sweeten and prepare it for use, and thus when I wanted to lay it down to mowing after it furnishes a little finely pulverized vegetable food had been taken up, well manured, and planted a to nourish the young corn, and makes a little year or two. It would bear great corn, and good mellow hill or place for the roots to work in oats or other grain, but the grass would not catch The proportion of muck to superphosphate may well. Finally, the last time it was seeded down, I be such as to enable one to use say a large hand- sowed two hundred and fifty pounds of guano, and ful of the compost in each hill, and not include one and a half bushels of oats to the acre, and

would have a marked effect on the corn, espe- If one wishes to seed a rather uncertain piece cially if the mixture was made up a week or two of land to grass in the spring, with an oat crop previous to planting time, and the compost kept let him put on, say two hundred pounds of guan. in a dry place, under cover. The older, drier to the acre, harrowing it in well with the oats, and more finely divided the muck is, the better and sow the oats thin, so as to give the young the superphosphate will mingle with it, and the grass a chance to breathe, and he will be pretty better, every way, the quality of food the compost will make for the young corn. sure of a great crop of oats and a good stand or grass. I should not sow over seven pecks of I noticed, to-day, a field of corn which last oats to the acre, on such land, and it is quite

oats will tiller out very much at the root, under more than one season out of twenty, in which we the stimulating effects of the guano, so that from cannot obtain with certainty, so far as climate of thinly sowed oats of my own, and in pointing out to other persons how remarkably the counted from eight to twelve stalks growing from one seed oat. The young grass, also, is coming along among the oats just to suit me, and gives where the annual income is not less than \$4,000 promise of making a good mowing-field.

A friend called my attention to-day to two little patches of grass in his recently seeded lawn, n which he sowed guano about ten days ago, omitting the guano on the rest of the plot. The large farm can raise just as much corn or wheat effect of the guano is very marked, the grass being much thicker and greener on these patches

than in other places.

I have several other little matters to tell you about some time, but this epistle will do for now. If one could write out these details as well as he too much, and loses profit on the whole. Slight can observe and think about them of a fine day in the field, there might be something done. But the mind will not always wait for the slow operations of the pen, and thus some of the best observations are often lost in writing.

Brattleboro', June 29, 1859,

DOING TOO MUCH WORK.

deal of work,-we think, in many cases, too much, store and goods exhaust all the income, and he but have not so regular a habit of doing it well. grows poorer and poorer as each year rolls away. Whether the greater profit is to be found in ac- While the farmer practices this kind of economy, complishing a large amount of work indifferent- he laughs at the poor merchant or manufacturer ly, or of doing less, and in a better manner, is who is daily exhausting his means by it. The the question for each one to settle for himself, phrase has passed into a proverb, "that we under--for it is the profit we are seeking, not quantity take too much for our means," and still there are or quality, only as profit is concerned. Any per- few who do not err in this respect. We forget son may decide this question with the slightest the actual cost of travel, plowing, harrowing, arithmetical aid, by ascertaining the precise cost seeding, cultivating, hoeing and harvesting twice of raising sixty bushels of corn on a single acre, as much land as is necessary for a given crop, and then of raising the same amount on two acres and pursue a course which five minutes' investiof the same kind of land. If the corn on the gation will show us is fatal to our profits. one acre costs fifty cents a bushel, he will find that on the two acres it will cost him seventyfive cents a bushel at least,-making a loss of one-third in producing an equal amount of prodican farmers, says a writer, to test the fertilizing uce for the market! It will require skilful man-properties of coal ashes. While we are import-

a great many farmers do too much work. They are anxious to cultivate quite a number of acres, beginning all the time that from such a head of the such as the such acres. Thousands of tons of ashes might be obhoping all the time that from such a breadth of tained in cities, where coal is extensively emland under cultivation they must reap a large ployed for fuel, which, when applied to the soil, reward. But hoping is one thing, and a critical would doubtless greatly augment its productive calculation, based upon well-known facts, is another. They must go hack to the illustration that coal ashes contain sulphate of lime, with of the two corn-fields.

one grain, or seed oat, there may be four, six, eight or ten stalks, bearing each a good head of grain, while at the same time the surface of the ground is open, so that the young grass can get which has now dawned upon every department of a good foothold and grow well. I have been farm labor. The experience of thousands of wise much interested this season in observing a field men is spread before every person who can read, so that the profit of the same amount of labor grain is branching out from the root. I have ought to be twenty or thirty per cent. more than

to \$6,000,—and with farms of 100 acres, where the annual cash income is scarcely twice as many dollars as the number of acres! A man on a per acre as a man on a small farm. He ought not to feel obliged to cultivate land merely because he owns it. Herein lies the error. Like the boy with the oranges, he attempts to grasp manuring and poor cultivation, on an extensive breadth of land, is like the management of the merchant who builds a large store, and fills it with rods of shelves upon which he places only a few goods. He must remain there and superintend it, and at the call of every customer travel four times as far as he ought to, in handing down the goods wanted,—so that his own superintend-Our farmers are accustomed to doing a great ence and the interest on the capital united in the

COAL ASHES AS A MANURE.

agement in selling to make up such a loss as this. ing guano and other manures from foreign lands This is what we mean in saying that we think in enormous quantities, and at great expense, it some potash and soda, all of which are known, In New England, we believe there is scarcely when separately applied, to produce a good effect

on clover crops, and to constitute an important

part of the food of all grasses.

The following experiment by an English farmer, may shed some light on the subject: The round selected contained three perches of elover; the first had no manure, and produced thirdular two-year olds to three, in the Boston ty-eight pounds when cut in full head; the sectoral market? The reason I inquire is, I never ond, where four quarts of sifted coal ashes, which notice any change in the prices in the spring of perch, one quart of plaster was sown, and the Now if cattle that were two years old last spring crop weighed fifty-four pounds. It will be seen are worth from \$22 to \$26, we farmers want to that the ashes increased the clover nearly one-know it, for the drovers will not pay us over \$14 quarter above that on which no manure was ap- to \$16. plied, which goes to prove that this substance is a valuable fertilizer. Coal is said to be of vegemeadow grass? Will it kill it out to cut it early?

THE GARDEN AND THE PORK BARREL.

A notable housewife, who presides over the culinary department of her household with "dignity and grace," as well as with remarkable skill and prudence, said to us the other day, "Why, we get half our living from the garden and the pork barrel for four or five of the summer and autumn months." We had been speaking of the advantages to be found in a good garden, not only from the edibles themselves, but from its associations, and the pleasant remembrances which even a good kitchen garden leaves upon the mind.

good things grown in the garden, when seasoned to seed, to be cut, threshed, and the seed scatwith a piece of corn-fed pork eured in the New tered over the whole meadow at a proper time? England manner. What a variety of vegetables In this way you would be likely to secure both may be had, beginning with the asparagus, and objects-get good hay and re-seed the land. then the new potatoes in the last of Jane, followed by the peas, beans, squashes, turnips, cabbages, beets, onions, earrots, egg plants, parsnips, green corn, eucumbers, &c., &c. Why, the or four years old, and no sheep to feed them to. mouth of an epicure might water at the recital of Will it pay to have them ground for my pig or such an array of good things. Depend upon it, brother farmers, there is nothing that spends so profitably, so economically—and at the same time that gives so much sound health and strength in the family, as a barrel of good sweet pork, and plenty of tender and succulent garden vegetables.

Braiding Straw .- At the meeting of the Rhode Island Historical Society, last week, it was stated that the braiding of straw in this country was first begun in Providence, in 1798, by satin.—Scientific American.

EXTRACTS AND REPLIES.

YEARLINGS AND TWO-YEAR OLDS-WILD GRASS IN MEADOWS.

1. When do yearlings change into two-year nad not been exposed to the weather, were ap- the year. For instance, two-year olds have plied, the produce was fifty pounds; on the third been quoted from \$22 to \$26, since last fall.

table origin; therefore, we can see no reason why What little experience I have had, tells me it its ashes should not contain the food of plants. will, although I have never heard the matter dis-Experiments on various soils and crops might cussed in this part of the country. While travbe made by any farmer at a small expense, as elling in the West a few years since, I often coal is employed as fuel in nearly every town. heard the remark, "that it kills out our low marsh grass to cut it early, or before the seed is We all know very well, that the hav made from such grass is much better if cut early -but there are two sides to the question.

> REMARKS .-- 1. Yearlings remain yearlings until they are two years old, and two year olds remain so until they are three. We believe this is generally understood by eattle dealers, as we have stated it above.

2. The proper time to cut grass, in order to secure the best hay from it, is generally supposed to be when the head is in full blossom; but if the crop is cut at that period continuously for several years, many kinds of grass will certainly run out. Our opinion of the matter is "Half our living,"-and the family was a large much like yours. In order to obviate the diffine. So she enumerated some of the excellent eulty, would it not be well to cut most of the linners which she is enabled to prepare from the grass when in blossom, leaving a portion to go

BEANS FOR STOCK.

I have some four or five bushels of beans three cow, and how much should I feed at a time?

Forestdale, Vt., 1859.

REMARKS-Certainly it will, and pay we' Feed them to either about as you would corn meal. They have about the same amount of nutritive matter that rye has. They are used in large quantities in England for other stock than sheep-for horses, especially.

"CAUGHT A TARTAR."

A correspondent from Media, Delaware Coun-Mrs. Betsey Baker, daughter of the late Joel ty, Pa., writes us some strange incidents in the Metcalf, and now residing in Dedham, Mass. The conduct of game fowls at that place, kept in the first bonnet she made was of seven straws, with game chickery of Dr. J. W. Cooper, author of a bobbin let in like open-work, and lined with pink new work on game fowls. A few days ago, while a little boy attached to the family was passing

through the chickery, he was set upon by a voice when he crows, and when he answers their large game rooster of the Tartar breed, and so cackling. It would be too bad to keep poultry in upon by a large hawk. The mother bravely at- and continue to lay almost every day till moult-tacked this "fell destroyer of all poultry," and ing time, say September 20th. They are nearly so disabled him as to make his capture easy. Media, July 8, 1859.

BUSINESS AND CROPS IN RYEGATE, VT.

I never knew such a busy time in this part of the country before. Every thing and every body your friend will not continue his absurd doctrine has been busy; first the elements, rain, wind and of celibacy, jack-frost. The litter was round, at least, on the morning of the 5th inst. It did no injury, however, except on very low land; some potatoes and beans were killed to the ground in this vicinity. Farmers, mechanics, merchants and daylaborers have been very busy. Nearly a dozen attended to in this country. Our scientific men, them are very large and commodious, and built classification, and in the use of their ponderous nowith every modern improvement; one improve-menclature—they have described our fishes even ment is a cupola with ventilator; another is sev- to the shape of a scale or the number of thorns eral steam chimneys placed near the centre of the in the dorsal fin, but they have not condescende hay mow, made of plank, bored full of holes.

Much of our best corn land in the Connecticut mon readers, and be of use to mankind. valley, and all low lands was planted, and the No fish is more valued or more valuable than corn injured, but that on the back high lands the shad; yet but few of its habits of life are escaped the hard June frost, and looks well known. The books are silent, and angling gives Apples are not plenty; wild fruit is very plenty; no information. It was for a long time, a comthe bees are having a glorious time on the rasp-monly received opinion that the shad spent the

berry blossoms, and white clover.

T. P. BAYLEY. South Ryegate, Vt., July 12, 1859.

WHITE SPECKS IN BUTTER.

Next time you churn, take one of those veritable specks (if you find any,) and apply it to the tip of the tongue, and if by the aid of taste, you conclude that he is a white speck of cheese curd and flavor to any others. The variety that seeks can possibly discover what the critter is, and formed in the bottom of a neglected pot of cream, I guess you catch him.

Now for the remedy. Go a visiting to-day, and

churn to-morrow.

Yours, in search of hidden things, Mrs. S. Pierce. South Londonderry, Vt., 1859.

grand discovery as to what causes white specks following this instinct, they never stop for refreshin butter has been made, and that we shall find ment or food. Who ever found anything in the none of them in our next winter's stock.

HENS, AND HENS' HUSBANDS.

Mr. Geo. Vining, in which he recommends a the mouth. For this purpose of nature the shad mixed breed of poultry as the best. I partly agree has been preparing itself during the quiet luxuwith him in this respect, but take exception to ries of a winter, and has become fattened for the another recommendation, viz., "to keep a small use of man, or, if it escape his net, for the repro-rooster, or none at all." Now I consider him a duction of its species. The shad lives but a sin-very unfeeling man to deprive the poor hens of gle year. It is hatched in the early summer—detheir natural protector, for they like to hear his seends the streams as soon as large enough-

severely spurred and billed as to endanger his that unnatural way. I have also heard it stated life. Many and deep were the gashes in his ten- that hens do not lay so well when kept in that der flesh, and the injury would have been great- way. There is a breed of fowls in this city called er, had not a servant of the family rescued him. the Black Hamburg, which comes up to the mark Again, while a hen of the same strain was roam- of a good article as near as any breed I know. ing through a field, one of her young was pounced The hens commence to lay about December 1st, as large as the Dorking, and of much the same shape. They do not want to set, have large rose combs which incline gently to one side, are of a beautiful glossy black, and their flesh is very white and juicy. I prefer them to any fancy breed yet introduced to this country. Hoping that

> I remain your constant READER. Halifax, N. S., 1859.

HABITS OF THE SHAD.

icinity, within six or eight months; several of it is true, have been very precise in their accurate to note their habits, their food, their length of life Grass and grain look promising, except corn. with all such particulars as would interest com-

winter in some part of the Gulf of Mexico, and then as spring advanced and the snow ceased running, came along the coast and entered the rivers in succession. If this were true, there would be no uniformity, year after year, in the run of shad in each river. The very distinct varieties would all become intermingled. But each river has its own variety. Those of Connecticut River have long been known as possessing superior size the Hudson as a spawning ground is easily distinguished from ours. This fact of the distinctness of the varieties in each river tends to the belief that shad go no further than the mouth of the streams in which they are hatched.

The habits of the shad are unlike those of other fish. As soon as the snow water has ceased running, they press up the river as far as they REMARKS -We trust that by this time, the can reach, in order to deposit their spawn. In maw or stomach of a shad that would indicate the nature of its food? Who ever knew them to bite at a baited hook? They do not feed from the time they enter the stream until they sink I observe in your June number a note from down thin and exhausted into the deep places at feeds and fattens in the winter at the mouth of the stream—ascends in the spring to deposit its spawn—and descends to die at the bottom of the shad's life.

For the New England Farmer.

STUMP-FOOT CABBAGES.

The remedy given in reply to "Albertus," "for stump-footed cabbages," does not agree with my experience. I raise my own seed, not only for myself, but for others, and from the most perfect heads of the kinds called "Early York," "Low enough to dangle in my fields, and was no further Dutch," "Drum Head," "American Premium" troubled with those that escaped the poison. Taking the year round, I think the crows do the farmers a vast deal more good than hurt. Our migratory birds return here much in the same good heads. One of my near neighbors who lorder as stated by Mr. Clay, in Kentneky. The The remedy given in reply to "Albertus," "for good heads. One of my near neighbors who lorder as stated by Mr. Clay, in Kentucky. The sowed the same seed, raised several hundred, blue jays and snow birds stay with us the winter and not one stump-footed. I have found from practice and close observation, that not only cabbages, but the large ruta bagas or Western sweet turnips are subject to this disease, and from inspection, have found in the roots small white spection, have found in the roots small white mage and luxurious habits," have annually built maggots.

equal parts, and add one quart of fine salt to each peck, put a large table spoonful to each plant, mix the earth with the compound, but confined to the roots when transplanted. Soot, lime, and pulverized charcoal in equal parts has an-

swered the same purpose.

Out of 250 heads last year, not one which had the above compound was stump footed, whilst others were more or less damaged, and some entirely worthless. S. L. B.

Rockingham, Vt., July 11, 1859.

REMARKS.—Excellent. That is a remedy worth having-because, while the disease is prevented ment. Whether it was the faith or the guano or arrested, the remedy used is a fertilizer that that stopped their working, I cannot say. I will will produce the finest plants. The ingredients leave that to friend Proctor. are all common and accessible, and if the prescription is sure, this information is worth to away from around the onion, and one hot da, thousands of our readers, all the Farmer costs will kill the magget" for one year,

CROWS AND OTHER BIRDS.

"Crows and other birds" in "Old Kentuck," ocean. This fact accounts for the uniformity in by C. M. Clay, is a very interesting letter, espethe size of the fish. A Connecticut River shad cially to those who are fond of the feathered seldom goes beyond seven pounds, and the varia- race, as is your humble servant. But I don't untion in size is comparatively slight. The bass, on derstand why our New Hampshire crows should the other hand, which is known to live many be so much more prolific than the Kentucky years, varies from half a pound in weight to fifty, crows are. Our crows usually lay as many as even in our own river. It has a longer time to four eggs, and I think there is occasionally more grow, and shows a much greater diversity of size, than that number of eggs or young found in These considerations have lately led to the contheir nests. Some four years ago, a pair of clusion that one year only was the duration of a crows built their nest on a pine tree within a What was only a matter of conjec-stone's throw of my confield. Soon as the boys ture and inference has been lately proved by the ascertained the fact, they were rife for pulling it artificial fish-breeders. Somewhere in the State down. But I told them if the crows would let of New York, one of these raisers of fish from the corn alone the nest should not be disturbed. spann which he fed in early life with crumbled About ten days after the corn came up, early one crackers strewn upon the pond where they were kept, has proved their short hold on existence. fifty or more hills. The boys did not want to be the very large fish to had a supplying told the second time to tear down the nest. It the very large fish he had in his tanks and contained four young crows nearly large enough ponds with food. As this science of breeding fish to fly; they were, after killing them, hung upon is known more, the habits of the different species poles about the cornfield. The old crows soor will be more easily described. - Hartford Courant. ascertained the truth of the matter, and "poured out their vociferous imprecations" in a way that soon brought to their company some twenty more, who hovered high in the air, and such a scolding as we got was a caution to us about killing young crows.

Last year they were so bold and troublesome their nest on an elm tree within ten feet of my The remedy which I have tried thus far successfully, is to mix plaster of paris and ashes in Levi Bartlet, Warner, N. H., in Country Gent

For the New England Farmer.

ONION MAGGOT.

Messes. Editors:—About a fortnight since a neighbor said to me, "I shall lose all my onions. The maggot is eating them all up. took some guano and went to her garden. were making bad work. I put guano on all but two rows, and have kept watch of them since. Almost all the onions on the two rows are gone, while the other rows, which I put guano on, have lost very few, if any. So much for the experi

A neighbor of mine, Mr. Farley, who raises a Ed. Emerson.

Hollis, July 1, 1859.

HOW A CHICK IS HATCHED.

In conversation with Judge Butler, of Norwalk, a few days since, he explained the operation of plained in books, we repeat it to our readers.

The chick within the egg breathes through the

with outer air.

The head of the chick is in a position as if it over on the back—a little one side of course—in miums were awarded for beautiful collections, such a position that the least museular exertion showing that taste and beauty are cultivated and will press the beak against the shell, and about appreciated among the hills of Berkshire. How in the middle, and when any violent struggle is could it be otherwise in the home of Mrs. Sigmade, it will break a little hole in the shell. Now ourney? The address, by MARSHALL WARNER, this little movement of the head, perhaps an contains many capital suggestions. The amount eighth of an inch forward, turns the chick in the contains many capital suggestions. The amount shell so that when the head is drawn back into of premiums awarded was \$879, indicating that its normal position, it is brought against another the society is in a healthy and flourishing conportion of the shell. The next struggle breaks dition. a fresh hole, and so on, each struggle making a new opening in the shell.

These struggles, as the chick gains strength from breathing the fresh air, become more frequent. Finally, in the course of half a day perhaps, as it goes on turning itself in its shell, the dissents from the practice of permitting the little blood-vessels which originally formed a stalks of corn to grow on till the maturity of the connection between the chick and the lining grain. I would premise that this cutting off the membrane of the shell, are drawn so tight as to prevent circulation, or are twisted off, and when contrary to all the known principles of vegetaholes have been punctured and the shell cracked ble physiology. He says "that by cutting off

is so tough that the shell parts from it, and leaves maining nourishment which is drawn from the it unbroken, except in the little holes described, soil passes to the ear." and so if not seen in time the chiek dies; a pair

of scissors will effect a liberation.

be kept warm in the hand, and observed as its stalks when taken off, is of more value than any

tive and interesting .- Homestead.

Barrington, on the 22d, 23d and 24th of September, 1858, and it was quite a spirited affair. It embraces within its bounds, some of the most stalk." Now, if he will but raise a few stalks of noted stock-raising towns in the State-of course, the sugar corn or imphee, and late in summer, there was a fine collection of stock on the ground.
The reports are quite too meagre. The farmers he will find it difficult to detect any saccharine of Lenox, Barrington, Stockbridge, and other matter in the stalk; on the contrary, if he will towns, should give us some valuable information let it stand until the leaf has dried, and then cut respecting the breeds of stock which they raise, it off, he will readily find that sugar is so fully and the best methods of feeding them, and pre- developed as to occasionally drop from the end paring them for market paring them for market.

of an acre of winter wheat, and six premiums for six acres of spring wheat.

Premiums were also awarded for crops of corn, the hatching process, which is so beautiful and rye, barley and oats. We are glad to notice philosophical, that as we have never seen it ex- this, especially premiums for the encouragement of wheat-raising. We think the interest of Masshell; in the silky membrane lining the shell the sachusetts farmers requires that they should pay blood circulates, and is thus brought in contact more attention to this crop than they have for some years past.

The flowers were not forgotten—as seven pre-

For the New England Farmer.

CUTTING OFF CORN STALKS.

about two-thirds around, the shell falls apart and after the pollen has fallen from the spindle, the the young chanticleer steps out into a new world. wound will soon heal up, and all the upward cir-Occasionally the lining membrane of the egg culation above the ear is stopped, and the re-

Your correspondent may not be aware that the crude sap which passes up has no immediate effect It is dangerous to attempt to take a chick from upon the growth, until it enters into the leaves or the egg before it has, as will be evinced by the lungs, and is there elaborated, (manufactured,) cracked shell, turned itself nearly or quite two- and that the flow of sap is from the leaves downthirds round; otherwise the blood vessels spoken of will be broken, and the chick either bleed to death or be long in recovering. The whole process may be watched if the egg outset to such, ascertain whether the worth of struggles call attention to it. This will not in- additional weight in the grain. There are many terfere with reading or writing, and is instruc- ideas relative to the growth of trees and plants, which are not true in fact; thus, much is said about the ascent of sap in the spring, and its descent to the roots in autumn. The sap in spring commences at the top or extremity; it is there This society held its 17th exhibition at Great that the excitable buds begin to swell indepen-

Another familiar example which shows the im-Two premiums were awarded for the culture portance of the leaves, while green, to remain on their office in the consolidation of the bulb.

of plants, while in a growing state.

cutting off the tops of corn was to accelerate its ing every year, so as to prevent seeds ripening, ripening, but I understand this writer to say that but to no good purpose. I then seeded to grass, "corn will not ripen so quick by several days, and sometime before mowing, carried on salt, and with the stalks taken off early, as it will if suf-where the weed was very thick, I scatt-red on fered to die altogether." I have supposed that the salt dry, broadcast, thick enough to kill evby this practice it ripened prematurely.

Salem, Ms., 1859. J. M. IVES.

For the New England Farmer.

A NOXIOUS WEED.

visited our American land. I have reference to seventy-five per cent., than last year. "The Weed," as the Springfield Republican calls it. I cannot give the botanic name, and indeed proaching them, if hy roadside even, to beware. Ido not know as it has any; yet it does not want A New England Farmer. for names. I will mention a few, most of which I have seen in print. Butter and eggs, stink weed, devil's snake, dragon's weed, Chloe's, Manarrow, picked leaf, somewhat in form like that it growing spontaneously in eleven different of rotten eggs. States. Hydra-headed, it matters little which end is up, or what part of the root touches the ground. I have known it to grow two or three Useful Plants," says "it is extensively naturalized feet high, and so thick as to run out the grass, almost entirely, on the best of land. Cattle will not eat much of it green, but when ripe will cat Philadelphia, says it was introduced from Wales, alone, it spreads beyond conception.

duced remains a mystery; most probably, in for-

eign seeds.

having it cultivated in their gardens for the blos-lit is a fetid, worthless, and very objectionable som. By what I can learn, five of the above last weed, -the roots very tenacions of life-and rementioned names were given for this reason. It quiring much persevering effort to extirpate is estimated that the above named weed increases quiring in New England at the rate of twenty-five per them." cent., notwithstanding the effort made to destroy it. I have seen acres of land in itself very good,

plants, is exemplified in a tulip or hyacinth bulb. land? I have heard it said there was a class of If, even after the flower and flower-stem has flies in India that would destroy the weed, and dried away, and while the green leaves remain, that we had better send express order for a bag you now take up these roots, they will shrivel of them. I am afraid say so will never do us and be unfit for resetting; they must remain in any good. I give you my experience with it for the ground until the leaves shall have performed some years past. It made its appearance on our farm, exciting no suspicion until it was discov-I have thus hastily drawn up these remarks, ered to have taken almost entire possession of one which could be extended by numerous examples field. I moved and carried off all I could and of the folly of interfering with the leaves or lungs burned it, yet it appeared as prolific as ever. then plowed, planted with eorn, broom eorn and One reason which I have found to be given for potatoes, hoed it three years, gave it one late hocerything green. I then made a strong brine, and having salt constantly in the bottom of my pail, put it on to the weed with a brush broom, taking a little salt each time, and when I could, stamped it with the heel of my boot. In this way, whether sunny or rainy days followed, there would be a briny surface. I continued the process the I have noticed with interest for a few months first season, going over the ground three or four past, in a number of papers, that there appears times. I repeated the application last season to be a waking up among the farmers to the with equal success as before. I shall expect the greatest seourge in the form of a weed that ever present year there will be less of the weed, by

I wish hereby to notify those that see it ap-

Deerfield, Mass., July 8, 1859.

Remarks.—The weed spoken of above by our ry's, Mother Wait's, Mother Rice's, and Boyan-correspondent, is undoubtedly the common Liton's weed. It has a yellow blossom, a small, naria, called toad flax, from the resemblance of on flax, only larger, the color blue rather than its leaves to flax. It is also called Ranstead weed, green, its odor very offensive, and will mature and Butter and eggs; why it has received the latso as to produce seed after being cut two or three ter name we do not know, unless because its times a year. One traveller reports to have seen flower resembles butter in color, and its odor that

Dr. Darlington, in his "American Weeds and -has become a vile nuisance in our pastures and upland meadows. Mr. Watson, in his annals of as a garden flower, by a Mr. Ranstead, a Welsh Thistles, daises, cadlock, cale and fire grass, resident of that city; and hence one of its comwhen combined, will not prove so great a pest mon names. It inclines to form large patches, to our New England. How it was first intro-by means of its creeping roots,—and as far as it extends, takes almost exclusive possession of the Some have introduced it into their land by soil. Although the flowers are somewhat showy,

HABITS OF FISH CHANGING.—The habits of that has been reduced more than one-half its fish, in respect to taking the hook, are said to be value, by having a quantity of this noxious weed much changed within fifty years. The Grand Bank fishermen found once no difficulty in taking Now, Mr. Editor, will you give us the true cod by throwing the hook and line from their botanic name, and tell us if there is any use can vessels; now each vessel is almost always providbe made of it, for the benefit of man or beast, ed with dories in which the fish are taken and or tell us how it can be annihilated from our brought to the vessel. Mackerel fishermen once

found fish inclined to take the hook, as blue fish, ces, which can be ascertained by chemical analysoon as it is thrown into the water, and a vessel needs but a few hours for a full supply, if they will "bite." Now it would seem that the water may be full of them, and not one can be taken out by the hook. At the present time in Prov- phosphate, it must be added, so that the wheat in etown harbor none are taken by the hook, while the whole harbor is crowded full of them. The introduction of nets has been a great gain in the way of taking them, and it is predicted by some that mackerel will soon be taken upon this ceast only by nets.

For the New England Farmer.

THE PROGRESSION OF PRIMARIES.

ANALYSIS OF SOIL AND FERTILIZERS.

BY JUDGE FRENCH.

egg, is not settled, perhaps, either by reason or by revelation. Whether man was created upright in form, at the first, or, according to the than are dreamed of in your philosophy. The idea of the author of "The Vestiges of Creation," plant knows more than the chemist! There are was originally a very low kind of a worm, and differences which the chemist cannot detect. gradually crawled up through millions of successive generations of fishes, reptiles, birds and at the head of our article. quadrupeds, to the dignity of the human, does not immediately concern us, as agriculturists. posed of sixty-four simples, which we first, or We all believe in progress, and that nature usu-primarily, find in rocks. The theory then is, that ally walks onward to higher and higher results. these rocks, in the lapse of ages, have been bro-Hearing a geologist once reasoning learnedly ken and worn away, and from their debris, soils that this continent had once been submerged, have been formed. Next, we find those same from the fact that marine shells are found on the substances in vegetables, and finally, in animals; Creator to make mountains with shells on their us. Even the microscope, which shows us eels, tops, as otherwise! "Yes," said he, "He might and even sea serpents, in Cochituate water, and have done it, but He did not!"

that shen order came out of chaos, the earth almost discern the oxygen in the atmosphere, can gradually took form, and that whatever of crea-see no difference between these two kinds of tive energy was employed in calling into life the phosphates. But the plants, with their instincts, various living creatures which inhabit it, for the sharper than man's reason, and more subtle than most part, changes everywhere are wrought chemists tests, decide that for their food, the one through the operation of fixed laws, and that is far better than the other. Why is this so? every little shell of the seashore is composed of Professor Mapes, of New York, has been for matter in a condition somewhat different from several years discoursing upon this topic through animal. It is chiefly lime now, as it was before; which we may find apparently identical in the

by trailing; late years they take the hook as sis. To form this plant, the soil must supply a proportion of these elements. Phosphate of lime makes a great part of the ashes of wheat, for instance, and therefore if the soil has not this plant may find, and appropriate it. Phosphate of lime is found in bones of animals. It is also found in the rocks at Dover, New Jersey, at Crown Point, and other localities. The chemist analyzes the bones and the lime rock, and they seem to all his tests, identical. They are applied to the soil, and the animal phosphate wonderfully nourishes the plant, while the mineral phosphate produces very little effect. Potash from wood is a powerful fertilizer for many plants. Felspar, one of the constituents of granite, contains sev-Whether the first egg was created before the enteen per cent. of potash, but pulverize it as we first bird, or whether the first bird laid the first may, it produces no such effect upon plants, as potash from vegetable sources.

Manifestly, there are more things in nature

And now we are coming to the learned words

All substances in nature are said to be comtops of the highest mountains, we suggested, the same, so far as the chemist knows; but somewhat maliciously, that it was as easy for the changed or progressed, as the plants plainly tell rhinoceri on the surface of figs; which can de-Probably everybody agrees with the geologist, tect at a glance, the different kinds of blood, and

that in which it before existed. It was before the Working Farmer, and before the New York part of a rock; it has advanced to be part of an Farmers' Club. His theory is, that the elements, but lime of somewhat different properties. For rock, and in both the vegetable and animal matsome reason, we generally believe, that oyster ter, are first taken up by the lower orders of shell lime possesses properties for agricultural plants like mosses and lichens, that they have purposes which are not found in the lime rock. thus progressed one step, and that on the decay But our mention of the shell has led us in ad- of those lower plants, those same elements may vance of our argument. Let us return. A few now be suited to the constitution of plants of a years ago, all the world was talking of soil anal-higher order, and so on, till passing gradually ysis. The theory was beautifully simple. Thus, upward, they form part of the food of animals, plants are composed of certain known substan-including man, and thus become a constituent

part of flesh and blood. Having thus progressed, higher class of plant for further progression, and perhaps having again and again constituted part so on through nature's laboratory, until we find both of vegetable and animal substances, those elements acquire an aptitude for such organiza
"Man might as well try to exist on dissolved tion, and so are the more readily taken up anew rocks instead of the same constituents composto be wrought into new structures, just as grape ing plants in a progressed state, as to attempt to cuttings buried in vineyards form the best nour-feed plants on primitive phosphates, no matter shment for the vine, and as egg-shells are found how manipulated by grinding and acids." by hens, the most convenient substance of which to make shells for new eggs.

lents, so far as chemistry can tell us, taken from Committee saythe primary source of rock, and dissolved, the effect as a fertilizer is very small; and so if we Estramadura into Great Britain, have not prouse phosphate of lime made from bones, and the duced amongst the agriculturists all the favorasame amount of mineral phosphate, the bone ble results which were expected from them. One phosphate will prove by far the better manure. of us, M. Dumas, had the opportunity, in 1850, of stating this fact, during a mission with which he was charged by the Minister of Agriculture phate taken from the rock at Crown Point, Lake and Commerce, relative to the agricultural im-Champlain, and other places, in various parts of provements introduced into England, Scotland the world, identical with the phosphate from and Ireland. It does not appear that they have bones, and sets them down as of equal value to since succeeded in obtaining in Great Britain as the farmer.

We think the readers of the New England Farmer have a manifest interest in this matter, we read in the advertisements, certificates of manures, has proved by direct experiments the learned chemists, that this kind of guano con-weak acids, in the state in which they are now tains such a per cent. of phosphate of lime, and offered to agriculturists." this patent fertilizer such a per cent. Now, if phosphate of lime is all one thing, and produces the same effect, from whatever source derived, service if we discover the means of economically why there is no objection to considering it a law-dividing the mineral phosphates to the state in ful tender to the farmer for his money, but if the which they readily become assimilable by plants." above theory is correct; it may be the old illustration literally verified, of asking for bread and the difference b-tween animal and mineral phosreceiving a stone! buying plant-food and receiv-phates is everywhere admitted among scientific ing an indigestible rock.

says:

purposes, unless taken from organic life, like the is useless to the farmer. Careful experiment blood and bones of animals. The phosphates alone, it would seem, can answer this question from the phosphatic rocks and volcanic deposits, as to any fertilizer from an unknown or unreliamiscalled guanos, although ground and treated with sulphuric acid, have no value as fertilizers, and cannot be absorbed into the higher class of plants, such as are now required for the use of ly knowledge enough to perform their farm lamen and animals. They must first be taken up bor intelligently, but enough, also, to defend

These views have recently received strong support from a published report of a committee of In the Working Farmer of April, 1855, Pro- the French Academy of Sciences. The fact that fessor Mapes clearly states his theory, which we mineral phosphate is far inferior in value and efhave attempt briefly to indicate. He there states fect for agriculture to the animal phosphate, is as known facts, that if we apply a quantity of clearly stated, though the reason assigned seems bullocks' blood to the soil, it proves a powerful to be the difficulty of reducing the mineral to a fertilizer, whereas if we apply the exact equiva-sufficiently minute state of division. The French

> "The importations of mineral phosphates from good effects from the mineral phosphates as from bones, or the black residues of the refineries."

"On his part M. Moride has rendered indiseven if it does savor somewhat of abstruse sci- putable services to agriculture, by analyzing the ence. We are all buying what one of our neigh-manures deposited in the Government dockbors comprehensively calls "bag manure," and yards, and, exposing certain frauds in commercial

"We shall render to agriculture a still greater

Whatever the true theory, it is manifest that men. It is not enough, then, that the guano or In a recent article, Professor Mapes states his superphosphate be certified to contain a certain opinion even more strongly than before. He proportion of phosphate of lime. There is a further question.—Is this phosphate such as the "Phosphates have no value for agricultural plants can use? If not, whatever the reason, it

The farmers of the present day require not onby lichens and mosses, and be progressed by them in a way which chemistry as yet has failed to discover, and on their decay and redeposit of their phosphate. in the soil, be absorbed by a ing often, it is feared, new compounds as fertiliz-

rs, from a too great reliance on supposed chemal laws.

And finally, an analysis of a soil or of a fertilzer, to be of any value to the farmer, must indicate, not what are the whole elements, but what the public for the last ten years, on the advanare those which are in a condition to feed the tage of possessing "beautiful dwelling-houses," plants. A granite boulder or a grindstone may contain all the elements of a specific manure, but it would be rather hard fare for a young cucum- It is maintained that taste cannot long survive ber or a tomato plant to thrive on.

For the New England Farmer.

COAL ASHES AS A DISINFECTANT.

is troubled by the noxious vapors arising from one's roof. I believe this idea has produced more vaults, the outlets of sinks and drains. I am not mischief than good; it has led men into extravaware of having anywhere read a recommenda-tion of coal ashes for this purpose, but it is a fact, that a very slight covering of coal ashes will bination of utility and convenience, which is the prevent almost all noisome odors, and will also chief end of home-architecture, and to seek after prevent the rapid and troublesome increase of embellishments at the expense of that charming flies, from stagnant water or manure heaps, simplicity, which renders so many old houses which so much trouble the peace and comfort of and their surroundings, objects both of affection neat housewives. Whether the effect is merely and delight. mechanical or chemical, I am unable to state, but It is not true that a man is made more contact it is certain and effectual, I know by repeatented or happy, by living in an elegant, ornate, ed experiment. A compost of night-soil and coal or beautiful house; and no man was ever imashes makes a very valuable, inodorous and in- proved in character or manners, by adding aroffensive application, as dressing to the soil, estichitectural ornaments to the outside of his dwelpecially for light lands; for heavy soils, I am in-ling. There are certain requisites demanded by clined to think coal ashes, except in a very small comfort and convenience, which seriously affect proportion, are injurious, making the soil colder the happiness of a family, and ought never to be and heavier; at any rate, heavily coating the neglected; but neatness, rather than ornament, earth with coal ashes about the roots of one or should be the aim of those who are seeking after two trees, of the same variety, retarded its blos- home-embellishments. A large proportion of the soms and leaves, a week or ten days, and snow most virtuous and liberal men in the land, are covered with coal ashes will, for a long time re- found among those who live in homely houses; main unmelted.

by the city; through that coating no odor of generous hospitality.

There is a mean between an ornate and an ugly marsh mud or decaying vegetable matter was able to make its way. The cheapness and readi-style; and the houses which are usually called ness with which this material can everywhere plain or homely, occupy this mean. Many of ne had, the comparatively small quantity neces-these homely dwellings are really beautiful, in sary, and its being more effectual than any sub-the best sense of this term, where we perceive in stance known, has led me to make this use of it them a perfect adaptedness to the wants and more generally known, by the aid of your col-habits of an honest and benevolent family. Their umns. F.

Boston, July 12, 1859.

-not so powerful as dry, pulverized clay, char-bery; and on all sides appearances, more easily coal or meadow muck, but can be obtained with perceived than described, indicate that the famimore facility than either of the first-named articles. We can endorse the statement of our correspondent, as we have long used it, and found cites disagreeable emotions from its want of out-

says:-"Never increase climbers or plants from required to relieve the abrupt, naked and angusuckers. The like never produced the like more lar look of its exterior; it is ugly, when it has a to the letter than do these plants from suckers. large projecting roof, that gives it a toppling and Destroy all suckers, is my maxim."

For the New England Farmer.

A FEW NOTES ON DWELLING-HOUSES.

BY WILSON FLAGG.

A great deal of advice has been proffered to until our people are almost persuaded that the rudeness, or the refinement of a man's character, is created by the style of the house he occupies. in a homely house; and it would seem that an illiterate boor needs but to quit his hovel, and become the proprietor and occupant of an ornate villa, to be transformed into a gentleman and a scholar. It is also supposed that domestic happiness is greatly increased by the tasteful embel-At this season of the year almost every one lishments which are appended to the outside of

for the plainness of the exterior of one's dwelling A very striking instance of the value of coal inspires contentment, while the opposite style ashes as a disinfectant was seen last year in the fosters vanity, and creates a kind of necessity for filling below the Public Garden with coal ashes costly pretences, which are incompatible with a

moderate, but sufficient accommodations for all private and hospitable purposes; their open enclosures shaded by one or two large trees, and REMARKS.—Coal ashes is a good disinfectant not crowded with a profusion of needless shrubly live for happiness and not for pretence, for

Ugliness is any quality in a building that exit valuable for the purposes of which he speaks. ward evidence of comfort and convenience; and it may exist in connection with an excessive amount of ornament. A building is ugly, when An experienced writer on propagation it is unsupplied with those mouldings which are dangerous appearance. This is the fault of many

ornate houses, which have been erected within a painted, while an ugly sink-spout discharges its

unroofed in a high wind.

is ridiculous, when it abounds in conspicuous or is false to the character of the interior.

naments that do not harmonize with its general There are other ways in which a house may be not equal to their ambition.

who labor for them the smallest pittance they grandeur of the house serves to render the mean-can force them to accept, and give nothing in less of the owner the more conspicuous. alms, except in such a way as to gain applause. | All this, however, is rather affectation than

valry, and a love of show and "gentility," and our churches, than in our dwellings. When a ostentation. Our neighbor, for example, who is and other religious devices, and engraves upon a manufacturer, having crippled his fortune by it certain impressive mottoes, the work is an act building a fine house, immediately cuts down the of hypocrisy. But the affectation that marks the barrassment. His new and elegant stable reling to seem wealthy, when they are poor; genexpense obliges him to dismiss one of his need-borious toil; or princes, when they are only men ful clerks, and his son, who was intended for col-lof wealth, and slaves in their own counting-lege, is employed to fill the vacancy. The costly rooms. It is very common to see the house of furniture which was purchased to correspond an illiterate adventurer furnished with its libraample accommodations for company, he is obliged his studies in the parlor or living room. to diminish the amount of his former hospitalities. In this way has many a family been forced plain houses, because the cant of the times jinto perform private acts of meanness, in order to gles in praise of "the beautiful." But if any one pay for their affectation of munificence!

home-architecture, so far as they can be afforded, that homely houses, made for comfort and not should be adopted in the cheapest and humblest for show, are the most pleasing objects in rural dwellings, because they serve to promote health scenery. There are many who will bear witness and comfort, and to abridge labor; but a suf- of instances I have often observed, in which the ficient amount of decoration has been bestowed beauty of a charming scene has been totally deupon a house, when its outside appearance is stroyed, simply by removing a neat and plain made to correspond with its interior perfection. cottage, and putting up an ornamental one in its The highest kind of beauty springs from the stead. The reason why we are thus affected, is manifest combination of neatness and conve-that the one wears the expression of freedom and nience; yet how often do we see dwelling-houses comfort, the other that of vanity and restraint. tricked out with various ornaments, and neatly If the ornate styles of buildings were favora-

few years, that seem as if they might easily be waters conspicuously upon a grassy bank, and destroys all the beauty of the place! If, in this A house may be ridiculous, as well as ugly. It case, there is neatness within doors, the outside

character; as when Grecian columns support a false in its appearances, when, for example, it aplarge porchattached to a mean house; also when pears to be built for purposes of hospitality, a building manifests an attempt to imitate a style while the owner and his family live like misers, which cannot be attained; as when a house, at and only to themselves. It is remarkable to what a cost of only two or three thousand dollars, is an extent this kind of ostentation in fine houses made after the model of a baronial mansion. is carried by the meanest and most miserly sort There are many of these absurdities among those of people. I believe it is only in this country, houses in our land which were erected by men that the sight is beheld, of an elegant and spawho were ambitious to produce some extraordi-cious dwelling-house, with numerous large and nary work, and whose sense and judgment were handsome rooms, provided with furniture as costly as the house,-while the master and mis-We ought to adopt that style of building, tress seldom entertain a party of friends, and which is calculated to inspire the owner with live with all their family in a back room or the permanent satisfaction, and tends to promote a kitchen. I would not find fault with such peofrugal hospitality, as distinguished from a nig-ple for occupying that part of the house which gardly extravagance. A frugal hospitality dis-their manners and habits are best suited to tinguishes those families who indulge in no fash-adorn. I would simply inquire for what purpose ionable expenses; who buy no costly furniture seven or eight superfluous rooms were made, that is not needed, but who are always ready to since the family neither occupies them, nor deentertain a friend; who pay those who work for votes them to hospitality! How much more senthem justly and generously, and give freely to sible their conduct, if the house had been planned rational purposes of charity and public improve to correspond both in size and appearance, with ment. A niggardly extravagance marks those their own habits and requirements! Such a who furnish their houses with costly gewgaws, home is designed neither for the proprietor nor dress themselves in finery, and pay largely for for his neighbors. It is built by a vain man for fashionable amusements, while on the other hand, the idle gaze of a public, who are not allowed to they shut their doors against company, pay those soil it with a single footstep. In this case, the

Fine houses certainly encourage this sort of hypocrisy, which is more commonly manifested selfish extravagance; they foster a spirit of ri- in our sepulchral monuments, and in the style of oblige a family to live meanly in many respects, man who has led a wicked life, erects before his to enable them to support the expenses of their death a solemn marble tombstone, with a cross wages of his operatives to save himself from em- builders of dwelling-houses is that of endeavorquires a pair of elegant horses; this additional tlemen of leisure, when they are devoted to lawith the style of his new home, requires the cut- ry and study, while the humble parsonage, right ting down of some necessary expenses for com-opposite, is so poorly supplied with rooms, that fort; and although he is now supplied with more the clergyman writes his sermons and pursues

It is very customary for the press to ridicule wiil take pains to study the effects in landscape All the modern improvements for utility in of the different styles of building, he will find

ble to a generous and comfortable mode of living, they would not deserve censure. But if I were to measure the hospitality of a stranger by the style of his house, I should declare in favor of the owner of one that is homely and moderate- the following names of the Delegates who are ly spacious; and should suspect the liberality of to visit the county agricultural societies at their one who lived in an ostentatious house, as I annual meetings next autumn. should doubt the piety of those who occupied the most expensive pews in a fashionable church. As this man's palace loomed before my sight, I should feel some misgivings, and say to myself -"These poor people who live on pretence, cannot spend much for generosity."

WHY SOWS DESTROY THEIR YOUNG.

A writer in the *Homestead* gives an article on this subject, in which he argues very conclusively that "costiveness and its accompanying evils are the main causes of sows destroying their young—and proper food is the preventive and cure." He says, and the fact is patent to thousands of pig-raisers, that sows never eat their pigs when running at large, with plenty of green food as in autumn, but with hardly any exception. sows littering early in the spring are troubled with costiveness, often very severely. This causes extreme restlessness, often almost frenzy, and the pains of labor increase it until they destroy their young or any other living thing within their power.

"Green food is the cure." If sows are confined in pens at any season, and especially in early spring, they should have a daily supply of which have never been transplanted, seem to be green food for some weeks before littering. Po-tatoes, sngar beets, carrots, parsnips, and such started in nurseries, and removed from thence to like, are excellent—and half a peck per day is the orchard. I have now one additional reason to amply sufficient. If no roots are to be had, sul- give. Examination will show that trees which phur-a tablespoonful two or three times a week grow in the spot where the seed germinated, have is also beneficial. Sows should not be moved running very near the surface. In transplanting about from pen to pen at this time, as it disturbs and irritates them—they should be put by them-they should be put by themselves at least a month before littering, and used never gets over the deleterious consequences, at all times with kindness and due attention to unless another set of roots springs out near the their comfort.

Corn and cob meal, or corn unground, is bad food alone for sows heavy with young. Sour imperfect ripening or maturing of the sap. The milk, kitchen slop and vegetable food should be well matured sap has an essential oil so largely given with it, and for all swine it is to be preferred. In summer, with good clover pasture, fatal effects of severe freezing. An abundance of pigs will do well without grain, and every farmer leaves and a supply of roots near the surface of should provide a proper pasture for his swine.

vented from destroying their young, by giving sive pruning generally prove fatal to the apple them rum sufficient to make them tipsy after lit- tree in Maine, when the winter happens to be lering. The preventive of green food would be more severe than usual. far better for the animal, as well as of permanent benefit. Sometimes sows refuse to own their much to say about the time of pruning trees; young, acting perfectly indifferent to their wel- and the fact that the sap sometimes runs from holding the sow, and allowing the pigs to suck parently poisoning the bark - has been attributed

the beautiful bugs sent us by our Berlin correspondent. They exceed in beauty of form and under the bark. The sap in the bark is better brilliancy of color anything of the beetle kind we ripened than that in the wood, and hence the have ever seen.

DELEGATES TO COUNTY SOCIETIES.

We have been obligingly furnished by the Secretary of the State Board of Agriculture with

DELEGATES TO THE SOCIETIES.

Essex, at Danvers, Sept. 28, 29	.Rev. Mr. Sewall.
Middlesex. at Corcord, Sept. 28	E. G. Gardner.
Middlesex, S., at Framingham, Sept. 20, 21	Wm. Sutton.
Middlesex, N , at Lowell, Sept. 21	S. H. Bushnell.
Worcester, at Worcester, Sept 28, 29	
Worcester, W., at Barre, Sept. 27	Nathan Durfee.
Worcester, N., at Fitchburg, Sept 29, 30	
Worcester, S., Sturbridge, Sept. 28,	Cyrus Knox.
Hampshire, Franklin and Hampden, at Nord	ampton,

Sept. 28, 29,	Josian white.
Hamp-hire, at Amherst, Oct. 13, 14	Chas. K. Tracy.
Hampden, at Springfield, Sept 21 22	M. P. Wilder
Hampden, E., at Palmer, Oct. 4, 5	W.G. Lewis
Franklin, at Greenfield, Sept. 27, 28	Jabez Fisher
Berkshire, at Pittsfield, Oct. 5, 6, 7	Paoli Lathrop.
Housatonic, at Great Barrington, Sept. 29	8, 29Geo. Marston.
Norfolk, at Dedham, Sept. 27, 28	Chas. G. Davis.
Bristol, at Taunton, Sept. 14, 15	O. C Felton.
Plymouth, at Bridgewater, Oct. 5, 6	Levi Stockbridge.
Barnstable, at Barnstable, Oct. 5, 6	Wm S Clark.
Nantucket at Nantucket, Oct. 12, 13	James S. Grennell.
Marth. Vineyard, at West Tisbury, Oct. 1	1, I2Simon Brown.

For the New England Farmer.

LETTERS FROM MAINE --- No. 4.

Effects of Deep Planting—Season for Pruning—A Mistake Corrected.

In my last, I gave some reasons why trees -may be given in their usual food, and charcoal a set of roots on which the tree mainly depends, surface.

Fruit trees winter-kill in consequence of the the soil are the essential prerequisites to the ripen-We have before stated that sows could be pre-ing of the sap. Hence deep planting and exces-

The correspondents of the Farmer have had We have found this readily overcome by the wound made by pruning—blackening and aponce—after which she gave no further trouble. to pruning at an unfavorable season. This conclusion is based on error. The living healthy wood of an apple tree will not bleed or discharge BEAUTIFUL BUGS .- We have no knowledge of sap, when cut at any season of the year. It is not sap which seems to run from the wound, but acidulated water from the dead winter-killed wood wood is often winter-killed when the bark, and

the pear than with the apple tree, and the ef- od I will warrant to keep the "specks" out of the fect is then called fire blight, &c. In pruning butter.

M. E. C. trees, if a branch is cut where the whole of the Warner, N. II., 1859. wood or a part of it has been winter-killed, the water will run from such killed wood, at whatever season of the year the tree may be pruned. I have more facts upon this subject to communi-SANDY RIVER. cate hereafter.

REMARKS .- Our correspondent says -- "The living, healthy wood of an apple tree will not bleed or discharge sap when cut at any season of the year." We are greatly confident that he is mis- as though it had just emerged from a barber's taken. An extended experience, both as to time shop, I regarded myself a "crack" mower. and number of trees worked upon, has thoroughly convinced us that if a vigorous tree is cut when the sap is in full motion, that sap will immediately flow out, long before there is time for any wood to die, or be winter-killed, or even to acidulate. Upon coming to the air this sap becomes pungent and bitter, and poisonous to the bark and wood over which it flows.

EXTRACTS AND REPLIES.

WATER CRESS.

I noticed in your July number a few remarks by a Salem correspondent, of the value and util of twenty years experience in the dairy business ity of the Water Cress, recommending its more has shown me that white specks in butter are general use. I can attest, from long experience, caused by sour milk being taken off with the to its utility as an edible or early salad, and often cream in skimming, which, by standing with the wondered that it was not more generally used. I cream, is hardened, as all sour milk will be. In have observed the New York markets are par-the process of churning it adheres to the butter tially supplied early in the spring, from Long in the form of white specks. These are never Island or Jersey.

Early in the year 1841, I was travelling in the skimming. vicinity of New Haven, and observed a fine bed of water cress growing spontaneously, and apparently unnoticed previously. I therefore gathered a bunch, took it home with me, planted or strewed it into a spring of water near my house, and within two or three years from that time, without any trouble or cost whatever, I have had an abundant supply for the use of my family and neighbors. If any of your correspondents should at once and capped, and it will not hurt. have a clear spring near his homestead he could plantation of water cress-they are not only a perfectly well. perennial, but remain by seed, which deposits and germinates so as to keep a supply. J. Wood. Mountain Grove, Bridgeport, Ct.

SPECKS IN BUTTER.

marks on "White Specks in Butter," I would you would for stooking, except the cap sheaves, here give a few words of my experience, never then throw the cap over, and pin it down at the having had the "luck" to have my butter specked, corners with pins about eighteen inches long. unless I kept my milk too long before skimming, do not hesitate to let the rake follow the cradle, or my cream too long before churning.

The milk should be skimmed before it curdles, looks unfavorable. and the cream churned before it has either "white

sometimes two or three layers of sap-wood di- or black specks." I agree with "H. E. C.," of Putrectly beneath it, remain green. When the wood ney, Vt., in "not stirring the cream." The thick is killed, and the bark only remains green, the sour milk will be settled at the bottom; that I tree or branch will leave as usual, and perhaps keep from the churn. The cream wants straindirectly after the flowering season the leaves will ing, not merely to "get the dirt out" but to break wither up. This is more frequently the case with and mix it preparatory to churning. This meth-

THE MANNER OF MOWING.

When, a half century since, I learned to mow model farmers were in the habit of cutting their grass very close to the ground, and those who failed so to do were taunted with being slovenly husbandmen; therefore, when I acquired the skill of shaving off the stubble of the preceding year, and leaving the turf in my swath as smooth

Recently, some of our farmers are getting into the practice of mowing higher. They say cutting Timothy below the lowest joint kills the roots, in case of dry weather immediately after mowing, and they say their attention was first attracted to the subject, from noticing that the grass lands of some of their slovenly-mowing neighbors, held out from year to year better than their own, until they adopted the practice of cutting above the lower joint.

What is the experience of Massachusetts farmers in this matter? VERMONT.

BUTTER-MAKING.

Permit me to express my views, as the result formed when cream is churned immediately after imming. C. T. Cowdery. South Royalton, Vt., July 11, 1859.

For the New England Farmer.

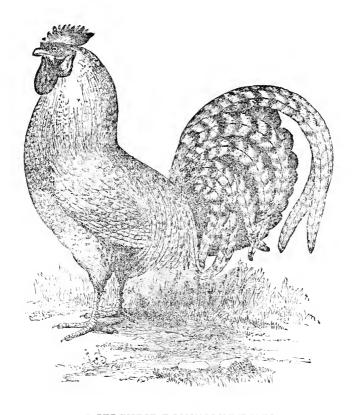
HAY CAPS.

Grain of all kinds may be cut and shocked up

I have used hay caps for from fifteen to twennot put it to any better purpose than make a ty years, and have always had them keep grain

I have cut grain in the milk, shocked it up at once and let it stand from one to five weeks. I use, or should like to use, caps four feet square. All things considered, I think them best. They will cover from eight to twelve sheaves of wheat Having noticed in your paper a number of re-cording to size of bind. Set up the bundles as and shock my wheat up at once, if the weather ED. EMERSON.

Hollis, N. H., July 9, 1859.



A SPLENDID DOMINIQUE FOWL.

We present the reader to-day with the most | "The prevailing and true color of the Domion that of a finer texture. But it is very beauti- of various widths. ful even here. We copy it, by permission, from Mr. C. N. Bement's "American Poulterer's Com- breasted. Their eggs average about two ounces panion," a work which we heartily commend to each, are white, and of porcelain smoothness. all persons interested in the raising of poultry. They are good layers, good feeders, good sitters, Mr. Bement says,—

"The Dominique fowl, well selected and care-motion in the poultry-yard." fully bred, is a fine and useful bird. They are distinguished as Dominique by their markings indication of hardiness and fecundity. They are by some called "Hawk-colored fowls," from their their plumage to the feathers on the cuckoo's breast. We seldom see bad hens of this variety and take them all in all, we do not hesitate in pronouncing them one of the best and most profitable fowls, being hardy, good layers, careful nurses, and affording excellent eggs and first enterprise to which he may give his attention. quality of flesh.

beautiful illustration of the Dominique cock that n que fowl is a light ground, undulated and softly we have ever seen. It does not show on paper shaded with a slaty-blue all over the body, as inas coarse as our sheet is, so favorably as it would dicated in the portrait of the cock, forming bands

> "The hens are not large, but plump and fullgood mothers, hardy, and are well worthy of pro-

AMERICAN FARMER'S MAGAZINE.—This exceland their color, which is generally considered an lent journal, under the editorial management of our respected friend, Professor Nash, has been discontinued and "dies," the editor says, "of a strong resemblance in color to the birds of that collapse in the money drawer." We are sincere-In England they are usually called ly sorry that it has not been better sustained. "Cuckoo-fowls," from the fancied resemblance of Prof. Nash is an able writer, an upright and high-minded man. We always read his writings with pleasure and profit, and believe that the farmer will rarely find pages so full of sound and practical instruction as were those of his magazine. We wish him great success in any new

THE WHEAT OROP OF 1859.

The following article upon the wheat crop of s the present year is from the Metropolitan Bank Note Reporter of New York. It seems to be carefully considered, and as an estimate of the crops, based upon apparently reliable information, is worthy of attention:

ally been harvested throughout the country, and bushels is a large one for the present wheat crop, sufficient is known to make a careful estimate of but we think not. In 1855 the Patent Office rethis important staple, interesting for present con- turns gave the wheat crop at one hundred and sideration and important for future reference.

is from the Patent Office returns of 1855. Using California was put down as producing only twenthis as a basis, and getting the increase in pro-ty thousand bushels; last year it produced over duction from a comparison with the former Re- four millions; and this year probably five milports of the Patent Office, and by the actual investigations made by several of the States, particularly Ohio, we have the means of obtaining lions. Tennessee has been, except for home continuous control of the Patent Office, and by the actual investigations. In 1855 Kentucky produced only five milions of bushels; it now produces eleven milions. Tennessee has been, except for home control of the Patent Office, and by the actual investigations. approximately from the average amount of land sumption, a wheat growing State only since the in cultivation for this crop, the yield for this and opening of the Memphis and Charleston Railother years. In this connection it may be re- road; but now its wheat ranks in quality second marked that it is found that the average amount to that of no other State. The New England of land does not fluctuate like the yield per acre, States have decreased in their production, but but like mortality, is governed by certain laws. the West has increased four to one. The amount The average yield per acre every year is only to of land under wheat cultivation this year is thirbe found by carefully examining the reports from ty-three per cent. greater than in 1855, and the different parts of the country, etc. With labor decrease per acre in the production cannot be we have collected the returns for this year, and greater. give them below in comparison with the returns made out last year for 1857 and 1858, and which the failure or excess of a crop are almost invariwe have had no occasion to change.

The production of wheat in the several States for 1858 and 1859 may be stated as follows:

	WHEAT	•	
STATE.	1857. Bushels.	1858. Bushels.	1859. Bushels.
New York		20,000,000	22,000,000
Pennsylvania Virginia and North	20,000,000	20,000,000	25,000,000
Carolina		18,500,000	20,000,000
Kentucky		8,500,000	11,000 000
Ohio		22,000,000	26,000,000
Indiana		13,000,000	17,000,000
Illinois	18,000,000	14 500 000	20,600,000
Other States	50,000,000	42,000,000	60,000,000
	180,000,000	158,500,000	201,000,000

The production in the Western States, which have the largest surplus for export, is shown by the following figures:

	WHEAT		
STATE.	1857. Bushels.	1858. Bushels.	1859. Bushels.
Kentucky	10,000,000	8,500,000 22,000,000	11,000,000 26,000,000
IndianaIllinois	15,000,000	13,000,000 14.500,000	17,000,000 20,000,000
Total	68,000,000	58,000,000	74 000,000

The surplus for the present year in these States may be estimated as follows:

de long.		
Crop 1859	Bushels.	
Consumption 5 bushels per head	\$6,000,000	
Surplus crop 1859	38,000,000	

one-sixth to one-fifth of the surplus crop of 1858 by frost. In Illinois there has been some comis yet in the hands of the producers. fore have in the States, estimating last year's in some of the northern counties, but, notwithsurplus crop of the West at twenty-four millions standing, the yield will be thirty per cent. greatof bushels, as the gross surplus:

	Bushels.
Crop of 1859	38,000,000
Sixteen two-thirds per cent. on 1868	4,000,000
Total for export	42,000,000

The transportation of this at forty cents per bushel will give nearly seventeen millions of dollars to our canals and railroads.

It will probably be thought by many that this The Wheat Crops.—The wheat crop has gener-estimate of two hundred and one millions of sixty-five millions of bushels; and it is consid-The last official return of the whole wheat crop ered as not a large return for that year. In 1855

> It should be remembered that the reports of ably exaggerated. It has been found that unless a total apparent failure takes place, the difference between two crops rarely exceeds forty per cent., or between a small erop and an average one, twenty per cent.

> The wheat erop in the several States may be considered as harvested and partially ready for market. We can, therefore, give the following returns with some degree of certainty:

In New England the area was not larger than in former years, and the crop is not harvested, but promises, by its superior quality, a return equal, perhaps, to any previous year. In New York the crop is generally excellent, but in some few counties complaint is made. In Pennsylvania and New Jersey the breadth of land and the yield per acre have never before been as great. In Virginia and North Carolina the quality is superior, the land sown rather above the average, and the yield fully ten per cent. over an average and good crop. Tennessee and Kentucky have largely increased their breadth of land sown, and the yield per acre is above the average, while the quality of grain will make their wheat, as in former years, the best in market. In Ohio, the Secretary of the Board of Statistics has prepared careful returns of the wheat crop in that State, and estimates the yield at over 25,000,000 of bushels, showing that notwithstanding the frost, which was more severe in that State than any other, the yield will be larger than ever before by fifteen per cent. In Indiana the same It is estimated that in addition to this, from features exist as in Ohio, with perhaps less loss We there-plaint about the spring wheat, and of all crops er than ever before. In Iowa there is no complaint made either of yield or quality. In Wis- another, that is to saye, every moneth one grayne, consin and Minnesota the winter wheat is very and you shall know the rising and falling of not yet secure. In Michigan complaints have We suppose the hopping of parching peas in a been made, but they have local foundation. In hot skillet would foretell the price of peas by the Missouri the wheat crop is secondary to some same rule. others, but the press of that State express no dissatisfaction.

With export prices we should doubtless have a movement of the crop never before witnessed, but as this is dependent upon two things, namely, the continuation of the war and poor crops in called Vertebrates are divided into four classes. Europe, we shall perhaps witness no unusual The first two, fishes and reptiles, are cold-bloodmovement. Our people have not, in getting political independence, got, or even learned the same as the element in which they live. This value of commercial independence. We are, depends upon their respiration and circulation. therefore, dependent upon a foreign demand. If Fishes breathe by means of gills, and their blood now the producer and the consumer were both is purified only by the action of the small quanin this country, if our manufacturers use our raw tity of air held by the water, as it is made to pass material and our producers used home manufacthrough the gills. Reptiles breathe by means of tures, we should not have the anomaly of a peo-lungs, but their circulation is very sluggish, and ple almost fearing too large a crop, and hoping compared with the higher classes, but hitle blood for disasters to their neighbors almost, to enable in a given time passes through their lungs. Some them to sell their surplus. When will we learn reptiles, as the frog, in early life, (tidpoles,) wisdom?

RUSTICS NEED N'T KNOW MUCH.

The world has moved a pretty good stretch, in the education of farmers, within the last two cen- are warm-blooded, maintaining a uniform temturies, and we hope-indeed we know-that dur-perature in the different seasons, whether the ing the next two it will move comparatively a weather be hot or cold. Birds, with fishes and

ham, who lived at the commencement of the 17th marks which we make, has exceptions. The oscentury, wrote a practical work on husbandry, trich never rises on the wing, and the wings of with a view of enlarging the knowledge of the the penguin are formed into paddles as nicely as farmers of his day, and laid down what may be the tail of a muskrat or of a beaver. Mammals considered essential knowledge for them.

necessary for them to know.

than in double multiplication, though in never the air, the earth and the water. so fair an hand written." Markham had a curifore the days of combination of speculators in

breadstuffs. graynes on the harth, then mark it well and if it only two front teeth in either jaw, containing leape a little, corne shall be reasonably cheape, squirrels, beavers and rabbits; the Perchydergraynes the first day of every moneth one after sters, including the whale and the porpoise.

fine, and the spring wheat promises well, but is corne in every moneth, all the year following."

For the New England Farmer.

VERTEBRATE ANIMALS --- No. 2.

The grand division of the animal kingdom ed, that is, they have a temperature about the breathe by means of gills. Fishes are universally organized for swimming in water-reptiles for the most part are amphibious—living both in the water and on the land.

The other two classes, Birds and Mammals, good deal more.

The Horticulturist, quoting from "Philip's Progress of Agriculture," says that Gervase Mark-flight; but this remark, like many general reall suckle their young. This fact gives them He considered reading and writing not very their name. Whales and porpoises are commonly called fishes. They possess, however, all the As touching the master of the family himself, characteristics of mammals if we express them in learning, he thought, could be no burthen, but general terms. They are warm-blooded, viviparas becoming some of the servants, he says, "some ous, and breathe by means of lungs. Their teeth servants in husbandrie, as the bayliffe, the under and other organs correspond also with the organs farmer, or any other ordinary accountant, it is of mammals in their structure. The only thing not much material whether they be acquainted they have in common with fishes is, that they are therewith or no, for there is more trust in an organized for swimming. The bat is also a mamhonest score chaulkt on a trencher, than in a cun-mal, and not a bird, though it is organized for ning written scrowle. And there is more bene-flight. This class, then, seems to be formed in fit in simple and single numeration in chaulke, some of its orders to occupy the three elements,

The class of mammals is divided into nine orous method of finding how the corn market would ders. We cannot do more than mention them. open in each month of the year. This was be- There are the Bimana-two-handed-including man; the Quadrumana, four-handed, containing all apes, monkeys and baboons; the Carnivora. "If you would know," says he, "whether corne flesh-eaters, containing cats, dogs, wolves and shall be cheap or deare, take twelve principal bears; the Marsupials, animals with a pouch for graynes of Wheate, out of the strengthe of the their young-containing opossums and kangaeare, upon the 1st day of Januarie, and when roos; the Edentata, animals having no teeth in the harth of your chimney is most hot, sweepe it the front part of either jaw, containing sloths and clene; then make a stranger lay one of these armadillos; the Rodentia, grinders, animals with but if it leape much corne shall be exceedinge mata, or thick-skinned animals, including the cheape, but if it lie still and move not, then the horse, the hog and the elephant; the Ruminanprice of corne shall stand, and continue still for tia, or cud-chewers, containing the ox, the deer that moneth, and thus you shall use your twelve and the antelope; the Cetatians, or sea mon-

Each order has its genera, as the Ruminantia chusetts." has its Ovidæ, or sheep tribe; its Bovidæ, or ox says: tribe; its Cervidæ or stag tribe. Each genus has its species, and each species is composed of indi-symptoms of decay, while many of the old varieviduals. We have then the classification which uses which are scattered here and there throughpertains with little modification, to all material out New England are still in a bearing and objects, each term including the following: king- healthy state." Mr I. is disposed to attribute doms, grand divisions or departments, classes, the decay of the pear tree to curtailing the taporders, genera, species and individuals.

every man.

For the New England Farmer.

THE TAP-ROOT---DECAY OF PEAR AND APPLE TREES.

more spreading than the external branches; in the golden age of fruit culture? other words, that the roots never go down so deeply as the limbs extend upwards. And I very much question, if two old apple or pear trees—one having been planted without clipping the tap-root, and the other with it shortened—could other which will show their hardy nature in description. shortened, will grow again.

ing in the Farmer some observations deprecating growth, and all without any obvious reason. what seemed to be regarded the injurious muti-

Speaking of pears, this gentleman

"Most of our newly introduced fruits show ders, genera, species and individuals.

My next number will be upon the nature of process," practised by Van Mons, by which some species-a knowledge of which is important to of our first varieties have been produced. That we get our best pears at the expense of longevity of the tree, I have sometimes been inclined to believe, though not decided as to this point. The most common and hardy old pear trees we see around us, are the old "Iron," or "Black Wor-cester" variety. The fruit, as is well known, is When a seed of the apple or pear is planted, not fit, in an uncooked state, for a felon to eat, it throws down into the loose soil along, slender and no one now propagates it, hardy as it is. root called the radicle, and sends upwards a stem The demand at present is, good varieties at all called the plumule. The root, however, throws hazards. These old trees were undoubtedly out laterals, and the stem also puts forth side transplanted, as we see them set in order; and branches. Undoubtedly, the cause of the root if transplanted, they probably lost (intentionally, making so direct a descent, is the want of mois- or otherwise,) a portion of their tap-root, besides ture, which it cannot find within an inch or two having their trunks denuded. They were, of of the surface. How far it would, or should go course, grafted, as we do not imagine the Iron down for its own welfare, independent of its lat- pear will re-produce itself from seed. We see a eral or accessory roots, is a question. When the less number of the St. Michael, a very fine fruit young tree is transplanted, it is usually thought when free from cracks; also some Jargonells, advisable to shorten the tap-root, or radicle, so as Harvards, &c. The St. Michael trees are long-to multiply the laterals—thereby giving greater lived, though the pear is now worthless. Sixty power of absorption of vegetable stimulants, as years ago, only little attention was given to the each delicate spongiole has a mouth at its termi-culture of the pear; but undoubtedly propornation, by which it sucks in its liquid nourish-tionate failures and decay were difficulties to be ment. As the tree advances in growth, we fre-met with then as now. We do not see the trees quently cut off the leading stem to give the top which have prematurely perished, but only those greater expansion. It is generally conceded that which have lived. A half a century or more the operation does not in any way impair the from now, it will be something worthy of a record tree or obridge its life. Does the shortening of in history, if cultivators do not complain of the the tap-root injuriously violate the tree's natural premature decay of trees; and they will point to laws any more? Is the knife more repugnant to some of those which are now being planted, as it below than above? But it is said the tree evidence that it was not so formerly. Will they needs a long radicle in a drought to reach the not see the Fulton, the Buffum, the Dix, and moisture of the earth. If such is the case, then even the delicate Seckel, besides others of our the tree has the power to strike one, and probanatives? and also the Vicar of Winkfield, the bly does so, just as it possesses the power of Louise Bonne de Jersey, the Flemish Beauty, the forming a new vertical stem. In these respects, Glout Morceau, and others of foreign origin? the plant will take care of itself. There can be And seeing them in hardy old age, what more no doubt, however, that the roots of a tree are natural than for them to conclude that ours was

be taken up with the roots entire, both having fiance of mutilation. It is true these hardy ones had equal treatment, any marked difference could may not always be good, but we feel assured that be distinguished. I regard the single long tap-root as a thing pertaining to the tree's early ones, without exceptions, excellent. Diseases growth, and that clipping it gives it new vitali- and decay are frequently induced by poor culture ty in transplantation, however the tree may sub- and bad position; and some seasons, in spite of sequently vegetate or restore itself. Unlike the the best of treatment, the pear tree remains dorlimb of a man, the vital part of a tree, when mant, (even before bearing,) its leaves small and yellow, and its general indication deathly; and I was led to make these remarks by lately see-then in another year or so, it will make a heavy

Whatever may be said of the hardiness of seedlation of the tap-root; also from an article by ling pear trees with their tap-roots undiminished, Mr. J. M. Ives, of Salem, whose writings no one I have not been so successful with some young reads with more pleasure than myself, published ones in a nursery row, as with those which were in the last Report of the "Agriculture of Massa-grafted. They are liable to spring blight, uncon-

not the stronghold of vitality.

Occasionally some of their branches will hang bunches a piece per day, making it last nearly full of poor fruit; yet they show little evidence through the winter. My cattle eat it with a relish of longevity, or that they would not die of pre-that assures me it is a pleasant, and I think must mature old age. Certainly, we do not want such be a wholesome diet.

w. M. L. trees as these in our orchards and gardens. No; we need trees which have felt the influence of intelligent cultivation—the mind and hand of man -manure, the saw and the pruning-knife.

Many trees seem to have no central root, but the Ailanthus, and the Abele. If these trees do so well, may we not find encouragement in clip-

ping the radicle of the apple and pear?

But even granting that pear trees are decaying from causes noticed above, have we any remedy? It is true we can preserve the central root in the stocks; but how can we get the best sorts of Europe or of our own land, without we accept of scions that are the result of that "enfeebling good variety? Shall we use these scions, or shall we fall back upon the enduring tap-rooted trees, with their harsh and worthless fruit?

D. W. LOTHROP.

West Medford, July 15, 1859.

For the New England Farmer.

SECURING CORN---CORN FODDER.

Mr. Editor:—In the Farmer of July 9 I notice an article under the heading of "Corn and Corn Fodder," by J. Wood. He seems to favor the old practice of cutting the stalks, both on account of the grain and fodder and on account of cents will put an acre into excellent condition to the saving of labor in harvesting. I contend that give one and a half tons of the best hay for six it is not more than two-thirds the work to har- years in succession, at least, with the aid of a litvest an acre of corn to cut it up at the roots that the top-dressing. We say nothing of manure, as it is to cut the stalks as your correspondent would do. I consider it as much work to cut an acre of stalks, bind and shock them, as it is to Wood loses his time and labor entirely in cutting his stalks, for I know from my own experience that corn well secured in the shock will cure as sound and bright as that which is suffered to ripen in the butts. My method for curing corn is this: as soon as the outside husk on the ear \$16, would be \$24. begins to turn, I commence cutting. I place from four to six hills in a bunch, after which I bind and put four bunches in a shock. I then turn the tops of the tassels down and bind them, which prevents the water from getting inside the shock. I let it remain from two to four weeks, when it

ing of time and labor, and again in having the only half as much breadth.

stant in growth, and I think more liable to be stalks and butts together, which is not only a winter-killed-so that I have grafted some stocks great convenience, but is evidently better on acand given them a regular course of treatment, to count of their both being cut in a greenish state, save them from death. The tap-root, surely, is while in cutting the stalks only, the stalks are secured green and the butts are allowed to re-In travelling in the woods and uncultivated main till they are perfectly dead and dry, which spots, I have frequently met with seedling apple renders them of little value. Although I disatrees, of the existence of whose radicle there gree with my friend in some respects, I agree could be no doubt. They were scraggy, with with him in others. I fully endorse his practice many low and frightfully decayed limbs, and nu- of feeding his corn fodder in the winter. I make merous suckers growing up around their trunks. a practice of feeding to my stock one or two

Sullican, N. H., 1859.

SEASONABLE FARM WORK.

The best season in all the varied round of the rather roots very divergent and near the surface; year for seeding land to grass, is probably the yet they grow rapidly. Notice the plum tree, month of August. The days are long, and if the weather has not been marked by drouth, the land is usually sufficiently moist to make the operation of plowing easy and agreeable. It is a hot season, to be sure, but such advantage can be taken of this, by working early in the morning and a little late at night, as to overcome any objections on this account. It costs something to process" which alone is supposed to generate a break up an exhausted field, and re-seed, but it is better economy than to mow over the same land for a succession of years, and get less than a ton of hay to the acre, and that, quite likely, upon the best lands. Let us look at the items:

Hors- and oxen 1 day\$3,00
Man and bey
Use of plow
Harrowing and levelling
One bushel red top seed
One peck of herds grass871
Six pounds of clover

\$8,121

An expenditure of eight dollars and twelve that is a farm product replaced by the crops.

Now for the items again: The acre just plowed cut up the same amount of corn at the roots and has produced three-quarters of a ton, annually, bind and shock it. Therefore, I think our friend for the last five years. At \$16 per ton this would give \$12 a year, or \$60 aggregate for the five years, \$60,00

The acre newly seeded and properly laid down, will give one and a half tons annually, and at

Or in the aggregate	\$120 \$0
Balance.	\$60

in five years in favor of reseeding.

Then there is another item of importance in is sufficiently cured to haul to the barn.

I think I have the advantage of my friend the saving made by working less land—because Wood in two or three respects; first, in the sav- if the crop is doubled, it is necessary to cultivate

Another item of farm labor for the autumnal months, is that of preparing lands for cultivation. We do not mean to speak now so much of subduing the forest or the swamp, as of clearing up fields that have been cultivated, but which were only partially reclaimed.

That farmer's profits must be large, who can afford to plow, hoe, mow and rake over and around stones that might be sunk or removed. And now that the mowing machine and horse rake have been introduced, it is more important than ever before, that our fields lie smooth and fair, that we may avail ourselves of the advanta- illustrating the changes of our planet since its ges which these machines offer.

way in so many of the fine hay-fields of New eternity impress upon the mind! Yet, now, the England, there is nothing that we have ever seen equal to the Stone Lifter which was figured in another; and yet, the unmatured mind sees our columns last year, and of whose operations no change in all this wreck of matter and crush we have once or twice given an account. There of former worlds,-while the beauties of the should be one of them in every rocky town in landscape spread out before his vision, with all landscape spread out before his vision, with all landscape spread out before his vision, with all lits enchanting scenes of light and shade, awake no emotions in the soul, send no thrill of joy of ten acres may be cleared in two or three to the heart; and even when we call on those weeks, and the stones laid into a substantial people who live on the skirts of this beautiful wall, and we think this may be done at less than mountain, and have wandered o'er these hills one-half the cost it would require to do the work in the common way, with powder, iron bars and directing us where we can go to enjoy these beauoxen. These machines have been taken into tiful views of landscape and mountain scenery. New Hampshire and Vermont, and we advise Here we were left to take our own course, and our friends to avail themselves of the first oppor- find our way to the summit of Mount Horrid, tunity to see with their own eyes what they are as best we could. capable of accomplishing.

There are some other items of autumnal business which we will speak of at another time.

For the New England Farmer.

EXPERIMENTS WITH THE CORN CROP.

Abstract of Returns for 1858, page 203.

"Mr. Solon Carter, of Worcester North Agricultural Society, reported the last year, his experiment of the year 1856, with the following result, viz., Three lots of one hundred hills each, from the golden god of day. At noon we stood the date of harvesting, husking and shelling bequipon the utmost height of the gorge, on the ing the same. After husking, the ears were spread highway south of Mount Horrid. Cirrus had shelled.

Lot No. 1-Cut up whole and stooked. Weight of ears, 189 lbs.; of corn, 139 lbs.; of cobs, 24 lbs.; shrinkage, 26 lbs.; 14 per cent.

200 lbs.; of corn, 155 lbs.; of cobs, 26 lbs.; the north from where we stood. We stood at shrinkage, 19 lbs.—91 per cent.

shrinkage, 32 lbs., or 16 per cent.

As in 1856, so now, the corn which had the top stalks cut, weighed most at harvesting, and shrunk least before shelling.

committee of which he was chairman."

For the New England Farmer.

VISIT TO MOUNT HORRID.

MR. EDITOR:—After the labors which confine us to the drudgery of farm-life for the spring are accomplished, it is sometimes delightful to wander away into the solitudes of nature, and enjoy communion with the bright scenery of earth, which is so beautifully seen from those elevated peaks of the Green Mountains, spreading far and wide on each side of the green hills of our childbood; those enchanting elevations, which excited our curiosity in our youthful days, but where n riper years we behold

"fhis elder Scripture, writ by God's own hand,"

primary form in the incandescent state. O, what For removing the large stones that lie in the a mighty change does the infinitude of a past

It was on the beautiful morning of the last day of May, that our little party, consisting of four, started from Brandon at about eight, A. M., on a visit to Mount Horrid-that awful looking escarpment which lies a little north of the gorge, through which the road passes from Brandon to Rochester. We rode to the highest habitation of man on this side of the mountain, and there I send you the following note copied from the left our team and pursued the journey on foot. Secretary's Report on Massachusetts Agriculture, The morning was clear and the air salubrious at the time of starting, with all the prospects of a bright and sunny day; but before we reached the summit of the mountain, we observed the formabout six inches deep, and remained so until begun to obscure the sky, and soon there appeared a solar halo of unusual brightness. We were neither weary nor hungry, but intended to dine on the margin of some crystal rivulet near the summit of Mount Horrid. We were now Lot No. 2-Top stalks cut. Weight of ears, in sight of that rocky escarpment which lies to the termination of a hill, bearing a north-westerly Lot No. 3-Left standing whole. Weight of direction, and connected with the western side ears, 196 lbs.; of corn, 141 lbs.; of cobs, 23 lbs.; of Mount Horrid. Then up its eastern slope and across a rocky chasm, we wended our way to the rocky ruins beneath Mount Horrid.

Here, it seems, nature in her wildest mood scattered her rocky ruins in the most fantastic The lots for the above trial were selected by manner. Here, the frost of ages has been crum-Col. Philips, when examining the field for the bling the rocks from the brow of this awful eminence, and scattering them in rich profusion on

the side of the valley below. Above us, fire had ing look, as they lay piled up beneath the dark done its work of destruction, and the bodies of canoply of heaven. Long ere this the sky was the scattered spruce forest were strewed over the overcast with clouds, the token of an approachbarren and broken rocks, far above the rich foli- ing storm, which had gathered gradually through age of the valley below. But where did these the day. They were a smooth aspect, like the monarchs of the forest grow? There was no approaching nimbus, but did not entirely obscure soil save here and there a crevice, filled by the the sun, when I left our beautiful station on the torrent formed by some mighty shower; and mountain's side. I then started homeward, but becarried from the realms above. Here, perhaps, fore I arrived, a few sweet drops fell in advance and sent their thunderbolts among this rocky lightful, but far too short to study into the mys-

pigmy inhabitants of this lower world, travelling of scientific investigation. down the mountain turnpike in a one-horse buggy. Huge rocks grew steeper at every step; we clung to the decaying arms of the giant but prostrate spruce, and climbed the rotten tranks over the rocky defile. At last the summit of Mount Horrid was beneath our feet. With a telescope we saw farms and farm-houses, seattered far to the eastward, while in the distance lay the imposing outline of the White Mountains of New Hampshire. South of us, and across a deep valley, stood another mountain of equal height with Mount Horrid, clothed in the most beautiful foliage. The woodman's axe had apparently never rang through its solitudes, and its beautiful foliage will probably bloom there for many years to

The rocks are of a coarse, granular texture, composed of several ingredients, of which silica is one of the principal; hornblende and felspar, I think, enter into its composition, with a very minute quantity of mica. They appear to be unstratified, metamorphic rocks, ground down to small particles, and again cemented in a solid form. Here was a delightful region for a botanist. Thousands of wild flowers beautified the scene, and such a carpet of soft, velvety moss, does not exist in the lower regions of earth. This might with propriety be called the region of moss, for it was the most luxuriant growth I ever saw. It was above the region of maples, and the principal growth of timber was spruce and birch, with a small variety of shrubbery. I gathered a few wild flowers, promiscuously, for samples, but they were dead and withered before the Linnman system of botany.

Mountains, whose lofty summits have an impost then it will stop fruiting, "take to growing," and

the lightnings of heaven have spent their fury, of the approaching storm. My journey was deteries of nature. Every flower had but a pass-Ascending about half way up the rocky emiling notice, and every rock a cursory examinanence, and looking down, we saw one of the tion. My time was far too short for the purposes D. Buckland.

Brandon, 1t., 1859.

THE NIGHT BEFORE THE MOWING.

All shimmering in the morning shine, And diamonded with dew, And quivering with the scented wind That thrills its green heart through-The little field, the smiling field With all its flowers a-blowing. How happy looks the tolden field! The day before the mowing!

And still 'neath the departing light-Twilight-though void of stars, Save where, low westering, Venus sinks From the red eye of Mars; How placeful sleeps the silent field, With all its beauties glowing, Half s'irring-like a child in dreams-The night before the mowing.

Sharp steel, inevitable hand, Cut keen-cut kind! Our field We know full well must be laid low Before it fragrance vield. Plenty and mirth, and honest gain Its blameless death bestowing-And yet we weep, and yet we weep, The night before the mowing!

For the New England Farmer.

A NON-BEARING ORCHARD.

I suspect, Mr. Editor, that your correspondent "E.," who complains, in the Farmer of July 16 I arrived at home. As near as I can judge from that his thrifty orchard of apple trees does not the withered specimens, the little modest flower come into fruit-bearing, is like too many fruitdedicated to the immortal Linnaus shone con-growers-too impatient. If his trees are, as he spicuously upon Mount Horrid-the Linnea Bo-says, twelve inches in diameter on twelve years' realis or twin flower. It is the first time, I think, growth, they are, indeed, very thrifty trees, and I ever saw this little modest flower, and it brought the reason why they do not bear is to me very to mind the memory of the celebrated founder of plain. They are making wood, instead of making fruit. When they have come to their growth, l left the summit of Mount Horrid about or nearly so, they will bear all the better for not three, P. M., and wended my way in a south-westerly direction, toward the foot of the moun-nursery men, and I fully coincide with it, that tain. When part way down, I came to an open-early fruiting is, as a general rule, an indication ing in the forest, where with the telescope I had of disease in a tree. Some varieties, it is true, a splendid view of the landscape far to the west-ward. Yonder, in the distance, lay Lake Cham-plain, with its bright and shining waters, like a thing, early bearing trees are smaller in size at long white ribbon of silvery brightness, stretched maturity, and shorter lived, than those of more on the verdant landscape, while nearer lay Lem- tardy development of fruit-bearing qualities. It onfane, like a bright gem, amid the surrounding seen ry of green foliage. In the far-off distance will "take to fruiting" for a number of years, and ay the blue and rugged forms of the Adirondack for the time, nearly cease its growth of wood;

at the same time; and my advice to your correspondent is, to wait patiently a few years longer, and let his trees grow. They are doubtless paying a much better interest on the investment, in that way, than by an earlier development of fruit. If they are of the kinds which ordinarily bear well, there is little danger but that they will, in a very few years more, amply repay all the patience and care which their owners may devote to them.

I know there are exceptions to all rules, in fruit-growing, as in everything else. There are some soils, though they are very rare indeed, which will not apparently produce apples or pears. It is generally supposed that such soils lack entirely the ferruginous principle. Perhaps if your correspondent would try the experiment of seattering iron filings, or cinders from a blacksmith's forge, freely around two or three of his trees, digging them freely into the earth so that they may come in contact with the roots, he may soon ascertain whether his soil lacks the essential element of iron. I have known iron spikes driven into plum trees, to produce fruit when they had long been apparently barren; the iron acting, evidently, as a kind of tonic to the sap. But the instances are very rare in which thrifty, well cultivated trees, of the right varieties, fail to produce fruit at the proper stage of their growth. E. C. P.

Somerville, Mass.

A FINE GRAIN SIFTER AND ASSORTER

There is a great deal written and said now-adays about agricultural education, and agricultural colleges, just as though a young man could be put through a course of academic instruction, fy, beside listening to his speech. The little maand then through the routine of college learning, chine-if machine it could be called, that had not and be turned out upon the world a good farmer, or in fact, a good anything else. Few men amination we found that the operator could mix ever reach the quarter-deck excepting through half a pint of twelve different kinds of seeds, the forecastle. Genius outruns mere learning such as marrowfat, blue pod and pea beans, split every day, and gathers the harvest, while learn-beans, peas and split peas, coffee, buckwheat, rye, ing, or book education, merely, lags behind. But oats, linseed and grass seed, and in less than two

work, year in and year out, that makes the farm- into twelve boxes with almost unerring certainty. er,-hard hands, neglected dress and contempt able person wears?

Then the farmer should be something of a money than the whole, when sold together. merehant, too, understanding the qualities of the order that they shall return him a fair profit.

become a good sized tree before it bears another the same range of land, and their farms opposite particle of fruit. It seems to be out of season that trees should grow thrifty and fruit heavily and eighteen harrels of apples each to morbid and eighteen barrels of apples, each, to market the same fall, and during the same time. One of these men got a certain sum for his apples, and the other got just \$118,00 more, or an average of one dollar per barrel more! One had sufficient mercantile skill to lead him to assort his erop into grades, put them into clean and uniform barrels, and fix a price upon each class, and in consequence of this skill realized nearly double that his neighbor did on the same amount and quality of article.

We saw a man in South Market Street the other day, sifting beans, and as he seemed to have an interested audience about him, we joined the group to look, listen and learn. He had several barrels before him and a sort of tray-like box made of pine board, and filled with wire sieves. He rattled his sieves and chatted fluently about his business, telling his audience that he purchased the lot of beans before him, had sifted out four bushels of defective and small ones. worth as much as four bushels of the best yellow corn, and had sold the remainder for what the whole lot had cost! It had taken him two hours to do the work, and he had realized \$2.00 an hour for his labor! These are but examples of one kind of learning which the farmer needs. Boston market is the best institution in which to acquire it, of any that we are acquainted with. Such was the train of thought suggested by witnessing the operations of our friend, the bean assorter.

We had a further curiosity, however, to gratia bolt or serew in it-was before us, and on exgenius and learning combined, master all things. minutes from the time the mixed contents were The idea extensively prevails that it is hard put in, they were again separated and discharged

If these simple contrivances were in common of refinement. This, too, is all folly. At his use among farmers, what a mass of unsaleable work he should have whole, but strong and sub-oats, barley, wheat, rye, buckwheat, coffee, rice, stantial garments suitable to the occasion,—but peas, beans, &c., might be kept at home and fed at church or town-meeting, why should not his to stock, the cost of freight to market, and fredress be as fine and fashionable as any respect- quently back again, saved, while the good article, separated from the bad, would bring more

An Oswego, N. Y., dealer brought a lot of beans products in which he deals, their prices, and how to Boston market, and in consequence of imperbest to arrange and prepare them for market, in feet cleaning up, and of shrivelled beans, they were unsaleable. He passed them through a We are acquainted with two men occupying sifter and assorter, got out six bushels of defecprice for the remainder.

FORD ADAMS, Lincoln Street, Boston, who is a hard-working, ingenious man, and who has probably never eaten a pound of bread or meat since of the same part of that plant grown on the same he was six years old, before he had earned it. We soil, minus this addition, contained less chloride wish he had eight or ten platoons of young gentlemen and ladies under his charge, who think the soil." The chlorine had changed from the they have a right to eat and drink without first sodium of the salt to the potassium of the soil. having earned what they eat or drink.

For the New England Farmer.

ANALYSIS OF SOILS ... MANURES.

You hear, everywhere, from men learned, perhaps, in some branches of knowledge, but who never have experimented in agricultural chemistry, that agricultural science is merely this:-Analyze the plant and see what are its elements; sure-footed, that it is worth nothing. It is young analyze the soil, and see if the ingredients of and not perfected; but already, it has taught the plant are there, and if not, supply them. much that is valuable to every man that has a This is seemingly easy to comprehend, and rod of land, and there is hardly a man in New seemingly easy to execute; and many farmers England but has been more or less instructed, have thought that their sons could learn to though unwittingly. be their own practical chemists in one, or at most, two terms at an academy. I think that the establishment of nominal agricultural dedoes them no good to study at all. They need partments in our little academies have encour- a knowledge of chemistry to understand fully the aged the idea; though in the end it must have article we have written, and so much can be givquires as much time to learn to make reliable teacher, in a single term, to a class in agriculture. analyses, as it does to acquire the legal knowledge necessary for a lawyer, or the medical knowledge that can be given by a competent teacher, in a single term, to a class in agriculture. To have it valuable, the teacher should not be a edge necessary for a lawyer, or the medical knowledge that can be given by a competent of the property of the edge necessary for the trusty physician.

When the student of agricultural science is able to make reliable analyses, and hardly till then, can he understand the difficulties of the task he has undertaken. He will find that chemical analplants grow, that science, in its present state, most cows, exceeds that of the first in the procannot positively decide the matter. We quote upon this point, Prof. G. W. Johnson, of Yale College, and Consulting Chemist to the Connecticut State Agricultural Society. "He says:— who carelessly leaves but half a pint of milk underwork are every day drifting further from what he after every day drifting further from what a few years ago was considered one of the ral science, viz.: that a substance is chiefly a fer-butter. tilizer because it directly feeds the plant, and are learning from the numerous recent and carefully mental." "We are, therefore, compelled more and more to regard the indirect action of manures." This indirect action refers to the changes the original color of the wood.—Working Farmer.

tive beans, and then found a quick sale at a high that take place between the elements of the fertilizer and the elements of the soil. To illus-These sifters are made and sold by Mr. SAN- trate, we quote an example which he has given: "Wolff found that the askes of the straw of buckwheat, grown with a large supply of common salt, (chlorine and sodium,) compared with the ashes of sodium, but much more chloride of potassium; there having occurred an exchange of basis in This may explain the various effects of gypsum. If it is put upon a soil in which an ammonia salt will be decomposed and the ammonia set free, it is beneficial; but if it enters into other combinations, or remains inactive, it will be, as it very frequently is, of no value.

We would not, then, have the agriculturist expect too much, on easy terms, from science, nor would we have him expect too little. Do not think that because science blunders, and is not

Do not think because your sons cannot bethe reverse effect. Agriculturists should be dis-en at an academy or high school. There is much abused of this false notion, and know that it re-knowledge that can be given by a competent plied his science.

Wilbraham, Mass., July 21, 1859.

CLEAN MILKING .- It is sometimes forgotten ysis alone cannot enable him to direct with any that the last gill of milk drawn from the cow's considerable certainty, the best method of treat-ing a particular soil—no man can do it. The experiments made in England show (according chemical reactions in the soil are so complicated, to a report lately published,) that "the quantity and so little is known of the manner in which of cream obtained from the last drawn cup from but a few years ago was considered one of the most fixed and beneficial principles of agricultu- which gives the richness and high flavor to his

conducted experiments with manures, that in very many eases we cannot safely venture to predict what will be the influence of a given appliation of bayrta; avoid such paints. The baryta cannot of bayrta; avoid such paints. The baryta cannot PAINTS .- Pure paint is always better than adulcation; but find in practice the strangest and of baryta; avoid such paints. The baryta cannot most discordant results, it being literally possible hold the oil and soon rubs off. In painting wagto show from the experience of the farm that almost every fertilizer in use has in some instances of turpentine. Wait a little longer for the paint proved beneficial to every cultivated crop, and to dry, and it will last longer when dry. Use in other cases has been indifferent or even detri- pure linseed oil, and none of the patent rosin oil

AGRICULTURAL REPORT OF PLY-MOUTH COUNTY.

has attempted to make up a report, can fully of them to ladies. We do not hesitate to record sympathize with the worthy Secretary of the Ply-it as our opinion, that a beautiful bouquet, or mouth society, in his remarks upon the state-basket of flowers, is a more appropriate exhibiments of committees and competitors. It is too tion for a lady, than the exhibition of her person often true, that "very few statements of any ac- on a fast horse before a gazing crowd. curacy or importance, come into the hands of the Secretary."

by the exhibitor and the committee man, that as a good arrangement. The only objection to our agricultural societies do not, and were not it is, that the meeting of the Trustees must be designed to give premiums alone for the accident held, before the report can be got out. But, perof a fat ox, or a fat field, or a twenty quart cow, haps, this is the best way. With the incidents but they give a premium in return for some in- of the last exhibition in their mind, the Trustees formation accompanying the ox or cow, as to the will be better able to make arrangements for the how, the when and the wherewithal, which is what coming one. the farmers want to know, and which alone, in the reports of the society, can be of any benefit o the community." This is the true doctrine, and we are glad to see it made prominent by the Secretary.

their statements seasonably.

grain crops. Its corn crops have never been extithe stamens and pistils. Classifying by structure, celled in the State, and we are glad to see an at- we shall find most of the finest flowers of our tempt to place the yield of this crop on a basis gardens are very imperfect, their elegant double nature being gained at the sacrifice of the stawhich shall prevent all doubt hereafter, as to the mens, which by a beautiful metamorphosis, have accuracy of the reports. The corn is to be shelled changed to petals; on the other hand, a classifiin January, and weighed, allowing fifty-six cation founded on structure increases our interpounds to the bushel. Mr. G. P. Wood's corn, lest in many trees and plants. Few, probably, raised in 1857, was estimated by harvesting, and weighing two rods, at ninety-eight bushels per while some wonder at the interval which elapses acre. On being shelled and weighed in January, between the bursting of the dark brown bul 1858, it yielded 75 15-56 bushels, of fifty-six and the appearing of the leaves, that noble tree pounds each, which shows a great shrinkage be is centering all its energies in performing the tween harvesting and January.

sented and received premiums. We have no The statement that stamens and pistils are all doubt that the successful cultivation of grain that are necessary to form a true flower, may apcrops in this county is due, in great measure, to pear to some merely a theoretical truth, possibly the liberal premiums that have for many years been paid for them. We are glad to notice that explain how I can sustain the absolute assertion premiums were awarded for the skilful manufac- made at the head of this article, viz.: That there ture of the largest quantities of compost ma- are grape vines that cannot bear? And this nures. Charles G. Davis and Jonathan How-ard were well entitled to the premiums they ture is no waster of her recours; with her the furnished of their methods of operation. An in-seed, and therefore, if the parts necessary for the teresting essay upon the culture of corn, by that perfection of the seed are not present, rarely, if sound farmer, MORRILL ALLEN, will repay peru- ever, shall we find fruit.

gratification of most, if not all, the young men and boys assembled. Eleven premiums were Every Secretary of an agricultural society who awarded for the exhibition of flowers, nearly all

The report closes with a list of premiums offered for the year 1859. We notice that this "Let it be understood now and always, both practice is becoming common, and it strikes us

For the New England Farmer.

GRAPE VINES WHICH CAN NEVER

Most persons are aware that a flower is perfect The committee on premiums appear to have in structure when the stamens and pistil or piscaught the spirit of this officer, for we notice tils are present. It matters not whether the cothat three competitors for premiums on grain rolla, that brilliant circle of colored leaves, which crops, lost their premiums by not sending in in popular language is called the flower, be prescribed statements seasonably ent or not; a flower is perfect in structure when the organs which are essential for the produc-Plymouth has a high reputation for its large tion of seed are present, and these organs are most delicate and intricate work of the round Fine crops of barley and oats were also premyriads of seeds.

For several years we have had growing upon our trellis two seedling grape vines, which had Two married ladies and three single ones dis- been selected for the superior vigor of their played themselves on horseback, no doubt to the growth from a large number of seedlings. All of

but these two, which bloomed most profusely, as that will operate beneficially for several years. yet would never set a grape. Struck by the phenomenon of vines abounding in fragrant blossoms without setting fruit, I gathered the blossoms and compared them with those from fruit-bearing vines. The difference was at once apparent; \$2,25. Mr. Gwinneth, the seedsman of that esthe blossoms of the two vines which had never borne were not perfect in structure; the stamens were present, but the pistil was wanting. Such vines cannot bear-it is a physical impossibility. Had the pistil been present they might have borne, though the stamens had been wanting, receiving pollen from the stamens of other vines; as it was, the only practical use that could be made of such vines was to use them to impregnate other vines with a view of obtaining a larger variety of grapes from the seedlings to be raised from them.

I have thought, Mr Editor, that the fact that some of the most vigorous seedlings are nonbearing vines might be new to some of your readers, and be a fact worth the noting by those enterprising men who are now engaged in raising new varieties from the seed.

J. J. H. Gregory.

Marblehead, Mass., 1859.

EXTRACTS AND REPLIES.

NIGHT SOIL - SAND ON MUCK LANDS - FOWL MEADOW AND BLUE JOINT GRASS SEEDS-TALL OAT GRASS-MEADOW FESCUE.

I have been told that sand put on low land in quantities is injurious. Is it so?

Where can I buy fowl meadow and blue joint

grass seed, and at what price?

Nashna, July, 1859.

REMARKS .- Pure night soil is too pungent and

and stifle it, so that it will remain inert for years. rience, only, but the exercise of a sound judg- other. ment. We once knew a good farmer to cover a piece of muck land with sand, and in order to make a capital thing of it, he put the sand on four inches deep all over it; the consequence break the grains, and gives every particle of the was, an inactive, dead piece of land partially covered with a minute, greenish moss. The land was imperfectly drained, and was kept moist by showers and capillary attraction, so that there was just enough of the breath of life in it to clothe it with the vegetation we have just mentioned. Low, black muck lands are greatly bentioned. Low, black muck lands are greatly ben-milking. I slap her smartly with my hand two or efited by the application of sand,—but it must be three times or more upon the flank, and speak applied judiciously, in proper quantities, and sternly to her, and do this at the time, never for

these seedlings had produced specimens of fruit, to one inch in depth is sufficient for a coating

You can purchase any of the grass seeds at Nourse & Co.'s, 34 Merchants' Row. Fowl Meadow Seed is \$4,00 per bushel-Blue Joint tablishment, thinks one bushel of the fowl meadow, and the same of the blue joint, would not be too much for an acre. That would be expensive seeding-but if the crop were allowed to ripen occasionally, the land would keep seeded for many years. There is very little fowl meadow or blue joint grass seed brought into market.

The Tall Meadow Oat Grass and the Meadow Fescue would probably be good grasses to mix with the fowl meadow and blue joint.

SUPERPHOSPHATE AND GUANO.

At what season of the year should superphosphate be applied to produce the greatest effect upon grass land? How should it be applied to corn—after it comes up, as we apply plaster, or put into the hill and covered before planting? Upon what kind of soil does it produce the most beneficial results? I wish to make the same inquiries about guano.

Cornwall, It., 1859.

Remarks.—Apply guano or superphosphate in the spring on grass land during a wet time. I wish to know if night soil is injurious to Upon corn put it into the hill. They are useful on any soils that we plant corn on.

HOW TO MAKE GOOD BUTTER.

Skim the milk as soon as it sours, and before How much seed per acre, and what other seed it thickens, if possible; stir the cream faithfully, would do well on moist land that can be plowed? especially when new is added. Set the jar in a cool place; if the cellar is not cold and sweet, set it in the spring, or hang it in the well-any way to keep it cool. After the last cream is added quick for any crop. Well mixed with loam or before churning, then "go a visiting" if you muck, there is little danger of using too much of please, as cream should not be churned the day it is taken off. At night fall, fill the churn with So much sand may be applied to a wet piece of cold water, and start the churning at early dawn land as to keep out the action of the sun and air, and my word for it, you will soon find a solid mass of golden-colored butter, free from white specks, and when properly salted and packed, fit Every operation on the farm requires, not expelifor the table of our friend the Farmer, or any

> N. B. After the buttermilk starts, pour in cold water, a little at a time, turning the crank slowly and carefully back and forth; this prevents the butter from closing too rapidly, does not cream a chance to form into butter.

"In a multitude of counsellors, there is safety." Aunt Rhoda.

North Cambridge, Vt., July 25, 1859.

TO CURE KICKING COWS.

My way is this: if a cow kicks when I am spread evenly upon the surface. Half an inch a moment leaving her, keeping my hold of the

teat if possible; when she becomes quiet I caress her with the hand, and soothe her by gentle words, thus letting her know what I want. This will, I am sure, prove effectual, for cows are like school-boys, who, if they know they can overrun the master with impunity, will continue to do so. A cow once thus subdued will become gentle and docile. E F. B.

Enfield, Mass., July 25.

EFFECTUAL REMEDY FOR POISONED SHEEP.

Open the sheep's mouth and with a sharppointed knife, bleed the sheep in the third or fourth bar or ridge from the entrance of the mouth, and the work is done, and a cure effected without pining away or loss of flesh, as in corn will be partially, at least, protected and most other remedies. I have applied the above remedy to several sheep that were flat on their sounder. sides and appeared lifeless, and have not lost one E. G. Allis.

Whately, Mass., July 26, 1859.

TRANSPLANTING EVERGREENS.

of your subscribers concerning transplanting ration. pines or evergreens, I will give my plan. As earand cedar,) and took them up with the native the loss in the top stalks. near the house. I gave them a little attention, topping. keeping them well watered, and I have now the pleasure of seeing them prospering finely.

GEORGE C. LAWRENCE.

Vineyard, Winchester.

PICKLES.

cider vinegar and cucumbers, I can make pickles that will keep hard the year round, without salt- be a surer prevention of this disease than those ing them down? I have tried it several times and in a little while they grow soft and are unfit and which have not been found to remedy this for use. A LOVER OF GOOD PICKLES. Putney, 17., 1859.

how to make pickles, but we believe people gen-velops in the form of a moldiness on the upper erally consider that salting cucumbers is the best surface of the foliage, and frequently extends and mode of keeping them for a long time.

A RUPTURED COLT.

bad breach at the navel. Can you, or any of tered city yards, where drying winds are arrested your readers, tell me what to do for it? If a in their sweeping progress, and where a quiet pad can be put on to do any good, now must the and more humid atmosphere prevails, the foreign rigging be fixed to keep it in its place? The grape will frequently attain to a fair perfection. opening through the membrane is nearly an inch and a half in length. W. C. B.

Putney, Vt., July, 1859.

has been located in Storer county, thirty miles osophical, or so much in accordance with recordnorth of Des Moines city. The site is said to be ed facts, as that which connects it with mildew. one of the most beautiful to be found in the State. There are 640 acres of land connected with the the "under" side of the feaf is attacked, destroybuildings.

For the New England Farmer.

TOPPING CORN.

Some of your contributors differ relative to the practicability of cutting off the tops of corn.

My limited experience in the culture of corn, much inclines me to favor the practice of cutting off the tops at an early day. The reasons for so

doing in brief are as follows:

As soon as the corn is full, remove the top. The hot sun soon sears the cut end of the stalk. and what supply of nourishment was intended for the top, is saved for the ear; consequently, the ears will ripen faller than it otherwise would. If the tops are removed previous to the high winds accompanying autumnal storms, the saved. The corn will ripen sooner, and, I think,

The tops will be worth double what they otherwise would be to remain until the corn is suf-

ficiently ripened to put into shocks.

The sugar contained in the stalk is its real The sooner the top is cut after it attains its full growth, the more is saved. If suffered to Seeing a paragraph in your columns from one remain, nearly all of its value, escapes by evapo-

True, if you cut up and shock before the corn ly in the spring as possible, I selected a few is quite ripe, you save a trifle in the value of the small trees from the woods, (a pine, a hemlock butt stalks; but not enough to compensate for The increased labor in soil which adhered to them, and planted them tying up and shocking will quite balance that of

Georgetown, Mass., 1859.

MILDEW AND FRUIT.

Mr. Editor:-My friend, Mr. Saunders, of Philadelphia, says that the cracking of the pear Will any one who knows, tell me how, with good is the result of a species of mildew, and it may be found that applications of sulphur water will special manures which have been recommended, evil, or give indications of a curative process.

The peculiar mildew seen on the foreign grape Remarks.—The "cook-books" give directions duced by atmospheric aridity. This mildew exenvelopes young growing shoots, in which case the bark seems to contract and crack into lengthened openings. Here can be traced a close resemblance to the cra king of the pear, going for I have a mare colt, six weeks old, that has a to prove that it has the same origin. In shel-

So also the White Doyenne pear is annually produced in its greatest perfection on trees similarly located, while in open exposures a few miles distant a fair specimen cannot be procured. No reason that has ever been brought forward IOWA FARMERS' COLLEGE. - This institution on the probable cause of pear-cracking is so phil-The mildew seen on the native grape is apparently a different fungus from the above. Here ing the vitality of the tissue, which is then ten-

ives decay and wither. When this occurs dur- week or more in moss or sawdust. g the ripening of the crop, the sudden loss of diage prevents it from maturing, and hence any bunches will show one-half the fruit black and the other green. This apparent scorching is most noticeable during the months of August and September, when heavy night dews are succeeded by hot sun, or after a few dull or rainy days .- Prairie Farmer.

BUDDING.

Budding, or inoculation, is the same as grafting in its effects, as in both cases the young shoot starts from a bud. It is performed at a different season, and usually on small stocks. It has the advantage of grafting in the more rapid multiplication of a variety, in being more expeditious, in allowing, frequently, of a repetition the same season, in case of failure, and of the operation without injury to the stock, and it is surer than grafting on stone fruit. It is the most common mode of propagation in nurseries, but it is not much practised on large trees, nor even on small standards, (excepting stone fruit, peaches in particular,) as grafting is preferable.

from \$\frac{1}{4}\$, \$\frac{1}{2}\$ or \$\frac{2}{3}\$ of an inch in diameter are suitable knife, make a perpendicular slit, just through for budding, and even those of an inch will answer, but they are more proper for grafting. It in the form of a letter T. It is well to make the is of great importance that the stock be well es- cross-cut in a circular form, that the band may send up a strong, straight shoot, forming a good trunk for a standard, else it will be stinted and scraggy, and difficult to form into a good tree.

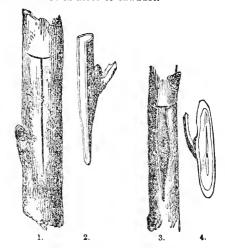
TIME FOR BUDDING. - Much depends on various circumstances, such as age and thrift of the stock, the weather, the season, &c. Judgment must be constantly exercised, (and then we may fail,) for we can no better set an exact time for budding than for cutting grain in future years. In this climate, if the stocks are young and of common vigor, and the season and the weather as to moisture about as usual, the time for budding is generally from the 1st to the 25th of August.

Preparation of Scions. — As soon as the scion is cut, trim off the leaves, leaving about one-third of an inch of the foot-stalks, else the leaves, which transpire moisture rapidly, will absorb it from the buds, and quickly spoil them. In hot, dry weather, they may be spoiled in this way in two hours.

If the scions are to be used soon, wrap them in a damp mat or cloth, or, for convenience, put them in fine grass or leaves, and wrap in paper. Stick of Buds. To send a distance, pack in damp

moss, or in damp sawdust, in a box. awhile, wrap up or pack as above, and lay in a days in winter. cool place, in the cellar, or bury a foot deep in the ground, in a cool, shady place. They will ture, new and strong, are cut into suitable lengths

er, and is speedily scorched by the sun, and the be kept several days in grass or leaves, and a



- 1. The stock prepared for the bud. The bud with the wood taken out.
 The stock with the bud inserted.
- 4. The bud with the wood in.

Mode of Budding .- The most common and Subjects for Budding. - Stocks or limbs the best is T budding With a sharp budding the bark, about an inch long, then a cross-cut, tablished and in vigorous condition, that it may cross the cut. With the ivory at the end of the handle-knife, raise the bark a little at each corner, below the cross-cut. If one has not a budding-knife, this may be done with a piece of sharpened hard wood or with the knife-blade. Lift up the bark, not force the instrument between the bark and wood, and disturb the cambrium or new layer of soft matter.

Hold the but of the scion from you, and insert the knife about one-half an inch below the bud that is next the but-end, and with a gentle curve cut about to the depth of one-fourth the diameter of the scion-more in small, soft or rather green scions, and less in large scions of firm and ripened wood-and bring out the knife about half an inch above the bud. Then put the bud under the bark, and slide it down the vertical slit till the bud is a little below the cross-

cut; then, if any of the bark remain above the cross-cut, cut it off there, making a neat fit. Some make the cross-cut below the perpendicular slit, and run the bud upward, but this is less convenient, and no better.

Wind the matting closely around the stock, so as to cover all the vertical and transverse cut, barely leaving the bud uncovered; tie with one bow-knot on the same side as the bud. Bud on any side excepting the south, where the

To keep sun may injure the bud in warm The bud tied in.

Bands.—Mats such as are used around furnikeep longest in the moss or sawdust. They may and used for bands. The soft, pliable, inner bark



or rind of any trees, like bass or linden and elm, is good. Suitable materials can be had at agricultural stores. Some use cotton wicking. Woolen yarn will answer. Some budders use strips of cloth listing from the tailor's. This stretches as the stock grows, and needs no loosening. India-rubber and gutta percha are used by the curious. Matting and such material should be wet before used, to make it soft and pliable.

AFTER MANAGEMENT.-In ten or twenty days after budding, according to the vigor of the stock, the bud will have united with the stock, and if the band binds closely, so as to cut into the bark, it must be loosened and re-tied as before. If the bud has dried and shriveled, the stock may be rebudded, if the bark peels. about three weeks after budding, if the bud is well united to the stock, the band may be removed. But if it does not bind, it may remain. If it remains on during winter, the ice is more likely to gather around the band and injure the bud. As the bark of the cherry curls, the band needs to remain on longer than on other stocks.



In the spring, from the bursting of buds to the leaves becoming half size, cut off the stock in which the bud is good, to within two or three inches of the bud, and when the bud has started, tie it to the stump, if it inclines off. Keep down the sprouts; and in July, cut off the stump even had invested more from year to year in the imwith the bud, and keep down sprouts and suckers.—Cole's American Fruit Book.

For the New England Farmer.

AN ANCIENT TREE.

beyond doubt the oldest fruit-hearing tree to be ces, all told, are not as good as though larger inacts relating to it are worthy to be recorded.

twenty years ago, or more, was erected for the come derived from it. preservation of the tree, has fallen into a dilapidated condition; which together with the over-off the products of the farm to a considerable exgrown weeds and meagre crops about, impressed tent, and purchase town manures; and this me fully with the belief that the estate had fallen course will do, provided enough manure is bought into hands that "knew not Joseph." The site of to compensate the land for bearing those prothis Endicot farm is one of the most picturesque ducts. But in by far the generality of cases the and beautiful in the county; and it is a disgrace farmer must mostly rely upon the manure made to the name, that it should be left in a condition on his own farm. so abandoned.

July 29, 1859.

For the New England Farmer

THE IMPROVEMENT OF LAND

BY FEEDING OUT ITS PRODUCTS AND GIVING BACK THE MANURE.

BY FREDERICK HOLBROOK.

It appears to me that, generally speaking, the great aim in farming, here in New England, should be, to devise and perfect ways for expending the various products of the soil upon the farm, so as to get about as much for them in the growth of stock, the meats, dairy products, or wool, &c., into which they have been converted, as though they had been sold off for money; thus giving back to the land the manures the crops may make, increased in quantity, of course, by all judicious modes of composting with them the various unemployed or waste vegetables and other substances of the farm which contain the elements of fertility.

The mistake has been, and still is, too common, of selling off a considerable proportion of the grain crops especially, and converting them into money. If any surplus were left after paying debts and expenses, that has generally been invested either in the purchase of more land, or at interest, or in stocks and other property outside of farming. The farm thus not receiving back a sufficient compensation for the products it has borne, has been undergoing a gradual waste of fertility, and generally has not been as profitable to the owner as it would have been under a more generous cultivation. Indeed, his income, from all sources, is perhaps less than if he provement of the soil, looking to a highly cultivated farm for dividends, and less in merely added acres, or in stocks and other outside property. Cases are not rare of men who have worked hard, during the best working period of their life, to get enough income from their farms, over and Yesterday, in company of friends, I visited the above expenses, to make an annual investment renowned Endicot pear tree. I found it vigor of money at interest, or in some kinds of stocks, ous in growth and fairly loaded with fruit, of me- so as to have something, as they term it, laid up dium size; not yet matured. The tree now con- for a wet day, or for old age. But the difficulty sists of many sprouts from the shell of the trunk, is, they have been exhausting the farm by so dorising to the height of twenty feet or more. The ing, and as life advances and they find themselves trunk has a hollow appearance, indicating that less able to labor on the land, the farm is less the original tree was about two feet in diameter. productive than when they were young, will not Tradition says that it grew to the height of 40 reward labor as formerly, and much hard and feet or more. If my reccollection is right, a sketch discouraging work must really be done to get a of the appearance of the tree was furnished a few tolerable return from the investment. They are years since for the N. E. Farmer, by your observ- not so well situated to live easily and pleasantly ing correspondent, Mr. S. P. Fowler. As it is in old age, and, perhaps, their income or resourfound on our shores, having been in bearing con-vestments had from time to time been made in dition more than two hun red years, all reliable the improvement of the soil, the farm growing more and more productive, and requiring less I could not but regret that the fence, which hard labor than formerly, in proportion to the in-

There may be instances where it is best to sell

The hay and coarse fodder are generally mostly fed out on the farm, but often the principal

out the greater part of the grain along with the equivalent in manure for the corn thus sold off. hay and other forage, and let the income of the arm be derived mainly from the stock. The ber of bushels of grain of any kind produced on grain fed with the forage adds a peculiar essence an acre of land, or on the farm, and place it in a or strength and activity to the manure heap, is pile together. It makes only a small heap, even emphatically "the leaven which leavens the whole lump," and has a very marked influence in increasing the products of the farm generally. The cent. of the very essence of the fertility of the land will be more productive in every kind of soil that produced it, and has taxed the land far crop than if the grain were sold off, and it only more than if it had only produced the stalk and got back the colder and less fertilizing manure leaf of the plant, or in other words, a forage crop made simply from hay and coarse forage.

products of the farm will be so much increased and fertilizing power of the farm-yard manure, that considerable more stock can be kept on it, and greatly quickens the soil to renewed efforts which will, in turn, make more manure for the at production. Then, again, by feeding out the land. These influences will work back and forth grain with the forage crops, and thus making one upon the other, so that in fact the business manure abounding in gases and salts, you may will grow more and more profitable, and the incompost with it much larger proportions of muck, come will increase more in proportion than it will turf, the rich soil washed into hollow places, or be necessary to increase the investment. There other materials gathered up about the farm to are hardly any limits to the productive capacity swell the manure heap, and have them all de-of our farms, if we will only study out ways of composed and sweetened and prepared to become expending our crops judiciously, and making the the food of plants, than you could properly use most of the manures they will return to the soil, if the cattle-droppings were alone composed of Sections of country may be pointed out in Eu-the more lifeless and inactive elements derived rope, not naturally more favored for soil and cli-only from hay, straw and other forage. mate than our own, where the land has been cul-tivated for hundreds of years, and is now more "the more meat a poor land farmer sent to Smiththat is in high cultivation, and is judiciously If cattle cat straw alone, the dung is straw alone, cropped, can be kept at a high mark of fertility the cattle are straw, the farm is straw, and the with ease, as compared with making exhausted farmer is straw—and they are all straw togethland fertile. The very luxuriance of the crops er." gives back a large mass of roots and stems to the Not long ago, I had four cows come up to the from exhausted land.

part of the grain is sold off directly for cash. Now I have the impression that in the long run, all things considered, it might be better to feed off to market for cash, and the farm robbed of an

ade simply from hay and coarse forage.

Of any kind. This grain, fed out with the hay After a few years of this kind of feeding, the and other crops, adds wonderfully to the activity

Mr. Coke, the late Earl of Leicester, once said, productive than at any former period, and far field, the more grain he would be enabled to sell more so, acre for acre, than the very best virgin per acre at Mark Lane. Convert plenty of corn soils and lands of our own country. Another and cake into meat; for the value of farm-yard thing deserving particular consideration, land manure is in proportion to what it is made of.

soil. Especially is this the case when a grass stable in the fall, which I thought might yield a sward has been allowed to form; so that in good supply of milk through the winter, if well breaking the sod for a new rotation of crops, we fed. I also had four other animals cows and can turn under many tons per acre of matter fertilizing to the land, contained in the roots and milk till the following grass season. The first stems of the sward. Then, too, land in high confour were tied in the stable side by side, and redition is much less injuriously affected by unfa-coived each, in addition to hay and stalks, four vorable peculiarities of the season, as to drouth quarts of small potatoes each morning, and two or moisture, cold or heat, than if it were in poor quarts of corn and oat meal each evening, through tilth, and indeed is in a good degree independent the winter. As was expected, they gave a good of these peculiarities. In any season, it will pay mess of milk, and came out well in the spring, a larger profit in proportion to what has been ex- The manure of these four cows was thrown out pended to obtain the crop, than can be derived of a stable window, under the cattle shed by itself. The other four animals were tied in the In feeding out the grain crops pretty freely on same stable, next to the first four, and received the farm, there will be some years when the only hay and corn-fodder. Their manure was growth of stock, the meats, the wool, the dairy thrown out by itself, at the next stable window, products, &c., into which the grain has been con-verted, will sell high enough to pay considerably lay side by side. The heap made by the four more per bushel for the grain than it would have cows that were daily messed with potatoes and brought had it been sold off the farm; other meal, kept hot and smoking all winter, and was years the grain may perhaps bring a greater im- wholly free from frost. The heap made by the mediate income if sold off; but taking one year other animals that had only hay and stalks, with another, and considering the steady im-provement of the farm, where the crops are ex-pended upon it, there will be more profit in feed-time to time, curiosity prompted me in the spring ing out the grain than in selling it off. In a peto apply these two heaps of manure separately, riod, say of twelve or twenty years, I am inclined but in equal quantities, side by side, on a piece to think that seventy-five cents per bushel real- of corn ground. The superiority of the corn crop, ized for corn, for instance, fed out on the farm, where the manure from the messed cattle was

feeding out our hest or richest products, if we of making it. would have the best kind of manure for our lands

and large crops from them.

duced by the farm, fed out upon it, and say, seven they will make the farm shine! to eight dollars per ton realized for the same, and 'But I have not space to extend these remarks the manure given back to the land, would gener- about feeding. In some of these, or other ways, ally, in a term of years, be as valuable thus dis- the principal part, at least, of the grain and other posed of as though it were carried off to market crops of the farm may, generally speaking, be and sold for twelve dollars per ton, and the land more advantageously fed out, and the manure not compensated by an equivalent of manure, they will make given back to the land, than to Also, how the feeding of potatoes, carrots, and sell them off so largely as is often done. And I other root crops adds to the quantity and quality think a farmer had generally better have his capof the manure, and the profit of keeping speck, ital mostly invested and actively employed in But these matters would form another branch of farming highly cultivated land, and in good stock, the general subject, the treatment of which feeding out his crops on the farm, and deriving would make this communication too long.

the ways in which the grain crops may be profi- haps, in money at interest, or in stocks and other tably fed out upon the farm, though I can no outside matters. more than barely mention them at this time.

It is generally good farming to keep at least a few cows, for their dairy products, and in connection with them, about an equal number of. spring pigs of a good breed, feeding the skim! milk, &c., of the dairy to the pigs, together with grain. When pork brings seven cents per pound derived from the cows.

fall, weathers of a good breed of mutton sheep, and its course very irregular—first to the right, feeding them a portion of grain along with hay then to the left, and bounding like a ball." and other crops, say till into March following, At length, as it neared the village, it struck a and then selling them to the butchers. The new and commodious carriage shop, belonging

effect upon the soil of the manure from fatting ry alone costing about half that sum.

applied, over that where the other heap was cattle of a good breed, for their growth and imspread, was quite apparent and striking; and provement, feeding them a little grain along with called my attention, more particularly than it the forage crops. Their growth and general imwas ever before directed, to the importance of provement often pays a large profit on the cost

There is the keeping of sheep, to a greater or less extent, for their wool and increase; where I might here go on to show that the hay pro-things are right for keeping a flock of sheep, how

his income through the stock, than to have it It may be proper to briefly indicate some of partly in a poor, run down farm, and partly, per-

Brattleboro', July 29, 1859.

For the New England Farmer.

A TERRIBLE WHISLWIND

Mr. Editor:—The most violent and destrucand corn one dollar per bushel, I have found it tive whirlwind ever known in these parts, passed better to feed the corn to March pigs of a good through Groton, on the 26th ult. It was a most breed, slaughtering them at nine or ten months terrible sight to behold, and powerful almost beof age, than to sell the corn off for eash. By youd comprehension. It was sure destruction to supplying the pigs with suitable materials, they every movable object with which it came in conwill make each five or six ox-cart loads of first tact. My informant, who saw it at its first start, rate compost. The pork thus made will bring says: "I'wo opposite winds appeared to meet; about a cent per pound more than pork of the the clouds rolled together with terrible force, average quality in the markets, and meat of the roaring like some mighty water-fall. Suddenly, roasting and steak pieces will be about as tender there appeared to rise from the earth a black and delicate as that of the breast of a chicken, cloud, which, taking an easterly direction, whirled The skim milk thus fed adds much to the growth and rolled like the smoke of some great conflaand general thrift of the pigs, and is worth a gration. The whirlwind was now under full head-considerable per cent. of what the new milk way; in a few moments the air was filled with would bring if sold off the farm for cash. In ad-branches of trees, then small trees, and finally it dition to what is realized from the pigs, there is increased to such force, that trees apparently two the value of the dairy products and the manure feet in diameter were wrenched from the ground and whirled into the air, like so many shingles It often proves profitable to buy up, in the or straws. Its path was but a few rods in width,

grain and hay thus fed out will generally bring to Mr. Almond Clark. Mr. C. and a number of more money, in the improved peliand carcass of workmen were in the building when the wind mutton, than though they had been sold off disstruck it; luckily they all got out uninjured; one, rectly for cash, and there is the manure left to however, being a little behind the others, jumped give back to the farm. Then again, sheep ma- from the door after the building was six feet in nure is peculiarly active, and inclined to fermen- the air, and landed in the cellar. The building tation, and mixed with the other farm-yard ma- was carried several rods, and completely smashed nures, it quickens the effects of the whole upon to pieces. Before the building started from its the soil and crops. I might say more about this, foundations, one of the men saw some large but must pass on.

Stone which lay near, taken completely up and There is the feeding of cattle for beef, which carried several feet. It required two yoke of oxen has always been successfully practised; and eve- to draw the stone. Mr. Clark's loss is estimated ry farmer knows how much more powerful is the at seven or eight hundred dollars, the machinecattle, than that from cattle which only have hay whirlwind next struck the upper part of the and other forage.

Methodist church-the hill on which it stood It is generally quite profitable to rear young breaking the force, or rather, it bounded upwards,

for its force was not yet abated, and completely uncovered one side of the roof, and breaking in about half the windows, besides otherwise injuring it; probable damage fifty dollars. After leaving the meeting-house, the whirlwind was lief that anthracite coal ashes possessed no little too high to do any very serious damage, until it manurial value; hence I placed it in liberal quanpassed over the village, although even then it tities around apple trees and a few currant bushmoved every article in its way, which a high es. I thought they gave some vigor to the latter; gale of wind would scarcely do.

Its next demonstration of power was on a high I could perceive no effect. hill back of the village. It struck two barns belonging to Mr. Whicher, (if I mistake not,) and of vegetable compression and decay, or transforcompletely demolishing one, and unroofing the mation-although this doctrine is questioned. other, besides doing some damage to his house, At any rate, it appears to us with more of the and tearing up almost every tree in his orchard; characteristics of a mineral than of anything and himself and hired hand came near going the else. The late Prof. Norton analyzed a peck of same road that Elijah of old did, but however, the ashes of white ash coal, and found only about they managed to keep on terra firma, except twelve per cent. of it soluble in acid. Of imtheir hats, which they knew it was useless to portant fertilizers—it contained only twenty-two look for. cept the destruction of fences and timber. After per cent. of potash; and eighty-six of one per leaving Mr. W.'s, it struck Ryegate Mountain, which probably stopped its wild career, as we hear of it no farther.

We are having a hard drouth: the pastures er than ours. are all dried up, and most of the springs, as well as the cows, corn and potatoes. Hay is mostly harvested, and is good; grain is fair. South Ryegate, Vt., August 2, 1859.

A FARMER'S SONG.

We envy not the princely man, In city or in town, Who wonders whether pnmpkin vines Run up the hill or down: We care not for his marble halls. Nor yet his heaps of gold, We would not own his sordid heart For all his wealth thrice told.

We are the favored ones of earth, We breathe pure air each morn, We sow-we reap the golden grain-We gather in the corn; We toil-we live on what we earn. And more than this we do, We hear of starving millions round. And gladly feed them, too.

The lawyer lives on princely fees, Yet drags a weary life : He never knows a peaceful hour-His atmosphere is strife. The merchant thumbs his yard-stick o'er-Grows haggard at his toil; He's not the man God meant him for-Why don't be till the soil?

The doctor plods through storm and cold, Plods at his patient's will: When dead and gone he plods again To get his lengthy hill. The printer, (bless his noble soul,) He grasps the mighty earth, And stamps it on our welcome sheet, To cheer the farmer's hearth.

We sing the honor of the plow, And honor of the press-Two noble instruments of toil, With each a power to bless, The bone and nerve of this fast age, True wealth of human kind-One tills the ever generous earth, The other tills the mind.

For the New England Farmer.

COAL ASHES.

A few years ago I was impressed with the bebut of this I am not confident. Upon the trees

Coal is supposed by geologists to be the result The wind did no farther damage, ex- parts of one per cent. of soda; fifteen of one cent. of sulphuric acid! Nevertheless, some European analyses have shown a better result. The coal across the waters must certainly be rich-

> My experience has taught me this. If the soil is in any degree light, it better not be used; because it will accumulate in the soil, and so little of it being soluble, it will show itself for years, without doing any good; for its mechanical effects, in rendering the soil more porous, on such land, is not needed. But if the soil is heavy and cold, its tendency will be to improve it, by making it lighter, besides adding whatever of

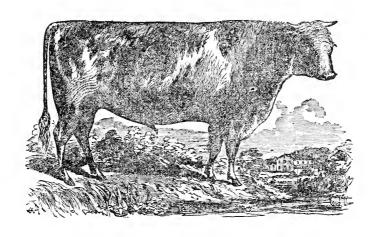
> fertilizing matter it may possess.
>
> From the above, it will be seen that I entirely disagree with your correspondent F., of July 30th, who advises it upon light lands. No doubt coal ashes are a disinfectant. So is virgin, or even common soil, and perhaps a better. But a special disinfectant around trees, or upon grass land, is quite useless, unless it will arrest the ammonia or nitrogen of the atmosphere, and this, probably, coal ashes will not do.

D. W. LOTHROP. W. Medford, Aug. 1.

Remarks - See article among selected items in another column.

MAINE STATE AGRICULTURAL SOCIETY.—The Fifth Annual Show and Fair of the Maine State Agricultural Society will take place at Augusta, on the 20th, 21st, 22d and 23d days of September next. There is to be a thorough trial of plows, and a heavy silver medal is offered for the best one in each class. Manufacturers can send their implements on any line of railroad, or forward by any steamer in the waters of the State without charge. We learn that the Trustees have made the most careful and liberal arrangements for the show, and mean to have it excel any other that has taken place in the State.

Vice and folly may feel the edge of wit, but virtue is invulnerable; aquafortis dissolves the base metals, but has no power to dissolve or corrode gold.



AYRSHIRE BULL, "ALBERT."

issued by Phillips, Sampson & Co.

In our January number, page thirty-three, we gave a portrait of an Ayrshire cow, and also scription, but copy the following remarks with dairies." regard to the superiority of this breed for dairy purposes :-

"The Ayrshires have been bred with reference both to quality and quantity of milk, and the grades are usually of a very high order. The milking qualities, as some of them have. I have incapacitate him for work of any kind. taken great pains to inquire of dairymen as to Having but little money at his disposal, he the breed or grade of their best cows, and what went into the northern part of the State and purposes; and the answer has almost invariably which he paid six hundred dollars. been the Ayrshire and the native. The Ayrshires have by no means been a failure in this country, on, pig, a few hens, and these, with a small

We present, above, a portrait of the Ayrshire from that effected by a higher and more liberal bull "Albert," recently imported and owned by course of feeding, it has come, in a great measthe Massachusetts Society for Promoting Agriculture. The cut is taken from the new edition of Flint's "Milch Cows and Dairy Farming," just the improvement would have been greater and more perceptible.

It should, however, be said, that in sections where the feed is naturally luxuriant, and adapted to grazing large animals, some families of the copied Mr. Flint's description of the breed and short-horns crossed with our natives have proits qualities. We will not here repeat that de- duced an equally good stock for cheese and milk

For the New England Farmer.

HOW TO BUILD UP A HOME.

MR. EDITOR: -Four years ago a shopmate of best milkers I have ever known, in proportion to mine being convinced that his constitution was their size and food, have been grade Ayshires; fast breaking down from the confinement and and this is also the experience of many who keep dairies for the manufacture of butter and cheese, as well as for the sale of milk. A cross obtained idea that he would invest the saving of years in from an Ayrshire hull of good size and a pure-the purchase of a small farm, in the hope that short-horn cow will produce a stock which it will the out-door labor appertaining to the profession be hard to beat at the pail, especially if the cow of a tiller of the soil might be the means of probelong to any of the families of short-horns longing his days, as it was evident that a twelvewhich have been bred with reference to their month more of in-door labor would completely

they consider the best cows for milk for their made purchase of a small farm of thirty acres, for

although I do not think that, as a general thing, amount for the necessary tools to work the place, we have been so fortunate hitherto as to import consumed the entire amount he could call his the best specimens of them. If any improve-own. After getting comfortably settled, he turned ment has been made in our dairy stock apart his attention to the collecting and making of manure, he having the good sense to know that he sitate to express their thoughts and make such the earth would produce nothing unless kept remarks as occur to them, because they have alive. Of course, the first year was rather tough been expressed by some other persons, upon some scratching, but in the second, by manuring large and planting small, he succeeded in raising comporter occasion. They may reach some minds paratively remunerating crops.

settled offered a light and profitable employ-tural committees, scatter your thoughts broadment to the females and children that compose this family, sufficient to furnish the dry goods and

groceries needed.

In the meantime his stock had increased, and, best of all, he had entirely recovered his health and youthful vigor, and was to all intents and purposes younger by twenty years than when cultural journals concerning "white specks in enjoying the cool and shady workroom of a city mechanic. I have just returned from a visit to the condition in which I found him after four process of churning, and others to various other years' experience in the life of a farmer. In the first place, his family, eight of them, are in the possession of perfect health, and as happy and contented as any persons I ever saw. He has made many improvements in the buildings, such as painting, shingling, &c., and has added by purchase twenty acres of excellent mowing land, on which he owes but ninety dollars. His stock consists of seven as fine cows as before churning, or by getting milk with the lings, horse and colt, two likely looking pigs and cream that is already sour. No harm whatever four hundred and sixty hens, the eggs of which find a ready market among the boarding-houses, store and tavern three miles distant. He put sixteen tons of having the house the same that is already sour. No narm whatever results from scraping down the cream into the churn as the butter begins to come; the cream thus scraped down, if not converted into butter, remaining in the butterwill. sixteen tons of hay into the barn, the past fortnight. He is so "wedded to a country life" that he informed me that five thousand dollars would be no temptation for him to return to Boston become solid, removing the cream carefully; and give up the real freedom and independence that he now enjoys. He finds ample time to read the N. E. Farmer, and other agricultural works, obtainable at the library in the village. He believes in book-farming, and is assured that in his properly worked and salted, I will warrant sweet, case he should never have succeeded without pure butter with no white specks. Such, at least, reading the ideas and experience of others.

"BRICKS AND MORTAR."

Boston, August, 1859.

REMARKS .-- Your friend is a good fellow--a trump. Long may he live to enjoy his happy home and the fruit of his skilful labor. hope his excellent example will be widely conta-clined to consider not only useless but pertaingious.

TRANSACTIONS OF NORTH MIDDLESEX AGRICULTURAL SOCIETY.

Rev. F. HINCKLEY, of Lowell, and a good be- will often keep in good order but a short time, ginning it is. The address is written in a beautiful style, and is full of sparkling thoughts and human sympathy. The report is got up in a water to prevent the butter from sticking. brief, business-like manner. The amount of premiums awarded was \$765,15. The reports of committees and competitors are very short, and do not convey as much information, or contain as many practical suggestions, as they might. Upon such subjects we need line upon line and above, we can then decide whether it will be best precept upon precept. Committees should not to publish his challenge, or NOT.

that have not seen them, and prove like good The manufactories of the town in which he has seed upon good ground. We say to all agricul-

> For the New England Farmer. BUTTER-MAKING.

Much has been written of late in various agributter," and hardly two writers can be found that wholly agree: some assigning the cause to the causes—a few giving the true theory.

Under ordinary circumstance there is no need of having "white streaks" or "specks" in butter. The streaks are generally the result of the insufficient working of the butter, the salt not being evenly diffused. The white specks, as several writers in the Farmer have already stated, are curds of sour milk, the result of skimming in too

To prevent white specks in butter, let the milk always be skimmed before it sours, if possible; churn the cream as often as every other day, through the hot season, and in extreme heat, every day, if the quantity be sufficient, and if is the experience of an old and experienced butter-maker, whose butter has the credit of being the "very best in the market." The process truly is a simple one, and it only requires attention to always ensure good butter. Stirring the cream at every time of skimming, to mix it, should be avoided.

The old practice of washing butter I am ining to the barbarous, and worthy of being dis-carded in every well conducted dairy. The prime object of the washing seems to be the complete removal of the butter-milk, but a certain change in the butter seems to be wrought at the same This report commences with an address by time, for it is true that butter thoroughly washed way to remove the butter-milk is by working with a wooden paddle, previously well moistened in

Springfield, August, 1859.

Three times as much corn, per acre, as any

PREPARATION OF SOILS FOR CROPS.

In its genuine signification, the term agriculture means nothing more nor less than the artificial preparation of the soil for the annual production of those vegetables, which, in the various climates of our globe, are required for the sustenance of man and beast. It is, however, properly and naturally divided into two distinct branches, designated, respectively, by the terms, "chemical" and "mechanical"—the former having reference to the application of those energizing and ameliorating substances which tend to the immediate increase of its productive qualities, by imbuing it with the nutritious properties and juices of animal and vegetable excrements; or by calling into vigorous and effective action those importance. elementary properties, with which, in a state of nature, it is originally enriched. The latter has reference to the "tillage of the soil;" and the amelioration of the earthy constituents, by the thorough pulverization of its elementary particles—a result ordinarily effected by plowing, digging, or otherwise lightening its texture, so as to afford a favorable medium for the establishment and ramification of the roots of such productions as it is required to sustain, whether be-soil of that country, a tabular exhibition of which, longing to the class of "roots" or "grains."

it was before deficient, and which are essential mould," containing, to the healthy development and sustenance of plants; secondly, by the action it induces among the minerals constituting the earthy part of the soil-effecting their decomposition and re-combination under new features, and imbuing them with new energies more expressly adapted for the immediate sustenance of the growing crop. There are certain substances, which, when applied to the soil, seem obviously to produce but one of these results; while others applied for the same common or general purpose, appear to produce both.

When the agriculturist applies animal excrement, or mineral water of any kind, to the soil, and an increased crop is the result, he logically infers that the application has benefited, or, in other words, has enriched the soil.

well as what kind will be most permanent in its ty pounds of ammonia. effects upon the soil. The laws of chemistry in There is, however, a mixture in nature's cruci-

gy, unfold to us the theory of manures, and the modus operandi of their application. "It is only by such assistance," remarks an able writer, "that we can account for various facts of much practical importance, and which, to all appearance, are contradictory. And by this means, only, shall we be enabled to make a prudent and judicious selection of those materials which are used for the enrichment and fructification of the soil when worked for the benefit and happiness of man."

We are all aware that to be productive, with reference to any given crop, the soil on which that crop is grown must contain certain peculiar properties. Lands fitted for the growth and maturation of wheat, for instance, are considered valuable, because the wheat crop is one of prime

Now if we examine soils richly endued with the principles essential to the growth of this grain, we shall find that they contain certain elements of vegetable re-production in much larger quantities than those soils in which it does not succeed. Popular attention has been directed to this subject in Scotland, and Dr. Anderson, the chemist of the "Highland Agricultural Society," has made several analyses of the wheat published in the number of the Society's Jour-By the scientific agriculturist, manure is recog-nal for May, 1850, shows the following results. nized as operating in two ways: first,-by impart- The soil was, in this instance, from a field in ing to the soil those fructifying and emendatory Midlothian. One hundred parts of the surface jucies or principles of vegetable power, of which soil gave 6.789 of "combustible dry matter or

Carbon	. 4.500
Hydrogen	
Oxygen	
Ammonia	0 268
	6.789

By "surface soil," the reader is here to understand that portion which is considered the medium of the roots of vegetation, or the first ten inches from and below the surface. The poorest soil subjected by Dr. A. to analysis, gave the following result:

Carbon0.71	4
Hydrogen0.08	
Oxygen	
Ammonia0.05	59
	

Two parts of ammonia in a thousand may appear a small quantity, yet it will be found on ex-This, indeed, is the primary object aimed at, amination, that as an acre of soil, ten inches -yet, it may be important to the practical agri-deep, weighs one thousand tons, there are over culturist to ascertain, somewhat more definitely, two tons of ammonia in the soil of every acre the specific action of the substances applied; to capable of producing a good crop of wheat. Now know, in short, what description of manure or a heavy crop of wheat appropriates, or requires matter may be best adapted to certain crops, as for its full development and perfection, about six-

association with those of geology and mineralo-ble which we have no power as yet to imitate;

for if we make the most accurate analysis that however, of a higher flavor when grown upon a is possible of a soil, and find in what elements warm, loamy soil, than upon one of a heavy, reit appears to be deficient, and supply them lib- tentive nature. erally, we are by no means certain that we shall secure a good crop of wheat. There is still something beyond the skill of the chemist, but something, happily, within the reach of the farmer to supply, that will usually bring a good crop,—and butter. The mystery I think I can solve at once. that is plenty of barnyard manure!

EXTRACTS AND REPLIES.

HOW SHALL I RESTORE MY RUN-OUT GRASS LAND?

I have a piece of English mowing land, situated between the upland and meadow, which seven years ago bore bushes, brakes, and the like; since then it has been plowed and planted one year, plowed again and sowed to grass seed, useless, if it is properly cared for. In order to Four crops of hay have been taken off since, the have butter sweet and nice, cream ought not to first very heavy, the last very light.

Can anything be done to this piece of mowing nor more than six in cold weather. land the present month, without plowing, (as it is well and evenly laid down with the land around it,) so that I may secure a good crop of hay for three years, or more? If so, what?

Hamilton, Mass., Aug., 1859.

opinion, will be the quickest and most economi-cream being kept in too warm a place. cal mode of reclaiming the piece of land you speak of. In common with most of us, you have probably made two mistakes with it. First in the buttermilk, but will not form the white not topdressing a little annually, or at least speek; if the churn is made as it should be, there itself. The herdsgrass and red-top roots are the churn with that that is sour, and you will gone, and top-dressing will not restore them. lose the sweet cream, as it does not come to butter so soon as the sour, but does not injure the the crop by a fair course of manuring.

REAPERS-SLAKING LIME.

be slaked with water or by the air? MAPLE. Catedonia Co., Vt.

REMARKS. - Ketchum's machine is intended for reaping as well as mowing-but may not be half an hour. as good as a machine with a reel.

There is no difference, we believe, between lime slaked with water or air slaked. The latthe process is slower.

have been raised, there are comparatively few there are some phosphates that nourish plants, that are equally good in Massachusetts; from and others that do not, all of which are comthese, if requested to name six of the best, ripen-posed of the same chemical ingredients, then ing in succession, I should name the Bloodgood, what reliance can be placed on chemical laws, Bartlett, Belle Lucrative, Beurre Bose, Winter for the advance of vegetation? None at all, un-Nelis and Lawrence. These will generally do til demonstrated and illustrated by experiment. well in all good soils; the Belle Lucrative is, | Aug. 1, 1859.

Salem, Mass., 1859.

HOW TO MAKE GOOD BUTTER.

I have noticed in several numbers of your ex-I have lived on this earth half a century and always been in the habit of making butter since I was fifteen years of age. And from experience I found a preventive a great many years ago. I can take the cream from curdled milk and put in a trifle of salt and stir it around the jar with a paddle that I keep for the purpose, and repeat it every time that I add cream, and I will never be troubled with white specks in butter. As to straining cream it seems to me to be entirely be kept more than three days in hot weather,

M M. SPAULDING.

Cornish, N. H., Aug., 1859.

BUTTER MAKING.

White specks in butter are sour milk turned REMARKS.—Plowing and re-seeding, in our to a hard curd; and are caused by the milk or

Cream that remains in the churn after the butevery other year, and secondly, in not allowing will be no cream remaining in the churn, unless the herdsgrass to ripen one year so as to re-seed the cream is very thick. Put sweet cream into Plow, manure and re-seed, and then keep up butter; cream should be taken from the milk as soon as it is sour enough to be removed without milk, and in warm weather should immediately he put in the cellar, or where it can be kept as cool as possible; churn once a week, but the Is Ketchum's machine a good reaper as well as oftener the sweeter the butter. After removing the cream, you may skim off as much more that In composting lime with muck, should the lime will be rich enough for biscuit, making a saving of all your cream for butter. L. C. Potter.

Leyden, Mass., 1859.

N. B. Lettuce makes excellent greens-boil

ACTION OF PHOSPHATES.

I am much pleased with the remarks of Judge French about phosphates, analyses of soils, and ter is as much slaked with water as the first, but the like. It is high time that we back out from scientific nonsense, such as is taught by many a would-be professor, and take up the lessons of practical common sense. If it be true, as averred Among the varieties of this fine fruit which by Mr. F., and admitted by Prof. Mapes, that

ISABELLA GRAPE.

which I forwarded you some months since. I then get a fair crop. recommended that, in order to prevent the injury which the warm, sunny days in winter, or the alternation of heat and cold to which vines when trained upon our buildings are often subjected, they should be taken down late in the fall and laid along their whole length upon the ground—they will there ordinarily require no covering. The Isabella grape vines in our neighborhood have suffered greatly the past winter; large numbers are destitute of fruit; I have, on the contrary, two vines, one trained upon a fence, the other upon my barn, both having a southern exposure, that were laid down the past winter as recommended above, and they are loaded with fruit. It is not, I apprehend, the extreme cold days of winter so much as the alternation of heat and cold which produces the mischief. The sap of the grape vine, as said by Dr. Lindley, "is always in motion, at all seasons, may descend to zero, and the next day an unclouded sun with the warmth of spring, a susceptible plant should be thus affected?

Salem, Mass., 1859. J. M. I.

HEIFER HOLDS UP HER MILK.

me if there is a remedy, and what it is?

of the Dominique breed? C. C. L.

Rockingham, Vt., Aug., 1859.

you about the fowls.

REMARKS.—Give the heifer a little meal, sweet grass or grain, when you milk her. Cannot tell

THE CULTIVATION OF VINEYARDS.

Can you, or any of your readers, tell me where I can find full information relative to the methods practised in this country, in commencing and cultivating vineyards, the processes used in preparing wine for the market, expenses, &c.

New London, N. H., 1859.

REMARKS.—A work entitled "The Culture of the Grape, and Wine Making," by Robert Bu-For sale at this office—price 62½ cents.

TO CURE A KICKING COW.

ny plan of curing kicking cows. For his bene-should be sown last week in August. In Massahe shoulders. He says he don't see how it can winter-kill. Late sowing is dangerous. prevent her; that is not my fault. At all events, twelve hours in salt pickle to kill insects, (if any,) t has always cured mine, and will probably cure and skim off foul seed. Rake the seed in ashes; his, if they can be cured.

Boston, Aug., 1859. A Belmont Farmer.

look remarkably well; corn is just tasseling out, In an article on the cultivation of this fruit and if we do not have too early frosts, we shall

For the New England Farmer.

THE WHEAT SEASON AT HAND.

Mr. Editor:—The past season has probably been one of the most prolific ever known, in the development and securing of the cereal harvest. Our own great grain country proclaims it from every quarter, and all Europe echoes the welcome sound of overflowing granaries. This looks like cheap, home markets. On either side of the water a large surplus may remain, but it is that kind of farm product, that will keep without salt, and with very little care. It were wise in all farmers, that they always have six to twelve months stock in advance. This would be preparation against want, in the loss of a crop which so fre-

quently occurs. Now let us suppose abundance, cheapness, easily obtained, perhaps for this year only, (while and under all circumstances, except in the very coldest days." Can we wonder that, in a climate so variable, where the thermometer at night New England farmers to relax their efforts, to stack their arms? Abundance is generally followed by reverse. We have been a suffering, panic-stricken people, when the "rich man" could not "glory in his riches;" when labor had not its reward; when the waxed ends were hung up to dry; when the mill, from trundle head to I have a two-year old heifer that calved about breast wheel, became noiseless, and silent as a the middle of July; and lately she holds up her cavern. Now, the village becomes dull, dim and milk. Can you, or any of your readers, inform dingy. The demand for farmers' hay, butter and eggs has ceased, but he has been reminded that Can you inform me where I can get some eggs "the flour is gone;" (sorry news for him, and he the Dominique breed?

C. C. L. almost resolves to raise his own flour.) "Well," (he says,) "butter and eggs wont pay for a barrel of flour, I must broach the money laid away to pay taxes; it's like drawing teeth." Now, to provide against this kind of dentistry, if the farmers will put down two to five acres of wheat annually, his flour bills are easily paid. It would not be so much like "drawing teeth."

It is a well known fact, that four and a quarter bushels of wheat, is equal to a barrel of flour to every family. Every expense, from the plow to the granary, is the same as other grain crops. You can make it cost no more; more bushels of wheat can be grown to the acre than of rye, on a good strong soil, and an equal quantity on poor soil. Half of the rye lands scarcely pay expense of cultivation. Some of your rye fields are a burchanan, tells the whole story in a compact form, lesque on farming, yet followed up with great

persistency, year after year.

Hilly or sloping lands are best for winter wheat. Clover fallow, old mowing or pasture Your correspondent "Cit" seems to ridicule Maine, Vermont and New Hampshire, wheat it I will inform him that the rope is to surround chusetts, first week in September. Early sowing he cow, as a girth is put on a horse, just behind and two to three inches depth is sure against sow one and three-fourths to two bushels to the

I have the satisfaction to learn from many far-West Westminster, Vt., July 30, 1859 .- The mers, that they have had complete success in rass crop is very good in this vicinity, and oats raising winter wheat. Reliance on his farm capabilities, should stimulate him to the work. There are no obstacles to overcome, saving prebecome a chronic disease.

It is now a good time to look over and see how many patches in the old mowing fields can be turned to profitable account. Once begun, we think your wheat crop will take the lead in the grain calendar. H. Poor.

Brooklyn, L. I., 1859.

For the New England Farmer.

MEASUREMENT OF LUMBER.

Mr. Editor:—I have noticed in the Farmer several pieces relating to the incorrect measurement of milk. There is another subject allied to this, which corcerns many farmers as deeply as this: I refer to the measurement of lumber.

Most farmers out of the vicinity of the city have hard-wood trees in their pastures or mowings which they wish removed. Accordingly, they cut them, have them sawed into plank, and sell them. Now, the miller saws both sides of the plank, and will have pay for all he saws; and it seems right that he should, but when we come to sell our plank, the measure falls short. The surveyor measures on the narrow side, allowing us only what the plank will square. Some thick plank fall short of the mill measure 20 per cent.

When we buy beef, we pay for the weight of the bones, or if there is a deduction, it is made in the price, not in the weight. So we should have pay for the whole of our lumber; if the wain lessens the value of the lumber, let the deduction

be made in the price.

The surveyors profess to give us board measure; yet we know that a 4 inch plank, 8 inches wide on the narrow side, and 12 inches on the wid- side, would measure a good deal more, if we should conceive it to be made into boards and then measured, than it will as they survey. Our laws respecting the measurement of lumber are very indefinite and loose. The legislature should attend to them.

Groton, Mass., July 30, 1859.

WHAT ARE FLOWERS GOOD FOR?-"I have said and written a great deal to my countrymen about the cultivation of flowers, ornamental gardening and rural embellishments; and I would read them a homily on the subject every day of every remaining year of my life, if I thought it would induce them to make this a matter of attention and care. When a man asks me what is the use of shrubs and flowers, my first impulse is always to look under his hat and see the length of his ears. I am heartily sick of measuring everything by a standard of mere utility and profit; and as heartily do I pity the men who can see no good in life but in the pecuniary gain, or in the mere animal indulgencies of eating and drinking."-Coleman's Agricultural Tour.

THE HORTICULTURIST.—The number for August is excellent. It has a fine engraving of the 11. It renders soils earlier in the spring. Nabours Pear. It has a long and capital article 12. It prevents the throwing out of grain in on the "Orchard House, or the Cultivation of Fruit Trees in Pots under Glass."

AUTUMNAL FARM WORK.

In a former article we mentioned two items of judice, or a long established supineness that has farm labor that ought to be attended to in the autumn, viz.: seeding lands to grass and preparing rough lands for cultivation. The next item to which we find pleasure in calling attention, and which, strictly, ought to precede all others, is that of

DRAINING.

And we beg of the reader not to come to the sudden conclusion that we make a hobby of this subject, but to give it thought, observation, and such careful investigation as his opportunites will permit. All of us have been taught to believe that manure is the great essential in farming; it is so; but thorough-draining follows close upon it in importance, and we are convinced that we cannot do any farmer a better service than by pressing upon him a sense of its great value. Judge French's new work on Farm Drainage is finding its way into the farmhouses in every direction, and will be the means of adding large profits to the agricultural productions of New England.

It is not our intention now to give the details of the operation, as that has been pretty thoroughly done in these columns,-but we desire to call the attention of our readers to the subject, and ask them to consider it well. In the meantime, we advise every farmer to get French's Farm Drainage, or Waring's Elements of Agriculture, or both, and make them a study as they progress in the practical operation of the work. From the latter work, we give below some of

ADVANTAGES OF UNDER-DRAINING.

- 1. It prevents drouth.
- 2. It furnishes an increased supply of atmospheric fertilizers.
- 3. It warms the lower portions of the soil.
- 4. It hastens the decomposition of roots and other organic matter.
- 5. It accelerates the disintegration of the mineral matters in the soil.
- 6. It causes a more even distribution of nutritious matters among those parts of the soil traversed by roots.
- 7. It improves the mechanical texture of the
- 8. It causes the poisonous excrementitious matter of plants to be carried out of reach of their roots.
- 9. It prevents grasses from running out.
- 10. It enables us to deepen the surface soil-by removing excess of water.
- winter.
- 13. It allows us to work sooner after rains.

- er in the fall.
- and similar weeds.
- and the finer comminution of the earthy exhausted. parts of the soil.
- 17. It prevents in a great measure, the evaporation of water, and the consequent abstraction of heat from the soil.
- 18. It admits fresh quantities of water from parative leisure, and often a portion of the help to the necessities of plants.
- on heavy lands.

score, and one of no less consequence than the markably obstinate. But in the fields and pasmost important he has named.

winter grains from being winter-killed.

fields, farmers were astonished at the amount of and yellow weeds by the side of the walls and their lands which they found bare, in consequence edges of mowing lots, and hedges encroaching of the winter-killing of grass and grain. We are upon the adjoining fields, and the road-sides compelled to confess in fairness, that this de-growing up to birches, alders, or other brush-struction was caused by the coating of ice which covered the surface during most of the winter where it is needed, will tell to the passer-by, and a portion of March and April. But the more to your thrift than the publication in the question arises, "If the land had been thorough-|newspapers of a premium for a fat hog, or nice ly under-drained, would the ice have remained steer. upon it so long, and clung to it, like the shirt of Nessus, until the breath of life was gone?" We bog-hoe upon your shoulder, lead the way, and think not-and look upon this as one of the at least tell what must be done, and see that it is chief merits of underdraining. But our story is done. Grub up the birches and alders and shrubgetting long, for a single topic, and we must oaks; hitch the cattle to that bunch of willows leave it to say a word upon the subject of

even doing it once in two years, will save a have not already done it; and you, Farmer heavy item of cost in the matter of plowing and Loose-ends, will do well to clear the stone heaps re-seeding. Quite moist lands may be kept in from that moving lot that the grass has been grass, yielding a ton or a ton and a half per aere, growing over these three seasons, and—Eh? for fifty years in succession, if they are frequent. "Haven't got time?" 'Twas only last week that, for fifty years in succession, if they are frequent-three times, smack went the point of your soythe ly top-dressed, and seed sometimes scattered into them, in one forenoon, and how you sweated with it, or if the grass is allowed to go to seed after it because you hadn't got time-to stop and occasionally before it is cut.

manure as a top-dressing immediately after the hay is carried from the field, as the young grass And the weeds and briers in the highway, or will grow up and cover it in a few days. It then the by-roads over the farm, and along the fences,

14. It keeps off the effects of cold weather long-supplies the roots with new food, and gives them a vigorous setting for another crop.

15. It prevents the formation of acetic [that is, If this work is not already done, it should be, sour,-vinegar contains one or two ounces before the grass ceases to grow, so that the auin a pound of acetic acid .- Ed.] and other tumnal rains shall moisten the manure and caracids, which induce the growth of sorrel ry its fertilizing properties among the roots.

There are some other items which we should 16. It hastens the decay of vegetable matter, be glad to present, but our space for to-day is

For the New England Farmer.

FARM WORK FOR AUGUST.

With most farmers, August is a month of comrains, &c., which are always more or less employed during the three months previous is imbued with the fertilizing gases of the dispensed with, as soon as having and harvesting atmosphere, to be deposited among the this month. But let Patrick and John remain; absorbent parts of soil, and given up there is work enough that should be done on every ordinary farm to fill up profitably the time 19. It prevents the formation of so hard a crust of this month. True, the demand for the hoe is on the surface of the soil as is customary and if it was used with good effect at the proper time, perhaps its use now, to any great extent, We will add another item to make out the is not advisable, unless the weeds have been retures, and meadows, and perhaps by the roadsides, there is a demand for labor that can better 20. It prevents, in a great measure, grass and be done in this month than in any other, and with better effect.

Nothing looks more slovenly upon a farm than In May last, upon an examination of their clumps of bushes growing here and there in the

that have taken root and shelter almost under the wall, and see if there isn't music in the snap-The annual top-dressing of grass lands, or when old Broad and Bright straighten the chain! Have the wall re-built where the frost threw it down last winter, if you grind up! Last year, the boys might have got It is an excellent time to apply composted them off while they were hunting pigeons and

the compost heap very materially. By the way, them in fresh water. Line the bottom of your just uproot those alder thickets along the brook kettle with green cabbage leaves, put in your that meanders through the meadow, before they pickles, and as much vinegar and water, mixed seed the land any more; and then see if a week in equal quantities, as will cover them. Put a or ten days spent in this way does not pay-in layer of cabbage leaves on the top. Hang them the looks, and the satisfaction with which you over a slow fire; let the water get hot, but do not

ed meadow, and if you have rails to cut soon, cut and let them drain. Wipe them dry, put them them this month, and if it is hot weather, peal in jars with some allspice, cloves and a few small off the bark, and they will undoubtedly last onions, or cloves, or garlic. A piece of alum in much longer than if cut in any other month.

the muck to landward, for you will want it next improvement. winter. Cut up the brush by the roots, and make a fair beginning this seasan. Perchance there is few at a time, in hot lye; let them remain in it gold in that meadow; certainly this peat is val-uable, either in the barn-yard, hog-pen, or on your sandy fields. Persevere, and see if gold will not come out of it. J. A. A.

Springfield, Mass., August 8, 1859.

Interesting to Lovers of Peaches.—At a recent meeting of peach growers in Mercer county close, and keep in a dry, cool place. (says the Camden West Jerseyman,) it was ascertained that in a space of country about three Pickled Tomatoes.—Take a peck of tomamiles square there would be at least 20,000 toes—the small ones are best—wash them, pierce baskets of peaches for shipment. In this space each one with a fork, put them in a deep pan and there are over 92,000 trees planted, 22,000 of sprinkle salt between each layer. Let them stand which are bearing. The peach crop in the upper two days, then rinse them in clear water. Put part of Mercer county, and in Hunterdon, prom-them in stone jars, cover with vinegar and water ises a large yield. Of late years the region for in equal parts, and let them remain till next day. merly celebrated for this delicious fruit has been Allow one gill of mustard seed, half an ounce of abandoned, it being found that peach orchards cloves, half an ounce of pepper grains, half an will succeed but once on the same ground-at ounce of whole allspice with two heads of garlic. least an interval of several years' cultivation with Separate the garlic and take off the skins. Take other crops is necessary before a second orchard the tomatoes out of the vinegar and water, empty can be expected to succeed.

LADIES' DEPARTMENT.

PICKLES.

used in preference to those of brass, copper or put them in a preserving kettle, cover them with bell-metal. The verdigris produced by the vin-water, which keep scalding hot for one hour; then egar on these metals is extremely poisonous.

For most kinds of pickles, cold vinegar is the jars. best. By boiling, much of the strength is lost by evaporation-consequently, the pickles are more and stick cinnamon. When cold. pour over sufliable to spoil.

Those requiring hot vinegar poured over them, should remain uncovered until perfectly cold.

Pickles should be kept in either glass or stone of vinegar will be found a very great improvement to all pickles.

them. Put a weight on the top of the vessel to ties of an old maid.

should be mown, and, with the trash from the keep the cucumbers under the brine, and let them swales, see if they cannot be made to augment stand nine days; then take them out and wash can view your premises, as well as in the pocket. allow them to simmer, as that would soften them. Clear out the old ditches around your reclaim- When they are perfectly green, take them out each jar will keep them firm. Cover your pick-Farmer Fearful, just underdrain that piece of les with the best cider vinegar-tie them close wet moving land, or invest a little in reclaiming and keep them in a cool, dry place. By adding that alder swamp; cut wide ditches, and throw one tablespoonful of sugar, it will be found a great

PICKLED PEACHES.—Throw your peaches, a but two or three minutes, then put them in clear

water, and wipe off all the down.

Make a strong brine, lay them in, and let them stand for two or three days. Take them out, wash and wipe them. Place them in jars, and cover with white wine vinegar and loaf sugar, in the proportion of one quart of vinegar to one pound of sugar. Put them in glass jurs, cover

PICKLED TOMATOES .- Take a peck of tomathe jars, put the pickles into them again, alternately with the spices, until the jars are three parts full. Then cover with cold vinegar, and cover close.

Pickled Green Tomatoes.—Puncture the tomatoes with a fork, place them on a dish, and sprinkle with salt. Let them remain for two or Kettles lined with porcelain should always be three days, then rinse off the salt in clear water; take them out, let them drain, and put them in

> Boil the vinegar, with some cloves, allspice, ficient to cover them .- Widdifield's Cook Book.

OLD MAIDS.—Many of the satirical aspersions cast upon old maids tell more to their credit than wise they soon become soft. A small piece of next in hor warmen is generally imagined. Is a woman remarkably wise they soon become soit. A small piece of neat in her person, "she will certainly die an old alum in each jar will make the pickles firm and maid." Is she frugal in her expenses, and exact crisp. One tablesponful of sugar to each crist. crisp. One tablesponful of sugar to each quart in her domestic concerns, "she is cut out for an old maid." And if she is kind and humane to ent to all pickles. the animals about her, nothing can save her from Pickled Cucumbers.—Wash your cucumbers the appellation of "old maid." In short, we have very clean; make a pickle of salt and water, suf- always found that neatness, modesty, economy, ficiently strong to float an egg, and pour it over and humanity, are the never-failing characteris-



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SIMON BROWN, EDITOR

FRED'K HOLBROOK, ¿ HENRY F. FRENCH, EDITORS.

OCTOBER.

"Splendor is on the bough! The withering leaves fall fast; Yet wilder beauty crowns the forest now, Than through the summer past.

"A more resplendent blaze. Of rich and radiant hues. Gleams through the autumn haze, Than 'mid the summer dews "-Wm. Howitt.



CTOBER, with its bright sunshine, its bracing air, its gorgeous coloring. would be one of our fairest months, only that a shade of melancholy is thrown over all. by the thought that this beauty is but the last gleam which precedes the gloom of death.

We do not like to see our old friends, the fresh young leaves of last MAY, getting old and drop

ping off one by one; nor do we like to read the lesson which Autumn teaches to all thoughtful souls .-

There is a sad significance in her symbols which we would put aside if we could-but

> "It is written on the trees, As their young leaves glistening play, And on brighter things than these-Passing away!"

what a splendid panorama October stretches esque, too, as well as rational, in the loads of out before us! It is true, there are no blossoms corn and pumpkins bound to their winter quaron the trees, and few flowers by the wayside, ters, and the little boy who is perched on top save the golden rod and "everlasting," or in of them enjoys his ride better than many a rich some sheltered spot, where the sun lies long, man in his coach. warming the earth, and the frost is late, the Somebody calls Indian Corn "the Golden

modest aster is still bright, and spreads its clusters to the autumnal breeze: but we can well spare these, when every leaf is crimson and scarlet and yellow, and the meanest shrub at our feet is hung with rubies.

During the exhibition of a painting at Boston, some years ago, one of the spectators was heard to remark by way of criticism, that a certain portion of the foliage was too bright to be natural. Probably no one would have doubted the correctness of the criticism, had it not afterwards been discovered that the foliage referred to was a broken bough from a real tree, and so placed as to seem a part of the picture! And this was the only thing about the painting that seemed too brilliant to be natural. Nor is this necessarily a reflection on the acuteness of the critics. Nature paints in colors so bright, in a style so original, that the artist who should copy her faithfully, might well be liable to the charge of exaggeration.

From our window we look out upon a hill in the distance. We have seen it all summer, and it has seemed to be nothing but an eminence covered with trees-but every fall that forest is changed to a regiment of red-coated soldiers, marching, and over the hill we plainly discern the British Regulars retreating from our village! If we would carry out the fancy, we may easily find a counterpart for the "old continentallers" in the groups of hardy looking pines, and scrubby apple trees scattered here and there!

The grapes which grow over your sunny trellis have hitherto been hidden by their large green leaves, but now you can see the rich purple clusters all ready to shed their blood in your But, apart from considerations like these, behalf. There is something exceedingly pictur-

first landing." It has certainly always been an time." important article in the productions of the United States, and is still much used in the "brown which is said to be "sufficient." bread" of the North, and the "corn cakes" of the Southern States.

It is possible we are writing for some who may remember the "huskings," which have become almost traditional among us now, when the article by Mr. Holbrook on the cultivation of great barn-floor was swept as clean as the floor fowl meadow grass, at the close of which he calls of the good wife's kitchen, and the whole scene for the experience of others. was made brilliant by tallow-candles hung up in quainted with this grass all my life, and cannot tin lanterns at a safe distance from the hay-loft, understand why it has received so little attention while the party below, consisting of young peo- from farmers. Without going into a general ple of both sexes, sat around on the floor, on discussion of the subject, I will state a few facts such seats as could be easily improvised, and which can be relied on. stripped off the husks amid much laughter and better or more economical hay grown in New merry talk. A red ear was said to give peculiar England. privileges to the finder, but of this we would not be supposed to know any thing from experience. yield is very large. I have seen more than three The festivities of the occasion were wound up tons to the acre. with a supper, and perhaps an eight-handed reel, which are properly but not too much drained. for we are speaking of times when "the sinfulness of dancing" had not been made an article seed is sufficiently ripe to fall and re-seed the of faith in all our country villages—when even the parson himself might look on with an analysis.

5. It is not injured by standing until the seed the parson himself might look on with an approving smile.

a husking of this sort, than by a good, steady, would not be one pound of waste. In fact there gander-party, we are not prepared to say, but is no waste in this grass. certainly there must have been a good deal more fun, and we have great faith in uniting the "useful with the agreeable."

Belonging to the same category, were the "ap- upland crop ple-bees" of the olden time-and we cannot say they may not be in vegue in some of our rural other's houses to help prepare the winter "sarse," -and sour enough it was, if we may trust the ripen for their own use. memory of our early days.

It is wonderful how an apple-paring taken off whole, and thrown over the head, would always form the initial letter of your "true-love's" name. It never comes any thing but a long crooked S!

Now, with the gathering in of the harvest, and to win his bread "by the sweat of his brow."

lighten the labors of the following spring, when successive mornings, on an empty stomach.

Fleece found by our Pilgrim Fathers on their they will have much work to perform in a short

We offer the quotation as "a word to the wise,"

For the New England Farmer.

FOWL MEADOW GRASS.

Your issue of to-day contains an interesting

I am now fifty years old, and have been ac-

1. For cows and young eattle, there is not a

2. Under the most favorable circumstances the

3. It does best on natural moist meadows,

4. It should never be cut until a portion of the

is all ripe. I have known it to ripen, lodge and sprout at the joints, yet in a ton of such hay fed Whether more business was accomplished by to cows and young cattle in the winter, there

> 6. Fowl meadow is never ready to be cut until all the other haying is over.

> These facts apply only to the grass as raised on moist meadows. I know nothing of it as an

I would advise farmers to procure a few quarts of seed and sow it as early in September as posthey may not be in vegue in some of our rural sible, on their rich, moist meadows, plowed if districts even yet,—when neighbors met at each dry enough, if not, unplowed, and if it grows, watch it with the greatest care, and let every seed T. P. C.

Aug. 27, 1859.

MILK WEICH DOES NOT YIELD BUT-TER --- MEANS TO REMEDY IT.

M. Deneubourg addresses those who are chiefly interested in eases in which there is no disease of the mammary gland or loss of milk, but a want of ole iginous matters in the fluid. preparations for Winter, October is a busy In the causes of this deficiency of butter-making month. It is a month, too, when the farmer sees quality, he concludes that there are two princithe reward of his past labor spread out before pal ones, viz.: idiosyncrasy and alimentation. the reward of his past labor spread out before him—for it is only the "fowls of the air" who are privileged to expect food or clothing while well kept, and whose milk has been previously they neither toil nor spin. On man it devolves rich in butter. It is to these that the remedy is principally directed. The remedy consists in In an old volume of the New England Farmer, giving the animal two ounces of the sulphuret dated 1822, we came across the following:—"In a country where the springs are backward, as in given as a soft bolus, and followed by a draught the northern parts of New England, farmers composed of half a pint of vinegar, a pint of should do all they can in autumn to diminish or water, and a handful of common salt, for three

teen cows in full milk, from which he obtained its hold is perfect. The plug can be lowered invery little butter, and that of a bad quality, to the hole above the powder, or placed in a lat-Guided by the statements of M. Deneuborg, eral drill, the rod be turned, the plug spread out which had appeared in the Annales Veterinaires, —all in a few minutes, and after the explosion, he had separately tested the milk of his cows, it can be taken out uninjured." and found that the bad quality of it was owing to one cow only, and that the milk of the others yielded good and abundant butter. It was, therefore, clearly established that the loss he had so long sustained was to be attributed to this cow only. He at once administered the remedy recommended by M. Deneubourg, which effected a advanced, and I am prepared to place upon the cure. -- Veterinarian.

REMARKS.—We publish the above in order to call the attention of farmers to the subject. The statement is a strong one, that the milk from a state print of its icy hand upon the whole face of single cow should so modify that from thirteen the vegetable world. others as to spoil the butter. Still, the milk from a cow who gives a large mess, and that of chilly nights, which we have had through the a thin, watery character, does have, to our personal knowledge, a bad effect upon the milk of markably good—the best and heaviest I ever other cows, in butter-making.

BLASTING ROCKS.

An account of a new invention for facilitating dence! rock blasting, and to prevent premature disif we mistake not, proposed that a wooden cone, alternative crop, as it does best when sown as having a hole through it for the fusc, should be late as the middle or last of July, after the long, lowered down directly upon the powder, and hot days have past, and yields well. I am tythen a few coarse, angular stones should be ing some corn this season where I grew a fire dropped in to wedge down the cone; upon these crop of buckwheat last, which looks like the base of the cone to lift a little, thus wedging it vibrating between good and bad. firmly in the hole, and splitting and spreading transport to fill the whole; thus very cheaply effecting what must be attended with considerations during the winter kept the frost out of the ble expense in the contrivance described as fol- ground, which set the sappy fluids in motion and lows:

drilled in the earth to be blasted, and the pow-many trees "killed and wounded" in one season. der inserted, it has to be "tamped," that is, the I believe the fruit buds of the apple and pear will hole is filled up with some substance, which is successfully resist the action of the frost of the rammed down in the most solid manner-a pro-severest cold of our climate if the ground be sufcess that consumes a great deal of time, and is ficiently frozen to hold the sap in a dormant state. attended with much danger, the blast often ex- The alternate cold and warm days of early spring ploding prematurely from the blow struck in are much more destructive. Then, again, after tamping. This invention obviates the trouble blossoming, the cold, easterly wind, sharp lightand risk of this process. It is a plug of steel, ning and heavy thunder will cut off the fruit with somewhat in the shape of a syringe. A small an electrical nicety. Immediately after the exhole extends down through the centre. The plug treme cold of January 9, 10 and 11, I discovered tapers from the bottom towards the top, but as by a black spot upon the ovary of the blossom it is partially sawed into four parts, and capable bud that the peach crop was destroyed. of expansion, a rod worked from above and passing through the centre, fitted to a cone-shaped East Jaffrey, N. H., Aug., 1859.

The remedy, according to the author, rarely screw, spreads out the plug so that if placed fails, and the milk produced some days after its over the powder it completely fills up the space exhibition is found to be richer in cream. The excavated by the drill, and of course none of the first churning yields a larger quantity of butter, explosive power of the powder is lost. A second but the second and the third are still more satis-factory in their results. fuse. It has two or three rings around it, and A letter from a farmer states that he had four- can be wrapped with two if necessary, so that

For the New England Farmer.

CROPS IN CHESHIRE COUNTY, N. H.

Messrs. Editors:—The season is now well record a statement of the crops. The last winter, with its 30 snow storms, 83 inches of snow, 120 days of uninterrupted sleighing, and the thermometer 44° below zero, has not only destroyed many a pair of good lungs, but left the

The weather is now delightful, save the cold, season up to this moment. The hay crop is nearly in, well cured, and a good one. Wheat is resaw in this vicinity. In consequence of the high price of flour in the spring, nearly every farmer has his field of wheat, and it has proved a worthy effort—one step more towards his indepen-

The sharp frosts of May and June nearly descharges, is going the rounds of the newspapers, troyed our corn crops, and a very small harvest It is said to be the invention of J. G. Buckley must be the result. Many fine fields were plowed and S. B. Mosher, of Schaghticoke. This is very in and sown to Dutch wheat, to the profit of the like an invention or suggestion of Eli Whitney, farmer even. This crop is fast coming into favor who, in response to a request from government, with our farmers. It has the advantage of an smaller stones and earth could be filled in. When boy's calf, "kind o'gi'n out." Barley and or s the powder is ignited, the effect is to force the look well. Potatoes, (don't tell the Irish,) are

predisposed the trees and buds to the killing ef-"As is well known, after a hole has been fects of the frost. Never before have I seen so

L. L. Pierce.

For the New England Farmer.

KEEP THE BOYS AT HOME.

If the farmers scattered over our land would but mind this simple injunction, how much hapiness would they lay up for themselves, and how many of their sons would they save from a life of shame and disgrace. Keep the boys at home! Why? For the following reasons:-

First—Keep the boys at home, because it is the best place on earth for them. If you are a good intelligent farmer, and if you make your home what you ought to, a place where love and harmony, pleasant words and kind acts are ever to be found, what place is there, north or south, east or west, that is so well calculated for a young man? It is the best place for them, away from the temptations that meet young men at every corner of a city. A young man that leaves a comfortable home, with fair prospects in life, to mingle in the turmoils of cities, steps from a path of roses to one of thorns; steps from the side of true and loving friends to seek the acquaintance of those that are friends only for a brief day, while the sun of prosperity shines, and at the approach of sickness, misfortune or sorrow will disappear like shadows on the wall.

Second—Keep the boys at home, because you want them to share the labors and pleasures of life. How pleasant the sight to see an aged man going smoothly adown the deelivity of life, supported by his sons. Many a father has looked HOW SHALL WE LEARN WHICH IS THE forward with heartfelt joy to the time when his son would stand by his side, sharing with him

the storms and sunshine of life.

But how shall I keep the boys at home, exman has been driven from the parental roof by excessive labor, by "all work and no play." have seen many a father more careful of his noble horse, or a favorite yoke of cattle, than he moderation, allow them a fair nooning, and provide liberally for their wants. But how is it the morning, hard at work before breakfast, with tools that no man would work with, yet good enough for the tender hands and growing muscles of a boy; his breakfast hastily swallowed in about a quarter of the time that the horse is eating his, and then away to work, straining every muscle in his body to keep up with men double reeking heat of summer. his size. Cross words and sometimes blows are added to these, year after year, until he grows sick and discouraged with a farmer's life, and so looks forward with joy to the day of his majori-

What wonder is it that so many of our young men are not willing to stick to the farm? What best of about forty seedlings, and therefore must wonder that they look with distrust on such a be a desirable grape! Why, if a thousand seedlife of servitude? And who wonders that so lings will reward the enterprising cultivator with many fathers exclaim, "I can't make my boys one really desirable variety, he is a very fortulike farming!" The remedy is simple; remember nate man, and will be most royally paid for all that they are boys, not men. Bring all the light, his outlay of time, trouble and expense. Mr. learning and science of this enlightened age to Dana, of one of our northern States, (of Lebabear on your noble profession—a noble profes-|non, N. H.,) has taken a step in the right direcsion, notwithstanding you make it a life of slav-tion to test the comparative merits of rival comery. Buy labor-saving machines, not every petitors, in offering one hundred dollars for the new-fangled notion that is offered you by every best new grape, of which a vine or cuttings shall travelling pedler, but those that have been tried be sent by each competitor, to be fruited by that

When such a machine has been pronounced just the thing, buy it, and if you have farmed it for so many years, and have not as yet laid up money enough so that you can afford to buy it get your next door neighbor, with one or two others in the village, to purchase it with you, and use it by turns; you will soon afford to buy one yourself. Make the boys feel an interest in the work of the farm-let them have a share of the profits of some field. Subscribe for the New England Farmer, and let the boys read it; you will soon find the excellent advice contained in its columns will make them feel contented with a farmer's life, and if you yourself glean no useful knowledge from its pages, the boys wil, and they will soon begin to make a change for the better in the old homestead. The cattle will be cared for in a better manner, your work done at the proper season, according to the monthly calendars, and you will have at last to join in sing-

"A farmer's life is the life for me, I own I love it dearly.

When you do this, you will find no difficulty in keeping the boys at home, and you will thank the editor of the Farmer for publishing the article entitled-"Keep the Boys at Home."

J. F. K.

For the New England Farmer.

BEST GRAPE?

MESSRS. EDITORS:-The great interest now aroused in the culture of the grape, with a view of producing new varieties, whose good qualities claims many a reader. Very easily. Many a young are more available in our northern climate than those promised by the long cultivated Isabella and Catawba, has induced many enterprising cultivators to raise young seedlings, hoping to secure the one prize that must be hidden among was of his own son; these he would work with thousands of blanks. Such enterprise is very praiseworthy, but the result will be that about every experimenter will be fully persuaded in his with many a farmer's boy? Called up early in own mind that he is the fortunate man, that he has obtained the new variety which the liberal premiums of our agricultural societies have in view: an early grape, a sweet grape, a spicy grape, a good bearer of well-set bunches, and, withal, a hardy variety, whose wood shall not be killed by the colds of winter, nor its fruit mildew in the

Now, who is to decide when a thousand positive men shall be endeavoring to persuade us that they have secured the variety? Within a year I have seen a circular which set forth the merits of a new variety, one of the weightiest arguments in which was the fact that it was the in the field as well as puffed up in the city papers. gentleman himself. To say nothing of certain im-

possible conditions on which this premium is of-dressmakers, but to refresh their souls, and to fered, (the time in which the award is to be made gather new courage to battle with the trials, disrendering it utterly impossible to determine some appointments and sorrows of the coming week. of the desirable qualities which are needed in a The next morning, after partaking of a plentiful good grape,) the fact that a single individual is breakfast, my friend proceeded to show me over to have so much to do with the award of it will detract greatly from the value of the experiment, in the judgment of sensible men. In making this remark, I will cast no reflections on the genture of the sensible men. Every harness, rake, pitchfork, everything in the tleman offering the award; he is entirely un-tie-up, the horses' stalls, and even the calf-pen, known to me, and his idea of testing the com- were as neat and in as good order as if the barn parative merits of new varieties on a large scale had never been occupied. Mr. Allen informed me is an excellent one; but what the public want that he often harnessed a horse after dark withtion, and in whom we all have confidence.

they take this matter in hand, with such varia- at Braintree. The tool-house next claimed my tions from the plan of Mr. Dana as their extensive knowledge and large experience might sug-gest. No prophet is needed to foretell that in our Boston agricultural warehouses. Here I saw cial capacity of the parties by whom they are in pumpkins are easily cut with it previous to cooktroduced, than on the merits of the grapes theming for the swine; it is easily operated by a good selves. Would not the Massachusetts Horticulsized boy, and is a durable and labor-saving matural Society fill an honorable sphere by taking the burden of an experimental test upon them.

But I cannot describe a quarter of the tools selves, thus saving thousands of enterprising and utensils that were hanging from the walls men from a costly and annoying experience? Marblehead, Mass. J. J. H. GREGORY.

For the New England Farmer.

A VISIT TO THE HOMESTEAD OF FARM-ER ALLEN.

birds gayly singing from the tree-top, and the dren. swallows twittering from the eaves of the barn, the membered lay, in my ear.

is, that the question as to which is the best grape out the aid of a lantern, thus avoiding the dan-for general out-door culture, shall be settled by ger of setting the building on fire. The barn is some responsible body that have a wide reputa- 100 feet long and 50 wide, with a light and dry cellar under the whole. He told me that he ob-The Massachusetts Horticultural Society could tained many of his valuable ideas about his farm place the public under lasting obligations, should by inspecting the large barn of Hon. Mr. French, the course of a few years a large number of new one of Willard's patent root-cutters, which Mr. seedling grapes will be in the market, the success- Allen considers a valuable machine for cutting ful sales of which may depend more on the finan-all kinds of roots for feeding to the stock; even

> But I cannot describe a quarter of the tools and reposing on the floor in their respective places, all ready to perform good execution in

lightening the labor of man.

Emerging from the tool-house, I passed into the orchard, with its regular rows of trees, all in bearing condition. Mr. A. told me that when he purchased the farm at about half of its present value, of the former owner, there were To one accustomed to the heat, noise, dust and only about 50 old apple trees on the place; he effluvia of a large city, the coolness and quiet of immediately commenced digging round the old a night in the country is eminently refreshing. and half-dead trees, and setting out new ones, An exhausted frame with the fatigue of a day's and the result has been in producing one of the ride, induced me to retire early to rest, and my finest orchards in the neighborhood. I asked dreams were pleasant, indeed. The gladsome Mr. A. if he ever used strong potash lye on his crowing of the cocks, the singing of the merry trees. "O, no," said he, "I tried it once on that birds, the echoing of the lowing kine, awoke me tree," pointing to the meanest looking tree in with their melodious sounds at an early hour, and the orchard, "and the result has satisfied me of I witnessed a joyful sight at sunrise in the coun-its utter absurdity." I admired the straightness try. The sun peeping over the eastern hills, and of my friend's trees, and in reply to a question, a thousand voices from all animated nature poured Farmer Allen told me that when his trees were forth a volume of music to my ears. Bold chan-about as large as his wrist, he cut some crotched ticleer, perched on the garden-fence, commenced limbs, sharpened one end, and sticking it into the morning concert by one of his ringing pro-the ground, put the crotch part against the trunk clamations; he was answered by his brothers or limb of the tree; a little old matting is placed from all the neighboring barn-yards; the meek looking cows arose and welcomed the milkers with their bright pails, who were soon draining almost as much pains in training up his trees in the sweet milk from their flowing udders; the the way they should go as he does with his chil-

Among the summer apples that he recomsatisfied grant of the swine in their well-cleaned mends, were the Early Harvest, which succeeds pens, all broke upon my sight and ears, and pro-duced such harmony as I never experienced be-this is also a valuable apple; it is a large, roundfore, and the notes still linger, like a half-re-lish shape, sometimes conical, of a pale greenish yellow, flesh very tender, and of an excellent I attended the country church on the Sabbath, sweet flavor; succeeds well in all the northern and was forcibly struck with the solemnity that States; the Golden Sweet is a fine apple. Of pervaded all. The people seemed to come not winter apples, Mr. Allen recommends the Belto display the latest fashion, or the skill of their mont, the Hubbardston Nonsuch, a large, roundish apple, striped with light, rich red streaks, flavor, mild sub-acid, excellent, succeeds best in apple, good bearer, fruit always fair. The Jonathan, so ealled, is a great bearer; color a deep, bright red, of an excellent flavor; the Baldwin, to need a description. These are a few varieties which my friend recommended with a good deal of confidence, as we were standing under the branches of a large Porter apple tree. amply repay the care of cultivation.

My friend now wanted me to go and look at a piece of land that he had reclaimed, and we were one is in haste to get away. Under such circumpreparing so to do when the pleasant sound of stances, the business is apt to be done hastily, the dinner-horn broke on our ears, and as our morning exercise had given us a keen appetite, we concluded to postpone the visit until after dinner. In my next, I will give you an account of the visit to the reclaimed land, and my observations in the hay-field, not forgetting to speak a good word of the utility of the hay-caps.

FREEMAN.

For the New England Farmer.

BARN ARRANGEMENTS.

Mr. Editor:—I will give you some idea of the way in which I intend to build a barn. I propose to have it of sufficient size to acc mmodate my stock of three horses, three cows and a neglected. Most of our show grounds might, by have upon one side my granary, and a large bay for hay, &c., and on the other side stalls for my stock of cattle and horses, a tool room, &c. Un-fully laid out, and a smooth, green surface besolid and liquid, from the stalls. I shall have hogs, hens, &c., and a pig sty, to connect with fair. the before-named manure cellar. I shall give my hogs the range of the manure cellar, and shall, from time to time, put into it muck, leaves and all night-soil, soap-suds, and all kinds of liquids valuable for manurial qualities.

kind, to keep a small farm in a high state of cultivation.

What say the editor and my brother subscribers to the N. E. Farmer, to my plan?

Boston, August 5, 1859.

REMARKS. - Your plan appears well in dea better idea of it. When the barn is completed, with songs and music by the band. give us an invitation to look at it.

BARNSTABLE AGRICULTURAL FAIR.

In looking over the account of this fair, there the northern States. Peck's Pleasant is a large are two things that strike us very agreeably at the outset.

The fair was held on two days, and the annual Rhode Island Greening, Northern Spy, Newton meeting for the choice of officers and the trans-Pippin and Roxbury Russet are all too well known action of business was held on the forenoon of the first day. While the articles for the show were being arranged in the hall, and the stock in the Of pens, the members met, and deliberately transactpears, the following are always good; viz.: the ed their business. This gives them time to do Bartlett, Napoleon, Vicar of Winkfield, Dix and all that is necessary, without the hurry and con-Seekel. These are all good varieties, and will fusion that usually attends these moutings of fusion that usually attends these meetings after the dinner, at the close of the fair, when every and with too little thought, and important matters are forgotten, or referred to committees. Could the affairs of our county societies be transacted more deliberately, and the views of all the members be brought out, there would be more union and harmony in their management. When a fair is held two days, we think the Barnstable plan is an excellent one.

The second thing to which we refer is the appointment of a committee to superintend the setting out of ornamental trees upon the grounds of the society. This matter has been too much yoke of oxen, leaving room for hay, grain, gran- proper attention, and with little expense, be conary, store room or tool house, &c. I intend to verted into beautiful and attractive places. Ornamental treestastefully arranged, and paths skilderneath the stalls I propose to construct a tight-tween the walks, would render them much more ly cemented manure cellar, of sufficient capacity attractive, and add much to the comfort and to contain about two hundred loads of manure, pleasure of the occasion. It would tend to fosand so arranged as to receive all the manure, both ter good taste in the minds of the members and adjoining my barn a building so constructed as to visitors. We hope the example of this society contain a henery, store room with cellar under- will be followed by all societies which own neath for roots, a room for cooking food for grounds devoted to the purposes of an annual

We infer from the report that the directors determined to have a good time at the fair, and other matter, as often as it shall be necessary. I fully succeeded. What was wanting to make also intend to have a drain or pipe running from their Agricultural Show attractive, they made up my house (which is on a higher level than my in attractions of other kinds. They bought tobarn,) to the manure cellar, and to carry into it gether His Excellency the Governor, and various notabilities from all points of the State. The I hope, with the above named conveniences, Ancient and Honorable Artillery company from and the assistance of three or four of the hog Boston were there, and the Boston Brass Band, with various side shows, such as a revolving swing, the Ethiopian troupe, big oxen, &c., and last, but not least, a splendid ball on the evening of the second day. J. B. Smith got up one of his best dinners. Gov. Washburn made an eloquent oration, and there was the usual variescription, but a ground plan would have given us ty of speech-making, and other talk, interspersed

But amidst all this display and show, we fear

that the farmers themselves showed rather small, cannot raise beets, tomatoes, melons, onions, let--that they were pushed, or fell into the back-tuce, and furnish her own table with them? What ground—and but little was actually done, to pro- woman cannot plant a raspberry bush, or currant, mote the growth and improvement of agriculture.

When the energies of a society are expended in When the energies of a society are expended in piness, and your children also. - Valley Farmer. getting up a grand festival, the real object of its organization is apt to be overlooked. We take it, the "chief end" of a country agricultural society is to awaken in the people a deeper sense of the importance of Agriculture, and to stimulate the farmers to greater efforts to develop the agthe legitimate objects of the societies, then let us ing a living, unless he has some resource besides the farm, and laying by three per cent. on the have them, by all means.

"The whole programme of exercises for the occasion was entirely and splendidly successful," publish this to the world, as most farmers are in and "Wednesday and Thursday are days long to debt, and, as the Frenchman said, "they are be remembered in the history of the Barnstable growing no better very fast." Now, if what I say Agricultural Society." Well, we shall see.

WOMEN IN THE GARDEN.

this corner, a rose in that, a dahlia bed there and main content. a moss border here will not be out of place. Only

For the New England Farmer.

IS THERE ANY PROFIT IN FARMING?

Mr. Editor:—I have been some seven or eight years engaged in the business of agriculture, and have generally found the answer to the ricultural capacities of the country. For this above question to be in the negative in most of purpose, the best specimens of stock and other my direct operations on the farm. I have been farm products are brought together, that they also somewhat observant of the progress of my may be seen and examined, and the improve-brother farmers in this section, and New Hampmay be seen and examined, and the improve-shire, to some extent; also, I have taken some pains to inquire of those whom I meet from oth-awarded to reward and encourage effort. If er sections of this, and other States; and if I military displays, military music, and fancy balls should tell what I honestly believe in the matter, and other side shows, are needed to accomplish I should say that not one farmer in ten is mak-

capital invested.

Perhaps you will say, it is not good policy to is true, that agriculture is not a paying business in New England, that the farmers are working hard and long, to no profit, that they are generally in debt, and many hopelessly so-that farm property is deteriorating in value, (I mean the Much in these days is said about the sphere of real property,) in three-fourths of the towns woman. Of the vexed question we have nothing where farming is the principal pursuit; that the now to say. The culture of the soil, the body report on the poor in this State shows that it and the soul are our themes. Rich soils, healthy costs nearly double according to the population bodies, pure, cultivated souls, these are what we for their support in the agricultural, than in the are aiming at. And to this end we recommend manufacturing and mechanical towns and cities that every country woman have a garden that she of the commonwealth; that no poor man, howevkeep and dress with her own hands, or that she er industrious, can expect to succeed in the busisupervise and manage. The culture of straw-ness; if he makes the attempt, it is only to his berries, raspberries, blackberries, gooseberries, sorrow; that, while catering to the wants and currants and garden vegetables is as delightful comforts of others, he can but illy afford to enjoy and profitable as anything in which a woman can them himself; that, in short, while seeing the engage. She may sprinkle her garden well with thrift and prosperity of the different classes all flowers. All the better for that. A snowball in around him, who are non-producers, he must re-

Now, says the reader, is this so? I supposed let the substantial and useful constitute the chief that the farmers all the time lived in clover; that part. A touch of the ornate, like a ribbon on a they were almost the only truly independent and good bonnet, is not in the least objectionable. In happy people amongst us; that they had nothing all the schools the girls study botany. In all to do but to pluck and eat. What made you think families the women ought to practice botany. It so? Have you been in the habit of listening to is healthful, pleasing and useful. The principles the speeches of some official or ex-official, (who of horticulture are the principles of botany put is anxious to cut off the ex,) at some County or into practice. Farmers study agriculture, why State show, or perhaps on the eve of an election, should not their wives and daughters study hor- or is it some "three-cow gentleman farmer" who ticulture? If any employment is feminine, it has told you about the "six bright milk pans would seem that this is. If any is healthy, this which reclined against the fence," or "the angel must he. If any is pleasurable, none can be cow that stood in the yard?" All this is very more so than this. A rich bed of strawberries, a pretty to talk about, and it is undoubtedly highbush of blackberries or currants, a border of flow-ly agreeable to farm when one has money to ers produced by one's own hand, what can well spend that he never earned, or having earned a afford a more rational satisfaction? We say to fortune at some other pursuit, is willing to spend all our country sisters, have a garden, if only a a portion of it in this way, to make a show, or small one, and do your best with it. Plant it for the public good, either of which is highly detwith what pleases you best, with a good variety, rimental to the true interest of the farmer. Perand see what you can do with it. What woman haps this class of farmers of whom I am now

speaking, take a good deal of pride in showing I might carry these remarks to a much greater folks how things can be done, and what mon-extent with about the same result, but fear I am strous crops can be raised, and what mammoth getting tedious, and intend to refer to the subject cattle can be produced. The reader will recollect again, if the Farmer will give me the privilege. that it is the *profit* that we are looking at, and not that great things can be done, or that farming is for bringing up the subject in his last issue; for

anything like a fortune at farming, and this was question with the farmer is, will it pay to do it? an honest old deacon, who was so highly elated I have the very best authority for saying that no with his great success, that he concluded to lec- business that does not pay, is useful and healthture on it before the town society. Of course ful. everybody was on the qui vive to know how it was done, so he had an anxious auditory. I will not undertake to follow him in his remarks here, but will merely state that he closed evidently with as much satisfaction at his success at lecturing, as at fortune-making. The lecture had no other efwas about the way with the deacon's fortune.

remedy the evil.

on my mind. Go into the rural districts and see must be sheltered in winter to secure fruit. When what proportion of the farms have been long in the Isabella, left without proper shelter, succeeds figure up the improvements, and see if the soil is pening than the fruit of a properly protected not a free gift. Go further than this, and price vine.

J. S. SWIFT. the yearling heifer you see in the yard, Now ask what it cost to raise it, and you will be told, I don't know. This is true, he don't know. But Dr. Bartlett, of this town, will tell you that it costs twenty-three dollars to raise a yearling and this is probably about double the price named. HEMARKS.—AIT. 3. 3. II. GREGORY, of Marthest Action on the sub-level gives as a reason why some grape vines do year, a good cow will give four quarts per day, or 1460 quarts a year, which, at two and a half the stamens of other vines." cents per quart, amounts to thirty-six dollars and fifty cents a year, making a loss of twenty dollars and seventy cents a year, for each cow, tleberries brought into the Boston market each taking care of them. taking care of them.

Now, I want to thank the editor of this paper not a very agreeable way of spending money. it is the profit of farming that we want to talk I never heard of but one man who had made about, and not what we can do. But the grand T. J. PINKHAM.

Chelmsford, Mass., July 25, 1859.

For the New England Farmer.

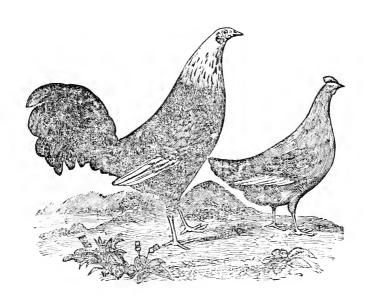
UNFRUITFUL GRAPE VINES.

I noticed in the Farmer, some time since, an fect that I could see, than to create a smile on inquiry why a particular vine of the Isabella the part of the listeners, and reminding one of grape could not be made to bear; and in reply, the anecdote of the lawyer and the iron kettle. an intimation that the cause might be its stand-The lawyer arose in court with a good deal of ing at a distance from any other vine. I have pomposity, and says, "Your honor, my client proved by numerous experiments, that the grape here is accused of stealing an iron kettle, now, does not need the vicinity of another vine, as each may it please the court, I shall prove in the first flower has all the organs necessary to fruitfulness. place, that this plaintiff here never owned an iron I will suggest that exposure to the cold of winter kettle; and in the second place, that the ket-le was broke when he took it; and in the third this case the vine will leave later in the season, place, that he never took the kettle at all." This but afterwards may make a luxuriant growth. In such cases the flower buds, though perfectly The reader will please excuse this seeming di- formed before, develop only leaves. This is algression, although it is not really so, for we have just this class in the community, who, like this deacon, imagine they have great success, and rapidly, and one acquainted with the peach will are the community to the community of the communit never find out their mistake, till it is too late to find abundance of flower buds perfectly formed in the fall; but in the spring these buds throw Does the reader want any facts to prove what I out only leaves, the flower germ having been have said? If so, and he will listen one mom-nt. killed by freezing, while the leaf germ, (if I may I will give him a few of the many that are now use such a distinction,) survives. Grape vines the market without a customer, price them, then in making fruit, it will be a fortnight later in ri-

Farmington, Me., August, 1859.

Remarks.—Mr. J. J. H. Gregory, of Mar-Then ask what he gets for his milk? Two cents not bear fruit, that they are imperfect ones. He per quart. Is this the cost? I don't know. Hear says: "Struck by the phenomenon of vines what the Secretary of the Board of Agriculture abounding in fragrant blossoms without setting in this State, says in the matter. "By actual experiment at the State Farm at Westboro", it has been proved to cost twenty-five cents per day for with those from fruit-bearing vines. The differthe six cold months, and six cents per day for the ence was at once apparent; the blossoms of the other six, to keep a cow." This would make the two vines which had never borne were not perfect cost of keeping a cow one year, fifty-seven dollars and twenty cents. Now, how much milk will a cow in structure; the stamens were present, but the and twenty cents. Now, how much milk will a cow in structure; the stamens were present, but the give in a year? Our farmer says he don't know. pistil was wanting. Such vines cannot bear-it And he tells the truth, undoubte lly. But what is a physical impossibility. Had the pistil been will our authority tell us has been proved to be present they might have borne, though the stathe fact? On the average for each day in the mens had been wanting, receiving pollen from

There is an average of 300 bushels of whor-



THE SCOTCH GAME FOWLS.

figured above, we do not present to encourage back, a very rich red; tail, glossy greenish black; any propensity for the cock-pit or prize fight, or legs, dark. Hens, brown, of various shades, the because we think that, upon the whole, they feathers being streaked with pale ochre down would be more profitable, as a breed, for our the middle, the same as pheasants; comb, in the poultry yards generally; but because we suppose cocks very small, and not large in the hens." the Game Fowl is a pure breed, and that such The eggs are a little smaller than those of our blood infused into our common fowls would common fowls. The hens are good setters and greatly improve them.

try, it says-"Of all the varieties of domestic common breeds. fowls, except, perhaps, the Smooth-legged Bantans, the Game Fowl is the most symmetrical. It is more slender in the body, the neck, the bill and the legs, than other kinds, and the various hues of the plumage are more brilliant and the above work, particularly the author's remarks showy. Their flesh is white, compact, -like that on the cultivation of Fruit Trees. There are of the race-horse compared with the scrub,- many excellent hints and directions regarding delicate, and very nutritious.

eolored or white.

fine; neck, light orange red; breast richly spot-rubbed off emitting a red liquid; this insect, when

The beautiful specimens of fowls which are ted, as are, also, in a degree, the wings; the

mothers. A cross with the game fowl would un-In Dixon and Kerr's excellent work on Poul-doubtedly give stamina and value to most of our

For the New England Farmer.

"COPELAND'S COUNTRY LIFE."

MR. EDITOR: - I have rather hastily examined their culture, but in his "wholesale denial," as he "There are evidently two varieties of the game fowl, if not more. The first occasionally seen in for although, with him, I believe that lichens and the yard of the farmer, is a bird over the average mosses of various kinds are not the cause, but size, and rather heavily formed; rather too much generally the consequence of a diseased state of eomb; breast quite black; neck, back, and wings the tree, still the woolly aphis, called in England a very deep red; tail, glossy green. The hen in the forks of the branches of our apple trees if plain brown, with a lighter colored neck, some-suffered to multiply, does injury, seeming to burn times a little streaked with ochre; legs light the bark upon which it fastens; then, again, we have another insect, somewhat allied to the "The other variety, which I much prefer, and above, which has been termed the scale, or mininow possess, is a smaller fowl, of a peculiarly light and elegant make; head very small and bark. They are white externally, but when abundant, will surely destroy the limb or check in as carefully as if they were eggs, for good keep-

great, particularly when united with the delicate maintained. ferns, that he wishes to preserve them, the same harbor in the outer bark of trees, and can be re-moved by scraping and washing, are really inju-different in quality, and while the produce of some rious to the tree," and also that, "No tree has will be scabby and wormy, the fruit of other trees

injurious to the trees, such as spiders or their barrels of choice fruit worthy of being kept over, larvæ, and that the rough bark is not of itself det- may be considered a first rate tree; and an or-rimental to their growth, as it is often thrown off chard that contains fifty of these trees is a first

Salem, August, 1859. J. M. IVES.

GATHERING AND PRESERVING FRUIT.

BY ROXBURY RUSSETT.

Whoever would derive large profits and prices from his orchard, must be prepared to take care to be gathered and preserved; and the better to mature; and maturity is always followed withthis part of the work is done, the more profits in a short period by decay. Hence all fruit should

The best mode of gathering as yet known is against other fruit, or against any substance that wither. would bruise it in the slightest degree. The same gathered to the fruit room, or place where they are to be kept. They should not be removed in a certain amount of jolting.

fruit is put into them. Then they should be laid Michigan Farmer.

the growth. Their first appearance, some years ing winter apples are worth as much, and good since, with me, was upon young trees received winter pears are worth a great deal more. But from Long Island, and my neighbor Manning though it is the practice to put fruit in barrels observed to me that the first time he found this to keep, it is not one that can be recommended, insect was upon trees he received from Flushing, unless the fruit is about to be sent to market As for lichens and moss being a benefit to a within a short time. When in barrels also, fruit fruit tree, I can hardly admit. To the eye of the cannot be inspected and watched, the decayed or botanist it may be that the beauty of color, is so decaying ones removed, and good supervision

Shelves are much better, and these shelves as a true lover of nature may be willing to fore-might be so arranged and divided that each subgo the pleasure of eating a fine pear, thus merg-division would hold the produce of a single tree. ing the useful in the beautiful. I cannot sub- By thus keeping the fruit of each tree separate, scribe to his conclusion, that "no insects which there would be less danger of spoiling. Trees ever been with certainty benefited by scraping will be free from these defects. A range of shelves, each one capable of holding from five to six bush-I do admit with him, that many insects which els or two barrels, would accommodate an orare found in the rough bark are not necessarily chard very well. For a tree that produces two by nature; and still, it is undoubtedly at first, as rate paying investment. By keeping sorts sephe says, a protection against heat and cold. I arate, and even the growth of each tree from each shall take another opportunity to speak of his other, much sorting and picking will be avoided. directions, &c., on the culture of our small fruits [No fruit should go upon shelves that is not first rate in quality. The cullings, which may be used or sold, could be preserved either in barrels or on the floor, till got rid of by sale or otherwise.

The fruit room should be a cellar, capable of being well ventilated, and made dry before the fruit is placed in it, but afterwards it should be kept close, dark, and the temperature should at all times range between 35° and 45° Farenheit. of his fruits, as after they are grown they have Light and heat both act on the fruit and cause it will be obtained. Besides, it is the preservation be gathered at a period before they become quite which enables the fruit-grower to put his valuable ripe. The low temperature and the exclusion of varieties in market when they are worth the most light delays the time of maturity, hence the keeping quality.

A French writer, in the Revue Horticole, also by hand with the aid of self-supporting ladders, claims that all the carbonic acid evolved from and small baskets cushioned on the inside. There the fruit, should, if possible, be retained in the are various contrivances, and some of them really room. Hence after the fruit is put in its place, meet all the requirements wanted, with the ex- the room ought not to be ventilated, as this would meet all the requirements wanted, with the ceptions that they use up too much time. These ceptions that they use up too much time. These contrivances answer for amateurs, but not for farmers. Every fruit taken from the tree should good grounds that all moisture or humidity should have the contribution of have its stalk unbroken, it should be gathered be kept out of the fruit room, as it likewise proby hand, and placed in the basket, carefully and motes decomposition, but the air should not be lightly, not allowing it to drop, or to knock too dry, as then the fruit would dry up and

It is calculated that a room 15 feet long, 12 care should be taken in removing the fruit when feet wide and 9 feet high would hold shelves enough for 8000 large sized winter apples or pears, allowing each one to occupy an area of a wagon or a wheel-barrow. They should be four inches square, so that no fruit would touch carried in large baskets on a hand-barrow, for each other. Allowing 150 apples to a bushel, that is the only method by which they can escape would make room for about 600 bushels of apples, not one of which would touch the other, or at The sooner winter fruits are removed to where least 1200 bushels where they were piled two in they are to be kept, after being gathered, the bet- height. Those who have good cellars for fruit ter. The usual place of storing them is in cellars, will now see the advantage of them; but we where there are no special fruit rooms provided should prefer a room in the orchard built under for them. If they have to be kept in barrels, the shade of the trees, in the manner of an ice-each barrel should be clean and dry before the house, with double walls, doors and windows.—

EXTRACTS AND REPLIES.

WINTER-KILLING OF TREES.

In a recent number of the Farmer, one of its most closely observing correspondents offered a few suggestions relative to statements which 1 had made in relation to the winter-killing of fruit trees in Maine. His suggestions are important, and in the main, correct. He is, however, mistaken in supposing that the killing alluded to was effected by the hard frosts of au-inquired of him as to the prospect of the crops loss was suffered in any grade of nursery trees. in any situation below the surface line of the snow as it lay at the time when the thermometer sunk to the fatal point. The rapid growth of the Baldwin is not the only cause of its winter-killing. I cultivate other varieties which make more growth than the Baldwin, which are not injured by cold that causes mercury to congeal. The Baldwin is a tender variety, I fear too tender for reliance in Maine. But I agree with your coror another generation may pass before we have another winter as fatal as the last, and that two years preceding. At any rate, the Baldwin must not be forced too hard in its culture in northern latitudes. J. S. SWIFT.

WHEAT-TOP-DRESSING.

Can you give me any information with regard to a kind of wheat called weevil-proof winter wheat, and whether it is true to its name or not. I have often thought that if there is such a kind of grain that would be suitable to our climate, it would be a blessing to us farmers to have it to cultivate. There is also another kind of grain called Speltz, a kind of wheat, I believe; the heads grow very long, and when threshed, the kernel remains in the shuck. I had a few kernels of each of these kinds sent to me in a letter, and I sowed them in my garden; I see no signs of weevil about them, but how it would be as a field crop, I do not know.

Is there anything that would make profitable top-dressing for grass land where there is not enough manure to go over all? Would lime, superphosphate of lime, guano, or any of the numerous fertilizers, be profitable for such? Should all top-dressing be put on in the fall?

Barnet, Vt., Aug., 1859. Some Anon.

REMARKS.—We have never heard of the wheat you speak of.

A top-dressing for grass land of clear yellow loam is valuable. Lime would undoubtedly be useful, but whether it would be profitable, would depend upon circumstances. So with superphosphate and guano.

TO "A LOVER OF GOOD PICKLES."

My plan is to select cucumbers of small size, throw them in cold water a few hours, place in a small tub; cover with vinegar that is not very strong-in about two weeks pour it off and replace with good vinegar that has been scalded, extract below. skimmed, sweetened slightly and spiced with ginger, cassia-buds, lemon-peel, &c. Pour the vinegar over the fruit while hot; when cool, set the Assessor's returns to the County Auditor, it in the cellar and stir often enough to prevent says the Belmont (Ohio) Chronicle, the amount

a scum forming over it. Should the vinegar become flat, replace it with more prepared in the same manner. I have so preserved them the last two or three years, and find no difficulty in keeping, unless placed upon the dinner-table.

Putney, Vt., Aug. 8, 1859.

CROPS OF THE SEASON.

I just now met my neighbor Huntington, and of the season. He said he should have very little, comparatively, for the market-full threefourths of his onion crop having been destroyed by the maggot. I asked him what he thought of the use of guano, as a preventive of the mag-got. "Nothing at all," said he. "The best onions I have, are on a part of the Whittridge lot, where I applied no fertilizer of any kind. It happened in this way-my manure gave out before I got through planting, and I thought I would espondent that it is not best to be discouraged, but I shall be maining rows without any manure at all. I shall have more good fair onions on these rows, than on all the rest of the lot. I give you the facts as he stated them." There is no mar among us, whose word would go farther than that of Benjamin Huntington.

> Aug. 4, 1859. South Danvers.

THE WILD CARROT.

Can you inform me the most ready way to exterminate the wild carrot, so called? Chilmark, Aug., 1859. JOHN HAMMETT.

Remarks.—Where the wild carrot has become quite numerous, we doubt whether it can be exterminated short of plowing and cultivating the ground with other crops. If the land is well plowed, manured and cultivated, and given a crop of potatoes or corn, and then properly seeded to grass, the grass will be quite likely to take precedence of everything else.

TWO YEARS' OLD PICKLES.

HENRY J. DURGIN, Shaker Village, N. H., has sent us a bottle of pickles which he states are two years old. They are hard, sound and fine flavored. He also states that it takes but forty-eight hours from the time they are taken from the vines to make them perfect. Any one desirous of knowing his process may communicate with him as above.

THE MASSACHUSETTS DOG LAW.—Our legislature, at its last session, passed a pretty stringent dog law, which we hope has gone into vigorous operation. In some towns we have been gratified to see that its provisions have received decided action, and that there is an evident diminution of that worse than worthless property. Read the

What our Dogs Cost us.—We extract from

the past year. The result is anything but encour and drained to the depth of three feet, about five aging to the canine species. The whole number years previously, and was at that time stocked of sheep killed was one thousand and nine. The down with herdsgrass and redtop. The wild number injured was one thousand, one hundred grasses beginning to appear somewhat, it was and twenty-five. The amount of injury done, in thought best to plow it up and seed anew. The killed and damaged, is estimated at the round land being very rich, and in a good state genersum of three thousand five hundred and eighty- ally, no manure was applied to it last year, but nine dollars. Add to this the amount it cost to immediately after plowing, it was harrowed down keep the dogs of this county, and we have them smooth and fine, and the seed sown and "bushed costing more than perhaps any luxury—if such in." A part of the fowl meadow seed was sown they be-indulged in.

For the New England Farmer.

FOWL MEADOW GRASS AND ITS CULTIVATION.

BY FREDERICK HOLBROOK.

The late Hon. John Lowell, in a communication to the old New England Farmer, Vol. 9, for the year 1831, remarked of the fowl meadow grass:-"If this truly Yankee grass could be translated to all the meadow bottoms, the naturally moist, cold, half-peaty lands of New England, their produce would be at least doubled. Low meadows are chiefly furnished with the different species of carex, a coarse, sharp, worthless The grass from the new seeding will be ready grass, on which no animals but those which are for the scythe in a week or two, and is thick and nearly famished will feed, and on which those of extra quality. On that portion where the fowl who do feed constantly decline. We have then meadow, herdsgrass and redtop seeds were sown one species of grass not usually cultivated, which in mixture, the fowl meadow has vegetated and is of inestimable value. It is no idle speculation grown, as well as the other two grasses, and the but sober fact, our agriculture has much to gain whole will soon be fit to cut. It is quite appaby the active, earnest, assiduous propagation of this grass."

Having in former years read several interesting articles upon the fowl meadow grass, I have been led the more closely to examine, from time to time, its habits and qualities, as I find it growing in the lower and more moist portions of the mer. As fast as it becomes desirable to plow and intervales of the Connecticut river; and I think it will bear all the favorable commendation Mr. Lowell has bestowed upon it. This grass grows the most valuable of all grasses for such kind of in patches here and there in the intervale lands low moist land. near my residence. Until within the last year, near my residence. Until within the last year, we have made no systematic efforts to cultivate from the flooding of the land by freshets. That it. Still it has come in, of itself, and held long is a great merit, for these lowest portions of our possession in certain places, and grows very vig-river lands are subject to overflow, and after a orously wherever it has foothold. It somewhat winter or spring freshet, the water not unfreresembles redtop in gener 1 shape and appearance of stalk, head and seed, but the head is of a lighter or paler color, and the stalk grows taller than redtop, and quite slender and delicate, the land a week or fortnight at a time; and sometimes before one flood has entirely subsided, another succeeds, and keeps er than redtop, and quite slender and delicate, the land wet for three or four weeks. I infer that while the bottom or lower foliage is very abun-the flooding is an advantage, rather than otherdant and fine. It undoubtedly excels herdsgrass wise, from the fact that wherever this grass has and redtop for a large product and fine quality come in, of itself, it has invariably done so on of hay. It turns out a full swath to the scythe, the hay is easily cured, remarkably soft, tender, The fowl meadow grass will last in the land for and succulent, excellent for milch cows, and particularly for working oxen during their labors in it, about in our meadow, have flourished there for the spring season.

Observing these qualities from time to time, I was induced last year to procure two bushels of the seed of fowl meadow grass, for the Vermont Asylum, situated near me, with a view to its systematic cultivation on the lowland meadow be-

of sheep killed and injured in the county, during plow. The land had been thoroughly ditched, alone, and a part mixed with herdsgrass and redtop seed, each in about equal measure, and the mixture sown on the remainder of the plowed land. I obtained the seed of Nourse, Mason & Co., Boston, and would have been glad of more, but was informed by their seedsman that two bushels was all the seed the market then afforded. How singular that so valuable a grass should be so little cultivated for seed.

On that portion of the land where the fowl meadow seed was sown alone, the grass has come very well indeed; it is now heading out, and I find it corresponds in every particular with the grass growing about in patches in the intervale, and which I had always taken for fowl meadow, judging from the descriptions I had read of it. rent, however, that the fowl meadow is to be the

best grass of the three.

This lowland meadow embraces a number of acres, the draining and reclaiming of which I have felt much interested in, and have heretofore quite fully described in the New England Farreseed this land again, we intend to stock it down with the fowl meadow grass, believing that to be

those portions of the meadow that are overflowed. an indefinite period. The self-seeded patches of a long time, in spite of wind and tide, yielding as full and good crops now as at any former period.

It is universally the impression among our farmers, that fowl meadow grass should not be cut till the seed ripens; that too early cutting has a longing to that Institution. The seed was sown tendency to enfeeble the roots; and that it perabout the middle of August, a year ago now, on petuates its hold on the soil by annually shedland prepared for it by deep, thorough plowing, ding its seed thereon. I am not able to speak with the Universal double or sod and subsoil from positive experience on this point; and

would like exact information from any reader by one Herd who propagated the same:-That who knows the habits of the grass in this respect. Fowl-Meadow Grass was brought into a piece of This much I have observed, that the quality of meadow in Dedham. (near Boston,) by ducks and the hay is not at all injured by letting the grass other wild water-fowl, and therefore called by stand till the seed is ripe. The bottom foliage such an odd name. It is supposed to be brought cutting till into August, and it holds perfectly floods, and called there Swamp-Wire Grass. Of the sides of the ditches or in corners of the field, makes a more soft and pliable hay than Herd-which happened to escape the scythe at haying Grass: it yields a good burden, three loads to time, that held perfectly bright and green at the the acre. It must be sown in low, moist land. handful of the grass, to see the stage of forward-ness of the heads, and find the seed sheds a little now. From the first to the middle of August, I stand beyond the common time of mowing. Clo-

more cattle, so as to have earth enough above October." the inverted sod out of which to raise a deep I for one should be gratified if correspondents mellow surface tilth, free from sods and old of the Farmer familiar with the fowl meadow and other coarse matters, which need subjection, wet lands with the fowl meadow grass. it might be well to till it for a year or two in hoed crops, perhaps manuring it somewhat for the same; and when thus brought to a suitable fineness of tilth, it might be stocked down in the spring with fowl meadow grass, but omitting the sowing of a grain crop with it, as the grain would choke the grass too much, and prevent its thrivor profit of the land.

So far as I have observed, the fowl meadow the surface of all stagnant or standing water.

inasmuch as most persons, on hearing or thinking about the name, without attending to the substance, and after doing so, to rub in the soap the very finest and sweetest of hav.

The Rev. Doct. Jared Elliot, in an essay written in the year 1751, gives some interesting facts from my observation, it is hatched in the early respecting the origin, habits and qualities of this part of June, near the surface of the bark, and find the following extract from his essay. "There application of the soap. are two sorts of Grass, (says the Doctor,) which mend; one is Herd-Grass, (known in Pennsyl- my trees which were very badly injured, are now vania by the name of Timothy-Grass,) the other completely recovered. is Fowl-Mcadow, sometimes called Duck-Grass, and sometimes Swamp-Wire-Grass. It is said made this experiment which has proved perfectthat Herd-Grass was first found in a swamp in ly satisfactory. Piscataqua, (now Portsmouth, New Hampshire,) | Sippican, Mass., August 8, 1859.

seems to thicken up all the more by delaying the into the meadows at Hartford by the annual fresh and green till after the heads are ripe. In these two sorts of Natural Grass, the Fowl-Meafact, I have noticed occasional little patches, on dow is much the best; it grows tall and thick, bottom till late in the autumn, or until eaten off Our drained land, when it is of sufficient age, is by the cattle ranging in the fall feed. I have to-land very agreeable to this sort of grass. This day been down into the meadow and gathered a grass has another good quality, which renders it judge would be a suitable time to cut fowl mea-dow, as it usually grows in this intervale. ver will be lost, in a great measure, if it be not cut in the proper season. Spire-Grass, common-August and the fore part of September is a ly called English Grass, if it stand too long, will good time to sow the seed. The land should be be little better than rye-straw: but this Fowlplowed deep, with a plow suitable for four or Meadow may be mowed at any time from July to

I for one should be gratified if correspondents grasses. A moderate dressing of rotten compost grass, would give us the details of their experiwould be well, spread on the surface and har-ence with it, and call the attention of our farmers rowed in. But if the land is rich and mellow, and to its cultivation. The draining and reclaiming well drained, it may do without the manure. Af- of bog-meadows, swamps, and other wet and ter harrowing well, sow the seed liberally-six to swaley places, and converting them into handeight pecks per acre—and work it in with a bush some, productive mowing-fields of the cultivated or light roller, which will give it a sufficient covering. Where land has been recently drained, in New England. I am persuaded that much and is for the first time taken up from a wild, wet benefit might be realized to our agriculture, by state, and is encumbered with hassocks, bogs, inducing the farmers to stock their reclaimed

Brattleboro', Aug. 5, 1859.

For the New England Farmer.

OIL SOAPS FOR BORERS.

MR. EDITOR:—An article under the above ing, thus adding nothing to the ultimate product heading, in your August number, has caught my attention. Perhaps Mr. P. refers to an article of my writing; if so, he may be informed I used grass does not grow in an underdrained bog. It common whale-oil soap, worth in New Bedford wants moist land, such as a lowland meadow, or about eight cents per pound. My manner of a swamp or swale, well drained, so as to relieve using it was to clean the trunks of the trees, from three inches below the surface of the ground The name of this grass is a little unfortunate, to six inches above, perfectly clean of little fibrous roots, loose bark, and every extraneous spelling of it, get the idea that it is a sort of foul in an undiluted state most thoroughly, filling all grass, of a sour, swaley character. Nothing, how- the worm-holes. I also dug out all the worms I ever, could be further from the truth, as it makes could get at, and those I could not readily reach, I probed with a piece of whalebone.

I don't know when the egg is deposited, but grass. In Vol. 4, old New England Farmer, 1 the borers are then most easily destroyed by the

I have discovered but two borers in my orare natives of the country, which I would recom- chard since my first application, and several of

NATHAN BRIGGS.

FOOD FOR COWS

miliar with the writings of M. Chabert, and undertaken, the operation will be more speedily would be superfluous.

"M. Chabert, the director of the Veterinarian School at Alford, England, had a number of cows which yielded twelve gallons of milk each day. In his able publication on this subject, he observes that cows fed in winter on dry substances alone, yield less milk than those that are kept on a More Apple Tree Philosophy—Time of Pruning—Close Cutting green diet, and also that their milk loses much of its good quality. He published the following the winter as during the summer.

greedily."

of feeding cattle in winter are far from being sap for winter. strictly economical, and will continue to be, so in pruning, branches cannot be cut too closely. long as they are fed entirely on crude food-on A dead, projecting knot is a dangerous append-Hay cut and moistened with warm water, and range of circulation becomes soured, and poisonmixed with a very small quantity of rasped roots potatoes, carrots, beets, turnips, parsnips, pump-sap below it, it has the effect of coloring the bark in its long state. Beside, the cutting will enable sap sometimes bleeds out of the living wood when the feeder to use up his rough fodder to good wounded. of feeding.

Steaming is another means of economizing food, and one which is overcoming the prejudices off a branch. Nature therefore tells us that if with which its introduction was attended.

A friend of ours made an experiment by feed-terial importance. ing his mileh cows for an entire winter upon hay tea-tea made by steeping hay in hot water in the same manner that the fragrant leaf from the branches on a growing tree will have the effect Celestial Empire is prepared for our social cup of forcing larger quantities of sap into the re-

sary to remove large stumps, under circumstan- in such instances all, or nearly all the growth ces which render it impracticable to avail one's will be on the top, the roots remaining stationary ing. This is done by digging under them, filling natural balance between top and root, and depriv-the cavity with combustible materials, and coving a tree of superfluous, leaf-bearing branches ering the stump, efter firing the materials, with —though sometimes necessary—always retards

turf, in the same manner that coal-kilns are cov-We would commend the following article to ered. The fire will in a short time effect the enthe perusal of those of our readers who have the lateral roots—unless the soil is very humid, in care of cows, as it presents many important sug- which case the burning should be undertaken gestions to which they will assuredly find it for during the dry weather of summer. If the dirt their interest to attend. With those who are falis excavated a few weeks before the burning is milier with the writings of M. Chabert, and effected. The asnes produced by the combustion with his exalted character and high standing as will afford an excellent stimulus for the soil, and a scholar, any commendation from our pen, fur-should be carefully applied as soon as the operather than to be peak attention to the subject, tion is completed. But in all cases where eradication by pulling is practicable, the stump machine should be used. - Germantown Telegraph.

For the New England Farmer.

LETTERS FROM MAINE --- No. 5.

In pruning apple trees, in high northern latirecipe, by the use of which his cows afforded tudes, too much interference with nature must him an equal quantity and quality of milk during not be presumed upon. Nature ever strives to keep the proper balance between root and top, Take a bushel of potatoes; break them whilst and in pruning or grafting it is dangerous to desraw, place them in a barrel standing up, putting stroy that balance by depriving the top of its in successively a layer of bran, and a small quan-leaf-bearing twigs, to any great extent, at any one tity of yeast in the middle of the mass, which is time. I do not regard the time of pruning as a to be left there to ferment during a whole week, question of so much importance as some of the and when the vinous taste has perveded the whole correspondents of the Farmer seem to attach to mixture, it is then given to the cows, who cat it it. Probably the worst season for pruning is between the middle of July and the fall of the leaf, We are inclined to think the present practices as all the leaves are then needed to mature the

Careful observation has convinced me that hay unchaffed, and on roots and grain uncooked, age to a tree; as the sap which is left out of the kins or apples, will go twice as far as when fed black, giving rise to the mistaken notion that

Nature sometimes trims living branches from advantage—his stalks, poor hay, straw, &c., and trees, in the winter by pressure of snow or weight to keep more stock, and in better condition than of ice, and in autumn by the weight of fruit on he could possibly by adhering to the old system the branches. In both cases the whole knot is split out of the tree, making a large, deep wound, but one which generally heals rapidly, with less injury to the tree than commonly follows sawing we trim close, the season of the year is of no ma-

In my fruit culture operations it took me a long time to learn the necessity of a large quantity of leaves. It is true that trimming away half the tea.

maining branches, and compelling them to make a larger growth. But it must not be inferred from this fact that the tree suffers no loss; for, self of the assistance of a "stump machine," the till the original balance is restored. Nature's work may be successfully accomplished by burn- efforts are always directed towards restoring the the extending roots. I offer these suggestions who is in reality of more value to the world than by way of theory. If the theory be correct, the a cart-load of such coxcombs. Labor, as a healthproper practice will naturally suggest itself to improving exercise, is of more importance to the SANDY RIVER.

respondent as he has written them, not because we assent to all of them, as regards pruning, but because he seems to have given attention to the subject, and it is fair to lay these different views who clabored with his own hands." We read of before the reader.

For the New England Farmer.

LABOR AS A CURSE.

Messrs. Editors: - Man is so constituted, that labor enough to supply himself with food, by his own hands, is a condition which is beneficial to his health. We read in Genesis, that the "Lord God took the man and put him into the garden of Eden, to dress it and keep it." Does not dressing and keeping the garden imply labor? It does not seem that Adam was formed to live an idle life, as those who "place bliss in case" un derstand it, but to take care of his garden like a good horticulturist. This took place before his fall, and of course there was no curse implied in his being located in Paradise to labor for his liv-

There appears to be a palpable misunderstanding among theologians and others, about labor being inflicted on man as a curse for disobe-ing trees and crooked trees. I think, will be dience; I can put no such construction upon the found to be the earliest and best bearers. verdict of the Almighty pronounced against Adam reason is, the directly upward flow of sap favors for his sin. God said, "Cursed is the ground for growth of wood and leaves, but not the secretion thy sake;" "in sorrow shalt thou cat of it all the days of thy life." "In the sweat of thy face shall thou eat bread till thou return unto the ground."

The flow of sap is an electrical phenomenon, and thou eat bread till thou return unto the ground."

The flow of sap is an electrical phenomenon, and those who are familiar with galvanic experiments will see at each who the same that the same Now, if any living man, with all his sophistry, can make it appear without doing violence to language, that labor was inflicted on man as a curse, let him shew himself with his evidence. All men in point o position. Trees set too deep in the let him shew himself with his evidence. All men are laborers, or ought to be. What is an idle man, rich or poor, more than a clam or smail? Mankind were designed for action, to fill different stations and work at different occupations; some are fitted to labor mentally, and others physically; there is as much necessity for the former as the latter; one class may be deficient in muscular power and endurance, and be well qualified for planning, while another class, with strong in a arooping postering for planning while another class, with strong in a arooping postering trees. bones and muscular frames that defy fatigue, can execute what was not in the power of the other to perform. In New England, there are two classes of manual laborers; one class design and execute, which embrace a greater portion of our man who has tried the plan successfully for five agricultural population, the other class are pro- years, communicates the annexed method of prefessed laborers who depend upon the income of venting horses from chafing under the collar. their labor for a support. This latter class are Hc says, he gets a piece of leather and has what practically the sinews of the country. What he terms a false collar made, which is simply a could old folks, lazy folks, sick folks, rich folks piece of leather cut in such a shape as to lie, and other folks do, without this sturdy class of singly, between the shoulders of the horse and est man.

sedentary dyspeptic than all the medicine in the world. Three hours of manual labor a day would REMARKS.—We give the opinions of our cor- be a good as well as economical substitute for a voyage to Europe, or the West Indies, for sedentary gentlemen, who are troubled with bronchitis and ill health for the want of exercise. It appears that Saint Paul was an industrious man his perils by sea, and perils by land, but do not read of his voyages to foreign lands as a remedy for inaction, his object being to enlighten the ignorant, reform the vicious and spread the gospel. Paul said in one of his epistles, "This we command you, that if any would not work, neither should he eat;" so it appears that he showed as little favor to idlers in any situation as any of our modern teachers. SILAS BROWN.

North Wilmington, 1859.

For the New England Farmer,

WHY DON'T THAT ORCHARD BEAR?

A correspondent of the Farmer inquires why his orchard, the trees of which have attained a large size, will not bear fruit? I do not presume to know the reason, but wish to suggest a fact or two which may hear upon the question. Trees bear soonest, and bear best, where the branches are nearest horizontal in their position. Leansoil, produce a watery, unmatured sap, and trees set in a soil where the roots strike deep, will be likely to have tops with nearly perpendicular branches, and consequently prove unfruitful, till the size of the tree compels the branches to assume a more nearly horizontal position. Let our friend try the experiment practised by Euroin a drooping position, some of the branches of J. S. SWIFT.

Farmington, Me., Aug., 1859.

CHAFING UNDER THE COLLAR.—A gentleour practical population? It contains males and the collar. This fends off all the friction, as the females of as good minds as any in the commu- collar slips and moves on the leather, and not on nity, and their circumstances are often owing to the shoulders of the horse. Chafing is caused by causes which would not have disgraced any hon-friction, hence, you see, the thing is entirely t man.

The lucky aristocratic gambler, and conceited under the collar; these, they say, do as much foppish student, may sneer at the laboring man, hurt as good, for they augment the heat. A single piece of leather, like that composing the outside of a collar, without any lining or stuffing, he assures us, is better than anything else."-Boston Journal.

RUNNING AND TROTTING HORSES.

trotting horses. He says:

I think it has been fully shown, by good auperfection, still the creature to all outward appearance, is an ass; I contend, in order to have running form, and to have a good trotting horse, and that horses trot and run in all forms; but that does not reach the case, or if it does, it makes no difference what we breed from, as far a full-blooded running horse is directly the reof them I will here notice. The legs, for instance, of the running horse, from the body down, should finely taper, with long yielding pasterns, horse of good blood, and diametrically opposed to a good trotting horse. I will now give you chunky.

Miss Harriet Martineau, in the new London paper, "Once a Week," is publishing a very inter-Two Acres,"-in one of which sketches she gives the character of the vegetation which everywhere killing of chickens or birds by cats:-"When a course that ought to be pursued; so the lines and when they try the experiment, they and their thing. pets are secure from reproach and danger hence- I felt confidence in assuring my friends that all neighbors will be thankful."

LETTER FROM MR. BROWN.

Attleboro', Mass., Aug. 10, 1859.

Messrs. Nourse, Eaton & Tolman:

Gents:-I was called here this morning to look at a farm with a view to its permanent reclamation, including a thorough system of underdrain-A writer, over the signature of "Hiram," in ling. It belongs to a family, one of whom is a the Spirit of the Times, thus alludes to the dis-clergyman settled over a parish in Worcester tinction to be observed between running and county; two other sons are merchants in New York city, while a fourth, with an aged parent, abides at home to guide the plow and feed the thority, from experience in crossing the ass with kine, to subdue the waste places and make them the horse, that the sire gives the external form; teem with fertility, and blossom as the rose, and although the mare brought the seed to life and himself to remain one of the Kings of the soil, a position no less dignified, useful or honorable a good running animal, you must have a good than his brothers have selected, and one of a class to whom the country must always look for deyou must have a good trotting form. I know, al- fence and support in time of trial, and for those so, that there are exceptions to all general rules, productions which go to make up the wealth of any nation.

With a discriminating judgment, and with as form is concerned, for I hold that the form of great good sense, the minister and the merchants concluded to invest liberally of their surplus in verse of a trotting horse in many respects-some the soil, not only with the hope that profit would come out of it, after many days, but that the homestead might be made attractive and beautihigh-reaching loin, and a long, small neck, and ful, where themselves and their children could may be yewed at that. Now I hold that the annually return and breathe the sweet odors of above qualifications are essential to the running new mown hay, of the fresh flowers that nod over the babbling brook, and hear the familiar sounds what I consider the qualifications in the form of that closed in the calm evenings, or woke the a good trotting horse, opposed to that of a run- bright mornings of their early years. The same ning horse. His leg should be strong, holding sound judgment that led them to these wise conits size well to the hoof, short, straight pastern, clusions, also prompted them to apply to practigoing from the leg into the foot, loin well filled, gently descending from the coupling to the withers, which should be thin and well raised, with a professional man, but they elected to abide by strong, well-proportioned neck, not too thick and my decisions, and hence my reason for dating from this thriving and pleasant town.

The farm contains many natural advantages-To Prevent Cats Killing Chickens, &c .- has a sandy loam upland, beautiful meadows at the base of gentle slopes, and a cold, springy, rocky and repulsive pasture. But the outlets of esting series of sketches entitled "Our Farm of the water-courses, and the indications given by the following as a sure preventive against the met the eye, left no doubt on my mind as to the cat is seen to catch a chicken, tie it round her were laid down, the principles of the process disneck, and make her wear it for two or three days. | cussed and enforced, and diagrams of the whole Fasten it securely, for she will make incredible plan were made of the rushes which grew luxuriefforts to get rid of it. Be firm for that time, and antly upon the spot, and placed upon the ground the cat is cured. She will never again desire to under the shade of an old apple tree, showing touch a bird. This is what we do with our own the direction of the lines, their distances apart, cats, and what we recommend to our neighbors; and giving a distinct illustration of the whole

forth. Wild, homeless, hungry, ragged, savage one acre of the pasture reclaimed, would supply cats are more difficult to catch; but they are as much feed, and of a more nutritious character, outlaws, and may be shot with the certainty that than five acres now does, and that \$50 per acre expended upon it, would give one of the safest

and most permanent investments they had ever chosen to put away, and with a pair of small scis-

not already transpired.

especially, with anything very new that I saw in ful with the latter. the cultivation of the soil, or of marked excellence in buildings, stock, or implements, but in the Some of them are well suited to the various latpure tone of feeling and the sweet affections that itudes of the United States up to the 43d degree exist in country life. Here were gathered por-North. tions of four or five families from various sections and occupations. They had come back to them to the end.

The twilight had gradually given way to the deeper shades of night, and the peculiar sounds of an evening in the country were hushed—the and have our being. He plead for the "stranger" telligent reader for referring so frequently to the that was within their gates, and for his profes- subject. And yet the intelligent reader who made fruitful in the earth. None were forgotten, the farms around him, will see that no word is the aged, middle-aged and the young.

upon such a household, and that peace shall not favorable season for the operation. remain with them to the end?

Truly yours, SIMON BROWN.

PRESERVING GRAPES FOR WINTER.

and with so little labor, it is a little remarkable next season for a grain crop, the manure could that a supply for every household in the country not be better timed or applied. For meadow or is not secured, not only in the regular season of pasture the product would be largely increased them, but to last until spring. There is no both in quantity and quality. On wet land, trouble in keeping grapes through the winter as draining should precede the application of mafresh as when they are first gathered. In seasons when other fruit is scarce, no greater luxury can uring a soil saturated with water during the wet be enjoyed than a dish of fresh grapes in winter. seasons of the year.

In gathering grapes for keeping fresh, they should be allowed to hang on the vines until they are fully ripe, and then gathered with care, to found valuable, and an addition of plaster to the avoid bruising. The fairest bunches should be compost cannot well come amiss. For mucky

sors all defective and bruised berries should be The farmer is receiving essential benefit from cut off. They should then be placed in boxes the operations of men engaged in commercial or they should be packed in boxes holding six or professional life. If this project, for instance, is eight pounds each, first sprinkling the bottom faithfully carried out, and is successful, it will af- with a layer of mahogany saw-dust, or what is ford a valuable example to the hard-working far- better, turning chips, then a layer of grapes, and mer, who feels as though he cannot engage in important that the box be tight, it is better that any enterprise where there is danger of loss, - it should not be. These should be put in the and this feeling he will naturally have until he coolest place in the house, where the air is dry. has experimented, or seen repeated trials by On the approach of freezing weather they may others. I have no more doubt of good results be removed to upper shelves suspended in the than I have of the most certain thing that has is as near the freezing point as possible. Some recommend cotton batting in place of the turn-I have been delighted with my visit here; not, ling chips, but we have always been most success-

A most valuable addition to our old stock of

Every homestead should have its half-dozen vines, at least of the kinds best suited to the locality—trained to the out-houses, where they octhe old homestead to visit the scenes of earlier cupy no room. These, if taken care of, will afdays, to renew and strengthen fraternal attach-ford an abundant supply for the family during ments, and, by occasional intercourse, perpetuate the grape season, and leave a good store for winter.—Valley Farmer.

MANURING GRASS LANDS.

In no department of farming is there a more plaintive note of the whippoorwill had ceased, radical call for improvement, than in the manage-(for his time of mating and loves had gone by, the while he will lineared in his constant and loves had gone by, the way he will lineared in his constant and loves had gone by, the way he will lineared in his constant and loves had gone by, the way he will lineared in his constant and loves had gone by, the way of the though he still lingered in his accustomed places,) bandry. Land which will produce these largely. when the family all came from their respective will produce grain, corn and roots-will sustain a duties and "sung a hymn." Then rose the clear good proportion of stock, and thus furnish within and affectionate thanksgivings and petitions of its familie. These accounts are in the state of the families. the minister; to Him in whom we live and move its fertility. These assertions are seemingly so self-evident, that we must beg pardon of the insion, that it might be blessed and prospered, and looks, perhaps, over his own farm, certainly on out of place, which can attract attention to the question before us. We shall now remark simply How is it possible that blessings shall not rest on top-dressing meadows-the present being a

For improving the yield of grass, and adding to the permanent fertility of the soil, we cannot do better with our fine manure, than to apply it after having as a top-dressing to dry land meadows or pastures. It will give new vigor to the growth of grass, and increase the thickness of While grapes may be grown in such profusion the sward, so that even were it to be plowed the

be appropriate, and these alone—as is the case day they came out. Now the whole energies of with muck on upland-will be found a valuable the corn were put forth to produce suckers to means of improvement. Bone manure, when it rectify the mistake, and it did work lively, for in can be procured, is an extremely valuable fertil- the time mentioned above, it got them out and izer for grass, and no farmer should neglect to dropped pollen on patient waiting beards, every employ in a broken state, all the bones within fibril was fructified at about the same time, for his reach upon the farm.

a meadow, after having, produced a large increase Paddy. in grass-acting, perhaps, as a sort of mulch to the roots, preventing the effects of drouth, adding also a light manuring as it decayed. Turf ashes act very beneficially upon grass land, and some farmers use them largely as a top-dressing for meadows .- Country Gentleman.

For the New England Farmer.

CORN-STALKS---POLLEN---SUCKERS.

In the Farmer of July 30, there is a communiion from Mr. J. M. Ives, on the practice of ther examination proved it to be different. sense. I cut the tops from my corn.

centrate in the seed.

did not grow, (in one sense,) for his horse or sy black fur. mine, but to produce seed and drop it-when that is done, the stalk is straw, and the man that cuts it after the seeds have matured gets straw. I try to cut it when the seed-producing elements undoubtedly, the "Star-Nosed Mole." It is not are in the stalks, just before it can drop out. If uncommon in most parts of New England, but we want the seed of corn in its greatest perfection for planting, we must let the stalks, suckers and all turn to straw.

I love to contemplate the growing corn, "first the blade, then the ear, after that the full corn in ers, short ears and sneuted.

soils, manure composted with loam or clay will the scalding sun of a confined place, fresh as the they were all out waiting, and the corn went on We have seen an account of an experiment with its work, and it being a good season and a where dry straw spread thinly over the surface of warm place, there was tolerable corn in spite of CALEB BATES.

Kingston, Mass., Aug., 1859.

EXTRACTS AND REPLIES.

THE STAR-NOSED MOLE.

Perhaps you, or some of the correspondents of the Farmer, can give information in regard to the name, habits, &c., of the animal I shall mention. A few mornings since I picked up in the barn-yard, a little animal dead. It bore the appearance of being killed by a cat. At first sight I supposed it to be the common mole, but furcutting corn stalks-it appears to me like good body was plump and round, about 52 inches from nse. 1 cut the tops from my corn.

Every farmer ought to recognize one great and sparsely covered with coarse hairs or bristish that there is an economy wise borned. truth, that there is an economy, wise beyond tles; hind legs similar to those of a mouse, but conception, in the Great Producer, that what ap-stouter; forward organs of locomotion were two pears to us superfluous in plants is not so in large flat feet, in shape like a man's open hand; fact. The effort of everything is to produce its these were joined to the body without any arm own kind with the least waste. There must be or leg, quite widely separated. Head and shout a sufficient amount of leaves and stalks to re-like a hog, and around the circumference of the ceive atmospheric influences before the great snout were numerous cartilaginous joints, onework of producing seed is done; when this is eighth inch in length, pointing forward; could finished, and the plant comes to maturity, all the discover no ears; eyes very small, small as a pin seed-making elements leave the stalk and con- head, black and deeply sunken, teeth very small, one convex, one in front upon both upper and I have said to some of my neighbors that grass lower jaws. Body covered with fine, thick, glos-ALBERT WHEELER.

Somerville, Mass., 1859.

REMARKS.—The animal described above was,

REMEDY FOR GARGET IN COWS.

In your August number, E. P. Chase, of the ear." The main spindle runs up and drops Deerfield, N. H., over date of June 18, says:its pollen, so that the slightest pull of air will "I have found horseradish, cut and fed in poshake it out to the beards below. If the earth tatoes the same as garget root, a good remedy can produce more, the corn suckers and will have for gargety cows." I have found potatoes withone ready just in time with its golden dust to out the horseradish root a good remedy for the fructify two inches more of the ear; if there is garget in cows, when fed liberally to them. The greater fertility, another will be in time, and disease known as the garget is but an inflammabeards will continue to push out for additional tory action, more or less general in the system, length, and so on until the ear is full of eorn. If and in cows the udder is usually more deeply inwe see suckers starting freely from the young volved in the difficulty than any other part of corn, we may expect long ears-if without suck- the system, because it is more sensitive, and more easily inflamed What is usually called A widow employed a faithful Irishman to do garget, when the udder is swollen, is but seated the work on her place. He planted corn too close inflammation in the suffering part, and any food in a very rich and confined place—it ran up tall, calculated to produce a free discharge from the Michael, to let in the sun, cut the stalks as they intestines and reduce inflammation, is servicea-were on the point of dropping their pollen. I ble to the animal. In severe cases of inflammapassed it daily, and was much interested in watch- tion in cattle, whether general or local, I have ing the result. The beards came out and pited used, with good success, the hydrate of potaround the top of the ear like a bunch of curled ash, one ounce dissolved in three pints of water, hair, and there remained for about fifteen days in and given from one-third to one-half of a glass

the animal required. J. G. W. Aug. 6, 1859.

HOW TO MAKE PICKLES.

When cutting from the vines, leave half an inch of stem attached to the cucumber; pack them in a stone jar, being careful not to break the little prickles which cover them; add sufficient vinegar to thoroughly immerse the whole, and repeat the process from day to day till you have obtained the quantity you desire; then add a small bag of mustard-seed and cloves, covering the whole with horseradish roots, scraped and split into small pieces. Should any traces of a scum appear, add more horseradish immediately, as a good supply of that is a sure preservative, and "A Lover of Good Pickles" will find them as nice at the end of two years as one.

Please inform me where I can obtain the fullvarieties of strawberries. A Friend.

Concord, N. H., Aug., 1859.

by R. G. Pardee.

CURE FOR A BREACH.

Take a piece of half inch board, about the size of a man's hand, round off the corners, and line the side next to the colt with lamb's skin with the wool on, to prevent chafing the breach; at-cluding one with a self-raking attachment,-that tach this to a soft surcingle, and buckle it closely is, to rake the grain from the platform of the maaround the colt, with the board directly over the breach—then attach two soft cords to the back part of the board, passing them through between the hind legs, and fasten one of the cords to a lers, several threshing machines, root and hay girt on one side of the hip, and the other on the cutters, quite a collection of plows, a few harother side, which will keep it to the place. Wet rows, &c., &c. the wool twice a day with strong liquor of white oak bark. This will effect a cure in three or four weeks. A. Briggs.

Deerfield, Mass.

APPLES AND PLUMS.

Will fruit and plums improve in size and quality by removing the tree, bush or vine upon which it grows natural or wild, to a warmer cli-A Subscriber.

Haverhill, N. H., July, 1859.

Remarks.—They would be quite likely to, if all other things were favorable.

For the New England Farmer.

COLLECTING CREAM AND CHURNING.

I agree with those of your correspondents who say that white specks are caused by dried cream, formed on the top of the milk by exposure to a current of air in dry warm weather-I say dry weather, for this crust is never formed in damp weather-neither am I ever troubled with specks | The other reaper required a man to ride on it in damp weather; I do not say that sour milk is never found in butter, but it is seldom the case where cream is properly cared for, and sour milk is not adhesive, and easily removed from the butter by washing. Any one can decide as to ful raking, either by horse or hand, unnecessary. the nature of the specks by experiment; the No clean and careful cultivator would think of

two or three times in a day, as the condition of specks formed by sour milk will not rise on water, but those caused by dried cream, will be found on the water after washing the butter. I have proved them to be cream by simmering them to oil, and by other experiments. I think where milk is kept from direct exposure to the air, you will not be troubled with them if the dairy is properly attended to. I will just say that uneven salting is always the occasion of striped butter. I always churn often, whether I have more or less cream.

> A Reader of the Farmer. Waterbury, Vt., July, 1859.

EDITORIAL CORRESPONDENCE.

VISIT TO MONTREAL.

Montreal, L. C., Aug. 18, 1859.

MESSRS. NOURSE, EATON & TOLMAN.

Gents:-I came here to attend a trial of agriest information with regard to the cultivation and cultural machinery and implements, projected by the progressive spirit of the Lower Canada Board of Agriculture. The trial has been continued REMARKS .- You may find a little work on the during three days, on the farm of JAMES LOGAN, cultivation of the strawberry, at the bookstores, Esq., three miles from the city. The machines and implements presented were not numerous, and full one-half the whole were from the States. There were some six or eight mowing machines, nearly all of them different modifications of the Ketchum and Manny, four or five reapers, inchine into bundles-some hay-rakes, one tedding, or hay turning machine, three stump pul-

> The moving machines were set in motion on Tuesday, and operated well. The Ketchum, with Nourse, Mason & Co.'s modifications, cut its acre in 38 minutes; Wood's Manny in 49 minutes, and Moodie's Manny in 52 minutes. The field was level, but laid into beds of only ten fort in width over its whole extent. The grass was second crop clover, and about a ton to the acre. Moodie's machine lost a pin and was detained a few minutes, and Nourse, Mason & Co.'s caught a stone which bent one of the teeth, detaining Wood's Manny, with two them six minutes. wheels, worked steadily, and did it with apparent ease for a pair of horses of less than twenty hundred. The reapers also did good work, if cutting a large proportion of the grain and gathering it into bunches may be considered good work. The self-raking reaper cut an arpon, or French acre, which is a little less than our acre, in 29 minutes. and remove the grain at intervals with a fork, and occupied more time. Neither of the reapers collected the grain sufficiently to make care

be tied up!

was going on through two days. The plow-field weel as we." presented to me an original scene. The judges were composed of portions of the English, tues in the American plow that did not commend French and Scotch population,-while to these themselves to the Scot. They clustered around were added among the competitors and specta- the neatly-made and symmetrical plows from the tors, the Irish and Italian. Of course, there was house of Nourse, Mason & Co., and scanned a Babel of languages-but nearly all were mas-their work with evident interest and satisfaction. ters of two tongues, the French and English, Mr. Holdrook, of Vermont, was present, and and I observed that when two persons met, both upon a call from the chairman of this department speaking English well, and became earnest, they of the trial, put several forms of his mould-board grew eloquent in French,-while those not car- "through their paces," and briefly explained, to ing a snap for the decalogue, when they wanted the members of the Board and spectators, the to give a peculiar unction to their expressions, principles upon which they were constructed, and "swore worse than our army did in Flanders," in why the varying soils require differently formed pure English. How is this? Has the French mould-boards. The gentlemen composing the language more power in the expression of feeling, Board, and the intelligent farm-managers who and the English in denunciation, that the com- were present, gentlemen who own and direct the mon people resort to one and the other at will. affairs of large estates, but do not labor with or did my imperfect knowledge of the French their hands, seemed to appreciate the force of his fail to catch monsieur's vocabulary of oaths? But remarks, and I subsequently learned that the the queerest of all, was, when the impassable and judges awarded to the Universal Plow their highpertinacious Scotchman came in contact with the est prize, though not as a plow coming in compelively and voluble Frenchman, both resorting to tition with others. common English ground, and discussing the merits of their favorite implements. I shall give satisfactory to our Canadian brethren as that of no example-it would require the full power of the plows; they did not hesitate to express in the ablest philologist in the land to do it justice.

Nearly all the land in this region is a clay loam, and therefore does not call for so extended advance the cause they are striving to promote. a variety of plows as New England soils. Still, one form of plow will not do good work in all working well, and one of which threshed and places here. Most of their plowing is done in cleaned up the grain from 100 sheaves of wheat the lap furrow form. For their grain crops they in 81 minutes. plow in August and September, and leave it until spring-then sow upon the furrow and har-them, introduced by Mr. George Kenny, of row afterwards. I suppose they must harrow across the furrows, because the grain seems to self an implement of astonishing power. grow inclines, as though the seed had fallen into the channels on the edges of the furrows. Most of the plows of the country presented were the Scotch—all iron and about ten feet long! The beam is short, curved and graceful; the point very long and slender, the handles some five feet in length, ending in short wooden pieces-sometimes of mahogany-for the hands. I saw several of them at work. They require a stout pair of horses, who move very slowly, plowing only the Company above mentioned will transport the one acre each day and that rarely more than six machine over their road free of cost.

eaving so much upon the ground as I saw re-linches deep. A Scotchman at my side inquired, naining after the grain was tied into bundles. If |-"How much is your average day's work?" I hese trials were fair examples of their usual replied,—"With such a team, on similar land, work, the necessity for raking after reaping will and with one of our plows adapted to the soil, we prove a considerable drawback upon the useful-should plow two acres at least, nine or ten inches ness of the machines. It was wonderful to see deep, being ten hours in the hooks; and that in the self-raker cut down a very heavy barley crop a cool day and everything favorable, two acres at the rate of an acre in 29 minutes, and claw it and a half were not an uncommon day's work." from the machine and lay it in bunches ready to The Scotchman did not say that he was incredulous, but his nationality would not allow him to The trial of plows attracted much interest, and yield. "Ah," said he, "but ye canna do it so

The English and Frenchmen saw graces and vir-

Perhaps no part of this field trial proved so warm terms their obligations to the States men for coming so far, and contributing so much to

Several threshing machines were on trial, all

Three stump pullers were tested, and one of Milford, N. H., bore off the palm, and proved it-

> Yours truly, Simon Brown.

DITCHING MACHINE.—The Executive Committee of the Illinois Central Railroad Company, offer \$500 for the best ditching machine for open ditching. The party claiming the offer must exhibit the practical working of the machine at the same places and times with the steam plow, and For the New England Farmer.

THE AMERICAN ROBIN.

FRIEND Brown: -- Perceiving your great fondness for birds, and love for the beautiful in na-furnished the diet of the robin. ture as well as in things of art, and being aware, also, of your willingness to allow free discussion | South, and even earlier, most of them. Some of upon all subjects that relate to agriculture and them, however, remain through the winter, subhorticulture in the Farmer, I venture to offer a plea in behalf of the robin.

In the issue of June 4th, a correspondent remarks, "I do not see as any of the advocates for tion of the robin's habits, may it not be hoped In the issue of June 4th, a correspondent reexcept the angle-worms, where they can be found."

This is a strong assertion, but as he says of the "advocates for the preservation of the rob-correspondent, not only with the fruit business, ins," proof is wanting to confirm the assertion but the traffic in angle worms, whose "standard that "the robin never takes any (insects) except price" in certain localities is "one dollar a gill." will furnish facts of a recent date given by Prof. law, for protecting birds, including the robin, "Massachusetts Horticultural Society"

The plan adopted for the investigation of this the incalculable good which it does. subject required that robins should be obtained racious eater, as confirmed by an experiment in general, and with regard to the robin in parmade in Cambridge, last season, which was pubticular. lished in the papers. Nine-tenths of the food during the time indicated, consisted of the larvæ identified as Bibio allipennis of Say, as confirmed by Dr. Fitch, of New York, and a Russian entomologist in Washington. From one hundred to two hundred of these larvæ were frequently taken from a single robin, and were usually the only food found in the crops.

Thus did Prof. Jenks demonstrate that the robin consumed daily during March and April, from one hundred to two hundred Bibio larva, thus rendering an incalculable service to the til-

ly fond of these worms.

of May, from which time to June 21st a variety of insects and worms were found, including spiders, caterpillars and beetles of the family Elatevidæ, the propagators of the wire worm, so destructive to corn. The earth-worm, or angleworm, as it is also called, was found to be a favorite kind of food for the young, but sparingly eaten by the parent birds.

From June 21st, strawberries, cherries and jority of examinations, were intermingled with insects. Those shot remote from the garden and fruit trees were found to contain more insects and less fruits, leading the Professor to conclude that "the robin is not an extensive forager,"

tinue until October; the vegetable portion, during August and September, consisting chiefly of elderberries and pokeberries. During October, grasshoppers and orthopterous insects generally

Early in November, the robin migrates to the sisting on bay-berries, privet-berries, juniper-

berries, mountain-ash-berries, &c.

the preservation of robins advance one idea in that its accusers will no longer persist in asserttheir favor, except their singing; no injurious ing that the robin eschews all insects and worms, insect do they prove that they destroy. I will except angle-worms, which your correspondent admit that for fructiferous birds nature requires says he "gulps down as if he loathed it, like a some animal food, but the robin never takes any child taking Epsom salts," and "only to gratify his vicious destructiveness." The cowardly robin, it is also said, "locates near dwellings," interfering, it would seem, from the remarks of your angle-worms." As an advocate for the robin, I These would be strong reasons for repealing the Jenks, employed under the patronage of the were it not that there are many more, and much stronger reasons for its preservation, in view of

He who seeks for good, unmixed with evil, in at day break, mid-day and sunset, both from the the things appertaining to this life, I fear will village and the country, that their crops should look in vain. Before pronouncing sentence of be examined and the contents thereof preserved utter condemnation upon a neighbor, or a robin, in alcohol. Beginning with the first week in because a sinner, on the one hand, and a fruit-March, this investigation was continued almost eater or poacher on the other, let the question be daily until December. Not a particle of vegeta- mentally put, "Who am I, that thus condemneth ble matter was found down to the first of May, because of evil?" Let him that is without sin but insects in great abundance, both as to quan- cast the first stone. Weigh the good and the tity and variety of species, for the robin is a vo- evil, and see if the former does not preponderate

LETTER FROM MR. BROWN.

MONTREAL lies on the west bank of the St. Lawrence, which is nearly two miles wide opposite the city. It is narrow, but stretches along the bank of the river for a long distance, and contains a population of some 80,000 souls. This population is greatly mixed, and each class is ever striving to make prominent and perpetuate ters of the soil. The robin seems to be peculiar-lits own national characteristics in customs, manners and language. The struggle, however, is The Bibio larvæ were not seen after the first between the English and the French—there lies the tug of war. Their differences often find expression, and will eventually lead to a distinct local government, in the two provinces of Lower and Upper Canada, probably, before they are known as the State of Upper Canada, and the State of Lower Canada. The feeling strongly prevails with many intelligent persons, that the pulpy fruits in general were found, but in a ma- Canadas will yet become a part of the cluster of United States.

The buildings in the city are mostly constructed of stone, and the dingy walls, full of crevices where the plaster has been washed or knocked The mixed diet of the robin was found to con-out, together with the open cellars and bland-

fire, give the city an unthrifty and dilapidated neries, the Convent of the Sisters of the Sacred appearance. The streets and sidewalks are nar-Heart, the Academy of the Sisters of the Congrerow, and there are few shade trees to temper the gation of Notre Dame, the Theatre Royal, solar rays or the parching radiation from the Champ de Mars, &c. In one of the public squares heated stones. The commerce of the city is in-stands a dilapidated monument to Nelson, Engconsiderable, though the quay or single wharf land's great naval hero, who received a fatal extending all along the easterly side of the city, shot at the battle of Trafalgar. The Lachine capresents at certain seasons quite a lively appear- nal is a fine work, but the Great Victoria Tubuance of business. The prevailing religion is lar Bridge, across the St. Lawrence River, one Catholic, so that there are numerous numeries mile and three quarters in length, is the crowning convents and churches belonging to that sect. work of art and science combined, perhaps of The Great Cathedral, with its bell weighing more this or any other country. I had the pleasure of than twelve tons, and its turrets 250 feet high, is walking through nearly a mile's length of the always open, where its votaries assemble, bow tube that is now finished. The tubes are 22 feet and cross themselves, and utter their Ave Marias high and 16 feet wide, giving room for two with all seeming fervor and unction. A thou-tracks. Every part of the bridge is iron, resting sand things constantly indicate that I am not upon piers constructed of a marble stone brought among my people—the language, dress, coins, 20 miles from the interior. One of the spans implements of industry, the presence of sol-between the piers is 330 feet in length, and the diery, the carriages, and especially the carts and top of the tube is 82 feet from the water! There vehicles used for conveying loads. Last evening is nothing whatever to support this but where it I was wondering how they could place a hogs-rests upon the pier at each end, and then its own head of molasses on one of their drays, but, while sustaining power. The engineers and builders leaning over the iron railing on the quay this of this stupendous work are Messrs. A. M. Ross morning, the mystery was solved. This dray is and Robert Stephenson, of England. It is estimade of two pieces of timber, each perhaps fifteen mated to cost \$7,000,000. feet long, six inches wide and three thick; these are set edgewise about eighteen inches apart, on pious and exemplary people, for they are sura pair of common horse eart wheels; the shafts rounded by the names of saints, at least. Almost are long and slender, and attached to the end of everything bears the name of some patron saint those pieces next to the horse by a round iron -the river, churches, convents, nunneries, charbar which forms a hinge. In preparing to load itable institutions, streets, lanes and markets. a hogshead of molasses the hind end of the long St. Michael, St. Paul, St. Patrick and St. Ann, pieces is depressed so as to touch the ground, with others, more than I ever supposed were One end of a rope is then made fast forward and contained in the calendar, are emblazoned pretty brought back under the cask. Another dray is much everywhere except on the lamp-posts and then backed up, the rope attached to it and the paving stones! I have just been through the horse started. In this way the hogshead is rolled principal markets, and find them well supplied to the centre, or over the axle-tree, is then canted with meats and vegetables. round endwise, and is ready to be driven off. In unloading, the dray is tipped up as in loading acknowledge my obligations to the Presid at and and the cask slid off. This operation required the members of the Board of Agriculture for kind aid of six men and two horses to load each cask. attentions to our little party "from the States," Only one cask was placed upon each dray.

have not mentioned-that is, Indians. How nu- their names and address permanent record in merous they are I have not learned. The women your columns as follows: and girls frequent the hotels to sell their bead work; one of them touches my shoulder now to call my attention from writing to her basket of wares. They are generally tolerably well clad, and are modest, but not graceful in form or motion. It will not be long before these sons and daughters of the forest will be lost amid the other races that are rapidly whelming over them.

attention of the traveller is called in this city are the French cathedral, the Bonsecours and St. Toronto, and in becoming acquainted with JAMES

walls where buildings have been destroyed by Ann's Market, the Grey and Hotel Dieu Nun-

The citizens of Montreal ought to be a very

In closing my letter, it affords me pleasure to including JOEL NOURSE, Esq., of Boston, and There is another class of the population that I the Hon. F. Holbrook, of Vermont, and to give

Terrebonne.
Quebec.
Chan bly.
St. Hi aire.
Quebec.
Berthi∘r, E. H.
Compton.
.Drummondville.

J. PERBAULT, Secretary Board Agriculture. T. Chagnon, Assistant Secretary.

I also found pleasure in meeting an old ac-Some of the places of interest to which the quaintance, the Hon. WM. McDougal, M. P. P., and former editor of the Farmers' Journal, at

Anderson, Esq., editor of the Journal of Agriculture, Montreal, and with WILLIAM EVANS, CAMPBELL'S AGRICULTURE. A Manual of Scientific and Practical Agriculture, for the Farm and the School, by J. L. Campbell, A. M., of Washington College, Lexington, Va. With numbers on is greatly interested in the subject of microus Illustrations. In one volume. Price \$1.00. Phila-Anderson is greatly interested in the subject of drainage, drew the act that is now in force in Scotland, and got it through Parliament, and was for a long time the Inspector General of Drainage in that country.

> Truly yours, SIMON BROWN.

> > For the New England Farmer.

THE CUTTER STRAWBERRY.

This is a day of new things, and it is common to hear of a new strawberry better than all of its

predecessors.

This is a variety of strawberry not generally disseminated, and but little has been published about it. It was first taken from the wild pasture, and is a native seedling. I named it Cutter, in honor of the gentleman who first cultivated it, some six or eight years ago. It is of excellent quality, possessing the wild strawberry flavor largely. Berries of very even size, many of them four inches in circumference; color, light hull; fruit stems very long.

I gathered fruit from the plants in June and July last for thirty-five days in succession, or eight to fifteen days longer than the other variesame cultivation; the Hovey Seedling, Boston teachers in the instruction of their classes. Pine, Jenny Lind and Early Virginia. The two last-named varieties were of small size. The two general student of agriculture, and well adapted former produced some very large berries, but as a whole, were of very uneven size. None of

as the Cutter.

I had partly covered with strawberries about one-fifth of an acre, on which was an orchard of apple trees, some of them four inches in diameter; 150 grape vines, part of them in bearing; 130 currant bushes in bearing; 50 hills of rhubarb of the improved sorts, walks, &c. About their relative bearing qualities.

fruit may be obtained the following year.

I have Wilson's Albany, Longworth's Prolific, see that the milkmen do not respect the laws. McAvoy's Superior, Scott's Seedling, Peabody, and Brighton Pine. All of them are growing well, but have not fruited much, having been

planted in the spring.

The Cutter strawberry was shown at the Massachusetts Horticultural Exhibition, four weeks in succession-two weeks longer than any other variety. The committee thought it very prom-J. W. MANNING. ising.

Reading, Mass., 1859.

NEW PUBLICATIONS.

delphia: Lindsay & Blakiston; Boston: A. Williams & Co.

The introduction of agriculture, taught both as a science and an art, in our public schools, has long been advocated by the editors of the N. E.Farmer. This treatise is intended to supply the want of schools, in all parts of our country, of some introductory work, which shall give simple explanations of chemical terms and principles, applicable to agriculture, and also practical directions for their application to the actual culture of particular crops. Besides the chemical definitions, which seem to be based mainly on Stockhardt's Principles, and so are of the best authority, we have useful directions for the cultivation of crops in general, and of Indian corn, wheat and oats, potatoes, tobacco and cotton, in particular.

The book is not "sectional," but supplies a want felt at the South, of a work which shall inred; form, obtuse cone, with a neck; easy to clude their peculiar crops, as well as the great staples of the North and West.

The chapter on Animal Physiology seems well digested and arranged. Each chapter contains, ties cultivated on the same soil, and precisely the at its close, questions designed for the use of

to general use in schools. We are glad to see them produced so much fruit by at least one-half from the southern section of the Union, evidence of increasing interest in agricultural science.

For the New England Farmer.

ILLEGAL TRADE IN MILK.

Mr. Editor:—Having repeatedly seen the one-third of the ground was planted with the fact mentioned in your paper and elsewhere, that Cutter, the other two-thirds was occupied by the a law was passed by the Legislature to the effect afore-mentioned kinds. The plantation pro-that milk must be bought as well as sold, by wine duced 500 boxes or quarts. Had the whole measure, I supposed that there would be a change ground been occupied with the Cutter 600 quarts in the size of the caus, or at least in the price of would have been a fair estimate, considering the milk; but no! eight quart cans-beer measure, of milk, are still bought of the farmers and My soil is sandy loam and gravel. I prefer sold for over nine quarts! Is this right? Should leached ashes as a fertilizer, well mixed in a deep hundreds of poor farmers be cheated out of their mellow soil. It will pay to make the soil two hard-earned money, simply to gratify the avarice feet deep. August and September is a proper of the few milkmen? Certainly not! Will not time to set out the plants, and if so set, much some of our enterprising farmers, who love their rights, attend to this matter, for we can plainly

TRUTH. South Groton, Aug. 13, 1859.

WINDSOR COUNTY, VT .- The Windsor County, Vermont, Agricultural Society will hold its fourteenth annual Fair at Woodstock, September 28, 29 and 30. John L. Lovering, Hartford, President; LORENZO HUNT, Woodstock, Secretary.



DESIGN FOR A COUNTRY HOUSE.

We herewith present a design for a bracketed country house of two and a half stories. This is house, so situated as to be convenient to the door the fourth of the beautiful series designed ex- opening upon the recessed veranda, No. 6; No. pressly for our columns, by George E. Harney, 7, kitchen 16 feet square; No. 8, store-room 7 feet ver, in transferring the design to wood has omit-private yard, No. 10. This yard is to be enclosed ted a couple of large sky-lights in the roof which by a lattice fence 7 feet high. serve partially to light the attic chambers, and add much to the appearance of the building. It a large closet and communicating, by means of a consists of a main body and an ell; the main passage way, No. 14, with the family bed-room, house is square in plan, and measures 36 feet on No. 12. No. 13 is a privy opening into the eneach side; the ell, containing kitchen and its offi- closed yard. ces, is 18 feet by 26, and one story and a half in height.

The disposition of the several apartments of the house is as follows:

The front entrance porch, No. 1, opens into a room in the ell. vestibule, No. 2, 5 feet by 9; from this vestibule we enter the parlor, No. 3, which is 18 feet square, three large bed-rooms and numerous closets. and contains a good sized closet.

leading to the cellar, and opens into the following rooms:

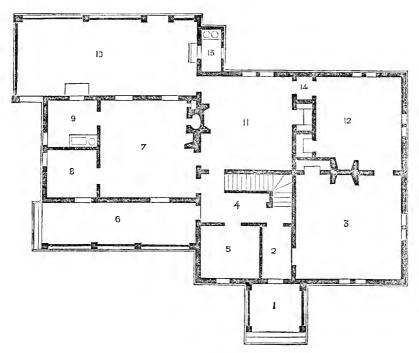
No. 5, office or library for the master of the Esq., of Lynn, and will be found to combine ele- 6 inches by 8 feet; No. 9, pantry 8 feet square, gance and comfort, with cheapness. Our engra- containing pump and sink, and leading into the

No. 11, living room, 15 feet by 16, containing

The second story contains three large chambers and a child's bed-room, besides the hall and several closets in the main body, and a servant's bed-room, a large clothes press, and a bathing-

The third story, or attic, furnishes room for

Construction.—This house is to be constructed At the farther end of the vestibule, a door, the in the same manner as those we have befor ofupper panels of which may be glazed, opens into fered, namely, vertical boarding and battens for the staircase hall, No. 4; this hall contains stairs the outside covering, and plain finish with walls to the chambers above, under which is a flight prepared for papering for the interior. All the lower windows of the main part are to be shielded by hoods 2 inches wide. The roof projects



PLAN OF THE FIRST FLOOR.

three feet all around and is supported on plain it loves the heat of our glowing summer days. 3½ inch brackets.

9 feet. The cost of the above house would be thirty to forty bushels per acre,—and the hot, from \$3300 to \$3500.

CULTURE OF BARLEY.

This grain is raised to a greater or less extent all over New England, and we think ought to take the place of hundreds of acres that are devoted to oats, as it is better adapted to seeding down land with, than oats, requires less seed, ripens as well, and is admirably fitted to our short, is often sown as food for sheep, and is said to be hot summers,-the average product will be near- | far more productive than rye, as it admits of bely as much as oats, and when harvested, is worth ing fed down every few days during the summer. a third more for horses, hogs, poultry or cattle. If sowed early, and intended for seed, it may No grain makes a sweeter and more nutritious be fed off in the first part of the season, without bread, to be eaten while it is warm. The celebrat-linjury to the crop. ed Warren Hastings once said "that it is of the greatest importance to promote the culture of this sort of grain-it is the corn that, next to reptiles, cast their skins; but who has ever found rice, gives the greatest weight of flour per acre." the old coat of a toad? He does not leave them The cow-keepers about London cultivate it as conscious that second-hand clothing is not in despring food for their milch cows. The Romans mand among the animal democracy, he rolls up used to cultivate it extensively; made the meal his old coat in a pile, and when this is accominto balls, and fed their horses and asses with it, plished, packs it away by swallowing it. This is

or gravelly loams, rather than on alluvial soils. factor in destroying insects, and should entitle Although a northern plant, like the Indian corn, him to respect and long life.

We have seen fine crops of it on our granite Height of first story 10 feet; height of second hills. growing erect, without weeds, and yielding morning cakes made from good samples of it somewhat excite our gastronomic desires even Great care should be used in the choice of seed. It should be of a pale, lively color, and the grains should be plump and fair. Such seed will throw up strong, healthy stems, capable of resisting untoward changes of the seasons, and result in producing a good crop. In England it

Toads, in common with many other which was said to make them strong and lusty. in nowise a suggestion to others to follow his ex-Barley should be sowed early on warm. sandy Barley should be sowed early, on warm, sandy be an excellent economist, as well as our bene-

RECOLLECTIONS OF TRAVEL.

England States, Canada is looked upon as an in-observation. A hundred horses had preceded hospitable, out-of-the-way place, and as a cold, us, the day we went upon the mountain, and not rugged, unfertile region. But a journey from the a hoof could be procured, so we commenced our lakes to Quebec, by the St. Lawrence, with an oe- march at the Glen House, on the easterly side of casional diversion from this noble thoroughfare the mountain, at 3, P. M., on foot, and stood upinto the country on each side of the river, would on the roof of the Tip Top House, on the sumat once dispel any such idea. We never saw a mit of Mount Washington, in season to see the the crops appeared better, than upon a large ex- night's sleep prepared us to be up and witness tent of land northwest of Montreal, and for al- the sun's rising the next morning. After breakmost an equal extent on this side of the river. fast, the entire company present listened to the The country is flat, without stones, and the soil reading of that most sublime of all language is a stiff, clay loam, and when properly cultivated, the 104th Psalm, and then we took our way down is exceedingly productive. Approaching the the mountain, through Tuckerman's Ravine. Gulf of the St. Lawrence, Lower Canada is in- This is an amphitheatre whose walls are a thoutersected by ridges of mountains, which gener- sand feet high, and from whose sides issue hunally extend from the coast into the interior, with dreds of springs, forming cascades of singular intervening valleys of a fertile and pleasant ap- beauty as they fall from point to point. In the peas, oats, rye, barley, &c.

The soil of Upper Canada consists, generally, are the sources of the Peabody River. of a fine, dark loam, mixed with a rich vegetable Great numbers of people have visited the mould, and its productions are much the same as mountains this season, and that number, we those of Lower Canada. It contains nearly ten have no doubt, will be much increased hereafter, million acres of land. mainly of English descent, and speak the Eng- of the works of an Almighty hand. There lish language, while in Lower Canada, the French should be a carriage-road constructed to the top population prevails, that language is preferred, of Mt. Washington, or, at least, a good bridle and they are generally Catholics.

in Lower Canada, is flat, and extends far interior, a toll. We saw and heard many things which almost at a dead level, and resembles in fertility it would be pleasant for us to relate, and which the rich banks of the Mohawk or Connecticut might be pleasart and profitable to read, but rivers. These tracts are well timbered, and the want of space will exclude any further account clearings are dotted with fine elms, oaks, and of them. other trees, giving them the appearance of beautiful parks, or widely-extended pleasure-grounds. Some of the farms contain several thousand which we passed a portion of two days, was at the time of planting, more than doubles the highly-cultivated and productive. He had a herd crop over rows having no manure. As the potatory fine Ayrshire cows, and had just import-tors are dug, the piths are thrown into heaps, 1,500 pounds each, and a four-year-old stallion place for next year's use. They will last for this weighing about 1,700 lbs. These horses are surface load. He also, occasionally, obtains just what are wanted for draught in cities, for from the same yard the lime, after having been relieved numbers, and all other places of the same yard the lime, after having been power is required rather than quick motion. Some of the fleshings and poor quality of hair. There can be no doubt but that a demand would be found for every horse of this description at nure, and at a cheaper rate than he could provery high prices. This matter is worthy the at- cure stable manure. tention of those engaged in rearing horses for the market.

way for a day or two at the White Mountains. By a large portion of the people of the New The weather was clear, hot, and favorable for more fertile-looking country, nor one upon which sun sink into the Western horizon. A good The productions are grass, wheat, hottom of this ravine we found snow fifteen feet deep, and the cascades and the melting snows

The inhabitants are as they present one of the most sublime features nd they are generally Catholics.

path, so that aged or feeble persons may go to The country on the banks of the St. Lawrence, the summit. The cost would soon be repaid by

MANURE.

We know a farmer who has used several cart-That of Mr. James Logan, upon loads of horn-piths the past two seasons for maed three Clydesdale horses, two mares, weighing and afterwards carted off and deposited in a safe railroad purposes, and all other places where used for starting the hair and skins, as well as

The waste wool from woolen factories and e market.

After three or four days of hard labor in the carding machines can sometimes be had at a trifling expense. Wool and cotton rags contain broiling sun in attending upon the trial of macrent. of nitrogen, and above five per cent. of sulphur. One hundred pounds of wool chines, in company with Mr. Nourse, one of contains about seventeen pounds of nitrogenthe Proprietors of the Farmer, we halted on our as much as there is in the very best guano, and

fresh cow dung. Wool and woolen rags decom-canker-worm grubs in spring, allow me to say pose very slowly in wet, stiff soils; therefore, if that I never have yet seen a fruit-grower who used in their natural state, they should be spread places any reliance upon such protection. Very upon sandy, or light, warm, loamy land, and few grubs, beetles, bugs or insects, need other plowed in. On such land they are lasting and life-insurance than plenty of fruit and fish-worms valuable manures. Great quantities of waste within fifty rods. wool and woolen rags are used to manure the Being omniverous, robins can feed upon alhop grounds in England, and the hop-growers most any thing, but where their choice is to be there readily pay \$25 to \$50 per ton for them as had, fruit is chosen. They feed their young for a manure for their grounds. From the slow de- a few days with worms, or grubs and insects, if cay of wool and rags, they probably can here be more readily obtained. But soon as the first most economically employed when previously strawberries ripen, they begin to feed upon fruit rotted by being made into a compost, and then so costly that few human beings can afford to eat applied to the wheat crop.—Dansville Herald.

For the New England Farmer.

FRUIT VERSUS ROBINS.

moment, or, certainly, of more importance than flock, might consistently advise fruit-growers to those not directly concerned seem to be aware. keep robins to protect fruit. But I insist that The Bird Law, sent through the Commonwealth not he or any Legislature has the right to comon hand-bills last spring, was received, in this pel a man to accept such advice. If any owner neighborhood at least, as a very pretty specimen of a flock should be compelled by law to keep of Imperial Legislation. Most people here think such dogs as devouted a sheep or lamb every that a man should have an undisputed right to day, instead of better dogs, or, none at all, he his own fruit. They fully believe that a free eitizen, of a moderately free country, should be Robin Law. allowed to protect his own fruit in his own garden, against the depredations of any wild beast, us more fruit," say old men and young, women or bird, that runs or flies. But, although they claim the right, they do not unduly exercise it. Farmers are not devoid of all humanities.

The cultivators of the soil are the tried and special friends of birds, and only when necessity them the privilege of protecting the fruits they compels, do the farmers of this State destroy or have already taken unwearied pains to grow. A disturb them. They are not the class of men happy measure of encouragement, truly! who kill robins for the paltry purpose of making murmur of dissent among farmers is heard, and a meal of them. They are no enemies to a law then comes the cry, "Cultivate fruit enough to against wanton destruction, but the fault of that feed birds and all." That reads finely in the law is, that it ignores all cases of necessity. It play, but the acting it gives another and very punishes us for destroying certain birds in places different view. where they have already become a positive evil;

and yet provides no other remedy.

Giving robins the absolute freedom of the fruit garden, not only insures a waste of fruit, tive Hall, but in a place most suitable to test its but deprives us of the services they would other merits thoroughly. Ten years ago I set a few wise render. If kept away from our fruit, they strawberry vines on a farm where many kinds of must seek their food in field, pasture, apple-birds were plenty, but no species exceedingly so. orchard, and cultivated portions of the farm. Robins were plenty enough to prevent my setting But, if left undisturbed, wherever fruit is grown they will congregate. They will build their nests in the immediate neighborhood, rear their young, fruit. Two seasons the robins ate some straw-and all feed and fatten on fruit that human be-berries, but not many. I set more vines, and ings ought to have. With undisturbed possession, each brood will waste enough to supply a family of six persons with all the fresh fruits they need.

But some say that they pay for the mischief they do by proteeting fruit from insects, &c. very destructive. From what do they protect it? In this neighborhood it is from angle-worms! Yes, angle- Young robins don't fear any thing much. The

owner.

more than there is in three thousand pounds of worms. As to their making such havee among

it. From this time, through the entire season, they are, in many gardens, an unmitigated nuisance. They also do much harm by keeping away more useful, and really insect-eating birds. Very few of these will stay where the noisy and quarrelsome robins are very numerous. A shep-The robin question is becoming one of serious herd who sets a sheep-stealing cur to guard his might readily understand the workings of the

The physicians tell us to eat more fruit. "Give and children, rich and poor,—all the denizens of our cities. "Cultivate more fruit, farmers," say Editors, Gentlemen and Lawyers, and then straightway combine to make a law forbidding

I have tried that theory a few years, not in a gentleman's parlor, not in a lawyer's office, not in horticultural rooms, nor yet in the Legislacherry trees, for those who had full-grown ones, could get little save half-ripened, unwholesome berries, but not many. I set more vines, and more birds found them.

I set currants, gooseberries, raspberries and grapes, which lengthened the fruit season, and the robins began to leave the surrounding farms, and come and board with me. They became

I would not kill, but tried to frighten them. worms, and nothing else, save from the rightful old ones would frighten, and fly, and return and feed alternately, from daylight till dark, if I "Save from the curculio." Indeed! Under could spend time to do the frightening. The the very beaks of a hundred robins I cannot get result was, they wasted so much, that from two one plum per tree. "Protect from canker-bushels of green gooseberries I could not obtain worms." They don't even keep the leaves that cover their nests from being covered by eanker-rants on the bushes for home use—could sell

five bushels green, but could get none fully ripe. From three of them we scarcely obtained a pint Of raspberries, from eight to twenty boxes per day, they would take one-half. These protecting awaited the fourth patch, we covered it with robins would leave the farms, grubs, caterpillars, and all, to eat whatever berries chanced to be large pieces of gauze cloth,—upon which the ripening. No argument could compel them to robins were so indignant as to scold vociferousleave my garden, no persuasion induce them to ly, raising every feather upon their backs, like stay on farms where they were wanted, no in- "a hog's bristles in a hurricane." From some sectiverous theory was theirs, and no Horticultural Committee confined them to three berries per day. I can say from experience that there is fruit, and so of the raspberries and other fruits. no profit in this mode of fattening robins. I remember that the "Star" correspondent of the Farmer gives no heed to profit or loss, but with admirable coolness, and an easy flourish of his pen, devotes a "large part of our currants, straw-berries and cherries" to the robins. Well, that is only a large part of my means of living—one lit-not listen to their music with as much pleasure tle item of his-strawberries. Probably his fruits are not much exposed to their depredations. He admires to see the robin 'hopping and chirping about." But, permit me to ask, "Who pays the piper?" If friend "Star" should be compelled to pay, as I do, three dollars per day for the "chirping," we should see a "hopping about" infinitely more entertaining than a robin dance.

My communication is already too long, but I beg leave to acknowledge one good feature of the robin law-its philanthropy. It permits whole colonies of robins to rear up large and interesting families in each man's garden, to feed all summer on his finest fruits, and then go forth in autumn all ready fattened for the southern market. Give us thanks—'tis all we get — O, epicures of New York, Philadelphia and Baltimore, for the million birds we send you. It is cheaper to fatten turkeys, but it were a miserly thing to present you with any thing fattened on vulgar Indian corn. The robins are ready. O, what infinite pleasure to southern sportsmen! what ready profit to southern dealers! what exquisite relish to southern palates, what unbounded delight to southern cooks and connoisseurs! Worthy old Bay State! Philanthropie old Bay State! Mother of New York, New Jersey, Maryland, Virginia, Pennsylvania and the Carolinasstep-mother to the citizens of Massachusetts! Complacently folding her hands in the fullness of joy, in view of her great disinterestedness, she sits, like another Mrs. Partington, in the very shadow of her own benevolence.

N. PAGE, JR. Danversport, August 9, 1859.

REMARKS .- We do not wonder at the sensitiveness manifested by fruit-raisers with regard to the "bird-law." The question comes home to them now, whether they shall abandon the cultivation of the small fruits, and thus cut off their source of obtaining a livelihood, or whether they shall have the liberty of protecting themselves against birds, as they do against other creatures that commit depredations upon their property. Mr. Page has very nearly described our own experience in the matter. We have four distinct patches of land planted with the strawberry, and had cultivated them with care, RATTLESNAKE.—The snakes brought by Prof.

twenty cherry trees we did not get a quart of And this was not all, for the green peas, even, were not proof against their rapacity. We like the birds, and encourage their residing near our buildings; but unless the cherry-birds, robins as we have heretofore. Mr. Page is pretty severe, and has cause to be so.

FAREWELL TO THE SWALLOWS.

Swallows, sitting on the eaves, See ye not the falling leaves? See ye not the gathered sheaves? Farewell! Is it not time to go To that fair land ye know?

The breezes, as they swell, Of the coming winter tell, And from the trees shake down The brown And withered leaves, Farewell!

Swallows, it is time to fly; See ye not the altered sky? Know ye not that winter's nigh Farewell!

Go, fly in noisy bands, To those far distant lands Of gold, and pearl, and shell, And gem, (of which they tell In books of travel strange,) And range In happiness. Farewell!

Swallows, on your pinions glide O'er the restless, rolling tide Of the ocean deep and wide,

Farewell! In groves, far. far away, In summer's sunny ray, In warmer regions dwell; And then return to tell Strange tales of foreign lands, In bands, Pearched on the eaves. Farewell!

Swallows, I could almost pray That I, like you, might fly away: And to each coming evil say Farewell!

Yet, 'tis my fate to live Here, an I with troubles strive, And I some day may tell How they before me fell, Conquered; then calmly die, And erv-

"Trials and toils, farewell!"- Hood.

EXPERIMENTS ON CURING THE BITE OF THE hoping for a fair share of them as a reward. Christy from the South, says the Cincinnati Ga-

zette, have been used at the Ohio Medical College, in a series of experiments to ascertain an anti-

dote for the poison.

A few days since a dog was introduced to the snake's cage, and was immediately bitten. Prof. Foote administered to him brandy containing five drachms bromine, four grains of iodide of potassium, and two grains of corrosive sublimate. He recovered in a short time. To test the question whether his recovery was due to the brandy or to the ingredients it contained in solution, another dog was suffered to be bitten on the 8th ult., and the bromine, iodide of potassium and corrosive sublimate administered alone. An hour after he seemed to be recovering slowly. The next experiment will be to administer the brandy alone, which is claimed to be an effectual remedy.

For the New England Farmer.

TO MAKE GOOD PICKLES.

MR. EDITOR:—The following recipe, if carefully followed, judging from our experience, will furnish "a lover of good pickles" with an article every way desired. Made thus, we have had them when kept two years, still perfectly hard and

Take the cucumbers carefully from the vines, leaving the stems on, (a very important part, by the way, as so much depends thereupon that none that are bruised in picking or otherwise should be used,) wash them carefully in pure cold water, rubbing them, to remove the prickles from the stem, as well as the cucumber; then sprinkle a layer of fine salt in the bottom of the jar to be used, add a layer of cucumbers, again a layer of salt, then cucumbers, repeating the process until the jar be full; letting the last layer be of salt.

Then pour upon them a sufficient quantity of boiling water to cover the whole, after which let them stand twenty-four hours, when they should be taken from the brine, wiped dry, and placed in the jar or tub in which they are to remain.

Next scald the vinegar, seasoning thoroughly with salt and as much cayenne pepper as is admissible to the taste. After cooling, pour upon the pickles; stir every day to break the scum. should any rise. If at any time the vinegar should become dead, either add new, prepared in the same way, or if there be sufficient life to keep them bright, scald the old.

A fair trial of this, and it is my belief that "salting down" will be dispensed with.

Annie, of the Berkshire Hills.

August 12, 1859.

pickle and cover."

them.

EXTRACTS AND REPLIES.

THE CURCULIO.

Is there any way that I can prevent the mischief of the curculio, either by picking up the fallen fruit, or by pasturing my orchard with cattle or hogs?

Does the insect fly off from neighborhood to neighborhood, so that if I should prevent their multiplying upon my own farm, I should still have a supply from my neighbors? Has the insect any means of propagation except by depositing its egg in the fruit?

By answering the above inquiries you will confer a great favor upon many of your readers in this section of New Hampshire.

Hancock, N. H., Aug., 1859.

REMARKS.—The curculio may be kept from destroying fruit in a few favorite trees, by sprinkling the young fruit three or four times a week when it is wet, with slaked lime or dry ashes, or by jarring the insects down upon a sheet. They fly from place to place. We have never learned that they propagate any other way than by depositing their eggs in young fruit.

CROPS IN VERMONT.

The farmers in this section are looking rather blue. Perhaps you are not aware that we are having the most severe drought that has been experienced here for nine years at least. Early sowed English grain is good; hay about twothirds of an average crop; corn and potatoes minus, unless we have copious rains soon. In a communication from Hon. Simon Brown, dated Montreal, Aug. 16th, he says "the hay crop is abundant." I think in passing through our place at least, he must have been looking at those "laughter-loving girls," instead of looking out of car windows—or he would have seen that our pastures and meadows are actually dried up. Most of our cattle are nearly in a starving condition, and some farmers say they shall be obliged to sell their cattle, or drive them to the mountains to browse. Grasshoppers too numerous to E. MURPHY. mention.

Middlebury, Vt., Aug., 1859.

REMARKS.—If friend Murphy had been in the cars with us, we will venture to say that the "meadows would not have appeared dry" nor the "cattle starving." But as it was our duty to observe, we did observe, not only the girls, but the grasses, grains, gardens and fields. We saw REMARKS .- "Farmer," of Meredith Village, N. that Northern Vermont was suffering somewhat H., says, "to one part 'good new wine,' add three for rain, more so than any other place we visited, parts water; rub the cucumbers dry with a clean and yet some of the best farmers in that State cloth, and cover them with this liquid, adding assured us that the hay crop had been good. We green peppers and tomatoes; set in a cool, dry were careful to say of Vermont, however, as folplace, and stir them carefully once a week for five lows: "The recent refreshing rains of your State or six weeks. Put a linen cloth between the [Mass.] did not extend to Vermont, and the way was consequently dusty. Pastures, grass We have received several other recipes for lands and corn are suffering considerably," &c. making pickles, but they so much resemble those Take courage, friend M., we hope you have had already given that it is unnecessary to publish copious rains before this time, and that your cattle will "be up to their eyes in clover," before

perienced.

SWARMS OF BUGS.

cently discovered in large swarms passing up salt. and down my apple trees, and wish you would tell me their name, and the most effectual method of destroying them. I have never seen the insect till last summer I found them in a small fir tree near my house, and thought I killed them soap suds in the spring, and have quite recently aromatic burrs. repeated the washing. By replying to this you will much oblige

N. B. I notice a few amongst them that have wings which they seem to have just come in possession of.

Brookfield, Mass., Aug., 1859.

Remarks.—The bugs you sent were squash when they reached us. Examine them carefully, and then refer to "Harris on Insects," and see if you cannot get their name.

CURE FOR A RUPTURED COLT.

give him my experience. One year ago I had a poor farmers in this part of the world, having to colt about the age of yours, which had a breach practice economy, must in the first place know similar to that on your colt. As soon as I dis- which the labor-saving machines are. Some percovered it, I took a piece of sheet lead five or sons say that the way to find this out is by exsix inches square, rounded the corners, so as not perience. Now must we buy machines which we to chafe him, sewed it to a cloth bandage, and know nothing about, except by persons who bound it up tightly; I fastened it from working crack them up a great deal on purpose to sell back by attaching a strap to it, passing it around them, and if we find them of no value, throw his breast. I let it remain a week, and then took them aside and lose our money? Of course not, it off to examine it, when it appeared to be well; we must learn from those who have tried them, but to make it sure, I put it on again, and let it and if they can make them profitable, we can. remain another week, which effected a perfect One of my neighbors was mowing with a machine A. Daggett. cure.

Farmington, Me., Aug., 1859.

WEATHER AND CROPS IN HILLSBOROUGH

We are now in the midst of a pinching drouth. Corn and potatoes are suffering upon light plain land, especially if choked with weeds, as they abproaching maturity. Hay and grain are remarka- from dry weather than from early frosts. bly good, and are mostly secured. Apples are C. A. WHITAKER. very scarce.

Hancock, N. H., Aug., 1859.

ORANGE QUINCE.

In the cultivation of these trees, many think in good loam, and the earth to be loosened closely, but fairly. deeply by the subsoil plow, or trenched by double spading, and well manured with a good compost

frost comes. But we sympathize with you, nev-drenching with water in setting; leave the soil ertheless, in the parching drought ye have ex- around the stem concave; place them ten feet apart, and the rows twelve feet, prune just after the fall of the leaf, late in the fall, or early in March. Fork in, late in the autumn, three or four shovelfuls of fresh manure. After digging around I send you a sample of bug which I have rethe trees in spring give the whole a broadcast of

Salem, Mass., 1859.

J. M. I.

TO CURE DYSPERSIA.

Make a tea of the herb called Bay or Meadow all by flashing a small quantity of gunpowder un-derneath the tree; but now my apple trees are common in this vicinity; it grows in meadow swarming with them, notwithstanding that I had lands, and in low, swampy localities; it resembles my trees thoroughly scraped and washed with the whortleberry bush, and is covered with small

Concord, Mass., Aug., 1859.

GOOD BUTTER.

"D." is informed that the facts communicated to him by an "old lady," about butter-making, we have already given in former articles.

For the New England Farmer.

LABOR-SAVING MACHINES.

Mr. Brown:—Some weeks since I noticed a paragraph in your paper recommending all per-In answer to the inquiry of "W. C. B.," I will sons to purchase labor-saving machines. We last week, and he asked me what I thought of it. I told him that I thought it would do very well for a rich man, but for me it would not do. It took one man to mow round the edge of the field, one to manage the mower, and the horses were equal to two men, which would make four; and four men would have mowed it quicker, cheaper and better than the mower did it. Ketchum's one-harse mower is the best one that I have stract largely from the nourishment and moisture seen. It works well on most of our land. Our now doubly needed by the plants as they are ap-land is high and the crops generally suffer more

Westboro', Aug., 1859. INQUIRER.

REMARKS.—"Inquirer" asks us if he must buy machines that he knows nothing about? Certainly not. Exercise the same sound judgment that they require a damp and shady position, and and discretion that you do in purchasing a herse, that they do not want manuring; I apprehend a farm, or a plow or cart. Go and see those in this to be a delusion; they require to be planted your neighborhood or town, and criticise them

There is another view to be taken of the value in the drills; shorten in the branches one-half of a mowing machine, beside the one in which of last year's growth, give the roots a good you describe it. Suppose you keep a pair of

horses usually on the farm, would they not be manure. We say, then, that the most approved quite likely to be idle if they were not in the ma- form of barn in common use in New England is chine? Suppose, also, that you or your father, sadly defective in at least two of the essential reare in feeble health, or have seen too many hay-addition of a cellar is not the improvement ing seasons to swing the scythe with two or wanted to get a good barn. three rugged men-perhaps Irishmen-could you Again, our common barn is generally built swath? And pursuing this course, would you roof required in this style of building! The roof, not have done more towards securing your hay too, costing the most of any part of the barn harvest than any three men could have done? originally, and requiring expensive removal every There is no doubt of it. There are several oth-twenty or thirty years! er reasons just as applicable as this, why we should use a mowing machine, and other labor-most of its enclosed space is entirely lost for all saving machines and implements; but we must purposes of stowage, being directly over the floor matters.

For the New England Farmer.

HOW SHALL WE BUILD OUR BARNS?

first consider the objects to be had in view, in with the coatly and perishable materials used in building a barn at all. The most important one building, we must inclose no waste spaces; and certainly is stowage; the next is a convenient sta-should expose the smallest possible surface of ble for domestic animals; and lastly, a manufactor of. This may be accomplished as it is done in tory of manure. A building that provides for all warehouses in the cities; by flat roofs and high of these in the best and most convenient manner, walls, and now that we have the horse pitchfork, and to the greatest extent for the original cost, the objection to high mows is entirely done away and at the least outlay for future repairs, will be with. The hay can be thrown up thirty feet, as the best barn, and a great desideratum to the ag-easily as it can be carried up ten; and its exporicultural community.

The form most commonly used with us, is a by its compactness and small external surface. It is a plan of a huge barn given by L. F. building from forty to fifty feet in width, with a ture manure. It must be, and always is, thrown desirable amount of manure. out through windows to waste its strength, and. But he raises the whole of his barn, except the become a nuisance in a muddy yard. The liquid lintels, four feet from the ground! For what never be used on a farm.

never be used on a farm.

The digging and stoning a cellar, and building a floor over it, sufficiently strong to be safe, will our barns. Why should we have floors in our cost as much as a good barn ought to cost, with barns, kept up a few feet from the ground, by ten times the convenience for making and saving heavy timbers, that are continually rotting away,

not guide these horses, hitched to the machine, about fifteen feet high from the floor to the and cut five or six acres a day, when you and the degrees. This is, perhaps, as high as hay can be horses would not otherwise have cut a single pitched by hand; but just look at the enormous

In the first place, it is one-third larger than exercise the same good judgment in their selection and use that guides us in other important room for themselves, without extending the building to the dimensions of a whole block of city warehouses.

Some few barns are built narrower, and have a lintel or lean to, for the cattle. But this requires an additional roof, with no room for stow-To answer this important question, we must age under it whatever. In our cold climate, and sure to dust and offensive effluvia much reduced,

barn floor or drive-way running length-wise Allen, which has been widely recommended in through the centre, and having stalls or cattle-our agricultural books and papers; and in my house on one side, with mows for hay, &c., on the judgment embraces all the faults of our common other. This makes a convenient stable, but sac- New England barn, with several additional errifices to this convenience both the other requi-rors, strangely palpable. In the first place, he sites of a good barn. The floor or drive way, is has 12,512 square feet of roof surface, on a barn very expensive to build and occupies the centre 100 by 50, with a sixteen feet lean-to on three of the building, where is the largest and best sides—more than enough to cover a building 110 place for stowage, and gives a cold and unneces- feet square! and he gets only stowage room sary space, which can only be partially used at enough for about 170 tons of hay under this imany time. The very small amount of convenient mense roof. In fact, he says that he has put inroom for keeping hay, grain, roots, straw, corn- to the barn 150 tons at a time, 'and that it will stalks, and refuse for bedding animals and com- hold even more, if thoroughly packed." But put posting with manure in proportion to the space the same roof over a barn 110 feet square, with enclosed and roofed over, is the great objection walls thirty feet high, and you will have ample to this form of barn, and unless the ground on room for 500 tons, besides the requisite space for which it stands enables one to put a cellar under the cattle, and for the machinery to be used in it, there is no possible opportunity to manufact preparing their food, and for manufacturing any

portions are also lost entirely, unless expensive possible reason? Every thing has to be hauled and troublesome means are provided to save up that distance, over inconvenient inclined them. A cellar will remedy these defects, where planes, and the whole space, sufficient to store 50 it can be had; but it is at best an ugly, inconvertions of hay, after being roofed over, is thrown nient, costly and dangerous affair; and should away by building costly floors, for no possible

and occupying the most convenient part of the required to build a steep roof will more than space covered by the roof? It forms a retreat do it. for vermin, catches and holds the most valuable part of the barn manure, and next to the roof, is in the ground below the reach of frost, on a firm the most expensive, and rapidly decaying portion stone wall, and made of stones chiefly, but in of the barn; subjects us to many accidents and good part of lime, sand and gravel, (unless clay heavy losses, and really does no good whatever, may be used instead of lime, the walls being

I build, I want to get a good one, and to get it abundant storage room, and protect them by How is this to be done? I have already wide projecting eaves. hinted at some of the ideas I have about it. It shall have no floor, and consequently no floor doors and windows on all sides; and nothing intimbers; this will reduce the cost materially, and side the walls, but the posts or pillars to support will be in imitation of the barns in the old coun-the roof, except where scaffolds are thrown over tries, which are all built with no other floor than the stalls for cattle and horses, and over rooms the bare ground, except in some parts a stone or for manure, muck, machinery, &c.

brick pavement.

buildings at Osborne, without regard to expense, being confined to a narrow drive-way, and comand is said to have a model steading; but in none pelled to pitch the hay over and over, across of the barns, stables or sheds, is there any floor; wide mows, I can drive all over the barn, into though the ground is paved with small, round any corner, and with a horse pitch-fork unload stones in some parts, both outside and inside of just where I wish to, and can drive in a dozen the buildings. And what could be better or more loads at the same time.

Until large, cheap barn, I can store and keep frost.

purpose, except perhaps for cattle and horse expense, when that is desirable. All the work is stalls. But here it will be far better than any-now to be done on the same floor. With a wheelwhere else. The real farmer wants a manufacto-barrow I can carry the hay or straw to the cutry of manure. He does not simply desire a handy ter, and when it is cut and mixed, I can feed the chance to get rid of the excrements of his ani-animals conveniently in the proper boxes for mals; and he finds a barn cellar a poor place to them to eat from. I can take the dry muck or mix and compost the materials required to make refuse from its room, and mix it under the cattle manure. But having provided the requisite ar- in small quantities, till it is properly moistened the manufacturing process is going on; and this it is wanted upon the land. being attended to daily, a great deal of work is accomplished, in the best manner, and with great-tilated; a store-house, a stable, a manufactory; er economy, than if left for long intervals and convenient, large, durable and cheap. heavy jobs.

We will, therefore, have only a floor of hardpan in our new barn, composed of clay, sand and gravel, well mixed and rolled down all over the bottom, smooth and level, and just even with and no waste room, under the floors, to fill up with hay seed, urine, skunks, weasels, rats and

stray hens' nests.

The roof, as already intimated, shall be flat; with composition roofing, instead of shingles, which will save another third in cost of materials and repairs. The objection to this, is its liability to become heavily loaded with snow; but reason of heavy snows. The roofs and the roads same means, and the interest of the money mutton sheep.

Now come the walls; and these are to be set but is in the way, cold, costly and troublesome. I am in urgent need of a huge barn, and when up thirty or thirty five feet, in order to secure

The barn shall be 80 or 100 feet square, with

I can now drive into my barn at any conve-Prince Albert has recently put up a set of farm nient door, with a loaded team, and instead of

clay and sand and gravel; our open sheds always all my spare hay, and not be compelled to sell it have a hard, smooth surface of loam for a floor, at a ruinously low price, to make room for the which is the best floor possible, either to work next crop; but can hold on to it till the price is on, or for storage. Of course, the walls must be remunerating. I can extend the accommodation so constructed as to exclude the water and the for cattle and all kinds of farm stock at pleasure, by clapping up stalls anywhere as required; and This all will admit, I think, will answer every can always regain the space for storage, without ticles, he can place and mix them as he likes on with urine and compounded with dung, and then the ground under his animals, and conserve wheel it to its convenient place, to be preserved their health and comfort at the same time that in its strength, unformented and inoffensive, till

The barn will be dry and warm, yet well ven-

Strawberry Bank, Durham, N. H., Aug. 25, 1859.

BLACK-FACED MOUNTAIN SHEEP. - We rethe ground outside the building. No platforms cently saw eight sheep of this breed, selected in or steps required to haul up or climb up into it, Scotland by Sanford Howard, Esq., and sent in the ship Old England, which arrived at Portland a few days since, and from whence the sheep were sent to this city. There are two thus saving one-third in extent; and covered bucks and six ewes. They all have horns-those of the bucks are large and graceful. Their faces are black, and the legs are spotted with black. Wool, coarse and long. They are long and deep this is only a small matter. It does not snow so in body, with a good proportionate width. Mr. as to load the building, oftener than it blocks up ISAAC STICKNEY, of Boston, a gentleman who the roads; yet no one proposes to abandon the has long taken much interest in introducing new roads because they are sometimes impassable by and good stock into the country, has imported can both be freed from this encumbrance by the them with a view of getting a breed of the best For the New England Farmer.

DRAINAGE.

My Dear Brown:—In the publication of my book on Farm Drainage, the chapter which I send you was omitted, to make room for matters which were deemed essential. Still, I think | country or district is rendered more free of it will interest our readers, and have some tendency to direct attention to the all-important subject of Health, which, says Isaac Walton, is the blessing next in value to a quiet conscience. HENRY F. FRENCH.

INFLUENCE OF DRAINAGE ON HEALTH.

Swampy Districts unhealthful-Sixty millions of Acres of Swamp wampy Districts admentance—Sky minions of Acres of swamp given away by the United States Government—Clearing Land of Timber makes it dryer—Fevers and Agues leave where Land is Drained—Mr. Colman's Opinion—Facts— Birkenhead Park—Opinions of Distinguished Men—Health of Stock improved by Drainage.

Although the general proposition that drainage promotes the healthfulness of a country or agues and consumptions, by a complete drainage district will be readily admitted, yet it is believed have become salubrious, and are now upon an that this idea does not, by any means, make its average standard of longevity with other parts due impression upon the community. It is proposed, therefore, briefly to consider the subject in its relations to the health both of man and of states the matter as follows: the domestic animals, and to cite such authorities that a way-faring man, though not quite wise or learned, shall not, if he reads the chapter, fail to see something of its force and importance.

uals, owners of small tracts of land, will embark in schemes of drainage for the improvement of gravate atmospheric impurity. the climate merely, or that the limited operations ers temperature, produces chills, and creates or of individuals on their own land can be pointed aggravates the sudden and injurious changes or to as evidence that drainage promotes healthfulness.

There are, however, certain propositions generally received as truth. Wet, swampy districts ter in suspension or solution, the injury to the of country are usually afflicted with agues and public health is so direct and considerable as to fevers, and other forms of disease, from which amount to a nuisance requiring authoritative intervention. The evils thus arising, which are dry regions are exempt.

In accordance with this idea, and with a view to promote the healthfulness of the country, the high water mark, have been exemplified in the United States government, by Acts of 1849 and General Sanitary Report, and also in the Second Sept., 1856, granted the swamp and overflowed Report of the Metropolitan Sanitary Commislands of the government, as a gift to the States in which they lie, and it is officially estimated that when these grants shall be entirely adjusted, they will amount to sixty millions of acres.

than cleared lands.

It is a well established fact that mill streams and rivers have grown perceptibly less throughout New England, since the wood has been cut find a notice of the drainage of the park near away. Streams, which formerly were sufficient Liverpool, which, in 1857, when seen by the writer, to drive certain mills, have failed, probably presented the appearance of dry and healthful through the increased evaporation, so as to have pleasure-grounds. This account should instruct become entirely inadequate to the purpose.

and to pursue the pioneers into new settlements. Indeed, it is not, perhaps, assuming too much to say, that generally in proportion as, by the cutting away of timber, or by other changes, such as the clearing up of swamps, the climate of a dampness by evaporation, in the same proportion its healthfulness is increased.

Mr. Colman, of Massachusetts, a careful observer, both at home and abroad, of the effects of drainage, says,

"There are considerations connected with the subject, which are not to be measured by a pecuniary standard, but whose importance cannot be over-estimated. I mean, for example, such as refer to the health of the country. The fogs and dampness arising from wet and undrained lands, are a prolific source of ill health and sickness.

"Tracts of land which are liable to fevers and of the country."

An English Board of Sanitary Commissioners

"1. Excess of moisture, even on lands not evidently wet, is a cause of fogs and damps.

"2. Dampness serves as the medium of conveyance for any decomposing matter that may be evolved, and adds to the injurious effects of It can hardly be expected that private individ- such matter in the air; -in other words, the excess of moisture may be said to increase or ag-

"The evaporation of the surplus moisture lowfluctuations of temperature, by which health is injured."

"Where there is a large accumulation of surplus moisture, having animal or vegetable matfound in the greatest intensity in low-lying town districts, in valleys near rivers, or on sites below sioners. The inhabitants of drier districts are often afflicted with marsh diseases from the illdrained lowlands; thus, after the prevalence of easterly winds over the Essex and Kent marshes, cases of marsh fever and ague are found scat-Lands covered with timber are far more damp tered throughout the whole extent of the metropolis."

In the same report, under the head of "The Drainage of Parks and Suburban Lands," we Americans, because the Park at Birkenhead is Fevers and agues seem to leave an old State, one of the first beautiful landscapes that meets

dreary waste of waters.

called the park, was, a short time ago, like much are also the acknowledged results of complete suburban land near the metropolis, a mere drainage. Foothalt, however, is known to ocmarsh, over which thick mists hung at nightfall, cur where sheep are turned on very luxuriant It was thoroughly drained by Sir Joseph Pax-herbage, kept continually moist from the state ton, with drains varying in depth from seven of the atmosphere, though the land be not wet; feet to close surface drains. The mists and fogs so that drainage alone will not, on all soils, and created on this tract have, since the drains came at all times, exempt animals from suffering from into operation, disappeared. The expense of this disease. that work was £20 per acre; and the land, which In respect of increased salubrity induced in direct profit, besides effecting its main object,— great drainages effected in Cambridgeshire—as the improvement of the neighborhood in comfort in the Isle of Ely. &c.—and in the Lincolnshire and salubrity."

own countrymen.

politan Sanitary Commissioners" regarding the age, and appropriated to their use.

Drainage of Land, and the following extracts Mr. Spooner.—Beyond the general improvepopulation.

which prevail epidemically over the whole coun-and better quality of the fodder produced. This try; and it is generally observed by the inhabi-system has been extensively practiced for several tants that their cattle or stock are now less sub-ject to diseases. In the undrained condition of sults. these districts they were subject to dense fogs. Mr. Macaw.-As to the health of cattle or the atmosphere of the country.

veterinary surgeons to the other.

his gaze after his weary wanderings over the been perfectly removed in many gentlemen's parks, and in extensive pasturage grounds, by deep under drainage. The earlier seasonable ma-The space of ground near Birkenhead, now turity of venison, and a greatly improved flavor,

before the drainage was worth only £1 per towns and rural districts by drainage, I may inper acre, is now worth, at the least, £4 per acre stance the acknowledged disappearance of ague for pasturage; so that the work pays 15 per cent. and other periodical muladies consequent on the

and other great marshes.

As an example of the good effects arising from Upon this point, as upon so many others, we the drainage of swamps, I may state that the are obliged to refer to English authority, be-Commissioners of Her Majesty's Woods and cause so little drainage has yet been effected in Forests, of which your lordship is the chief, have our own country, and because our government has as yet collected no statistics touching the matter.

Lawn and Bog, a joining which is a small ham-There is no reason apparent, however, why let, whose inhabitants previously suffered much the testimony of eminent agriculturists abroad from intermittent fevers. The hamlet is now should not be deemed as reliable as that of our healthy; the off-usive gaseous emanations from the soil have ceased; and the inhabitants are In 1848, "queries" were issued by the "Metrowater, discovered during the operations of drain-

from the answers of gentlemen of the highest ment in a sanitary point of view, and the dimicharacter, as published by order of the British function of fever and ague, acknowledged to have resulted from the drainage of the fen districts of Cambridgeshire and Lincolnshire, and the marshfactory as to the beneficial effect of drainage es of Essex, I am not acquainted with cases in upon the health of domestic animals and of the which improvement in the health of population can be traced to drainage as a sole cause; but in respect to stock, a striking instance can be ad-Mr. Smith.—In the alluvial clay districts of duced of improvement in healthiness resulting Stirtingshire, and west of Perthshire, where the from drainage alone, attributable to no other drainage was formerly effected by large open cause. In the Highlands generally, and more ditches, in the Dutch fashion, ague was periodi-cally prevalent, and rheumatism, fevers and known and fatal disease among sheep, incurable scrofulous affections were much promoted, until by any treatment, termed "Braxey," which on unthe introduction of thorough-drainage, forty drained lands and in wet seasons is a cause of years ago; after which period those diseases be-very serious losses. This is, in a great measure, gan to disappear, or to be mitigated in severity. prevented by drainage, and the diminution of Few cases of ague now appear. Fevers are sel-casualties alone is more than sufficient to cover dom known, except in the usual course of fevers its cost, independently of the increased quantity

especially in the autumnal months when much stock, I have the strongest evidence of the benerain had fallen, communicating a chilly feeling ficial effects of drainage in many instances. On to the inhabitants; but since the general introduction of thorough-draining those fogs seldom ers in the district, a disease called red water prevail, unless in a general foggy tendency of prevailed, in some years proving very fatal; but after drainage and cultivation of the marshy Mr. Parkes.—The complete drainage of town parts of the pasturage the stock has been free and rural districts is universally admitted to be of that disease. I may mention that the first and conducive to the health of both man and animost severe cases of pleura pneumonia in cattle mals. The medical profession are, however, that had occurred in this and a neighboring best qualified to give testimony to the one, and county were on lands of a swampy, undrained to the other. character. The surface drainage of sheep walks The disease of foothalt in sheep and deer has in every district is well known to promote the

healthiness of the stock; and I believe the thorough drainage of a single swamp in any locality will be an important means of improving the health both of the population and stock connected with it.

Mr. Beattie.—It is apparent that animals have more comfort and thrive better on dry lands than on wet.

have been dried, and all the disagreeable and in- most thrifty vines, although they blossomed full, jurious effects arising from the swamps removed, never set a graps, and by comparing them with such as frosts, fogs and blights, &c. These lands those that bore fruit, I found they would never have been again allowed to become wet, and all bear. Last spring I got some cuttings that were

for the food of stock, and their influence in the off so low that two or three inches of dirt could neighborhood are injurious to crops that produce be put on top of the stock; then I split and the food of man, they must of necessity be inju-grafted the same as in apples; if the stock is rious to the health of the population and stock small, a string tied round the top will help hold independent of the injurious influence of the the scion fast till it is grown in It is better to atmosphere, which cannot be so easily deter- have a stock three fourths or one inch in diammined.

stock. In my own neighborhood, some low flat they will soon be valuable fruit bearing vines. land of a stiff clay soil, and lying extremely wet, always had a scouring effect on the young stock turned on it in the spring; and no application of manure produced any alteration. It was drained, and, without any other change in the management, the same species of stock throve on it extremely well.

This is easily accounted for; the wet preventmote the vigorous growth of animal substances, a few days. and the land became covered with a verdure un

suited for that purpose.

The withdrawal of the water produced fermentation; the aquatic plants were superseded by a more food-producing species, carbonic acid gas exhalations of the marsh, a purer oxygen was mosphere and the condition of the stock.

I have also had several opportunities of witnessing similar effects in the West Indies, and come, until the fertilizing properties are all washed particularly in British Guiana, where I resided from it into the soil, or if your manure is comseveral years. The surface is almost a dead flat, posted of materials that are purely inorganic and lower than the sea at high water, and drained will not evaporate, then you would have driven only at considerable expense by large sluice the nail where it is said Noah drove the first

riod of low water.

and its neighborhood is invariably the first to suf- lic. As it is, permit me to offer an amendment fer on the approach of an epidemic; and I have to your proposition. in which I will endeavor to known instances of the course of a fever thus pro- give my own experience, corroborated by science, duced being checked, and materially altered, by as I understand it. the neighboring lands being drained, an alteration considerably accelerated by a small quantity of lime, in a finely powdered state, being distributed on the lands during a windy day.

For the New England Farmer.

GRAFTING NATIVE GRAPE STOCK.

Dear Farmer:—I see by your Marblehead correspondent that he has found the same trouble with myself in raising native grape vines from seed. About ten years ago I planted some grape seed, and have been waiting to see what varieties I am aware of instances where marsh lands I should get, and I found that the largest and the evils formerly complained of have returned. three buds long, and in May, after the vines had Where undrained lands produce bad herbage grown leaves as large as dimes, I cut the vines eter, and then nothing but dirt will be needed. Mr. Neilson.-In the Altear Meadows, belong-No wax should be used. My vines have now ing to the Earl of Sefton, a low level district grown over eight feet in length, with side shoots about eight or ten miles north of Liverpool, a four feet long, and still they are bound onward. water-wheel was erected about five years ago, for I have not cultivated them this year any, except the purpose of relieving the land from inunda- to take off the suckers, and these will need looktion; and though thorough-drainage has been ing after every week; and yet there are leaves very little adopted, the inhabitants speak of the on them that measure 12 inches wide and 13 increased salubrity of the locality, while the long, and the vines would in two years, if at-equally increased fertility of the land has created tended to, cover friend G.'s arbor. I would not a marked improvement in the condition of the destroy the roots till I had grafted them. I think

A. J. Dodge.

Francestown, N. II., Aug., 1859.

For the New England Farmer.

TOP-DRESSING.

"It is an excellent time to apply composted manure as ed the manure from fermenting, and fostering a top-dressing immediately after the hay is carried from that species of herbage best calculated to pro-

If this work is not already done, it should be, before the grass ceases to grow, so that the autumnal rains ${\rm sh}\,$. Il moisten the manure and carry its fertilizing propertes among the roots.

The above, Mr. Editor, you will perceive, is was more speedily absorbed, and, instead of the copied from your editorial. Had you added,-if your land is already in a good condition, so that evolved, increasing both the salubrity of the at- the grass will grow up immediately and cover it, or if you are sure it will rain immediately after spreading your manure, and for several days to gates for each estate, which are opened each penail. (if nails be drove,) when he built the ark, and I should have been saved the mortification When an estate is abandoned, this is neglected, of sending my poor composition before the pub-

> I have learned, by experience, that the best time to apply manure as a top-dressing to grass lands, is late in autumn or in winter, so late that the manure, after being spread upon the surface. will remain most of the time in a congealed state

The snows which are so liable to come upon as at that season of the year, will soon cover it, bidding defiance to the winds which are so eager to catch up its fertilizing qualities, bearing them hence to no particular spot.

The greatest benefit I ever received from topdressing, was spread on the snow in winter, while that spread in early autumn has been almost an

entire failure.

Ashes and other non-evaporating substances may be spread at any season of the year. Under the above process I have improved the condition of a farm which had been continually deteriorating under the process of plowing, so that the barns that were not more than two-thirds filled are now filled-full. This season I have been obliged to reap and cradle my grain, which heretofore has been mowed, for want of barn room, and all this has been done in the space of

four years.

Now let us examine it in a scientific point of view. It has been my pleasure, as well as privilege, for the past few years, to enjoy the reading of your excellent paper, of which the editorials have not been of the least importance. You have frequently set forth in them, (and I think not without foundation,) as a principle, that the substances which combine to perfect the formation of the vegetable kingdom are classed under two heads, called organic and inorganic. That the organic substances are derived from the atmosphere, and the inorganic from the soil; that when these substances have combined and formed vegetable matter, and are permitted to decay, being exposed to the open air, will return to the source from whence they came.

Now, does it appear reasonable that our compost manure, a large share of which is organic, should be spread upon the surface, under the burning sun of July, August or September, exposed to the evaporating influences of sun and air, and that in case it should not rain for a week, would almost be relieved of its organic substances, or, at least, of those parts which are of any service, leaving only the inorganic, which alone cannot perfect vegetation?

Otter River, Mass., 1859.

REMARKS.—When we wrote the paragraphs which "N. H. L." has quoted, we had not forgotten the objections he raises—they are valid objections. There is always more or less loss in top-dressing with organic manures. What we must do, is, to select that time which we think, upon the whole, is the least objectionable. We have asked the question of at least fifty among the best farmers in New England, "When is the best time to top-dress grass land?" and we think the reply has been, in a majority of cases,-"just as soon after you take your crop off as you can." If the manure is applied late in autumn, the sweeping winds which prevail at that season desiccate it with great rapidity, even more rapidly than July suns. Just before snows fall in autumn, or early in April, are also good times to!

except when drenched by the thawing rains of top-dress; but the objection to the former time is, we cannot tell when the snows are coming, and do not like to risk the manure exposed to the fierce winds, and the objection to the latter time is, that the ground being so soft at that season of the year, might be injured by going over it with teams and wheels.

AUTUMN WILD FLOWERS.

BY MARY HOWITT.

The autumn sun is shining, Gray mists are on the hill; A russet tint is on the leaves, But flowers are blooming still !

Still bright, in wood or meadow; On moorlands dry and brown; By little streams; by rivers broad; On every breezy down-

The little flowers are smiling, With chilly dew-drops wet, Are saying with a sportive voice-"We have not vanished yet!

"No, though the spring be over; Though summer's strength be gone; Though autumn's wealth be garnered, And winter cometh on ;

"Still we have not departed, We linger to the last, And even on early winter's brow A cheerful radiance cast!"

Go forth, then, youths and mailens, Be joyful whilst you may; Go forth, then, child and mother, And toiling men grown gray.

Go forth, though ye be humble, And wan with toil and care; There are no fields so barren But some sweet flower is there!

Flowers spring up by the highway Which busy feet have trod; They rise up in the dreariest wood; They gem the dullest sod.

They need no learned gardener To nurture them with care; They only need the dews of earth, The sunshine and the air.

And for earth's lowly children; For loving hearts and good, They spring up all around us, They will not be subdued.

Thank God! when forth from Eden The weeping pair was driven, That unto earth, though cursed with thorns, The little flowers were given.

That Eve, when looking downward, To face her God afraid, Beheld the scented violet, The primrose in the shade !

Thank God! that with the thistle That sprang up in his toil, The weary worker, Adam, Saw roses gem the soil.

And still, for anxlous workers-For hearts with anguish full, Life, even on its dreariest path, Has flowers for them to culi.

For the New England Farmer.

BEAUTY, UTILITY AND REFINEMENT.

BY SUSIE SUMMERFIELD.

asserted that American agriculture has become its firm, glossy stem, and its green hue; then let elevated in the estimation of American people, him realize that each tiny leaf is ever assisting and it is justly encouraged and promoted by sci- to purify the air which it inhales, while it clothes entific men, by earnest thinkers and workers who the tree which beautifies the landscape about

mation, her interest in it, and she will help to to man, and cxhale ox gen, which is healthful; lend an enthusiasm, a charm to agriculture, such thus, when you beautify your grounds by plant-she will prove her influence to be more potent ling, you are promoting your own good, although than all the wise counsellors found among our they may cast too broad a shade upon the mowgrandfather and father farmers of old New Eng-ing-lot or meadow near the old homestead.

land.

this occupation, she will make sunshine to glow being beautiful. is equivalent to the fact that its within our farm-houses, which shall vie with the beauty is from God." glowing sunlight without, that mellows the luscious fruit, and matures the golden grain upon awakened in us by true beauty is a noble emothe productive fields. But, alas, some blush to tion, and when our nature is restored to what it do this, for fear of being unrefined, and I pity was, or raised higher than before, beauty will them in their mistaken opinion; while I take my beam upon us from every part of God's unipen to assert that a beautiful combination of verse, till then scarcely dreamed of." beauty, utility and refinement, may and ought to have an intimate relation with the farm.

of God's works, and why should not man aim to creating it? The architect and the mechanic have it discernible in his work, too? It is governed by laws which are the writing of the Eternal mind, and are more stable than the created universe; then how worthy of man's attention is the art of adornment! Some men are so practical in all of their views of life, that they cannot elements of beauty. So beying a landable claim upon its decirable in farming? Are not nicely ardeem beauty as having a laudable claim upon ity desirable in farming? Are not nicely artheir attention, and seek for utility in all that ranged fences, deeply and well-furrowed fields, they create or improve. Though the works of well selected and well kept stock, and thrifty nature are created for our use; yet, all is symmetrically formed, and is teeming with loveling not for a farmer's interest to make such adornness; from the towering mountain upon which ments? the clouds recline, to the crystal dew-drop that trembles upon the spire of grass as it glistens in pleasant and comfortable dwellings. He should the sunshine.

farmer who toils in the open fields may fail to thereby verifying the words of Keats, who said, recognize beauty in Creation's fair handiwork, while he deems that plants, trees and fruits are good, because man can use them. But let him

treasure, a goodly appendage to his farm! But let him pause, and take up one little leaf which the winds toss at his feet. Let him scan well its organization; see its thread-like fibres, its deli-The day has arrived when it can be truthfully cately notched edges, its velvet-like softness, entific men, by earnest thinkers and werkers who the tree which beautines the landscape about are pursuing the art. Now and then we find one of the "gentler sex" who presumes to express an interest in the occupation of farming.

It is an occupation in which a woman has a part to perform; then let her express her estimates the tree which beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautines the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combination of beautiness the landscape about him, and will he not recognize the combina

Beauty is an emanation from God. One wri-If woman but gives her hearty approval of ter asserts that, "the fact of a beautiful object's

Bayne forcibly asserts, "that every thrill

Now, since beauty is of such origin, is everywhere about us, and while no occupation of life The word beauty is expressive of adornment is so capable of admitting it as the farmer's, is or embellishment. Beauty is discernible in all it unworthy of their notice, or of their efforts in

It is also for his interest to have and use e sunshine.

The rays of the sun which help to crimple trees, flowering shrubs and cultivated vines. He golden borders for the clouds; to crimson the should become inspired with glowing enthusiasm hill-top with amaranthine hue; which makes in all that is beautiful, useful and refined. Eveach shrub and tree to give out their soft shadows; also warm the brown soil, so that Mother to make a harmonious combination of beauty, Earth yields the green herbage and plentiful utility and refinement, until fruitfulness exists grain that sustains life in man and beast. The where once barrenness and leanness abided, toward who take in the coars fields may fail to the charge rich in the coars fields may fail to

"A thing of beauty is a joy forever."

Although our yeomanry are under the necessilift his eyes above, and watch the silvery clouds ty of laboring diligently and earnestly, yet they in rich contrast with the azure sky, as they float are not justified in disobeying Nature's laws, or along like winged ships; and at night, when the in forgetting that God has endowed them and stars, one by one, come out, till the firmament their offspring with immortal minds that require gleams and glitters with stars, will he then for-get that beauty is a twin sister with utility? Per-Some farmers, who plead that they have no haps he looks upon the shade tree beneath which time to read, to improve and beautify their the red cattle recline upon a July day, or be-homes, who go on over-tasking nature, fail in neath which he seeks protection from a scorch-their schemes of acquiring an abundance, while ing sun, and lo! he beholds it as a very good they make themselves decrepid, old young men.

They have sons who become weary of home-pect of success. There is, beside the fine woolmonotony, of home-drudgery, and turn away in flocks established in Texas, a constant, and large disgust with a farm life. Their fathers have importation of the coarse wool-sheep of Mexico. failed to educate them as the times demand, and It is estimated that a fourth of a million of Mexalso fail to elevate their occupation in the esti- ican sheep have crossed the line into Texas, since mation of their sons, and too often are left alone the first of 1859—and the number is constantly upon the old homestead in their declining years, increasing. These Mexican sheep are crossed But the intelligent farmer who studies for im- with Northern stock-and make a valuable proprovement, who has not infringed upon nature's geny, both for wool and mutton. We shall exlaws, steadily increases his wealth, and old age pect, before many years more, to see Texas mut-sits gracefully upon him, as he retires to his arm-ton sheep in the New York market, more frethe helm. In such farmers' homes, we find fath- that they will be much better liked, both by ers and mothers looking with eyes dim with butchers and mutton-eaters, than the bullocks grateful tears upon their offspring, who till the are.—.V. Y. Tribune. fields and cull the roses which they cared for in youth.

Beauty is something which is considered as belonging to woman. Refinement is what ought to characterize her, in her intercourse with her our land should make a law like the Medes and the transactions of this Society, giving its oper-Persians, that beauty, utility and refinement shall ations for the year 1858. It is a handsomely exist among themselves, their wives and their printed volume of 850 pages, and is the thirtieth daughters should 'act well their part," in the volume of the society, prepared under the direcgood work that pertains to the occupation which

their fathers and brothers pursue.

Much has been said upon the want of refine- P. Johnson, Esq. for all efforts to enrich it, in all grades of socie-Money never clinks beneath the coffin-lid so once possessed it. As minds are expanded and improved upon in time, so will they be elevated and rejoice in eternity, if faith and forgiveness secure to them an entrance into Heaven.

just now, about sheep in Texas. The start made, the case of poor or diseased animals, who are a few years ago by G. W. Kendall-and his suc-sure to be attacked by vermin long before the cess, after going through all the phases of ill luck, healthy and vigorous cattle of the herd are. losses and discouragements-which perseverance This is in compliance with a law of nature, who overcame—has induced many others to establish abhors a deformity as well as a vacuum, and sets land, one of the proprietors of the Metropolitan immediately to work to put it out of sight! Lean Hotel, in this city, is one of the number who has and sickly crops, and lean and sickly kine, are

Yes, old in a physical point, but young in years. followed the lead of Mr. Kendall, with every proschair, to allow the son of his youth to stand at quently than we now see Texas beef-cattle—and

NEW YORK STATE AGRICULTURAL SOCIETY.

We have before us the eighteenth volume of tion of its able and accomplished Secretary, B.

ment in our farm-houses. It is well that the subject has been agitated. It will awaken new which he lays the volume before the "farmers of After a brief "notice" from the Secretary, in thought upon the subject, while it will give rise New York," the book opens with a report from thought upon the surject, while it will give use New York," the book opens with a report from to action in the cause of improvements. Per-chance, some have not thought that the introduction of literary periodicals, volumes of poetry, scientific discussions and essays, religious and moral papers and books, and agricultural reports would shed a halo of brightness around This report gives, in a condensed form, the continuous and the "field home". But let each tarmer patronize the "old home." But let each farmer patronize dition and progress of agriculture and the methe book-seller, and let him subscribe for periodicals and papers, till he has planted them pro- chanic arts throughout the State, as illustrated fusely within his home, and see if they are not in the operations of the agricultural so ieties of as productive of good as the planting of corn, the State. They say, that, upon the whole, the potatoes, and the foreign seeds from the Agriyear of 1858 was a su cessful one to the farmers, cultural Department at Washington. Love of and that a very commendable advance has been music ought also to be encouraged. Let the made in every department of agriculture. "We echoes of song vibrate the heart strings, and let made in every department of agriculture. "We it ring in the farm-house. Money that is invest- want"-say they-"to increase the number of ed in books, and in promoting intelligence and well educated and intelligent agriculturiststrue refinement in a farmer's home, is better than men who are, in every respect, as well qualified six per cent. interest. The mind ever pays well for all the varied operations connected with agriculture, as are the men of other professions, ty. Mind is immortal. Money is perishable, who have been duly prepared for their pursuits."

On speaking of the wheat crop of the State, that it makes music to the dead sleeper who they say that investigations into the habits of insects has established one principle, viz:-that "where land is properly dressed and cultivated there is less liability of damage from insects, than where the land is poor, and the crop is ne-SHEEP IN TEXAS.—There is a sort of mania, glected." This is undoubtedly true, as it is in

at once attacked by insect scavengers to hide ter know the number and value of our stock, of all But when the committee endorse the theory of erage crops raised. They also speak of Agricultu-Professor HIND, of Trinity College, Toronto, ral Associations, and quote high authorities in and English writers, who recommend "good their favor. The Sorghum or Sugar Cane, and husbandry as among the remedial measures to Steam Plowing are considered, and the importance arrest the progress of insects," we think they do of a choice Agricultural Library is dwelt upon not, to say the least, give the true cause of the in- with considerable emphasis. tivated land is very serious."

-that high farming produces insects-that it during the last winter. feeds and shelters them, and produces the condition of things best fitted to a rapid and wonderful dress by Prof. NORTH, on "American Trees and increase. This, too, is in accordance with a nat-Tree Planters," and is full of excellent facts and ural law. The forests of certain sections of counsusgestions. He says that trees make generous try sometimes yield no mast, or nuts, for sever- returns for the room they occupy. The destrucal years in succession, so that the animals that tion of trees not only diminishes the absolute enlivened their tops all disappear. At length quantity of rain, but prevents its accumulation in they blossom again, and lo! long before the springs, shaded valleys and swamps. A bare fruit has matured, the forest is vocal with the hill-side will shed water like a roof. Let the hopeful sounds of its old denizens, waiting for trees remain as nature intended, and the same their accustomed food. And so is it with the soil becomes a sponge, absorbing the rain as it grasses on the prairies-it is the plentiful crop falls, and sending it down little by little to the that increases the destroyers, and not the lean thirsty lowlands. He gives an interesting acand hungry ones.

crops, notwithstanding—but must set our wits who founded the first botanic garden in this to work to devise the ways and means to pre-country, on the banks of the Schuylkill, and menvent their destruction by insects. But we certioning Andre Michaux and his son, William tainly have done much that is favorable to their CONE, of New Jersey, DOWNING, M. P. WILDER multiplication and vigor, in increasing the varie- and H. W. SARGENT. In confirmation of our ties and excellence of our crops. When apple theory about the increase of insects, and the trees were few, the fruit small, gnarly and almost state of warfare we are in, he says-"Every valas hard as flint, and the leaves were small, tough uable tree has its enemies. The more useful the and wiry, we had but few curculios; but now tree, the more numerous, busy and implacable that the cultivated apple is juicy and tender, the its foes." curculio finds it so admirably adapted to its purposes of propagation that scarcely an apple is made a speech in which the subject of steam as left untouched by this tiny depredator; and so a motive power on the farm was very ably disthe caterpillar finds the leaves of the apple tree cussed,—and then the newly elected president, large, succulent and tender, and the very food it Abraham B. Conger, made short, congratularequires in order to sustain millions of its kind. tory remarks upon taking his seat. In a gener-So the tender leaves of numerous other fruits, as al discussion at another time, Mr. Conger made well as the great variety of vegetables which we an earnest address to the farmers to abandon the have been pleased to introduce into our gardens exhaustive process of feeding mainly on hay and and fields and cultivate, contribute to the aid and adopt the root cultivation. He believed in the comfort of numerous insects, as well as to the English dogma, that without roots for food, there gratification of our own appetites. Life, in this must be few cattle; that with few cattle there respect, as in many others, is a continued war- must be little manure; and with little manure fare. It is so between us and the insects, and there must be light crops. between them and us. Who shall gain the mas- The report of the committee on Dairy Farms son?

the statistics of agriculture, so that we may bet- Pratt's dairy, of 50 cows, in 1857, was twenty

the deformity from the fair face of the earth. kinds, and how to form a general estimate of av-

crease of insects. They say, "high farming is as Their address last year was given by Joseph destructive to vermin as to weeds, and it is rare- R. WILLIAMS, President of Michigan Agricully that the devastation committed in highly cul-tural College,—it occupies some thirty pages, and was of so excellent a character as to be very We believe that the reverse of this is the case generally published in the agricultural papers

The next paper contains extracts from an adcount of the leading men who have presented the We should aim to secure large and healthy claims of trees, beginning with JOHN BARTRAM,

The retiring President, WILLIAM T. McCoun,

tery? They, by their instinct, or we, by our rea- is a long and interesting one. We notice that the result of inquiries among dairymen, as to the The committee then refer to the want of a amount of milk required to make a pound of more uniform and systematic mode of collecting butter, was stated at fourteen quarts. Colonel

quarts; in 1858, sixteen and one-sixth quarts. It culty and the ray at once, conscious of its power

Then follow papers on "Experiments with different Manures on permanent Meadow Land," on "Draining," on "Potatoes," on "Winter Fruit," on "the Culture of the Cranberry," on the "Wheat Midge and Hessian Fly," on "Wheat and Chess," and then one on the "Edible Fishes of New York," by Robert L. Pell. This report gives a brief account of the fish common to the rivers and inland streams of the State in a very attractive style. Mr. Pell cultivates fish—as well as apples-and says,-"I am convinced that an acre pond, well stocked with pike, would yield more profit than a ten acre lot under ordinary cultiva-

A short chapter is devoted to the New York State Agricultural College, and then comes a long, practical and interesting chapter upon Fences, by S. Edwards Ladd. The subject is discussed under various appropriate heads, and em braces every kind of fence resorted to, including wire, stone, picket and hedge fences.

Following this are one or two hundred pages of miscellaneous matter, and the volume closes with the fifth report on the noxious and other insects of the State of New York, by Asa Fitch, entomologist to the Society.

We have now, briefly, brought to view the varied contents of this interesting and highly useful volume. It has not been made by an individual, but by many individuals, and the extended interest that has been secured to produce such a work must be a lever of great power in the State. To say that the work is as good as its fellows that have preceded it, would be saying much; but in some respects it is better. hope the Society will continue its surveys of counties.

Mr. Secretary Johnson will please accept our thanks for the volume which has enabled us to make these remarks, and to complete our set of this highly-valued work.

OYSTERS AND STAR FISH.

The oyster beds in Providence river have suffered severely from the attacks of star fish, which. in some instances, have destroyed hundreds of dollars worth of oysters. The manner in which the star-fish contrive to carry off the delicate morsel contained within the shells of healthy oysters, has been more or less a conjecture. By many it has been supposed that the star-fish closes its arms over the shell, and so starves the oyster to death by refusing to let it open its mouth for food. An old supposition was to the effect that the star-fish succeeded in inserting a the bivalve too strong for it, got rid of the diffi-creature while living.

seems to us that the lowest number is a large of reproducing another; which conclusion may have been drawn from the fact that the star-fish readily parts with its rays to preserve its body, reproducing them again very speedily. Star-fish have been detected in the act of sucking the juices of bivalves through perforations, and also with their mouths applied to the edges of the valves. From the apparently paralyzed state of the bivalves found in such situations, it has been conjectured that the star-fish introduces some deleterious secretion within the valves, and thus leaves the mollusk torpid, and deprived of the power of closing its valves against the attacks of the destroyer. But it is not on living prey alone that the star-fish feeds. Is seems to assist materially in cleansing the sea from dead and decomposing animal matter. A human tooth has been found in the stomach of a star-fish. Its mouth and gullet are admirably adapted for securing the animal substances on which it feeds. When the prey is apparently disproportioned to the parts into which it is to be conveyed, the osophagus, or gullet, together with parts of the stomach itself, can be protruded and everted, so as to draw the desired food into the cavity by the application of the inverted surface to it. Thus small shell-fish are swallowed whole, and specimens still living have been found taken from the cavity.—Newport Mercury.

ABOUT BARNS.

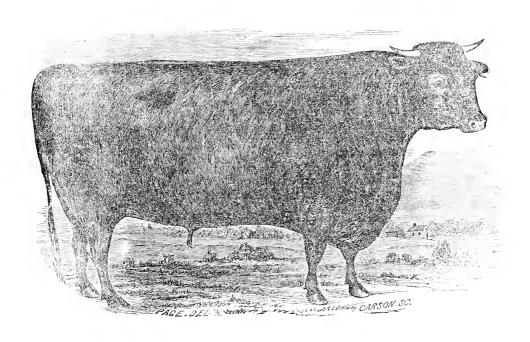
The careful attention of the reader is called to an article in another column, on the form and manner of constructing barns-a subject of the first importance to the farmers of New England. We do not mean to be understood as assenting to all that "J. W. K." says in his article-it may all be right, but we should rather see a barn so constructed before recommending them to others. His ideas, however, strike us quite favorably, and when we once had him "in our leanto," some years ago, had we known that his mind run so strongly to barns, we certainly should have detained him an hour or two to discuss them.

That our barns are too expensive in their first cost, too liable to rapid decay, and inconvenient in their arrangement, we have long been convinced, and our correspondent has our hearty thanks for giving the subject so much consideration, and for giving us an opportunity to communicate his views to the public.

LICE ON CATTLE.

Take white oak bark, boil it in water-making a strong decoction; wash the animals on the hack and on the sides. In twenty-four hours the lice will be completely tanned. Tanner's oil is also first-rate.

REMARKS.—If you try this, use it with moderation, as all decoctions of this kind are of a powray or finger into the gaping shell, and if it found erful nature. You would not like to tan the whole



A FULL BLOOD DEVON BULL.

to forbear a criticism of the above symmetrical dairy—but as a general thing, do not stand quite and every way beautiful portrait. Look at the so high as the Ayrshire. head, and see what a brilliant eye it has, what slender and clean jaws; then glance at the legs, fashioned as though cut out in a modern lathe for turning irregular surfaces, and then at the extreme appendage, so small, long and graceful! ly been put in operation, and is represented to Look at the straight lack, the short neck the have proved a complete success. It is designed Look at the straight back, the short neck, the powerful shoulders and brisket, and every part him.

This animal was bred by Col. L. G. Morris, of Mount Fordham, N. Y., and is the property of the Hon. John Wentworth, of Chicago, Illinois.

As oxen, the Devons make as good as ever need to be yoked—there are, perhaps, none better. They are strong, docile, quick, have good length of legs, are excellent travellers, and are handsome; and when done with the yoke, they make most capital beef.

Devon cows, as milkers, are frequently of a high order, having all the good points and qualis one giving milk of the richest quality. They supported on small truck wheels of two feet di-

The lover of good cattle will scarcely be able are preferred by some to all other cows for the

MILLER'S STEAM WAGON.

In Marysville, Cal., a steam wagon has recentfor travel on common roads, and to do heavy work with great power and steadiness. Mr. Milfilled with muscle or fat, all so attractive that an ler, the inventor, has been constantly engaged alderman's mouth might water upon beholding for the last two years in improving the mechanism of his wagon, and in satisfying himself that the principle of his invention was correct. As is usually the case with inventors, he has struggled with many difficulties, but has at length, as we learn, the satisfaction of seeing that his labors have resulted in producing a new and valuable means of locomotion. We compile the annexed description of the wagon:

It is twenty feet long, by seven and a half feet wide, and is driven by a fifteen-horse engine, geared to work up to thirty-five or forty-horse power. It is constructed to move on endless tracks, that are laid down and taken up as the wagon proceeds.

These tracks are carried round on large wheels, of five feet diameter, to which motion is given ities of the best milch cows. Occasionally there by the engine, and the weight of the wagon is

ameter, which rest on the tracks. These tracks thus form a movable railroad, which is carried with sunshine and rain, moderate heat, agreeable along with the wagon, and furnishes the rails coolness, and refreshing north-west breezes. upon which the wagon moves.

not touch the ground, and serve only to move ance of the former, nor a superabundance of the

weight of the whole machine.

on, have a bearing surface on the ground of the crops were not remarkably heavy, the fartwelve feet long by four inches wide, which ena- mers enjoyed the satisfaction of saving them in bles the wagon to pass over soft or sandy soil prime order. The weather was very cool about without sinking into it, and hence without any the 4th and 5th, and frosts were reported in some or very little loss of power by reason of increased sections, as occurring on the night following the friction.

tests, and with success in all. It ascended and 14th, the mercury reaching 96° at one P. M., on descended steep grades, as high as one foot in the 13th; but the last ten or twelve days had the height; it ran over soft ground without any loss pure atmosphere and agreeable coolness of Sepof power; and hauled loads, under the circum-tember. stances, equal to fifteen tons, at two and a half and three miles per hour. It was as easily turned fine, being remarkably clear, with but little sulas any mule team, started as readily as a loco-try weather or extreme heat. The first fourteen motive, and was stopped in a shorter distance. Cays were quite warm, however, their mean tem-Some persons expected that the motion of this perature being 70 00°, but the remaining sevenwagon would be rough and unpleasant-but it teen were very cool, and occasionally to an unwas not found so, as the wheels run on the pleasant degree, and the mean temperature of smooth metallic surface of the tracks, and the this part of the menth was 63.06°. A few times movement of the tracks themselves is the same as the maximum temperature was above 80°, during that of a belt passing over two pulleys of the the fore part of the month, but as frequently fell same diameter.

below 68° towards its close. Three light white

For the New England Farmer.

THE WEATHER OF THE SUMMER MONTHS, 1859.

prominent characteristics of the weather of June, from the 13th to the 24th, without rain, and rain falling on fifteen days, including six thunder symptoms of a drought began to be manifest; showers; and, according to observations made and reports from many sections of the country by Mr. J. Weatherhead, at the U. S. Armory, in represented vegetation as suffering considerably. this city, 6.38 inches of water fell on a level. stood at 34°, at my usual place of observations, corn, and other late crops, but fortunately the but upon carrying it to low, marshy ground, apprehensions of farmers were not realized; so some thirty rods distant, the mercury fell to 29°, the season afforded the novelty of frost in each ly injured. In some instances, the leaves and ing then necessary for its maturity in this vicinity, young growth of the grape vine and white oak. The mean temperature of the summer months corn crop was very discouraging.

July, however, was pleasantly interspersed Drought and rain were so well apportioned, that The large wheels which carry the tracks do vegetation suffered not from a too lorg continuthe tracks under the small wheels, which bear the latter, and the season for haying and harvesting was very good, though somewhat interrupted by The two tracks, one on each side of the wag-showers towards the close of the month, and if 4th, but of not much severity. There was extreme On its first trials, the wagon was put to many heat for only a few days, from the 10th to the

The weather of August was, in many respects, frosts were observed on low land, on the mornings of the 17th, 29th and 30th, here and there Heaving traces of their effect on tender vegetation, but no serious injury resulted. About an ordipary amount of rain fell, more or less falling on Clouds and rain, and cold nights, were the eleven days, but there was a period of ten days,

The weather throughout the season was quite Three frosts occurred during the month; on the unfavorable for the farmer, and rendered his mornings of the 6th, 11th and 12th, the first and prospects for a good corn harvest quite gloomy, last being very severe over the whole northern and, at times, very uncertain. The fros s of June parts of the United States, with occasional ex-were very extensive and destructive, and many ceptions. That on the 12th was the most severe fields of both corn and potatoes never fully rein this section, doing great in jury, not only to covered from their effects. The consequence recrops, but to vegetation in general. The grass, sulting therefrom to aye and wheat was for a time and leaves of plants and shrubs were frozen stiff, doubtful, but, at harvest, the damage proved to in many localities, and the ground, (in moist, be slight, exhibiting itself occasionally in the plowed fields,) was frozen to the depth of one-half-filled heads of the former, in many fields, fourth to one-half an inch. Ice formed in favor-while a few pieces were wholly ruined. The light able situations. At sunrise, the thermometer frosts in August again threatened great injury to while suspended in a frozen bush, and this in of the summer months, without very disastrous "rosy June!" Many gardens seemed nearly results. Corn at the close of August seemed to ruined, beans being almost universally killed, and corn and potatoes, in the fields, were great days to two or three weeks of warm weather beautiful to the control of the summer months, without very disastrous results.

were blackened and killed. The weather through was 65.6°; of June, 62.95°, being seven and a out the month, with the exception of a few days, half degrees lower than the mean of June, 1858, was so cold that vegetation advanced very sloward only about five degrees warmer than May; ly, and so wet that farmers were obliged to lose of July. 67 53°, being 42° colder than July, much time in consequence of the rain. At the 1858, 3 2° colder than July, 1857, and 6.3° coldclose of the month, they were nearly a week be er than July, 1856, which was remarkable for its hind-hand in their work, and the prospect for a great heat and dryness; of August, 66.31°; from 1.06° to 1.16° warmer than the three Augusts pre-

ceding. at sonset, 63.25. Of June, at sunrise, 47.47; infricen from the south, and three from the south-at noon, 68.83°; at three, P. M., 69.9°; and at east, and six days of calm. In June, there were sunset, 61.9°. Of July, at surrise, 57.71°; at nine days of wind from the north-west, two from noon, 75.81°; at three, P. M., 77°; and at sun- the north-east, two from the north, twelve from set, 65.68°. Of August, at sunrise, 57.78°; at the south-west, five from the south, and two days noon, 73.55°; at three, P. M., 75.48°; and at sun- of calm. In July, thirteen days from the northis the true mean maximum.

The warmest day in June was the 29th, the east, seven from the south-west, six from the mean temperature being 74.67°; in July, the 12th, south, and two from the south-east. with a mean of 80.83°, which was also the warm- I noticed ten solar halces, which, save in one est of the season; in August, the 4th, with a or two instances, were followed by a storm of mean of 76 33°. The coldest day of June, also of rain on the succeeding day. the season, was the 11th, with a mean temperature of 45.67°, and at nine o'clock, the thermom-"Northern Light," all in August; that on the eter stood at 49°, and at noon at 52°, though the 21st was fine, but the one on the night of the sun shone clearly! Several other days were un-28th was truly splendid, and in many respects comfortably cool throughout. The coldest day in remarkable. It became visible as soon as twi-July was the 4th, the mean temperature of the light had sufficiently faded, and continued all day being 54.67°, and in August, the 29th was night, with brilliant streamers of crimson, golden the coldest, the mean being 54 83.

The extreme temperatures occurred as follows: greenish. highest in June, 91°, at eleven, A. M., on the 29th; in July, 96°, at one, P. M., on the 13th, also the highest of the season; in August, 86°, at three, P.M., on the 4th. The lowest in June was 34°, at sunrise on the 12th, which was also the lowest of the season; in July, 44°, at sun-

the 30.h.

summer of 1858, and 16° warmer than the summer of 1857.

in some parts of western New England, was very down, but which was found along the way. destructive from hail and wind. The whole northwest presented one mass of inky blackness as it is a native of America alone, and cites the eviapproached, and when ten miles distant, columns dence of Dr. Pickering, who says: of dust began to rise at different points, soon spreading along the whole front of the shower, from the East or West. I have met with no evirolling up like dense smoke to the height of sev- dence that the plant existed in the country prior eral hundred feet, and truly presented a some- to the discovery of America." what alarming aspect. In a few minutes after in brooks. Hail also fell on the evening of the was not found in Africa, and contends that it 26th of July, from the size of a pea to that of a was not known in Europe until 1332. Admitting that maize might have found its way to Japan no serious harm resulted, though the marks were across the Pacific, the article says: visible for several days, on tobacco and corn.

seven others more or less so.

southerly point, as follows: Thirty from the dence of them should exist in those histories or

The mean temperature at sunrise was north-west, fifteen from the north-east, and two 55°; at noon, 72.73°; at three P. M., 74.16°; and from the north; twenty-six from the south-west, at sunset, C.23°. Of June, at sunrise, 47.47°; thirteen from the south, and three from the southset, 68.13°. The mean sunrise temperature varies west, five from the north-east, seven from the but slightly from the mean minimum, and the south-west, two from the south, one from the mean temperature at three, P. M., as here given, south-east, and four days of calm. In August, eight from the north-west, eight from the north-

yellow, and various shades of red, yellow and

Springfield, Sept. 2, 1859.

THE NATIVITY OF INDIAN CORN.

An intelligent article in the Cincinnati Gazette rise on the 5th; in August, 40°, at sunrise on discusses the question of the nativity of Indian corn, or maize, which was one of the subjects be-The summer of 1859 was 3.34° colder than the fore the American Scientific Association at Springfield. It will be recollected, perhaps, that Dr. J. H. Gibbon read a paper in which he con-Rain fell on thirty-six days; on fifteen in tended that maize was not solely a native of June, ten in July, and eleven in August. Four-America, but was also the product of Asia and teen thunder showers passed over this place, ten Africa. He contended that it was known to the of which were from the north-west; six in June, Egyptians, and that the manna which is said to five in July, and three in August. A remarkably have fallen from heaven for the sustenance of the heavy shower occurred on the 29th of June, and Israelites, was maize, which did not literally rain

The article in the Gazette contends that maize

The writer also cites the evidence of Livingthe shower commenced, water ran in the streets stone and Booth in proof of the fact that maize

"The points may be considered settled by pos-Of the ninety-two days of summer, twenty-litive testimony-that maize is a native of Amernine were clear, twenty-eight tolerably clear, six- ica, and that it is not a native of Europe. Our teen cloudy, and in the remaining nineteen, clouds prevailed. There were but five clear days and Africa by the clear days are to the clear days and the clear days are to the clear days and the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of mankind, and clearly the clear days are the first settlements of the clear days. cloudy. In July there were ten clear days, eleven of them we have by far the earliest and most autolerably clear, and five cloudy, and five consid-thentic testimonies, to say nothing of those memcrably so. In August, there were fourte in clear orable monuments on which is inscribed much of days, seven tolerably clear, but three cloudy, and the domestic manners, and history of the ancients. If then the civilization of Asia and Africa knew There were forty-six days of wird from a anything of Indian corn, or potatoes, or buck-northerly quarter, and forty-three from some wheat, or turkeys, is it possible that no evi-

Therefore it is that we consider monuments. the negative evidence as completely overwhelmexclusive. Let us turn to the Mosaic account- Please read it, remember it, and let its sentiment ever be presthe ruins of Nineveh and the monuments of entwith you, so that your love, also, shall be everywhere.—ED. Egypt. We find evidence of the existence of N. E. Furmer. barley, and wheat, and beans, and onions, and lentels, but where is there any evidence of maize or potatoes? Indian corn is one of the most remarkable and easily described plants known, and yet all ancient history is silent on its existence. Where is the evidence? Wheat was found among the mummies. The entire absence of any sort of evidence, is, to our mind, conclusive of the question. But this is not all. The classic ages of Greece and Rome had intelligent writers on agriculture, and Rome brought from Africa a large portion of her supplies. Now, if Carthage or Egypt or Assyria, had ever known or heard of Indian corn, would these writers have been totally silent on so interesting a plant? Nor is this all. De Goguet, a learned French writer on the origin of arts and sciences, has collected all that the ancient writers say, and all that tradition asserted of ancient agriculture, and not one word is there about Indian corn. There is additional significance given to the fact, that wherever Indian corn, is introduced, it is an important plant. It is not a thing to be overlooked; and yet all ancient history is silent in regard to it. We conclude, therefore, with Dr. Pickering, that there is no evidence of the existence of this plant prior to the discovery of America."

Where the Grasshoppers go to.—We are glad to know that this jumping fraternity are to be destroyed in some way. The Port Hope (Canada) Guide says they are falling a prey to a grub very similar in appearance to the weevil. On examination they are found covered with these small but formidable enemies, the strength gradually departs from the joints of the strongest, and they die. It is said that the grasshoppers may be seen in myriads, "stark and stiff," in the fields, while those alive are so dull and inactive that they can do but little mischief to the green crops. Some farmers assert, with all sincerity, that the weevil, appearing too late to successfully attack the fall wheat, pounced upon the grasshoppers, then young and tender, and will destroy them instead of the grain. If this should prove to be the case, it will be one of the most extra-apple in wood, bark, leaf and fruit, there are ordinary circumstances on record.

COSTLY CRANBERRY MEADOW.—Capt. Capon borer. has expended one thousand dollars upon a single acre to bring it into cranberry meadow, and with will call Eark Borer, is of a whitish color, withthe strong expectation that it will be a good in- out legs, tapering but little from the first ring. vestment. This is the most costly acre of cran. The head is broad and flat, nearly twice the width berry land that we have ever heard of. If it will of the body. When full grown, they are an inch pay thus to fill in deep swamps, and then give in length, with a head one-fourth of an inch broad, them a coat of three or four inches of mud, with and no thicker than the body. a top-dressing of sand, it is quite evident that those who have little else to do to their meadows in August, upon the bark of the body of the but break them up with a plow, and set out tree. When hatched, they eat into, and through the vines, ought at once to be about it. A situathe bark where they remain over winter. The tion where the meadow can be flooded until June next spring they feed between the bark and the or July is thought to be best, but there are diff-wood, and tribular to the late of the state of the sta ferent opinions, we find, in regard to the whole June theory of cranberry culture.—Barnstable Patriot. advisedly.

LOVE IS EVERYWHERE.

[We find the following in an English paper, a waif floating ing. It is made conclusive by being entirely about, whose paternity we should be glad to state if we could.

LOVE IS EVERYWHERE.

The air is filled with a gentle song-An under song of wooing-As the leaf-enshrouded woods o'erflow With the sound of the ringdove's cooing. In Nature's deepest haunts, I hear a voice that chants: "Why should the earth grow old with care, Since Love, sweet Love, is everywhere?"

Ye will hear at night, if ye listen well, Music in heaven ringing, And amid the stars a melody. As of angel voices singing: For the spirits who in the spheres of light Have made their happy dwelling, To each other across the depths of space Their tales of love are telling.

The sunbeams leave their glowing throne, And whisper love to the flowers; The birds outpour it in their strains, As they sit in their rose crowned bowers. When the breeze swells mournfully, Through the boughs of a swaying tree, I ever hear a voice declare That "Love, sweet Love, is everywhere.

In the moaning thunder of the waves, That dash on some rocky shore; Or the tuneful flow of the ripply tide, When a tempest's rage is o'er-In the murmured music of the brook As It rushes the sea to gain : Or the sullen plash on the silent pool Of the swiftly falling rain-

In the gleeful laugh of the dancing spray, From some : kyward-leaping fountain; Or the ceaseless roar of a white cascade. In its giant-bound from the mountain-There falleth on mine ear This song so sweet and clear: "Ah, why should man e'er feel despair, Since 'Love, sweet Love, is everywhere?""

For the New England Farmer.

LOOK TO YOUR APPLE TREES.

Among the numerous insects which attack the none doing more damage, or likely to ruin more young trees in this locality, than a bark grub or

This grub, which for want of a better name, I

The eggs are deposited in June, July, or early Of their transformation I cannot speak family with the borer from the larvæ of the two-plants. striped saperda (saperda bivittatti) which attacks Again—water can leave the soil in three difnorth or east, they are more liable to be attacked. several ways. The grub seems to poison the tree, and the bark dies faster than it eats.

in length, and are usually found doubled like a supplies, such as they are, from the air for the fish-hook. Their location is ascertained by the nourishment of these plants. It is wanted to dead, black look of the bark, and if they are not break up and comminute the soil by its passage dislodged, your tree is ruined. My method is to through it. It is wanted for the sake of its own cut them out with a sharp knife and then wash dissolved oxygen and carbonic acid, as well as the tree with a liquid recommended by Prof. for the same ingredients in the atmospheric air Mapes, which is made by the following recipe:

Sal Soda 1 lb. Water 1 gal.

J. R. WALKER.

Springfield, Vt., Aug. 20.

RAIN WATER .-- UNDER-DRAINS, ETC.

condensation upon the surface of cold particles, cape through the soil instead of over it, we from the atmosphere circulating in the soil. The should avoid those surface currents which wash The loss of ammonia and nitric acid by drainage water is, however, over-stated, as, when the drains currents seen in every undrained field. The lands by the same ingredients sinking below the level of roots, while in the drained lands the relevel of roots, while in the drained lands the re
2.—But let us now consider what the roots. ception of nitric acid and ammonia from the at-does during its escape by evaporation. In the mosphere is increased much more than equal to first place it is worth while remembering as bethe quantity parted with by the water.

exhibited by porous substances on water lying quantity of absorbent surface within the soil beneath them, is called capillary attraction. And which is exposed to the air. it is plain that any attempt to drain a field must

The bark borer is undoubtedly of the same but to direct to useful ends in the growth of your

the apple tree, quince, white ash, mountain ash, ferent ways: 1st, by running over its surface; locust, and various species of thorn, at or near 2nd, by evaporation from the surface; 3rd, by the ground. Young trees from one inch to four percolation through its substance. And let us inches in diameter, are preferred by the bark consider what the water does and does not do borer, and if they are crooked, or lean to the when escaping from the land in each of these

1.—In the first, when running over the surface of the land, it is of course inoperative. It is At this season they have not got through the wanted to dissolve food out of the soil and feed bark, and are from one-fourth to one-half inch the plants upon it. It is wanted to bring its own which follows it in its passage downwards, both of these substances acting usefully in the laboratory of the soil. And it is wanted especially Heat the sal soda to a red heat, then add the in the spring time for the sake of the temperature of the spring showers, which, if they could get into the land, would warm it. None of these things can it do. It runs off the surface without penetrating it, and its influence as well as want The following article is full of useful truths, happens, of rain-water falling on a frezen field. of influence are shown in the case, which often but the writer, in enumerating the sources from If it could gain a cess to the substance of the whence the soil receives water, has failed to no-soil, the whole furrow slice would at once be tice that portion received from dews and from thawed, and we should have vegetable growth fact that the surface evaporation of water reduces the finer particles into the furrows and the ditchthe temperature of soils, and that such less is es. The fertilizing influence of a constant surprevented by under-draining, is fully proved. face current seen in the water meadows is perare sufficiently deep, the loss of these ingredi-former coexists along with an escape of water ents is no greater than would occur in undrained through the soil, for a constant drainage is as

ing among the comparatively indefinite results of evaporation from the surface of the soil, that in Whatever be the sources of the influence ex- this way great loss ensues of the nutritive suberted by the rain upon the soil, it is only as the stances which the water held in solution. It is soil enables it to reach the roots of plants that very true that some theorists contend for what it can act for good. Let us, therefore, consider they call the leaf-feeding of plants, and urge the means of its access to the plants growing on that all the benefits of cultivation during the Water can get into the soil in three ways—
1st, as rain falling directly on its surface; 2nd, as in the case of spring-water, rising from below, where there is a direct connection between the soil and a recognizing to the block of plants arise from the extension of this evaporation, by which the leaves of the growing plants thus obtain a more abundant supply of food; but we believe that our object in cultivation should rather be to increase the soil and a reservoir at a higher level; 3rd, by stores of food within the soil, and that tillage that surface attraction of matter for it, which, as operations have this tendency by increasing the

The principal result, however, of the loss of be guided by all three of these considerations. water by evaporation is indicated by the fact that The quantity of the rain-fall, added possibly to during the conversion of every pound of it into an additional supply from beneath, and both held vapor, as much heat is consumed and lost as with more or less tenacity by capillary attraction would be produced by burning 2 or 3 ounces of within the soil, is the agent which you wish by each; and when you think that an ordinary rainmeans of drainage, we will not say to get rid of, fall amounts to 3000 tons per acre per annum,

you can easily conceive that the loss of heat by ments which we know, proving the influence of the evaporation of a comparatively inconsidera-drainage on the temperature, are those described ble portion of this must involve a great cooling by Mr. Stephens in his exceedingly instructive of the land. If thirty inches of rain were evaporated in this way, it would need 1 cwt. of coal dale's operations at Yester Mains, where, the per hour per acre through the year to make good temperature of soil being 40 deg. in its undrained the loss of heat sustained in this way; a quanti-state, the cutting of a drain near it and the setty which, in Dr. Arnott's hands, would give us ting in of a current through it, raised its temperan Italian climate. The quantity, however, ac- ature 12 deg. in six hours. tually lost by evaporation is of course nothing like this; a great deal of water finds its way the land is seen in the introduction to it of the through the land. The water supply of all our atmospheric elements which it holds in solution. springs and wells, if that were known, would indicate its quantity for the island. A great deal and alkaline earths is a powerful solvent and escapes in flood times by running over the sur-disintegrator, and the oxygen keeps in check the face, and a great deal now finds its way out of deoxydating effect of vegetable matter in the drains after percolation through the soil. Not soil, which in its absence tends to reduce the withstanding these causes, however, and notwith- higher state of oxydation of the iron present in standing the extremely irregular character of the the soil into the lower state, when it does misrain-fall, the loss by evaporation must be very chief by forming with acids in the soil soluble considerable. Dalton measured the quantity of salts injurious to vegetation. water escaping from two rain gauges, one of an | But the main purpose served by water during ordinary kind, and the other filled three feet deep its percolation through the land is that of feeder with earth, and he found that of thirty-three of the plants. A fertile soil, cultivated so as to inches of rain which fell per annum as indicated exhibit its fertility in the most profitable manner, by the one, only eight and a half passed through has growing upon it crops whose habit and spethat quantity of carth as indicated by the other, citic character are adapted to the climate in which and he concluded therefore that the difference they are placed, and to the character of the soil between the two-twenty-five inches, or three-litself-it yields these crops in the order in which quarters of the whole annual fall—escaped by each succeeding to the cultivation of its predeevaporation.

posite error, because it could not take account of of the roots of plants present. what went through the land altogether to feed. All these purposes of warming the soil, of intent unavoidable.

does by percolation; and its effects here we must as it is called. Water need hardly ever be an do little more than enumerate. They are short-enemy, and need hardly ever be in excess. ly these: It carries the temperature of the air Drainage is a contrivance for making use of it into the soil, a thing the possible injury of as a friend, and an ill-drained field is an illustrawhich, as in autumn and winter, when the air is tion of the mischief done by water, whether colder than the soil, is as nothing compared with there be little of it or much, when not in motion. the benefit of it in spring, when the air is warmer than the soil, and when the advantages of early that may be done by the percolation of water. growth are great. The most important experi- If, as it moves through the soil, it contains the

Another effect of water percolating through

cessor shall find the soil, chemically as regards Mr. Dickinson, of Abbot's Hill, near Kings its contents, and mechanically as regards its tex-Langley, has for several years copied Dalton's ture, and practically as regards consequent cleanexperiments, with results somewhat different from ness of the land and the fitness of their respective his; finding that of twenty-six inches per annum times of cultivation to one another, in the best fifteen were evaporated, while as much as eleven, condition for the supply of the wants of the crop rather more than two fifths of the annual rain-fall, in question—it is annually manured and cultipassed through the soil. His results, however, vated so as best to meet the current wants of the probably exaggerated the quantity of the rain-plants cultivated on it-but it is especially defall which in general passes through the land, for pendent for all its powers to bring these crops to it is plain that earth loosely placed in Dalton's a fruitful maturity upon the fact that there is gauge is much more likely to transmit the rain during every shower and after every shower of which falls upon it than the same depth of earth rain a continual current of water and a current can be in ordinary circumstances, the lower half of air throughout its substance, not too rapid, at least never having been disturbed since the lest its soluble parts should be washed to waste; Deluge. And in fact the attempt of Mr. Milne indeed, it is hardly possible to be too slow; slow Home to ascertain the truth upon this point, by chough, however, to dissolve from the soil whatmeasuring the water actually escaping from the ever it contains of food for plants, and fast mouths of drains in a field of a given extent enough to be continually bringing fresh supplies (though it on the other hand was liable to an op- by every mouth which the absorbing extremities

the wells and springs of the neighborhood.) leads troducing substances within it which shall operate to the conclusion that a much less quantity of chemically upon the mineral and other matters water than either Dickinson or Dalton indicates, within the soil, and of converting the soil into an passes through the land in the course of the efficient rehiele of the matters which it contains, year. And it would appear from this that the are answered by the percolation of water through loss of water by evaporation even in well-the soil. You must not think, then, of drainage drained soils is considerable, and therefore that as being a contrivance for getting rid of water as the loss of heat by evaporation is to a great ex- an enemy from the land; nor must you think of a wet and ill drained field as being merely an il-3.—Let us now, however, consider what water lustration of the injury done by water in excess,

food of vegetables in solution when it passes the mouthpiece of a plant, no doubt it also contains into our Territory this season, and the number useful matters in solution when it passes into the of "claims" that have been taken up and are drain which is to convey it altogether away, and rapidly being made into farms, is almost unprethe waste of food for plants by our drainage cedented. Many of the squatters are New Engwater is a matter of considerable importance. It landers, just the kind we want, for they bring has been most admirably investigated by Mr. the real go-ahead spirit, and what is best of all, Wray during the past year. His results are Free State principles. We don't catch a Yankee given in the following table:-

Samples of Drainage Water Samples of Drainage Water from Mr. Paine's very highly manured field contained contained grains per gallon contained grains per gallon grains per gallon of of

Ammonia.	Nitrie Acid.	Ammenia.	Nitric Acid.
.018	7.17	.003	4.78
.018	14.74	trace.	2.99
.018	12.72	.012	.628
.012	1.95	.012	.12
.018	3.45	trace.	.485
.018	8.85		
.006	11.45		
.018	3.91		

He found that the drain of water from highly manured fields near Farnham contained eighteen thousandths of a grain of ammonia in every gallon; but as much as four to fourteen grains of nitric acid; while from ordinary poor arable soil in Devonshire the drain water contained from three to twelve thousandths of a grain of to risk their all upon uncertainties-but now ammonia, and frem one-tenth to as much as four "come and possess the goodly land," for certain-

grains of nitric acid in a gallon.

waste indeed of nitrogen in the form of nitric tion will consist of substantial farmers, who have acid in the drainage of very highly manured fields; comparatively little, however, in the case of fields of ordinary cultivation. Whatever it is, we must simply bear it as a tax upon the otherwise general advantage of the practice of land drainage. One very satisfactory thing observable in the results of these experiments is the comparatively small quantity of ammonia which the samples of rain water contain, even water which falls upon the land .- Agricultural the reports of the enraptured "squatters" are to Gazette.

For the New England Farmer.

FARMING, AND OTHER PROSPECTS IN KANSAS.

Mr. Editor:—I am what is called here, a "Boston Yankee," and I am also a subscriber to the New England Farmer.

Although the New England system of farming is not very applicable here, where the soil is so rich, and where the plow has rarely turned the rich earth to the sunlight, and where one year's labor upon one acre of ground will equal a yield of five years' labor upon one acre of New Engarrangement of a farm, remarks upon poultry, and myself.

from Kansas in the columns of your Monthly, think it is safe to calculate that the market value and perhaps a letter from the fast-improving and of good club wheat will not be very far from that glorious Territory may be interesting to many figure, and certainly will not remain much below.

of your readers.

Kansas is swiftly growing. The emigration here that don't have them.

New England homes, New England comforts and pleasures, New England intellect and beauty, New England domestic and social life, have become so proverbial, that to say, "That man is a Yankee," perfectly establishes his identity, and his acquaintance is cultivated forthwith. They will trust a Yankee here, as far as they can see him, and further, too.

The new Constitution has been formed at Wyandotte, and probably at the next session of Congress Kansas will be organized as a State under Republican principles. Now, Kansas is performing its political affairs in an honorable and legal manner, and will soon take an honorable position under the stars and stripes of our national flag.

Now is the time to come to Kansas for health, wealth and wisdom. Our troubles have heretofore kept substantial men away, who did not like ty is now a free and sure word. Kansas has now From this it appears that there is a very large some excellent citizens, and next year's emigrasold their property in the East, and will come here with means to buy land, and improve and farm it on an extensive scale. This emigration will bring money amorg us, and hereafter produce what will continue to bring money.

Possessing a soil of unexampled fertility, a climate healthy and pleasant, extending in an undulating succession of fields of verdure hedged with woodland, Kansas comprises every inducewhen compared with that present in the rain ment for a sudden and brilliant prosperity. If he eredited, no other region presents half so

many inducements.

I have written you but little concerning the agricultural character, but in another number I will do so, and show the New Englander how we break prairies, make homes, and farm it easy, in Kansas. Susie V-

Sumner, Kansas Territory, Aug., 1859.

THE WHEAT CROP OF 1859.—The farmers and the entire population of the country very naturally feel a deep interest in the perspective market value of our great staple product, wheat. The land soil, yet in every number of your valuable crop is very large, and the quality is better than paper we gather new hints, which are a great for years. The yield is so great that two bushels help to us in our laudable efforts to become can be afforded as cheap as one last year. If 75 farmers. Your domestic articles, hints as to the cents can be realized now, it gives the farmer better remuneration for labor than \$1,50 last year. trees, grasses, &c., are read with interest by two If the corn and potato crop had been as good in of the old Bay State citizens-viz.: my husband proportion as the wheat and oats, we could hardly have expected to have realized in the Western I think I have never seen any communications States even 65 cents for wheat. As it is, we –Wisconsin State Journal.

For the New England Farmer. THE ONION.

morning, about the remark made by Mr. Hunt-visits on her little ones angry scoldings for acts ington, that his best onions, the present season, that do not call for them. She has not the rewere on that part of his field where no manure motest idea that in the nursery, as in the world, at all was applied, (which field I examined yes- that alone is truly salutary discipline which visterday, and found the fact to be as stated,) he its on all conduct, good or bad, the natural conterday, and found the fact to be as stated,) he said he had found maggots to rage less on a warm, light, porous soil, than on that which was otherwise. This principle he thought applied equally well to Mr. Huntington's crop, as that which he had applied. Perhaps the true reason may be found in the combination of the two children, her rule is important to determine the true chievous often in the highest degree; and would the same because it is admitted by all who have indeed he generally ruinous, were it not that the causes. It is important to determine the base cause, because it is admitted by all who have indeed be generally ruinous, were it not that the seen them, that Mr. H.'s crop of onions is superior to any other in the neighborhood—full half assume the monotype of the race, usually suborof most other fields having been destroyed by dinates all minor influences. the worm.

If any mode of checking the ravages of this insect could be made certain, it would be an annual saving to this town of \$50,000-and quite as much to several of the adjoining towns.

tions of late, because I find my neighbors are into it, and let them remain until they change watching the signs of the times, and are always color. Then take them out, and wash them in ready to tell all they know, and sometimes a little clear water. Line the bottom of your kettle with more; but when the onion is crowded upon, I think my legitimate province is invaded.

South Danvers, August 30, 1859.

LADIES' DEPARTMENT.

LEGISLATION IN THE NURSERY.

See the young mother in the nursery with an place. unfolding human character committed to her charge—see her, profoundly ignorant of the phenomenon with which she has to deal, undertaking to do that which can be done but imperfectly them out, rinse them in fresh water, wipe them out, rinse them in fresh water, wipe them out, rinse them in fresh water, wipe them even with the aid of the profoundest knowledge. dry, and put them in jars. She knows nothing about the nature of the emo-allspice, and mustard seed. Cover with cold vinthere where use ends and abuse begins. She is under the impression that some of the feelings are wholly bad, which is not true of any one of them; and that others are good, however far they may be carried, which is also not true of any one of them. And then impression that some of the feelings are wholly bad, which is not true of any one of them; and that others are good, however far they may be carried, which is also not true of any one of them. And then impression that some of them in fresh water, and let them drain. Put them in fresh water, and cover them with cold vinegar.

If it should be preferred, a little spice may be them. And then, ignorant as she is of that with which she has to deal, she is equally ignorant of added to the vinegar, but it discolors the pickles. the effects that will be produced on it by this or A little sugar is a very great improvement. that treatment. What can be more inevitable than the disastrous results we see hourly arising P rooms, commonly called buttons. Cut off the end ence is frequently more mischievous than abso-them, put into it some stick cinnamon, mace, lute passivity would have been. This and that cloves, allspice, and just enough salt to taste, kind of action, which are quite normal and ben. Put the mushrooms in jars. Boil the spice and temper and her own, and produces estrange- Widdifield's Cook Book. ment.

the outward conduct conforms, and thus cultivat-leaving an opening in the centre to let the steam ing hypocrisy, and fear, and selfishness, in place escape.

of good feeling. While insisting on truthfulness, she constantly sets an example of untruth by threatening penalties which she does not in-In conversation with a practical gardener this flict. While inculcating self-control, she hourly

DOMESTIC RECEIPTS.

Pickled Beans.—Select young beans; string and wash them. Make a brine of salt and water I have forborne troubling you with communica-strong enough to bear an egg. Put your beans green cabbage leaves, put in your beans, and as much vinegar and water, or clear water, as will cover them. Lay cabbage leaves over the top; put them over a slow fire, and let them get scalding hot. When they are green, take them out and let them drain. Put them in jars with some allspice, cloves, a little mustard seed and scraped horseradish, and enough vinegar to cover them. Tie them close, and keep them in a cool, dry

PICKLED ARTICHOKES .- First wash your ar-

If it should be preferred, a little spice may be

PICKLED MUSHROOMS.—Select small mush-Lacking the knowledge of mental phenomena, of each stalk; scrape, wash and spread them out with their causes and consequences, her interfer- to drain. Take as much vinegar as will cover eficial, she perpetually thwarts; and so dimin-vinegar, and pour it over the pickles while hot. ishes the child's happiness and profit, injures its Cover them close, as soon as they get cold.-

TOMATO PIE.—Line the sides of a deep plate Deeds which she thinks it desirable to encourage, she gets performed by threats and bribes, little butter, some pounded cloves and nutmeg, or by exciting a desire for applause, considering and half a cup of water. A little flour makes little what the inward motives may be, so long as the sirup richer. Cover the whole with pastry,



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SIMON BROWN, EDITOR.

FRED'K HOLBROOK, ASSOCIATE HENRY F. FRENCH, EDITORS.

NOVEMBER.

"No warmth, no cheerfulness, no healthful ease, No comfortable feel in any member; No shade, no shine, no butterflies, no bees, No fruits, no flowers, no leaves, no buds-November !"



your heart? says, MAY is a to go

through the rest of the

Then it is, that "despair and fell re-

not "be to our bosoms known," take possession patriotism, that hardly a ferror was left to beof us. It is, indeed, a month just "fit for trea- stow upon our "glorious country"-our "beloved sons, stratagems and spoils." Yes - now we fellow-citizens"-and even the "American Eagle" think of it, Guy Fawkes was of the same opin-seemed to droop his wings like the veriest barnion, for-

"O, don't you remember The fifth of November. The gunpowder treason and plot?"

and his parliament were to be sent flying through eye also glances over numerous little items of the air in a manner quite unexpected to them- whole meadows of cranberries being spoiled by selves.

births, and marriages, (we have rather reversed ers of monthly calendars will sympathize with the order, but no matter,) in certain months of these sentiments. the year, than in certain others. We have some- There is a paragraph going the rounds, to the

times wondered whether the "Newgate Calendar" would not show that the dreariest months, are those most productive of crime.

"Salem Witchcraft" has long gone by, but if ever you are disposed to be charitable towards OVEMBER! Doesn't the weak superstition which condemned harmname less old women to be drowned or burnt, it will be strike a chill to of a wild November night. Then, if ever, you If, can fancy the traditionary witch abroad on her as our old friend broomstick, howling in your chimney, and knockthe "Spectator" ing loudly at your window pane!

It is true, there sometimes comes a November month of which so fair, so full of "Indian Summers," that it goes lovers should be- far to redeem its character from the obloquy ware, and those which has been heaped upon it, and if ever we who escape its are authorized to expect such an exception to tender influences the general rule, it should be this year, when may be expected nearly every month has done its best to turn to scathless nought our preconceived notions.

For example, that sweet month of MAY, which year, so November, with its every one expects to come like a fair young bride, fogs and its storms, and its turned out but a sullen vixen of an old wife-and gloomy aspect, is productive of June, with its buds and flowers, and all those quite a different set of feelings. fancy articles with which we are wont to adorn its memory, came and went in a series of drizzly, venge," and various other things which should rainy days. The "Fourth of July" so froze our yard fowl. Certainly no one, taking a prophetic view of August, would have hesitated to intersperse it with dog-days and thunder-showers. How mortifying for such an one to sit, wrapped That ingenious little device, by which King James in his shawl, reading his own article, while his frost, in what ought to be the very heat of dog-Statistics show that there are more deaths, days. Doubtless, all almanac makers and writ-

effect that the earth is receding from the sun, as our feet is lost, or wasted. They will all re-apindicated by the fact that the sun's disc grows pearagain, by-and-bye, in another and more beausmaller, and that according to the records of the tiful form. ancients, it was formerly much larger, we believe four times as large, as at present. If this be true, cheerfully, for although our summer and harvest posterity may see our world only a vast snow- were short, do not our barns and our store-rooms ball. We would fain hope, however, that it is testify that they did not come in vain? It is, the mistake of some drowzy astronomer, who very appropriately, at this season that our Yan-

earth is not supposed to have any tail, and can- here. not, therefore, come under precisely the same

Races of men and animals have indeed become Thanksgiving. extinct, but man has always been man, and the earth's zones have always sustained many of their gather around our Thanksgiving tables, then present characteristics. The world is rather a here's to the memory of our Puritan ancestors! conservative old body, after all, and we would not attribute these variations of weather so much to any radical change in the laws of government, curb chain inside the mouth, from hook to hook, we might call accidental.

word of it would we quote, because

"Lives there a man with soul so dead, Who never to himself hath said"

those lines every fall since they were first written? But it's all of no use, so here they are:

> "The melancholy days are come, The saddast of the year, Of wailing winds, and naked woods, And meadows brown and sere. Heaped in the hollow of the grove, The withered leaves lie dead; They rustle to the eddying gust, And to the rabbit's tread."

it no more than, when we walk through some old ber and November. - Practical Machinist. churchyard, we realize the resurrection for which the silent forms around us are waiting. Death, servation. Not one of all these dead leaves at of New England.

Let us leave the world to its winter sleep, then, looked through the wrong end of his telescope. kee Thanksgiving is appointed—an observance Such is the dependence of the planets on each which is spreading year by year, throughout the other, and upon the sun, the centre of the sys- United States-for as the children of New Engtem, that such a variation might be expected to land migrate to different parts of the Union, they make considerable discord in the "music of the must needs carry the customs of their forefathers spheres." It is true, the comets wander about with them. It is now more than two hundred in an erratic and unexpected manner, but our years since the first Thanksgiving was instituted

Some of us may have forgotten the incidents head! So that we think we are authorized in which produced it, although we learned at school rejecting the idea that we are travelling out of in our histories, how there was a famine in the the region of heat and light. In spite of theo-land, and a time was set apart as a day of fastrizers, so far as we have read, no very marvellous ing and prayer. But a ship laden with provichange has ever come over men, animals, or cli-sions came to them from the "old country," and this day of fasting, was changed to one of

As we, the happy families of New England,

TO CURE HARD PULLING HORSES .- Put the as to some slight causes, which for convenience instead of out. How or why it acts with such considerable effect, I know not; but at times. it Having said thus much, we would not under-trunaway horse, or render the most pulling brute take to predict what the following month is go-quiet and playful with his bit, get a double snafing to turn out, but for our genial views on the fle, rather thick and heavy, the joints rather open; subject see Bryant's perfect little poem. We cut an old curb chain in half, and let it hang down made a solemn compact, internally, that not one from the bottom snaffle joint. When the brute offers to pull or bolt, instantly merely drop your hand; of course, the curb chain will drop between his front teeth; and should the beast savage it, [if any of your correspondents wish to try the effect on themselves, they have only to place a nut between their front teeth and try to crack it, they will soon understand the vast difference between pleasure and pain.] So does the horse; and in a very short time, he will play with the very thing he before tried to savage; and in the end, become, from a vicious brute, a playful and good mouthed animal.—London Field.

AGRICULTURAL EXHIBITIONS FOR 1859. -There have been held during the month of Sep-"The saddest of the year,"—for though life is tember, one hundred and ninety-seven State and indeed locked up in those dry branches, and ly- County Fairs; and there are one hundred and ing at the root of each skeleton tree, we realize twenty to take place during the months of Octo-

QUITE A FARM.—The whole amount of the and its symbols, is all that meet our eye, but in Land Office, for the year ending with the last the one case we have the "sure word of proph-month, is nearly 53,000 miles, or about fifteen ecy," and in the other, the result of repeated ob- million acres, nearly equal to the whole extent

ARTIFICIAL GUANO.

I enclose a recipe for a new fertilizer, which I the largest and best quality. cost of the raw material is about \$10.

VALENTINE'S RECIPE FOR ARTIFICIAL GUANO.

No. 1.	Dry Peat20	bushel
No. 2.	Word A-bes 3	4.6
No. 3.	Fine Bone Oust	- 64
No. 4.	Calcined Plaster 3	
	Nitrate Soda40	
	Sub-liste Ammonia	
No. 7.	Sulpl ate Soda	66

or clean virgin soil.

MIXING.

Mix Nos. 1, 2 and 3 together; then mix Nos. 5, 6 and 7 in four or five pails of water; when dissolved, add the liquid to the mixture of 1, 2 and 3. as in making mortar; when thoroughly mixed, add No 4, the calcined plaster, which will absorb the *liquid*, and bring the whole to a dry state.

to exclude air.

Product, one ton, which will manure 7½ acres

I think the artificial guano would be improved dener's Monthly.

REMARKS.—Will Dr. Reynolds, of Concord, or some other chemical friend, tell us what they think of the above, to be used as a fertilizer?

COAL ASHES AS A FERTILIZER.

The editor of the Boston Commercial Bulletin says he has seen several communications and editorial discussions in the New England Farmer, associations. The effect of these impressions is and is disposed to add to the common stock of more lasting in most cases than the influence and

of great importance to farmers and gardeners, best for the youtuful mind. The most detrespecially those living in the vicinity of cities mined man in every situation of life will, to the and towns where coal is used for fuel. Without latest period of his pilgrimage, be influenced by any pretensions to a practical knowledge of the the early teachings of his mother, if the examp subject, we are tempted to give our experience and the habits of the father are in unison with in a small way. Upon a half-acre of land, partly her counsel and instruction. in grass and partly cultivated, we have tried the experiment as follows, with great success:

In November we cleared out of the cellar ashcs made the previous season from seven tons of states that the ladies of Lima are noted for their anthracite coal mixed with the ashes of one-half extremely small feet, the secret being that the cord yellow pine wood used in kindling; to this infants of the female sex undergo, as a rule, amwas added equal parts of horse manure and loam, putation of the little toe of each foot. So genwell mixed together. A part of this was used at eral is the custom, that many women think that the time upon a piece of grass ground more than five toes on each foot is a state of things pecutwenty years in the sward, put on about two inches liar to the male sex. It is said that a Peruvian thick as a top-dressing, which has this year pro-surgeon is going to London and Paris, where he duced two crops of fine grass, in place of white expects to make a fine harvest. He warrants weed and other nuisances, and the ground has the ladies the timest and most graceful foot, by shown no signs of being affected by the dry means of the above named amputation, and conweather. The balance lay in a heap till spring finement to the house of only one week. The and was used on the cultivated ground both for writer adds, that a custom of this kind prevailed spreading and in the hill.

invariably rotted before the time for digging, this ling the silly mutilation.

year there has been the most productive crop of The sweet corn avintend preparing this week by way of trial. The erages nine feet in the stalk, the leaves of a clear green, and the ears perfectly filled, and so with all the other vegetables in the garden. We believe coal ashes have been rejected without a fair test. The great hue and cry made about their destructiveness to the trees on our Common, instead of leading to careful investigation, resulted in a summary condemnation. The same result might have followed, if lime, plaster, or even If peat cannot be obtained, use garden mould wood ashes had been used, as the coal ashes were, -to the depth of two feet or more, unmixed with loam or sand. We hope the experiment will be fairly tested, as everything which helps build up the tarmer's manure heap is beneficial not only to him, but to those who depend on him for their vegetables.

HOME EDUCATION.

Whatever defects there may be in home edu-Mix under cover, in a dry place. Pack so as cation, it is certain that the exceptions are rare where the moral training of the mother is not according to her her best capacity, for the benefit and advantage of her offspring. Her influence is often counteracted by the habits and examples by the addition of a bushel each of poudrette of the father; but in such case she is not responand dried blood, and shall try its effect. — Gar-sible if her care and teachings are of no avail. Home education, where the parents are united in sentiment, leaves its impression upon the mind and heart which can never be totally obliterated. The principal cause of departure from the path of right is evil associations. The poor mother, engaged in her household affairs, dependent upon her labor for a livelihood, has little time to devote to her children; and as soon as they are able to walk by themselves, they seek playmates, and the youthful mind is readily impressed for good or evil according to the disposition of the information by the following remarks. He says: example of parents. If children were early less subject to such influences, there would be To solve the question affirmatively would be less vice in the world. Home education is the

SMALL FEET IN PERU. - L'Union Medical pretty generally in Paris, some years ago, kept RESULTS.—While in former years the early po-tatoes planted from the same kind of seed have surgeon, who had acquired some celebrity touchFor the New England Farmer.

TYPE---SPECIES---VARIETY.

The word Type is frequently used in science. It stands for an abstract notion, and is not readiy understood. It is that image which we form in the mind, made up of all the traits that are common to a genus, a species, or a group of any kind. Every person forms such a type in his own mind. It may be more or less accurate. It is the idea that springs up at the mention of the word man, or bird, or grass, without the mentioning of the particular man, or bird, or the We have in the type all the habkind of grass. its that are common to all the individuals of the group, leaving out peculiarities; as in all men there is a common form distinguishing them from all other animals, notwithstanding they differ greatly among themselves in height and proportions and cast of countenance. No one individual has all the traits of the ideal image in perfection. What horse is a perfect horse according to the standard we have in our minds? But when one species embodies most the traits of the genus, we speak of it as the type of the genus. The eagle may be said to be the type of the bird.

Species has been defined to be "primordial organic forms." By this we understand the original characteristics of the first created individuals which by a law of nature have been transmitted. Each species comprehends all the individuals which may have descended from one original. The characteristics of many plants and animals have been modified by circumstances of climate has carefully preserved the type of the species, of the best exhibtions of neat stock in the State. and when left to themselves in their native place, the individuals take on their primordial forms

The following facts are important:

1. Species may be modified indefinitely by circumstances-producing varieties.

2. One species cannot be changed into another. 3. No continuous progeny can be produced by the mingling of two species so as to form a new

species.

The first of these facts is the one of the most practical importance to the agriculturist. Al most every plant he cultivates and every animal he uses is a variety or variation from the original type.

There are two questions concerning varieties which it is important that every farmer should plant and animal with which he has to deal.

1. How can valuable characteristics be produced?

2. How can they be preserved and transmitted?

The fleshy root of the beet, the compact head of the cabbage and the large tubers of the potato have, doubtless, been produced by cultivation. That is, by placing the plant in good soil, fertil-

izing it and tilling the ground.

Every species needs especial and peculiar treatment to develop in it desirable properties. In general, horticulturists and florists understand this better than farmers. There is much useful knowledge in existence upon this point which ought to be systematized and diffused. New varieties of potatoes, apples and peaches, are pro- add to the prosperity and reputation of the town. duced by planting the seeds; but the result, so

far as I know, is a chance-no one can tell what kind of cultivation of the seed will give a potato of desired and definite qualities. There is probably much to be discovered on this point.

But when we have an individual of good qualities, how can those qualities be preserved and

transmitted?

We do it in the apple by grafting, in the current by cuttings or layers, in the potato by planting the tubers. In each case the new plant springs from the bud, and may be considered a multiplication of the old plant. New individuals are produced only from the seed.

In the animal kingdom the case is full as important, but the object is not so easily accom-

plished.

There are, however, laws of propagation in the animal kingdom which successful breeders understand, and which are very reliable. No one can see the results of the experiments of Mr. PAOLI LATHROP, of South Hadley, without being convinced that it is possible to combine and render permanent in one variety of cattle, the most desirable characteristics. This can be done only by avoiding, for many generations, the blood being tainted by that of individuals of degraded qualities.

Wilbraham, Sept., 1859.

HAMPSHIRE, FRANKLIN AND HAMP-DEN SOCIETY.

The last annual meeting of this society was and cultivation, producing variety; but nature held at Northampton, and brought together one The Short Horns are the favorite stock in the Connecticut Valley. Their fertile pasture lands, and rich intervales afford them the means of bringing this stock to a higher degree of perfection than is possible in less favored lands. Many noble oxen were exhibited, weighing from 4000 to 5000 pounds per yoke. Of such cattle, their owners may well be proud. When such cattle will spring from the soil, the smaller breeds, the Jerseys, and the Ayrshires, stand but a small chance.

The Address, by Dr. G. B. Loring, "unfolded the true picture of New England Farming Life," with much beauty and eloquence—and indicated be able to answer in respect to every species of a more correct appreciation of the subject than the highly-colored, but untruthful limning in the pages of the Atlantic. The paper of Mr. GREN-NELL, on sheep culture, is of much value and interest. We notice that the East Hampton Farmers' Club "added much to the exhibition by the fine collection of vegetables presented by them," and also by the exhibition "of the plates of apples, most of them of the choicest varieties." An award of ten dollars was made by the Club to encourage future efforts. East Hampton has acquired much celebrity for its fine fruit. The Farmers' Club in that town is a very efficient one, and has done much to promote fruit culture, and thereby

The last paper in the report is an interesting

one by H. J. Hodges, the Secretary, showing any individual a ten dollar bill who will forward the effects of top-dressing, consisting of different to me next spring a native white grape vine, kinds of fertilizers, for the years 1857 and fruit shall not show a well defined lilac tinge 1858, upon seven half acres of grass. Each lot where the sun looks at it. Observe, I say nothwas upon the same kind of soil, and in the same ing of the flavor of the article; it may be a comcondition. The substances used were poudrette, bination of choke cherry and sulphuric acid—no plaster, superphosphate of lime, horse and cow matter for that, only give me a white, native manure, ashes and guano, and one lot was left seedling. without any dressing. The result was, that ashes was the only profitable fertilizer to be used as a top-dressing on such land. The lot upon which the ashes was used, was the only one upon which the increase of hay paid for the fertilizer. is very frequently performed by a careless or ig-The lot upon which the guano was applied the norant smith, whereby valuable horses are often first year, gave 105 pounds more hay than the lamed or injured. Dr. W. Pierce, V. S., in a lot dressed by the ashes. But the guano cost note to the Ohio Cultivator, in alluding to this \$5,24, while the ashes cost but \$2,00. Eight dolard easy, at other times they refuse to stand lars worth of horse and cow manure increased still, while one foot is up—they struggle until it the hay only to the value of \$1,66, leaving a loss is released, and frequently the shoer beats, speaks of \$6,44.

experiments made and reported with the same trouble. accuracy, especially as the idea seems to be gaining ground, that top-dressing is an economical says: Under certain circumstances the muscles way of applying manure to grass land. We have cramp, causing severe pain. Almost at any time no doubt that this is the best mode on heavy, a horse's hind leg may be raised so high, or in such a position, as to cause severe cramping. not moist land; but on light, dry soil, we fear it can to be endured. When a horse has had all the musnever be profitably substituted for occasional cles relaxed by exercise, and stands and cools plowing and re-seeding.

ciety was \$802,25.

For the New England Farmer.

THE FABLED WHITE GRAPE.

of whose existence the public are at intervals in- pricking, etc., until he will never forget it, and formed? To be sure, we have the Rebecca, which often refuses to enter the shop again. might in popular language be styled a "white" | Some horse-shoers have a habit of raising the grape; but what I am in pursuit of, is, that na- foot and leg so high that no common horse can tive "white" grape which is declared to exist in stand it, and thus he will shoe horses half his several localities as a pasture seedling. Has life-time before he knows that the fault is in there ever been such a grape found? does such himself. The awkwardness and ill-temper of some an one any where exist? I have walked many a shoers is sufficient reason to withdraw your patmile to see with my own eye wild grapes, which, in their neighborhood had the reputation of be- The damage done by forcing the horse to stand ing white, but somehow or other they would al- in pain, and the injury to his disposition, is inways insist on blushing in my presence, particu- finitely more injury than to go ten miles, and larly on their sunny side.

Hampshire, stating that he had a native white tience, and seems to sympathize with the suffer-grape for sale, proposed to purchase; I endeaving animal—has little or no trouble, and does ored to dissuade him, but seeing was believing, no damage. and he purchased a vine, and half a peck of the grapes. Alas! for his anticipations, when that shoe, would go by himself to a particular smithy, box was opened in my presence, the grapes and there stand until the shoe was set. I once blushed, as usual! This gentleman planted seed owned a horse that was shed three or four years from these grapes, and the fruit on his seedlings without any trouble—at last he was sent to a recalled to my mind the result of his investment. To help settle for myself the question, whether icated, frightened him, beat and abused him in or not our pastures or forests contained a grape such a manner that he ever after feared to apthat can properly be called white, (the Rebec-proach a blacksmith shop, and if forced to enter ca to be excepted,) I shall be happy to pay to one, would tremble with fear. I think I shall be

JAMES J. H. GREGORY.

Marblehead, Mass., 1859.

HANDLING HORSES WHILE BEING

A most important job, that of shoeing a horse, sharply, swears, and frightens the horse, so that We should be glad to have many more such he must be held by force or abandoned. Another takes his tools and sets his shoes without any

The Dr. gives some of the reasons for this. He quick, an unusual position will most certainly The amount of premiums awarded by this so- produce cramping, and at the same time make him irritable. A horse that has stood for some time in the cold, uneasy, and suffering with anxiety to get home, is in a bad condition to stand the bangs, and often painful position, of shoeing, and too often fretted to that degree that he never gets over it-too often forced to Who has ever found the native "white" grape, stand and endure the pain of severe cramping,

spend a day and pay double price to one who has Some years ago, a relative, on reading an ad-some sympathy, and shoes him without pain-one vertisement by a gentleman residing in New who exercises some reason and judgment and pa-

I once knew a horse that if he was minus a

justified in saying that one-half of the horse-and it taxes my credulity in the potency ascribed sheers are incompetent to the task, saying noth to the moon a little too much to believe her so ing about their workmanship of setting shoes. powerful as to authorize the old sayings about I have no doubt but some fancy shoers are the doing this in the old moon, and that in the new cause of splints, bogs, and curbs, as well as kick-in preference to any other time. It savors too ing, cringing, pulling at the halter, etc. etc.

Reader, if you are the owner of a good horse. go yourself and see him shod, unless you are well lunar influence upon the temperature by remarks acquainted with the shoer, and know him to be in an article in the August number of the monthcareful, patient, mild tempered and humane. ly Farmer, page 380, by N. T. T., of Bethel, Me. Withdraw your patronage from all reverse characters, before you sustain a loss. Never submit much importance to the influence of the moon to, or employ a shoer whose character and in upon the weather, but it seems to be a well estellect is inferior to that of your horse. If you tablished fact that when the moon runs high, as do, you may have him lamed, abused and spoiled. farmers say, it is colder than at other times. It

For the New England Farmer.

VEGETATION AND THE WEATHER.

With the many good things we have inherited from our progenitors, are many foolish notions tant to the cause of science and scientific agrithat have been faithfully transmitted from one generation to another; and among the more common are those in relation to the peculiar in-certaining, for a short time at least, the facts in fluence of the moon upon vegetation and the the matter, taking my old almanacs and comparweather. the more intelligent, there are many who still ad- high," with my thermometrical tables and writhere to them with tenacious faith, and believe ten account of the weather of each day for the that planting potatocs, peas, beans, melons, and last three and a half years, I have the following all plants of similar habits, at some particular results: By taking the mean temperature of age of the moon, is more likely to cause the enthree days when the moon was high or low, (the ergies of the plant to result in the production of day of the maximum or minimum height, and the vines than otherwise; or, in other words, to "un day preceding and subsequent,) and averaging to vines" if planted in the "new of the moon." all the observations when the moon was low, and That this is an idle fancy is altogether probable; comparing them with an average of all the obthough when a crop seems to "run to vines," servations when the moon was high, for three this is ascribed as the cause without further veges and in the moon was high, for three thought, by farmers generally. Peas have grown eighty observations. I find the average of the obin my garden the past season to the average servations to be 22° lower when the moon was height of between seven and eight feet-the high than when she was low; the mean of all highest we or any of our neighbors ever sawand several farmers who saw them, were not slow to remark, "you must have planted them in the high being 47 09°. For the year ending with new of the moon," but to me there appeared sufficient cause for their luxuriant growth in the highly manured soil and a wet season.

The opinion in regard to the moon's influence upon the weather seems to be more general, and the year ending with Aug., 1859, gave a differrecognized by those familiar with Nature's laws and her operations-several meteorologists of note giving countenance to the idea—while the scores of special "signs," based on the form or position of the new moon, must be groundless, as, for example, when the horns of the crescent moon are in such a position that the "old Indian can hang his powder-horn thereon, it will be dry weather, or "it is a dry moon," and rice versa. This occurrence is observed at regular intervals, and de-

"old of the moon." willows, I have no doubt; but that the age of the old of the moon in August to prevent sprouting;" rology, and probably lunar influence has consid

much of belief in unlucky Fridays.

My attention was directed to the subject of is the dread of the farmer that he shall have a frost on the full of the moon, either late in the spring or early in the autumn. He always looks THE INFLUENCE OF THE MOON UPON for it at that time, and no other," etc.; and adds: "Here I believe is an interesting field of inquiry, requiring, to be sure, a long series of observations, but which will result in something impor-

> culture. As I chance to have the means at hand of as-Though generally discarded among ing the "moon runs low" and the "moon runs the observations when the moon was low being 47 31°, and the same when the moon was August, 1857, there was a difference of 1.65° in favor of the theory that the temperature is higher when the moon rurs low; the year ending with Aug., 1858, gave 1.57° against the theory, while ence of .58° in favor of it, as is shown by the fol-

> > OF THE MEAN OF OBSERVATIONS WHEN THE MOON RAN

				Low.	High.
For th	e vear	ending	Aug., 1857	46 65°	45°
4.6	46	"	1858	48.11°	49 68°
6.6	44	4.6		47.17°	46 59°
For th	ree ves	rs end.	Aug., 1859	47.31°	47.09°

Of course, nothing decisive in this matter can pends upon the relative positions of the moon be derived from so short a period of observation as I have given; but that this theory, or rather By many, special power is attributed to the opinion, so prevalent, in regard to the moon's That in August is the best influence on the temperature can be sustained, I time to cut bushes, and eradicate shrub-oaks and am strongly inclined to doubt, although it is not to be denied that the moon exerts a great influmoon has anything to do with it, or renders one ence upon our atmosphere, producing tidal part of the month preferable to another for the swells, as has been reliably ascertained by a long purpose, I beg leave to dissent from, nothwith-series of barometrical observations by men who standing the familiar saying, "Mow bushes in the have devoted much of their attention to meteo-

erable to do in the varied phenomena of the weather, and perhaps in the fluctuations of temperature. Whatever influence the moon does exert is so modified by more powerful, and consequently disturbing causes, that it is rendered so mer about toads, it says: "he rolls up his old complex and obscure that its effects have escaped coat in a pile, and swallows it." the observation of meteorologists hitherto, or at least have resulted in the deduction of no fixed pants, and a friend has seen another do the same principles; and, indeed, the whole science of the thing in precisely the same way, it may be interweather is so complicated that a great length of esting to others to know the process. time must elapse before the establishment of many of its principles.

weather, that the extremes of heat and cold, save inclined to move Presently, I observed him in a very few instances, did not occur either when pressing his elbows hard against his sides, and the moon was high or low, at full moon or new rubbing downwards. He appeared so singular, moon, but during the intervals between; also that I watched to see what he was up to. After that the early frosts in the autumn, or late frosts a few smart rubs, his skin began to burst open, in the spring, did not often occur when the moon straight along his back. Now, said I, old fellow, was high, but as often when it was low, and as you have done it; but he appeared to be uncon-

often at new moon as at full moon.

between two consecutive new or full moons- | hind leg in the same way! He then took th'

OF THE MEAN OF ALL OBS. ON THE MEAN TEMP. OF THREE DAYS AT EACH

		New Moon.	Full Moon
For the year e	nding Aug.	., 185745.91°	44 62°
"	"	185847.86°	48.59°
"		185946.81°	47 19°
For three year	s end. Aug.	., 185943.86°	46.57°

Which gives 2.90 in favor of the prevalent idea that it is colder at full moon than at new moon.

While I am sorry, Mr. Editor, to trespass so er period of observations might probably modi-J. A. A.

TO MAKE STORE VINEGAR.

Springfield, Mass., Aug., 1859.

To make good vinegar, take forty gallons of

have tested the value of the mixture.

For the New England Farmer.

TOADS AND THEIR SKINS.

Now, as I have seen him take off his coat and

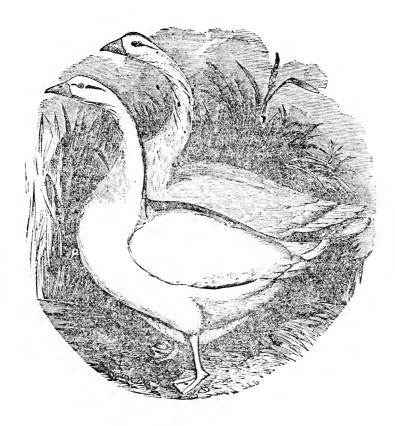
About the middle of July, I found a toad on a hill of melons, and not wanting him to leave, I I noticed, in looking over my record of the hoed around him; he appeared sluggish, and not cerned, and kept on rubbing until he had As the sidereal month, (the time occupied by worked down all his skin into folds on his sides the moon in one revolution about the earth—and hips; then grasping one hind leg with both about 27 days and 73 hours.) is shorter than the his hands, he hauled off one leg of his pants the synodical or lunar month, (the time that passes same as any body would, then stripped the other about 29 days and 124 hours,) the time of the cast off cuticle forward, between his fore legs, infull moon seldom occurs in conjunction with the to his mouth and swallowed it; then, by rising time of the moon's passing nearest the zenith. and lowering his head, swallowing as his head nor new moon when the moon is furthest south came down, he stript off the skin underneath unof the ecliptic. I append a statement or table til it came to his fore legs, and then, grasping showing an average of the mean temperatures of one of these with the opposite hand, by considerthree days of new and full moon for three years, ble pulling stript off the skin; changing hands, embracing seventy-four observations, as follows: he stript the other, and by a slight motion of the head, and all the while swallowing, he drew it from the throat and swallowed the whole. The operation seemed to be an agreeable one, and occupied but a short time. CALEB BATES.

Kingston, Mass., Sept., 1859.

For the New England Farmer.

DRAINAGE.

From inquiries that I have made, I find the cost much upon your patience and the columns of the of laying a tile drain to be hereabouts from fifty Farmer, (if you should choose to publish the ar-cents to one dollar per rod, the drain being laid ticle,) I would be glad to have these things sat- to the average depth of three feet, and well seisfactorily ascertained, and some of these whims, cured from starting at the joints. Unless this is if they be such, exploded; and probably a series done, the whole purpose of the drain will be deof observations covering ten years or more-the feated. Care should be taken not to move with longer the time the better—would do something loaded teams on the surface of the field, so as to towards it; and if any of your correspondents jar the tile from their place; in this respect, or readers have thermometrical tables covering that time, with a little trouble it may be ascertance, than those made of earthen tile. The gentlement of the place is the place in this respect, that time, with a little trouble it may be ascertance, than those made of earthen tile. tained. I have given a few results, which a long-eral belief is, that the water enters through the pores of the pipes, whether more from above than below I am not advised. Of this I am certain, wherever tile operate well, and do what is expected of them in conducting the water-the soil becomes much lighter, more free to break in pieces, and in all respects better fitted for culture. I cannot doubt that the crops on many rain water, one gallon of molasses, and four pounds of acetic acid. It will be fit for use in a few days. Acetic acid costs twenty-five cents per pound. This is the recipe by which most of the pounds. of our fields, now cultivated with vegetablescider vinegar is made, which is sold in the stores. per acre. I know of no mode of improving their interests, more worthy the attention of the far-REMARKS.—Try this in a small way until you mers of New England, than this of draining. Sept., 1859.



THE BREMEN, OR EMBDEN GOOSE.

These beautiful geese were originally from shrinks less in the process of cooking than that Holland, and were introduced here by Colonel of any other fowl." Samuel Jaques, of Ten Hills Farm, near Boston. Mr. James Sisson, of Warren, Rhode Island, The appellation of "Embden" has been obtained says of them, - "Their properties are peculiar; from the town of that name in Hanover. Be- they lay in February; sit and hatch with more yond their great size, and the uniform clear certainty than common geese; will weigh nearwhite of their plumage, Mr. Bement says he is ly, and in some instances quite twice the weight; at a loss for any sign of a specific difference be- have double the quantity of feathers; never fly; tween these and the common goose. In figure and are all of a beautiful snowy whiteness." they are alike, and the bill and legs are of the same brick-dust hue.

The quiet, domestic character of the Embden geese causes them to lay on flesh rapidly; they generally supposed to be very profitable, and so never stray from their home, the nearest pond it probably is, though we doubt whether such THE MANUFACTURE OF COAL OIL.—The manand field satisfying their wants, and much of fabulous sums have been realized from it as their time is spent in quiet repose.

| many imagine. A Mr. Gould, of Rochester, Col. Jaques said of this goose,—"As quality of of manufacture, which a correspondent informs flesh, combined with weight, is a main considerus abounds in misstatements and fallacies, the ation, I wish to mention that the flesh of the writer showing his entire ignorance of the sub-Bremen goose is very different from that of any ject. Mr. Grant assumed that a bushel of Pennof our domestic varieties. It does not partake sylvania cannel coal, costing five cents, yields a of our domestic varieties. It does not partake of that dry character which belongs to the other and more common kinds, but is as tender and cost of labor and fuel in retorting and distillajuicy as the flesh of a wild fowl; besides, it tion, but in point of fact coal suitable for making

Western oil is in bad repute here, the character of the coal being such that it is impossible to get a good burning oil from it. The large manufactories here pay \$20 to \$25 per ton for coal from Scotland, New Brunswick, and Nova Scotia, which yields a good oil. How much profit they make we are not informed. With the present demand for the oil, the profit is doubtless handsome; but the great demand and high prices invite competition, and this will ultimately reduce prices and lead to more economy in the manufacture.—Boston Journal.

CATTLE SHOW AT WESTBORO'.

On Thursday, Sept. 15, the annual agricultural show of the Westboro' society took place in the village of that town. The day was cool but the air clear and elastic, and the good people of that and the neighboring towns, of both sexes, were out in full attendance and fine spirits, to do their part in making it a social gala day, as well as one to show the products of farms. So the cool bracing air brought bloom to many a charming face, and no doubt some of those fine looking young farmers there, found a tumult under their jacket which was anything but disagreeable! The cold made men and animals step nimbly, so that, instead of depressing, it made the scene all the more lively.

First, we witnessed the exhibition of Bolles' Patent Rock Lifter, and found it working just as we had seen it on two or three other occasions, greatly to the satisfaction of all beholders. The cattle pens next attracted attention. In them we found a sprinkling of most breeds common in New England, and, unless we overlooked them, none of pure blood of any kind. But there were that we should rank as among "the best." There ty to speak of it again. were some fine swine and poultry.

tators. The show of pears was exceedingly attions of flowers tastefully arranged, which added the world will probably never know.

oil cannot be obtained for five cents a bushel. a freshness and beauty to the scene that nothing else could have done.

> The collection of vegetables was very goodno better samples of beets, onions, carrots, tomatoes, parsnips, squashes, egg plants, &c., can be produced anywhere. We saw eight splendid squashes, weighing some 350 pounds, the product of a single vine.

> There were 23 entries for the Plowing Match; the work was well done, without hurry or noise, thus affording an example to the farmers worthy of their imitation at home. The trial of the strength and skill of working oxen was numerously attended. There were 20 entries of oxen, 5 of steers, and 4 entries of farm and 3 of carriage horses. A Spading Match was eagerly contested. The Society pays about \$100 in premiums.

The Address was at the dinner-table, and was given by WILLIAM BRIGHAM, Esq., of Boston, but a good cultivator, we understand, on his farm at Grafton during the warm season. The address was an excellent one, and was listened to with close attention by a large audience. The speaker said, "it is labor and economy, not luck, that brings success, and that the door-yard and general appearance of things about the house, will indicate the character of the farm. He said agriculture, like other pursuits, had its periods of prosperity and adversity, but that a period is dawning when labor on the soil will be as amply repaid as that of any other industry. He thought nobler examples of men cannot be referred to, than the last six generations of New England men. He drew an interesting comparison between the agriculture of the last half of the 17th century, and the first half of the 19th, speaking of climate, mode of culture, and habits of living. a good many milk cows presented which would There were only thirty plows in the whole colony do credit to the best farms in the State. We saw in 1633. The address was a decided, bold and some which the people there denominated the plain one, containing many valuable facts and "Sukey Breed," that present excellent points, suggestions, and along with them, two or three and have the general appearance of good milk-opinions not at all in accordance with our own. ers. Several bulls were on exhibition, but none when we see it in print, we may take opportuni-

The dinner was a good one, and good appe-The Town Hall was occupied with fruits, vege-tites waited upon it. After proper attention had tables and flowers, and a crowd of admiring spec-been paid to it, the President of the Society, G. C. Sanborn, Esq., congratulated the company tractive, one gentleman exhibiting over ninety upon the success of the exhibition, spoke of its varieties; some of these were very large and fair. future in hopeful terms, and called upon Mr. The show of apples was creditable, and would be Brigham, the orator, for remarks. Mr. Brigham so to any section of the State. They were nu-honored the call, and was followed by Mr. Brown, merous, of well-known varieties, and were of good Editor of the Farmer, and Dr. Joseph Revsize and shape. A few peaches, plums, cranber- NOLDS, of Concord. At this moment, Time, with ries and crab apples were interspersed, making its inexorable finger, pointed to the hour assigned up a beautiful collection in all. The fruit was for testing the working oxen, and what was left arranged, and labelled with considerable horti-unuttered by the men and women, who looked as cultural skill. We noticed with pleasure collec-though they had whole columns of things to say,

Westboro' is a beautiful town, and has a thrifty and intelligent population. It has many excellent farms, cultivated with intelligence and skill, and they present in their fields, gardens a progressive and prosperous people.

For the New England Farmer.

NEW CHURN---AARON'S ROD.

MESSES. EDITORS:-In a recent number of the Boston Herald, I noticed a "churn" advertised of improved character, which the inventor operated for general inspection each day at "Gerrish Market," adding that it would convert either fresh or sour milk into butter in three minutes! Sure, if any invention can be found, altogether dispensing with the use of cream, and affording butter in so short a space of time, it would be most desirable to obtain, unless the promised product be as that of the fancy farmer, who boasted that, in a few years, manures would be so condensed, that a man could carry fertilization enough in a vest pocket to enrich twenty acres! "Aye! good master," said his servant, "and sure lime per acre-even more will do no harm-at at that time, you may be able to carry all the crops produced, in the 'tother pocket!" Pray, Messrs. Editors, can you bestow on us any information as to a three minute milk churn? Will it perform all its inventor promises? What is the price, and how much butter can be made from a gallon of milk?

I would be glad to learn if any of your readers know of any medicinal virtue in that singular plant "Aaron's Rod," and what is its botanical name? Surely a product of nature possessing such singular properties, could not have been made altogether in vain. Oak Hill.

July 24, 1859.

the family "Sedum," in botany. There are several varieties; the botanical name of the common house-leek is "Sempervivum," or "everlasting."

For the New England Farmer.

FINE POTATOES.

My neighbor Osborn, whom I have long known as a first rate man to mend his own and neighbor's ways, this morning brought me a basket of potatoes, of the Davis Seedling variety. They were planted the 30th of June, fertilized ine Lawton or Rochelle variety, the price of with guano only, plump and fair as a Virgin's them, and how many it requires for an acre? cheek. I mean, a regular built country virgin of sixteen; not your pale-faced, tight-laced, city market generally? exquisite, of twenty-five, who would turn up her nose with a sneer, sooner than lay her delicate fingers on a potato. What I would particularly remark about those potatoes, is, their rapidity of growth, and superiority for quality and quantity. I had some of them cooked to day, and they opened perfectly, and tasted as well as they looked. In these days, when so many mishaps visit the potato, it is a luxury (to us paddy boys) to find those as good as ever grew in old Ireland.

South Danvers, June 13, 1859.

EXTRACTS AND REPLIES.

LIME AND WHEAT-MUCK AND GUANO-HAY-

I regard the Farmer, published by you, as a and dwellings, the most substantial evidences of valuable means of intercourse among farmers. Through it they learn each others' experience in the various departments of agricultural pursuits.

> If lime is sown on wheat, when is the right time to sow it—at the time of sowing the wheat, or some time the next spring, and how much

ought to be sown to the acre?

I practice drawing muck into my barn in the spring, yarding my cows on it, and in the fall I spread it on my grass land. Now I want to know if it would be wise to buy guano and mix with it, before carting, and if so, how much ought to be used, say, for example, in a quantity that will make fifty eart-loads?

I also want to know the price of hay-caps, all ready for use. I have lived in this world more than fifty-five years, and have never seen one yet.

ELIJAH GUNN.

Montague, Mass., Sept., 1859.

REMARKS .- Sow four or five bushels of slaked the time the wheat is sown.

A bushel of guano mingled with an ox-cart load of good, moist muck would form a valuable manure. It depends upon circumstances whether it would be wise for you to use it. If you have exhausted your manure heaps, and have land at a distance from your building that you are quite desirous of bringing up, we have no doubt your crop would be sufficiently benefited by the muck and guano to pay the cost of application. The great advantage, however, to be gained in the use of guano is to cover the REMARKS.—The plant you inquire about, and land, if possible, with a crop of grass, and thus commonly known as "Aaron's Rod," belongs to fill the starved soil with grass roots which supply it anew with vegetable matter. You then have a hasis to proceed upon in getting future

> Hay caps two yards square may be obtained for about 40 cents each. Of a smaller size for a less sum.

BLACKBERRIES.

Will you, or some of your correspondents, please inform me the mode of cultivating blackberries, and also, where I can obtain the genu-

What are blackberries worth per quart in your

Newbury, 1t., 1859. Subscriber.

REMARKS .- Such cultivation as one would give to raise sixty bushels of corn per acre, would be suitable for high blackberries. They may be cultivated in hills, four feet apart, or sustained by rough trellis work of poles or strips of boards. Mr. Lawton usually advertises his plants in the Farmer. Vermont or Massachusetts are too far north for the Lawton. It is a most excellent fruit when ripe, but it needs a longer summer than ours to perfect it. Black-Boston market.

BEANS-SQUASII VINES-WITCH GRASS.

As you are always ready and willing to insert in your paper anything that is profitable or interesting to your readers, I thought I would give you the product of a single bean raised on my place this season. From one stalk I took 58 pods from which I shelled 288 full grown beans, besides quite a number that were not fully developed. Now that is what I call a pretty good yield for New Hampshire soil. This was a stalk pulled up without regard to its being more prolific than others of its kind, and they are what are called the wild goose bean in our parts.

One thing by way of curiosity—we have a squash vine ten or twelve feet long, which is between six and seven inches wide near the end. I do not know of what kind it is, as the seeds came from Washington. The vine has but one squash upon it, which did not make its appearance until about four weeks ago; it is now

green color.

Can you, or any of your correspondents, tell me where I can get what is called by some the til May.
"Phin" grass, by others "Dog," and still others
"Witch" grass seed, and at what price per bush1 inch o GEORGE MORRISON.

Franklin, N. H., Sept., 1859.

REMARKS.—We have never known the witch ing? grass seed for sale. This grass makes good hay, but it has an Arab's reputation, every man's hand is against it.

DEEP CULTURE.

MR. EDITOR:—At the market in North Andover I met a gentleman of Lowell, who told me he had thirty-five acres under culture, which he had plowed twelve inches deep. He further said he had been accustomed to plow his plain land in this depth for fifteen years. I presume he gets as good crops as any other man, for it is said he nating the pasture shrub known as lamb-kill? has become the wealthiest man in the city in which he lives. Facts are stubborn things.

He still entertains some strange notions about the bugs that destroy the potato and the onions -but these he refers to his lady, who has prac-

ticed philosophy in these matters.

What a fine thing is a good helpmeet in our labors—even if they do lead us into error! Sept. 19, 1859.

ABOUT BARNS.

Your correspondent, "J.W.K.," from Durham, N. H., has given many good ideas about the structure of barns. First, let me say, it can never be expedient to crowd a dozen dozen of eggs into one basket when they can be more safely and conveniently preserved in a dozen baskets. up a brood of chickens this summer, but has now So with a barn for the storing and preservation left her vocation of cackling, and taken up that of hay. No sensible man will ever think of put- of crowing; she "flaps her wings and crows" as ting 500 tons of hay under one roof, when it lustily as Chapman used to at the result of the can be much easier and more safely secured under ten. "Verbum Sat Sapientis." Why she thus unsexes herself, and assumes airs

FENCE POSTS-SWAMP LAND.

I wish to inquire of you, or some of your inberries will average at least ten cents a quart in telligent readers, the best time to cut ash or hemlock for fence-posts?

Also, what shall I do with a piece of swamp land that is made dry, and don't bear as good grass as before it was ditched—muck from one to five feet deep-never was flowed?

JOHN W. TOWNSEND.

New Lisbon, N. H., Sept., 1859.

Remarks.—September, we have always understood, is a good time to cut timber in order to secure durability.

From your account of the swamp land, we should infer that the water had been taken off too low down-leaving the top too dry. If you can stop the flow of water by a slight dam, it may be well to do so, raising the water to within 12 or 18 inches of the surface and see what the effect is on the crops.

SEEDING TO FOWL MEADOW GRASS.

I have several acres of land, which I would about as large as a gallon measure, and of a light like to seed with fowl meadow, but cannot plow or drain, it being on the borders of a very flat stream. It is flowed most of the winter and un-

> Can I seed a small portion by spreading ½ to 1 inch of loam after sowing? if so, how much seed to the acre, and when to sow? If that will not do, will any other way answer, without plow-A Young Farmer.

Waltham, Mass., Aug. 28, 1859.

REMARKS .- If you could seed the land sufficiently early, say in August or first week in September, so that the grass would root well and cover the ground, the winter and spring flowage might not hurt it. We are told by seedmen that one bushel of seed is not too much for an acre.

LAMB-KILL.

Can you give any feasible method of extermi-A. I. Shaw.

Kensington, N. H., Sept., 1859.

REMARKS .- We do not know. It is a difficult matter. The only certain remedy is fire, and then the plow and hoe. Where you cannot introduce the plow and hoe, cut the bushes, burn thoroughly, and rake grass seed into the burnt spots. Perhaps some of our readersfrom their own experience—can recommend a better way; if so, we shall be glad to have them

CROWING HENS.

There is a hen in this town which has brought

so unnatural, is more than I can tell; by some, it is considered as an omen of bad luck; perhaps you or some of your readers can explain the mys-ALPHA.

Brandon, Vt., 1859.

POISON IVY.

I wish to inquire if there is any way that I can rid a meadow of poison ivy? If so, what is the easiest and most effectual way of doing it? Norwich, 1859. A Subscriber.

For the New England Farmer.

TRANSPLANTING PINES.

In the July number, "Oak Hill" inquires how pine trees may be transplanted. I give him my limited experience with two, and two only, which have both lived, and are growing well. In March, 1856, as soon as the frost was out, I went with my wheelbarrow, iron bar and spade, to my pasture, selected a thrifty pine 4 or 5 feet highdrove my spade into the ground around it on a circumference 18 inches or so from the trunk, not perpendicularly, but as much inclined to the ground as my pen now is to the paper I am writing on, (and I hold my pen as I was instructed by that excellent writing master, Mr. Barker, who lived in London, N. H., 25 or 30 years ago.) That done, I pried up the tree, dirt and all, with my iron bar, and hoisted the same (a good solid lift, by the way) into my wheelbarrow; dug a hole in my front yard, set the whole into it, and levelled off-and left it to grow-and grow it did without more care. Yesterday, August 29, I observed it had grown this year upwards of a foot in height. Last March I sat out another in the same way, which is growing well; have not watered either of them. N. C. Berry.

Randolph, Mass., 1859.

LOOK IN THIS MIRROR.

Investing in champagne at \$2 a bottle—an erage will not be far short of forty. acre of good government land costs \$1,25. Investing in tobacco and cigars, daily, one year, think it will scarcely average fifteen bushels to \$50—seven barrels of good flour will cost \$49. the acre of good marketable corr Investing in "drinks," one year, \$100—\$100 the case in all parts of the State.

will pay for ten daily and fifteen monthly peri-

odicals.

\$200-\$200 will purchase an excellent library.

acres of good wild land costs \$500.

Investing in a yacht, including bettings and buy a good improved country farm.

Panies, hard times, loss of time, red faces, bad temper, poor health, ruin of character, misery, starvation, death, and a terrible future may be still remain in large quantities but do not seem avoided by looking at the above square in the to be doing much injury now; they worked hard

A majority of "financiers," in making calculations for the future, watch the importations, exbears. All that is very well, but let them at the verely by dry weather. same time estimate the loss of gold in the maelstrom of extravagance.—Scientific Artisan.

AUTUMN---A DIRGE.

The warm fun is failing; the bleak wind is wailing; The bare boughs are sighing; the pale flowers are dying; And the year

On the earth, her death-bed, in shroud of leaves dead, Is lying.

Come months, come away, From November to May; In your saddest array, Follow the bier Of the dead, cold year,

And like dim shadows watch her sepulchre.

The chill rain is falling; the nipt worm is crawling; The rivers are swelling; the thunder is knelling

For the year; The blithe swallows are flown, and the lizards each gone

To his dwelling; Come, months, come away; Put on white, black, and gray; Let your light sisters play-Ye follow the bier Of the dead, cold year,

And make her grave green with tear on tear. Percy Bysche Shelley.

For the New England Farmer.

FROM NORTHERN ILLINOIS.

MR. EDITOR :-- As our harvest is gathered, and all growing crops in such a state of advancement that a correct idea of the yield may nearly be guessed at, I will offer a short article on the subject for the Farmer.

The wheat crop is not a full one-many are now threshing out wheat and oats; wheat varies much in quantity; while some have scarcely five bushels per acre, others have ten, fifteen and some few twenty and upwards, but the number is small that reaches the last figure. The majority will most likely be under ten. This county will scarcely average ten, and I believe it would be a liberal estimate for the whole northern portion of the State. The quality is generally good, far ahead of last year. Oats are good-the best pieces will yield sixty bushels per acre; the av-

Corn will not be half a crop in this vicinity. I the acre of good marketable corn, but this is not

Potatoes will be a light yield near this place. I am told they are much better in many places Investing in theatrical amusements, one year, not far distant. The hay crop is also much lighter than usual. The importance of this crop is Investing in a fast horse, \$500-four hundred being felt more in this country now, than it was

some years ago.

The chintz bugs did considerable damage to drinkings for the season, \$5,000-\$5,000 will many of the crops; they operated on the wheat first, damaging some fields badly. I do not know of a single field that was clear of them. They went from the wheat into the corn, where they on it a few weeks after wheat harvest. Vegetables of all kinds are much scarcer here than common. The frost of June 5th cut most of the tenports of specie, the ups and downs of stocks, and der plants down, and what few escaped then, the movements of the Wall Street bulls and with what was planted since, have suffered se-

> We have had a very dry summer, having had no rain since early in the season to moisten the

ground to any extent; the dry weather is the is not cultivated enough in training horses. Only greatest cause of our short crops. We had two consider what a team that could walk four miles small showers this month, about the 3d and 19th, an hour, for ten hours per day, could do towards and about the same in June and July; the last hurrying through spring work. shower was the best, and did much for the growing crops and pasturage. I think by deep cultivation this country would stand the drouth well, and would, perhaps, be much better in very wet seasons. There are some fine lands here that would be much improved by good draining. This is a fine farming country, the soil is naturally good, and the surface smooth and beautiful, with plenty of running water, and a competency of timber; fruit-growing seems to be the least successful of any branch of farm operations.

The farmers do not generally take enough interest in this department; we have no fruit this year-even the wild fruit was all killed by the June frost. I think this country much less adapted to successful fruit-growing than any of the Eastern or Middle States, but it is worth while to have orchards and fruit trees for their beauty, if a good crop of fruit is less sure than elsewhere. There are some kinds of fruit adapted to almost any country. Thos. A. Jackson.

Roscoe, Ill., Aug. 29, 1859.

NEW AGRICULTURAL PAPERS.

If the multiplication of journals devoted to the promotion of Agriculture is evidence of real agricultural progress, there can be no doubt but that our people, in nearly every section of the country, are making rapid and real improvement in the art of tilling the soil. Scarcely a week passes but we are greeted by some new friend with smiling face and comely apparel, who has the road by a neighbor's corn-field that had been entered the wide field to labor, help on the great work, and while earning honest bread, to win an honorable fame. We have two of this description before us now. They are not only fair to behold, doing credit to the typographic art of the country, but they are filled, generally, with good, sound farming doctrines, and seasonable suggestions.

The first of these is the Farmer and Gardener, devoted to Agriculture, Horticulture and Rural Affairs generally. A. M. SPANGLER, Editor; published at 633 Market St., Philadelphia. This paper is in quarto form, very handsomely printed and illustrated. The other paper is The Western Farmer's Magazine, monthly, by BIRDSALL Brothers, Chicago, Ill. The editor's salutatory is a long article upon the topics-

"What are the farmers of our country?"

"What ought they to be?"

"How are they to become such?" and he handles them well.

success.

all things, be a good walker. The walking gait corn stand? I can assure any one with entire

For the New England Farmer.

HARVESTING CORN.

Mr. Editor:—If you are not already tired of publishing articles on the above subject, I will venture to trespass this once upon your patience.

In the Farmer of August 6, I noticed a communication from "W. M. L.," in reply to "J. Wood," as regards the best plan of harvesting the corn crop. There is a wide difference of opinion between them, as to the best way of doing the work. I respect an honest difference of opinion on any subject. I do not think it is safe to make an assertion, that cannot be carried out in practice. Does he really mean when he says it is "as much work to cut an acre of stalks, bind and shock them, as it is to cut up the same amount of corn at the roots and bind and shock This is virtually saying that he can harvest an acre of corn, grain and all, while another is harvesting the stalks. I should like to take a job of that kind on a wager with him, or any other New Hampshire man, and if I did not come out a little ahead on the "home stretch," why then I would "acknowledge the corn," and own myself beaten. Then again, he says, "I know, from my own experience, that corn well secured in the shock will cure as sound and bright as that which is suffered to ripen in the butts." From that I respectfully "beg leave to differ," and I will presently show the reasons why.

A few years ago I had occasion to pass along cut up at the roots and shocked about two weeks previous. Some of it was standing up straight, some leaning, some half way over and some wholly prostrate. Having always had doubts of the policy of harvesting corn in that way, I thought I would satisfy myself by a personal inspection of it. I selected a shock that had nearly fallen over, and putting my hand into the middle of it drew out an ear and husked it, showing unmistakably its bad condition. The grain was covered with a white mould, and had a pale flabby look. I came away fully convinced that that was not the best way to harvest corn. It seems to me a little strange, that there are farmers who will deliberately go to work and partly spoil their crops, after a great deal of trouble and expense in raising them; and when I see corn cut up at the ground and shocked in the field, it reminds me of so many monuments of folly.

There is a little more in the article of "W. M. L." that I wish to notice. He says, "besides having advantage of his friend Wood in the saving of time and labor, it is a great convenience in having the stalks and butts together. cannot agree with him in that, for I think it is We wish both papers great usefulness and thinks it an error to let the butts remain standing, because they become hard and dry, and of little value. I think that in raising corn we TRAIN HORSES TO WALK.—The Michigan Far- raise it for the grain, and not for the fodder; mer well observes: "A plow-horse should, above then why not follow nature in part by letting the confidence that a bushel of corn cured in the was not a failure, after all, for the interruption shock, will not weigh so much as a bushel cured which it experienced showed how much the peostanding in the hill.

It would be a good plan, I think, for those who are so inclined, to try the experiment both ways,

Lexington, Aug., 1859. J. Underwood.

THE MAINE STATE FAIR.

The farmers' autumnal festivals have been taking place during the past ten days in such num- Then there were the usual arrangements for bers, that the utmost limit of our columns would scarcely contain a brief account of each. Recording the awards we long since abandoned, as the working oxen; it would be difficult to find the locality where they are awarded. It is our cellence as the teams from the town of Starks. A aim to catch the spirit of the thing, if we can, and herd of Devon cows exhibited by the Shakers of transmit it to the reader, so that he can judge, Lebanon, was very fine. There was also a large without having been present at the exhibition, display of Durham stock, grade and pure, some whether what was said and done will tend to of which was very good. A few full blood Jerpromote the general results which it is desired to seys were presented by Dr. Holmes, editor of gain. In doing this, it will be proper to notice the Moine Farmer, and they are among the first, with some particularity articles of striking ex- we understand, introduced into the State. The cellence, whether they spring from the genius of show of implements and machines contained the inventor, the skill of the mechanic, or the many attractive articles. wisdom of the tiller of the soil; and so, if striking defects in the system of management, or in the execution of plans, occur, it becomes our duty as public journalists to notice them in a proper spirit, and thus the greatest amount of good from the time, talent and money expended, may possibly be secured.

The annual State Fair in Maine opened at Augusta, on Tuesday, the 20th inst., and was to be aspect of the weather on Tuesday resolved itself believe" about it, for the rains descended, the marter. winds blew, and the floods came, and every living thing "caught the dumps" at once. The cat-pecially pleased with a furnace for heating dwelround. The auctioneers grew hoarse while the this in operation at our lodgings, and felt its geicy rain drizzled down their necks, and soon be-nial influences on coming in from the storm. gan to pack up their traps; the jockeys lost all! much to themselves.

But the Maine State Show for the year 1859 time.

ple regard and cherish the festival. It was not a failure, either, because what goes to make up note the result in harvesting, and send in their an exhibition was there, although the people experience for the columns of the Farmer. were prevented from seeing it. Some 500 cattle. 300 horses, 100 sheep, swine, poultry, bees and honey, grains and vegetables, fruits and flowers, household manufactures, paintings and pictures, and a respectable collection of farm implements and machines, were presented to be examined. plowing, drawing, and the exhibition of horses.

The stock, much of it, was excellent, especially they can have but little interest for any beyond an equal number having so many points of ex-

On the evening of the day we were present, a discussion took place at the State House, upon the question-"What is the best breed or race of cattle for the State of Maine?" The discussion was animated and interesting, but assumed a sort of non-committal form, from which few valuable facts were elicited. It was generally conceded that the State has not at present a breed the best adapted to the wants of the people, but none of continued through four days, but the threatening the speakers informed us how such breed is to be secured; it is to come from crossing, but what into a decided storm on Wednesday, and arrest- breeds and races are to be mingled, was not suged its further progress. There was no "make- gested. In this lies the whole difficulty of the

Among the manufactured articles, we were estle would not low, the cocks would not crow, nor lings, where wood is used as fuel, the invention the horses go-it was an effectual damper all of Mr. E. D. Norcross, of Augusta. We saw

Another article was a patent carriage shaft their grit, and the boldest of them didn't believe shackle, for attaching shafts to the axle-tree. It there was a horse on the ground that could trot is a simple invention of Mr. George Kenny, of a mile in ten minutes; the men suddenly came Milford, N. H., -is a cheap, safe, and durable to the conclusion that "discretion is the better article, and allows no noise, such as we hear in part of valor," and departed to get up a flame other attachments. It is highly worthy the attenwithin themselves, or find one at their hotels. tion of carriage makers. We also saw "Torrey's There was a regular stampede among the women, Maine State B.e Hive," and the bees at work in and the field, so lately sparkling with feminine it, and formed a high opinion of its value. If beauty and grace, became damp, dull and de-this is confirmed by a more quiet and careful spondent, and the winds and rain had it pretty examination at home, we shall find opportunity to say a word to lovers of the apiary at another

Our stay in the pleasant city of Augusta was made delightful by the generous hospitality, and kind attentions of our old friend EATON, (late pullisher of the Maine Farmer,) and those of his engaged in selecting a pair of chickens from the true New England home.

tural matters, and who are truly benefactors of Frenchman replied that the Americans were very the race. Among these were J. J. THOMAS, one dull in the exercise of their observing faculties, of the editors of the Country Gentleman, Dr. and he suspected that their national love of gold might be the cause of this preference, which was founded on an egregious error. In France, he Messrs Homan and Manley, of the same paper, added, the yellow-legged chickens are considered some of the officers and trustees of the society, unfit to be raised. Their flesh is dry and stringy and gentlemen from Maine and other States. compared with that of the blue, black and white-Several other matters were suggested by our legged fowls, whose flesh is by far the most tenvisit, which we may touch upon hereafter.

DESTRUCTION OF SHEEP BY DOGS.

Legislature, have endeavored to ascertain the to- of yellow legs; those with black, blue or white tal number of sheep killed and injured by dogs legs have a white skin. There are some excepduring the year 1858. The returns from only a tions; but the exceptions are not numerous. I few counties have been published; but these, raise a great many chickens every year for my few as the counties are, disclose a fearful amount own table, calculating to supply it weekly with of slaughter. We append the returns of cleven one pair, from July to February. For two years counties, covering not more than one-eighth of past, I have kept the Black Polands, which are the State:

Counties.	Eilled.	Wounded.	Falue.
Greene	1,259	820	\$3 104
Har. ison	587	1,473	3,086
Delaware		555	1,626
Muskingum		884	3.116
Champaign		5€ ±	0.389
Lorain		156	1.219
Summit		S29	2,459
Lake	412	100	888
Stark	626	719	1.579
Cayahoga		1.112	3,193
Wayne		657	2 152
	7,051	7.860	\$25,342
	1,001	1.000	Sauloza

8,000 injured, at a cost to the owners of over in this part of the country in regard to Indian \$25,000, and all by a pack of curs utterly worth | corn. Is it possible that the Frenchman's satiriless. If the proportion holds good throughout cal jest upon our love of whatever resembles the the State, the annual loss to sheep-growers must color of gold is founded on fact, and that this be about \$200,000, and if all the dogs in the prejudice corries away our judgment? The New State were put together, they would not be worth England people consider the yellow corn the ona tenth part of that sum. We trust that the leg- ly sort that is fit for the table, and believe that islation under which these statistics have been the white kind is fit only for hogs and cattle, gathered will be followed up vigorously, and that the opposite of this is the truth. Meal made some judicious measures will be taken to abute from the white corn is the best both for cakes an evil of such magnitude. Other States will and for puddings, but the yellow corn is more doubtless follow Ohio in any efficient measures fattening when given to domestic animals, and she may adopt. The danger to sheep from dogs is preferred by them to the white. The Southern has for a long time prevented an increase in the sheep-growing business in this country. Many their Indian bread and their hominy are made men who would otherwise engage in it are re-from white corn; and they smile at our simplicstrained from venturing from the risk attending ity, which leads us to prefer the yellow corn. As it in consequence of the dog-pest. If this were the Southerners use Indian corn in a greater varemoved, the business of wool-raising would at viety of preparations for the table than we do, once become a leading and a profitable one .- and are adepts in this branch of domestic econo-Pittsburg Gazette.

For the New England Farmer.

NOTES ON POPULAR FALLACIES.

MR. EDITOR: - Some years since, while I was cheerful and intelligent family. The storm did dressed fowls in a butcher's stall, a Frenchman not disturb the proceedings of the fair, within stood near, and observing that the dealer seemed those doors,—for rational conversation, and song of their bright yellow skin, he remarked that and laugh, blended so harmoniously with every the preference for yellow-legged and yellow-domestic duty, as to afford a beautiful type of a skinned fowls was a Yankee prejudice. The dealer admitted that this might be true, but that it Our visit was also made pleasant by meeting and conversing with several gentlemen distinguished for their zeal and knowledge in agriculary agriculture. Was for his interest to buy the most saleable articles, and he had found by experience, that the yellow-legged sorts could be sold more readily and for a higher price than any others. The der and juicy.

I have, since I heard the Frenchman's remarks, taken every opportunity to put them to a rational test, and have found them to be correct. The The assessors in Ohio, under an act of the yellow-skinned fowls have commonly either green black-legged; the Golden Pheasants, which are blue-legged; White Polands, with white legs, and another sort, allied to the Dorking, with yellow legs. The chickens are all raised and fed in the same way, yet the yellow-legged individuals have almost always been found inferior to the others with white skins. The last are the most tender, delicate and agreeable. There are occasional exceptions, but so frequently are the yell w-legged chickens dry-meated compared with the others, that I am surprised that our own countrymen have not discovered the fact.

Here are over 7,000 sheep killed and nearly It is remarkable that the same prejudice exists my, I think they are better authority than we at

the North, in this matter. I may add that those one of which bears the fertile, and the other the individuals of my acquaintance who have exper-barren flowers. In Indian corn (zea mays) the imented upon the two sorts of Indian corn, have silk in combination with the ear represents the concluded that the Southerners are right.

white ears of corn, when they are in the milk and and are neither male nor female. The ears, if it are boiled for the table, are apparent to all. But be proper to rank them with either sex, after the the community have been very slow in finding flower or silk has decayed, must certainly be all out this fact, and even at the present day, some females, holding their offspring (the seeds) in persons may be found, not apparently deficient their embrace. I cannot say that among farmers in common sense, who still cultivate the yellow there may not be certain ears of corn which are

corn for table use as a green vegetable.

As far as my judgment respecting the quality sexual distinctions exist except in the flowers. of fruits and esculent roots can be formed from their color, it will be found that the nearer the color approaches to white, the more sweet and delicate the flavor. Of beets, turnips, cherries, currants, peaches and grapes, the sweetest are white, or nearly colorless. It is a matter of very common observation that of all the different kinds of potatoes, those with yellow meats are more liable to be rank and disagreeably flavored, and are coarser grained, than the other sorts. The best of all varieties are those with white meat or pulp; a tinge of red or blue is not, however, so bad a symptom as a tinge of yellow. It is not always wise to attempt an explanation of these things; but if I were obliged to guess the why and wherefore of this fact, I should say that the materials which produce sugar in a white beet or a white current, are used up in producing the coloring matter in the red ones. It is also highly probable that the coloring matter of vegetables possesses a flavor peculiar to itself, and not always agreeable. It is evident that the coloring matter of the yellow-meated potato is acid, and the purple coloring matter of the grape is aromatic. I have no doubt that if a white variety of the tomato could be produced from the common stock, it would be found greatly to surpass the red and yellow kinds in delicacy and sweetness.

The color of good butter, which is commonly of a bright yellow, may be considered an excepnot be understood, however, to say that my remarks are applicable to all substances. Butter which is prepared in winter, when the cows are fed chiefly on dry food, is usually light colored, and it is inferior to the bright yellow butter of June. But when the difference in the color of arising from that saving. butter proceeds from the peculiar nature of the cows, the yellow kind is no better than the white. A cow whose flesh contains light colored fat or suet, always produces milk that yields light colored butter, and when the light color arises from this cause, it is no evidence of inferiority.

There is another matter which has been opened for discussion in your paper. I allude to a remark of your venerable correspondent, S. P. Backer. I would not treat his remarks or his opinand friendly answer. With man it has often been ions otherwise than with respect; but cannot otherwise. In wandering over the barren plains avoid speaking of the mistake which he has committed, when he referred to what he chooses to Finland; unprincip ed Russia; and the widecall "male and female ears of corn." As his ob- spread regions of the wandering Tartar; if hunservation has been copied into several papers without comment, it is possible that all persons connected with the press are not aware that there is no distinction of sex in the seeds of corn or any other plants. In the vegetable kingdom sexual distinctions exist only in the flowers, and in some cases in the plants of the diorious order. some cases in the plants of the diorious order, est morsel with a double reliab.

female flower, and the plume or tassel the male. The superior sweetness and tenderness of the The seeds or kernels are the embryo offspring, figuratively called male and female; but no real

WILSON FLAGG.

FEED FOR HORSES.

The London Omnibus Company, says an exchange, have recently made a report on the feeding of horses, which discloses some interesting facts. It seems that the company uses no less than 6000 horses; 3000 of this number have for their feed bruised oats and cut hay and straw, and the other 3000 get whole oats and hay. allowance accorded to the first was-bruised oats, 16 lbs; eut hay, 7½ lbs.; cut straw, 2½ lbs. The allowance accorded to the second-unbruised oats, 19 lbs.; uncut hay, 13 lbs. The bruised oats, cut hay and cut straw amounted to 26 lbs., and the unbruised oats, &c., to 32 lbs. The horse which had bruised oats, with cut hay and straw, consumed 26 lbs. per day, and it appears that it could do the same work as well, and was kept in as good condition, as the horse which reecived 32 lbs. per day. Here was a saving of 6 ths. a day on the feeding of each horse receiving bruised oats, cut hay and cut straw. The advantage of bruised oats and cut hay over unbruised oats and uncut hay is estimated at five cents per day on each horse, amounting to \$300 per day for the company's 6000 horses. It is by no means an unimportant result with which this experition to the facts stated in these remarks. I would ment has supplied us. To the farmer who expends a large sum in the support of horse power, there are two points this experiment clearly establishes, which in practice must be profitable; first, the saving of food to the amount of 6 lbs. a day; and, secondly, no loss of horse power

> Universal Benevolence of Women.—The celebrated traveller, Ledyard, paid the following handsome tribute to the female sex: "I have observed," he says, "that women in all countries are civil, obliging, tender, and humane. I never addressed myself, to them in the language of deof inhospitable Denmark; rude and churlish

For the New England Farmer.

A HARVEST HYMN.

[I asked an excellent young man, who sometimes writes verses, if he could find a hymn for our approacing Agricultural Festival. The next day he handed the following. I submit it for your columns, if thought worthy. It certainly contains good sentiments.]

> Our voices with our hearts we lift To thee, O God, in grateful praise; For every good and perfect gift, A song of gratitude we raise.

Thine is the seed in spring we sow, And Thine the harvest that we see; Sunshine and rain Thou dost bestow, And strength to labor comes from Thee.

Thine is the fragrance of the flowers, And beauty that delights the eye; And Thine the lines of autumn's bowers, Which in transfigured glory die!

The blessings of our homes so dear, Our schools and churches, Lord, are Thine; Thou watchest o'er them, year by year, And purgest still Thy fruitful vine.

God, with all Thy gifts, still give The grateful and the trusting heart; So shall our souls have learned to live, When called from earthly scenes to part.

For the New England Farmer.

MER ALLEN.

After doing justice to a well prepared dinner, Farmer Allen and myself started from the homestead for the purpose of paying a visit to a piece of land that had been drained and reclaimed from the "wilds of nature" into as good a field for it only came to forty-five cents a rod. The seaproducing grass, corn and potatoes as one would son is about three weeks longer on that piece of wish to see, and in going we passed through

THE GARDEN.

cultivated enclosure, where hardly a weed dared erence to stone. The tile once properly laid, is to grow, for the purpose of examining a fine laid for years, and the cost is about double that of Concord grape vine that was climbing over and common bricks. Farmer A. looked anxiously at around a tastily built summer-house. In this, my an impending cloud, for one of Manny's mowing friend assured me, he had spent many happy machines had been doing its effective work in a hours after the labors of the day were over. The five acre lot of heavy herds grass, so we hurried vine was purchased of Mr. Bull, of Concord, to the Mass. Mr. A. prizes the Concord as highly as the Isabella or Catawba; it is a good bearer, and which presented a scene of active interest. One seems better suited to stand the storms and of Carpenter's Patent Horse Rakes was busily at cold of our northern States than any other variety. Continuing on our way we passed near a few hills of the Chinese sugar cane, about which so much has been said and written, both for and hood's days came floating back, and acting under against its introduction, a few years since. Mr. their impulses, I seized a rake, and was soon as A. plants a few hills yearly—his cattle are very busy as any one in raking up the scatterings and fond of it. Leaving the garden, I heard the hum trimmings of the cocks of hay. Caps were soon of the "busy bee," and going nearer, discovered of the "busy bee," and going nearer, discovered several hives facing the south. Two years ago of the man, with a good deal of attention, and am Mr. A. purchased three swarms of bees, and the confident that he put on three hay-caps to a minfirst year he sold nearly enough honey to pay for the first cost, reserving enough for their winter. the first cost, reserving enough for their winter ford me an opportunity in the morning of seeing subsistence.

We now passed over several

MOWING LOTS,

stones with which so many of our farmers emimpatient exclamations about the hay spoiling bellish the surroundings of some of their best out in a heavy rain, and for the remarks, "Just

fields. Every year after having, Mr. A. spends a day or two with a good bush seythe, in mowing all the bushes on his farm. Many of our farmers only do this once in five years, and then the labor is treble; by mowing them every year their growth is soon checked. In a few minutes Mr. A. announced that we were in the

RECLAIMED LAND.

I should not have known it, for the soil was as firm as the highlands. The piece comprises about three acres, and from the time of the "oldest inhabitant" down to within three years, it has been cold and wet lowland, covered with water until late in the spring. It produced about two small loads of poor, coarse hay, fit only for bedding, and the labor of obtaining this was more than it was worth. Mr. Allen had, during the winter of 1855, read an article in the N. E. Farmer (for which he is a regular subscriber) on the many advantages of underdraining, and giving some directions how to proceed in this all-important work. He then gave the subject a careful consideration, and came to the wise determination to make an experiment on the land now before us. After making the necessary preparations, he commenced the work of digging the trenches for the tile, amid the sneers, not only of the anti-book, but anti-progressive farmers in the neighborhood. He laid the tile four feet deep, the tile in the main drain being three inches in A VISIT TO THE HOMESTEAD OF FAR- diameter, and those in the lateral drains being two inches in diameter, and when he had completed the work in the best manner, he sat down to ascertain its cost, and the result, he said, somewhat surprised him. I know it did me, for he said, that including everything, work, tile, &c., land than it was before. Quite an item in our never too long summers. It is now cultivated with less labor and cost, while the profits are I paused a moment after entering the well doubled. Mr. A. recommends good tile in pref-

HAY FIELD,

work in raking the hay into winrows, and several of the men were putting it into well shaped cocks as fast as raked up. Scenes from my boythe difference in the covered and uncovered hav. We had barely time to reach a place of shelter when the rain came down in torrents, but the and I looked in vain for the bushes and piles of hay was safe. I listened in vain for the usual Allen's face looked as pleasant as a spring morn- have mentioned, and they will not be disappointing. Among the many virtues of the hay-caps, ed. Directly alongside of this, another gentlethere is one that I have never seen in print, and man set out an orchard, about the same time, that is, that they save the temper and patience and not fancying dirt upon fruit, he sowed his of the farmer, as well as his hay.

The next morning, after the sun had dried the as large as those first named; and there does caps from the cocks myself, and there was not a dirtied by falling—for I did not discover any on cock of hay in the entire field protected with a the trees. hay-cap that was injured. The hay smelt as Another instance he showed me, of an orchard sweet, looked as bright and felt as dry as if it set about two years since, where the proprietor not stood out all night in a drenching rain. The determined to have something better than any cock left uncovered was drenched-its sweet one else, put several bushels of strong manure odor and light color was gone. It had to be from his barn cellar, and covered it slightly with carefully spread and tossed again, while that dirt. These trees started well at first, but under covered was merely opened sufficiently to let the the powerful heat of the sun, and the excess of steam escape, when it was ready to be taken to stimulation from the manure, have been overthe barn. I was satisfied that the good services done, and from present appearances, will be enof the caps paid their cost in this single instance, tirely done in two years more. Proving what is and that no farmer can afford to do without often found true—that "too much of a good thing

Another time I may write something more of what I saw while paying a visit to the "Homestead of Farmer Allen. FREEMAN.

Sunny Side, Aug., 1859.

REMARKS.—If "Freeman" would be glad to see his articles free from errors, he must write more care.

For the New England Farmer.

CULTURE AND OVERCULTURE.

These were set near his house, by the hands of quarts, I got perhaps half a pint. fruit as any trees I ever saw. So much for keep- calists than the birds. ing the land loose among the trees, and not omit- I have been studying the habits of the robins

my luck," "I don't see what it need rain for, ting judicious fertilization. If any one wants to when I have got so much grass down." Farmer see a handsome orchard, let them visit the one I land to grass. His trees appear to be about half

dew from the grass, I went out and took the not appear to be any hazard of the fruit being

is good for nothing."

September 6th, 1859.

For the New England Farmer.

THE ROBINS.

UTILITY VERSUS SENTIMENTALISM.

MR. EDITOR: -I have recently noticed several more legibly, and construct his sentences with articles in your paper about the robins, those impudent robbers of our gardens. There has been a great deal of fine talk and fine writing about the matin songs of the feathered choirs, and their morning hymns of praise, which is all, doubtless, very pretty, and very artistic, but it On my way from Newburyport, vesterday, I fails to be appreciated by us gardeners who decalled on my friend Hale, of Rowley, to view pend in a great measure for a living on our fruits. with him some specimens of underdraining of wet We are told that the robins live chiefly on the lands, commenced by two of his neighbors. I larva of insects and on worms. I do not disfound the experiments well begun, but the gen- pute the fact that they do eat insects until the themen are too diffident to be named until their fruits afford them a diet that they like much betwork is done; therefore I will say no more about ter. But what is the use of telling us that they the draining, at present. I reminded them that do but little or no harm, when every gardener underdraining need not be confined to low, wet knows that they will, if permitted, take every land, but that it was equally beneficial to high strawberry and cherry from his garden, and with lands that were not generally esteemed wet, all the care he can take, they do actually destroy That the auroral light of draining had just burst or pilfer, at least, half the berries he raises, and out at Exeter, N. H.,—and that Judge French's those the earliest and best. I have a fine bed book, which could be purchased for one dollar, of strawberries, and a good many cherry trees, would tell all they need to know, and more. and the past season, I am sure, the robins took What I particularly want you to know, Mr. at least half my strawberries, notwithstanding all Editor, is, what Mr. H. showed me in the way of the scare-crows and scare-birds we could contrive; culture of fruit trees, on the grounds of his neight, and as for cherries, we did not have one fit to bors, Messrs. Proctor and Morrison. About ten eat. Besides their depredations upon these fruits, years since, Dr. Proctor started the purpose of they made sad havoc of currants and goosebergrowing fruit, and procured from one of the best ries, and picked a large share of my peas. I had sources in North Salem, (Mr. Wade,) a hundred a fine row of the Champion of England peas, or more choice apple trees, chiefly Baldwin, which I left for seed, and where I expected two

Mr. Hale himself, on light land, well fertilized. Now I profess to appreciate music and beauty, The trees were set twenty feet apart, and between but when they are attended with so much annoythe apple trees were placed peach trees, designed ance, it interferes sadly with my enjoyment of to be removed, when the apple trees grew. The them. I can appreciate a fine dish of strawberland has been kept under culture ever since; the ries and a basket of plump, blushing cherries, as trees look healthy and thrifty, spreading, on an well as music and song. I want them both; but average, sixteen feet in diameter; and what is if I must have the music at the expense of the best of all, are now as handsomely loaded with fruit, I choose to have the music from other vo-

some years, and I find them disposed to be quite domestic in their habits during the breeding season; I think they do not roam far from their lowing as his experience with the buffalo:chosen homes, and that they are apt to occupy the same nests for several years in succession, unrelentingly as I do the caterpillar's nests. I tacle was too tempting for our sportsmen. the pilferers.

lating the letter of the law.

Yours, &c.,

For the New England Farmer.

THINGS THAT I DON'T LIKE TO SEE.

I don't like to see a farmer boasting of his

uphill work for the rising generation.

and then tell what a dull place his village is.

ers would come after them. crows the loudest upon its own coop.

prise in our young men.

ren's to produce them.

duct for half what it costs to produce it, and con-them from a similar catastrophe-to their owners. tinue the same business year after year. It is

coming out at the tip.

them for some profession, they would be a bless-than eat the best of them. ing to him in all future time. Any thing that: you cannot afford to hire done, is not worth do- fine grass known as the buffalo-grass, and is ng. T. J. Pinkham.

Chelmsford, Sept. 5, 1859.

THE BUFFALO.

Mr. Greeley, in one of his letters, gives the fol-

Nearly all day, the buffalo in greater or less or to build in their immediate vicinity. Like numbers were visible among the bottoms of the domestic pigeons, or dung-hill fowls, they seldom Soloman on our right—usually two or three go beyond their accustomed circle, unless driven miles distant. At length, about 5 P. M., we to it by the want of food, until they have ceased reached the crest of a "divide," whence we looked to care for their young. There is a way to do down on the valley of a creek running to the everything that is worth doing, and I think the Soloman some three miles distant, and saw the habits of the robin suggest the way by which we whole region, from half a mile to three miles south may rid ourselves of the nuisance, without in of our road, and for an extent of at least four fringing the sentimental law of our State, and miles east and west, fairly alive with buffalo. as a special favor, I will tell you my secret. In There certainly were not less than ten thousand gathering my apples this fall, I intend to destroy of them; I believe there were many more. Some every robin's nest that I can find, and in the were feeding, others lying down, others pawing spring, I intend to destroy every robin's nest, as up the earth, rolling on it. &c. The novel specthink that by not allowing a robin to breed on wagons were stopped, and two men walked quimy premises, and by urging my neighbors to do etly toward the centre of the front of the herd. the same, I shall soon diminish the number of Favored by a watercourse, they crept up to within tifty rods of the buffalo, and fired eight or ten Now, sir, my secret is out. Some of your ten-shots at the herd with no visible effect. The ander-hearted readers may think it an evasion of imals nearest the hunters retreated as they adthe law-a violation of its spirit; but I cannot vanced, but the great body of the herd was no help it. I intend to protect myself, and my own more disturbed or conscious of danger than if a interests, especially, if I can do it without vio-couple of musquitoes had alighted among them. After an hour of this fruitless effort, the hunters gave it up, alleging that their rifle was so foul and hadly sighted as to be worthless. They rejoined us, and we came away, leaving nine-tenths of the vast herd where we found them. And there they doubtless are sleeping at this moment, about three miles from us.

We are near the heart of the buffalo region large crops without knowing something of their The stages from the West that met us here this evening report the sight of millions within I don't like to see a farmer crowd his fields the last two days. Their trails chequer the with cows as soon as he gets his hay off, and sell prairie in every direction. A company of Pike's his milk for two cents a quart. It will make it Peakers killed thirteen near this point a few days since. Eight were killed yesterday at the next I don't like to see a farmer go by the village station west of this by simply stampeding a herd store to some city, or large place, for his stores, and driving them over a high creek bank, where so many broke their necks. Buffalo-meat is I don't like to see a farmer cart his crops to hanging or laying all around us, and a calf to o market, when, if he would stay at home, purchas-for three months old is tied to a stake fast beside Every cockerel our wagons. He was taken by rushing a her! up a steep creek bank; which so many could I don't like to see a farmer go out of town to not possible climb at once; this one was picked invest his money, and then say there is no enter-up in the melee as most worth having, and taken with a rope. Though fast tied and with but a I don't like to see any body put their own boys short tether, he is true game, and makes at whointo stores, depots, &c., and then advise all young ever goes near him with desperate intent to butt men to stick to the farm; it looks as though the intruder over. We met or passed to-day they liked cheap bread and butter, but wanted two parties of Pike's Peakers who had respective-somebody's bone and muscle but their own child-ly lost three oxen or steers, stampeded last night by herds of buffalo. The mules at the Express I don't like to see a farmer sell any farm pro-stations have to be carefully watched to preserve

I do not like the flesh of this wild ox. It is like going into the farge end of the horn and tough and not juicy. Of course, I remember that our cooking is of the most unsophisticated pat-I don't like to see a farmer urge his sons to tern—carrying us back to the age of the building stick to the farm because he cannot afford to hire of the pyramids, at least—but I would rather help, when, if he would give them a trade or fit see an immense herd of buffalo on the prairie

The herbage hereabouts is nearly all the short closely fed down. We are far beyond the stakes of the land surveyor-behind the usual haunts of

anted by white men until this Spring. Should ne of these countless herds take a fancy for a man-hunt, our riflemen would find even the Express wagons no protection.

VERMONT STATE FAIR.

We have been disappointed in not receiving from some of our numerous and usually attentive correspondents in Vermont, an interesting account of the late State Fair at Burlington. From the reports which we have seen, we suppose it was a good one, equal, and superior in some respects, to any that has preceded it. On Tuesday, the 13th, the weather was exceedingly rough. The correspondent of the Journal says:

All night long the wind blew, increasing to a the breakwater which guards the harbor, dashing, been struck, would have been cut clear through from ridgepole to basement. There was a great fluttering of canvas among the show tents at the Fair Ground, and the Ethiopian Opera Troop of popular institutions, but we have space to had their theatre, stage, scenery, auditorium and all, tumbled into a promiscuous heap.

There were five hundred and forty-five horses, entered-a larger number than was ever enalso a source of great profit.

The total number of Sheep presented was 352. lambs, 14; Long and Middle wool, 119.

milch eows, 4; Herefords, 8; fat cattle, 7.

and a small show of swine.

At half-past 5, P. M., of the second day, Gov. American House, where speeches were made, invention and discovery, working harmoniously

white men. Santa Fe trail is far south of us; and general hilarity prevailed. During the day, ne California is considerably north. Very problethe wind blew a hurricane, with occasional dashes oly the buffalo on Soloman's fork were never of rain and snow flakes. Mansfield Mountain was white with snow, and the lake was churned into soap suds. The air was filled with dust, but notwithstanding all this, there was a respectable attendance in the afternoon.

On Thursday, the third day, the sun rose clear, but through a winter's atmosphere. East and west, the mountain peaks were white with snow. But the Vermonters are not arrested in their movements by trifles, and soon poured in from every quarter to see and be seen, to talk and to hear, and to make their show one of profit and pleasure. So they went through the usual routine with horses, cattle, music, &c., until the hour arrived to listen to the Address by Gov. Banks, when all repaired to the great stand, where Col. gale, and this morning was one of the bluest that NEEDHAM, chairman of the committee of recepcan be imagined. Dark, angry clouds swept tion, recently one of our own citizens, remarked over the sky, rising in dark masses from beyond that the vast assembly present indicated how the Adirondack Mountains. The lake was lashed great was the interest felt by the citizens of the to fury, and the waves dashed at times clear over State in agriculture. There was a time when agand foaming, and churning, till the entire reach riculture was neglected, but science and art had of Champlain was a white expanse. The streets lent helping hands, and had raised it to a higher were lined with branches of trees, and on one of dignity. He spoke briefly of the progress which the streets a tall Lombardy poplar came down had been made, of the interest which had been with a crash, just clearing a house which, had it manifested, and introduced Gov. Banks, who manifested, and introduced Gov. Banks, who was received with hearty cheers.

> The Governor's topic was the origin and growth give only here and there a leading thought of his excellent address. He said:

The Industrial Exhibition should present, in tered at one Fair before. They were, Matched one form or another, the life of the people, and tered at one Pair before. They were, Matthew the character of the age it represents—its pro-horses, 58 pairs; Woodbury Morgan stallions, ducts, its habits, its labor, its leisure. What is 50; Woodbury Morgan mares, 16; Sherman not exhibited in products, should be witnessed Morgan stallions, 68; Sherman Morgan mares in the people themselves. But it is among the wonders of life that the most manifest and inhorses, 24; Hambletonians and others, 60; mares and geldings, 127. Very many of these ed for extended periods of time. The introduchorses were of exquisite form and action, and are tion of machinery, gas, pure water, railways, and not only a great credit to the Vermonters, but many of the common articles of food, have met with such opposition. Products with capacity, to endure every soil and climate, have, by such prejudices, been restricted to special latitudes. The entries were-Spanish Merino bucks, 22; Even in New England, where young men are Spanish Merino ewes, 197; French Merino leaving health and home for the newer country of the West, and a little more land-even in The entries of Cattle were-Durham, 39; New England, one-half of the seil, and sometimes of the best capacity, is, out of custom and Ayrshire, 3; Devons, 21; mixed and native, usage unimproved and useless. The surest methods 39; working oxen, 19 pairs; steers, 21 pairs; od of breaking into such customs, that have held men in poverty, is to bring them together, not There were also about forty coops of Poultry, for a single object, but for every practicable purpose and interest.

The multitudes here to-day are gathered from every part of the State to witness the strength BANKS and Gen. Wool were received by Col. of the State, the extent of its acquisitions, the Needham and Gen. Clark, and escorted to the riches of its industry, the achievements of its in purpose and process with the laws of nature solitudes of Celibates. Let it be seen that if and of God!

and of every age. Welcome all! thrice wel-lionaire, it returns for honest labors the only subcome! This is the day of the people-a regular stantial and permanent independence. Let its bread and butter day. Hosts and guests are one! serene contentment and laughing pleasures, as We come to see and hear, what is, and what is well as its solid compensation of health and hapto be in the kitchen and the parlor for the compiness, be written in our countenances, seen in ing year—what shall be the order of our life, and our enjoyments here, in our industrial festivals, how to accomplish it? What is the size of po- as it is redolent in the atmosphere of our prostatoes, and how many in a hill? How about the perous, laborious, happy homes. rot? (Thank G d, not a sign of it yet.) Where are the fattest cattle, and how are they fed? Who has the fastest nag, and what is his time? had evidently been prepared after much research Let us see the reaper that rides the field like a and thought, as it abounded with philosophical the Italians and French did the Austrians at Solferino? Is there any improvement in the peo- Giddings, of Ohio, and several other distin-ple? Are the young to grow up wiser and bet- guished gentlemen, were present. ter than their fathers? These are the things we desire most to know.

> We are the people! Not one is for a party But all are for the State; The rich man helps the poor And the poor man loves the great. Our lands are fairly portioned, Our products fairly sold, And we are what our fathers were As in the honest days of old.

We come just as we are. There is no shame in us. If we are intemperate, profligate, idle, pondents tell us, by-and-bye, what the several vicious, disorderly, you will see it. If we are quiet, inquisitive and interested—if order vainly State fairs have done to neep or ninder the prosecks for disorder, with a policeman out of em-gress of farming in their State. Indeed, it is ployment to aid her, you will know it. It is vain time, now, that a careful review should be made for a multitude to assume virtues to which it has in every State, and also in their several counno title. We have a life interest in all things ties. Who will do it? If made after proper inbere. It is by them we live, and in the triumphs of industry over all obstacles is our hope of prosperity and happiness. *

Physical recreation is essential to our mental in the cause. and moral culture. It is as essential for artisans and farmers to know how a man with a voice like a willow whistle can be transformed to a fullchested and strong lunged stentor, how tiny limbs and puny frame, by exercise and right I ving, may of tenderloin steaks? One who can hear a mus- ing them in a sound condition. ket-shot at his ear without moving a muscle of Contraction is caused—1st, by cutting away

seen in our own New England homes, life stripped shoeing.

agricultural or industrial toil does accumulate in They come from every walk of life-both sexes our iron coffers the golden sorrows of the mil-

The address was not a superficial one,—but

An esteemed correspondent in Vermont writes us: "It is very gratifying to me to observe the gradual improvements of our people from year to year. These annual gatherings enlarge ideas, improve manners, and practices in agriculture, also. Gov. Banks gave us a magnificent address -sound, sensible, able and practical, and we were all pleased with him as a man."

Will some one of our able Vermont corres-State fairs have done to help or hinder the provices will be more valuable than any other labor

CONTRACTION OF HORSES' FEET.

THE CAUSE AND REMEDY.

The tendency of a horse's feet, in a healthy attain something of the tendons and flesh of condition, is to expand whenever the weight of Hercules, as to know by what process cattle may the body is thrown upon them. Being a very be reared in three years for the market, instead complicated piece of mechanism, they are very of six. Why not? Are not men of as much easily disarranged, and once out of order, are consequence to the world as the most delicious difficult of repair; hence the necessity of preserv-

his face, has an attribute of power which none the bars of the feet, which are the main stays for of us have; and at the first public disaster, a ri-the support of the quarters. 2d, By (opening the ot, or conflagration, or scene of danger, we should beels, as the smith calls it) cutting away a porsee the superiority of his training over ours. If tion of the frog, in consequence of which the every man knew his full capacity of power, it moisture of the frog becomes absorbed, losing would be a different world in which we live.—
its elasticity, and destroying its function, thus ex'Measure us' should be our constant cry. * * * posing the feet to injury by concussion. 3d, By
In conclusion, it was remarked that he had standing upon plank floors. 4th, By improper

of everything but the barest existence and the An ordinary observer will, upon an examination dullest labor-no fruits or flowers-not a shot- of the common shoe, notice that it inclines from gun- not a saddle-horse-scarcely a vegetable without inwards at the heels, the sforming a congrowing nothing that ministers to the beautiful cavity for the feet to rest in; the consequence—all the old sports dropped—not a jest left to is a lateral resistance to the expansion of the throw at a dog. If we hope to retain our young hoofs, when the weight of the animal is thrown men on their paternal acres, we must show them upon them. The effect of this resistance is to that it does not doom them to the joyless labor force the heels together, creating pressure upon of the galleys, the fasts of Anchorites, or the the sensitive parts within the horny case; estabbrittle, and liable to crack, and frequently causing evils of numerous wells of this sort are already corns, navicular joint lameness, bony deposits to seriously felt. The earth is parched up, and bitbe thrown out from the lateral wings or pro-ter complaints come from all quarters. All the cesses of the coffin bones, rendering the animal surface water of the country is drawn off by permanently lame or unsound. These are but a means of artesian wells-drawn down to their

the shoe perfectly flat on the quarters, so as not land is flooded by profuse irrigation. to interfere with the expansion of the feet .-Should contraction already exist to a considerable extent, bevel the shoe slightly outward at the heels, in order to facilitate expansion. Care should be taken not to bevel too much, or bulging of the lower part of the hoofs at the quarters will be the result. The shoe should in all cases heavy, orehard land, full of witch grass? or, be forged and not twisted, as is sometimes done rather, will seeding down be the most effectual to save trouble by the bungling smith. Proper applications, to soften the horny parts and promote elasticity, should also be used. Such preparations are put up in the form of hoof ointments. -R. Jennings, V. S.

For the New England Farmer.

QUALITIES OF THE HORSE.

We should take more pains to breed horses of beautiful carriage, fine proportions, good tempers, courage and docility, than for high, Gilpin speed. We want horses for all purposes, that are not cowardly, that will not take fright; for would probably eradicate the witch grass, but those of that temperament are ever dangerous to whomsoever may use them, and to persons in the streets. Much damage is done, annually, by such horses, to carriages, harnesses and other property. Many limbs are broken and lives lost by blood, health and constitution, also.

The gait of the horse is less easy and graceful when pressed to a high rate of speed. It is much more healthy, pleasant and safe, to ride at a moderate pace, upon a horse of an easy gait. When riding for pleasure, it is more pleasant and safe, at a six mile speed, than at 2.40 or under. Moderate horses are the best, and most comfortable of management, for business and domestic purposes and uses. Those of high speed are more liable to accidents, are more easily injured, are less hardy than others.

Now-a-days, we travel by steam, when we journey, and our swift-winged messages are sent by the aid of electricity.

rearing of horses, is a public injury.

GEO. O. BETTON.

ARTESIAN WELLS INJURIOUS.—The California Farmer condemns artesian wells as a curse in California, in some parts of which they are numerous, being used for irrigating the country for agricultural purposes. The fruit raised by native grapes sent us to taste, and have trans-

lishing fever, by which the moisture of the hoofs the irrigation system is less rich and juicy, and is rapidly absorbed, rendering the hoofs hard, the trees are not so hardy. In Santa Clara the few of the bad effects arising from contraction; channels, and then sent up again in one stream enough, however, to serve our purpose at present instead of ten thousand through the pores of the Remedy.—Preserve a level bearing by making surface earth. Instead of being showered, the

EXTRACTS AND REPLIES.

SEEDING LAND TO GRASS.

Will it answer to seed down a piece of strong, method of killing it out? or try root crop? It has been up two years. READER.

Remarks.--It is too late to seed land to grass this fall, with much certainty of success. Better plow it this fall as late as you can, and then again in the spring as soon as the ground will permit, give it a dressing of compost manure, and sow grass seed with oats or barley. If the land is high, and a gravelly loam, sow with barley; if of a heavier character, use oats.

A crop of roots on such land, well tended, the process would be rather an expensive one.

IMPORTING SCIONS.

Intending to impore a few of the better kinds these affrighted animals. It should be an indictation of apples and pears from the continent I beg ble offence to bring such horses into the market. you to inform me, through your paper, if scions Courage and other good traits and qualities in may successfully be imported? Which would the horse are hereditary, as in the human race, be the best season for it, how long would they We should look to the pedigree for purity of continue fresh, and how should they be packed to prevent their spoiling?

SAMUEL B. TRACY.

Dorchester, Mass., Sept., 1859.

REMARKS .- We have no doubt but scions may be brought here from the continent successfully. We The nurserymen there will probably know how have, thus, the best and most perfect view of the to pack them. A great many of the pear trees country or town through which we may ride. that are imported are undoubtedly six months before they are put into the ground here. Scions properly packed in damp moss, we think would keep plump and fresh for many months, if they were kept in a suitable place.

NATIVE GRAPES.

Swiftness is only a fancy and sportive quality, My object in sending you this box of grapes and too much regard to it, in the breeding and is to know if they are worth raising? They were raised in grass land, and have never been trimmed, or had manure of any kind. If in your opinion there is any kind of native grape any better, you would do me a kindness to give me the names of a few? LEONARD CHANDLER. the names of a few?

Princeton, Sept., 1859.

REMARKS.—We have had many samples of

planted and cultivated the best we come tend in general attention. The soil came from its mouldthe weeds one yet found one worth en- board, completely disintegrated, and the land couraging. The samples you send are sour and plowed looked much like a garden, so complete-form with a hard acid core about the seeds, and foxy, with a hard acid core about the seeds, and are not worth cultivating, because they will re- mium, satisfied as I am, that of the many farmers quire as much care as a grape that all will ac- who witnessed its work, not one went away who knowledge good. The wild grapes make excel- did not decree, in his own mind, this award to it. lent jel y, and tolerably good preserves, but are All the others performed well, but owing to connot fit for the dessert. Manuring will not improve the quality of the fruit much.

HYDRAULIC RAMS.

The promised information is wanted of your Concord. (Mass.) correspondent, concerning hydraulic rams. I want to know what kind of pipe is the best-what size will be necessary to supply twenty cattle—and any other information he can give. PAY.

Bakersfield, Vt., Sept., 1859.

ROCKINGHAM, N. H., FAIR. [REPORTED FOR THE NEW ENGLAND FARMER.]

ten this morning, the farmers, with their wives, people who frequent fairs only to see speed, it is sons, daughters, oxen, &c., were in full attend- proper to state that ere the conclusion of the adance to assist in opening the exercises of the dress, two thirds or four-fifths of those in at its Seventh Annual Exhibition of the Rockingham beginning, had left. Fair.

by Chief Marshal Palmen, composed of the various bands, fire and military companies, and citter the address; this will secure the attendance izens, with town teams from various parts of the of the people to hear the address, and may lead county, bringing up the rear. These teams made the popular mind to entertain more exalted noa very fine appearance, made up, as they were, tions of the aim and end of agricultural improvemostly of the famous "Red Oxen," of New Eng-ments. Duties, in another direction, prevented land.

yokes of cattle, and as each yoke bore a banner, to their homes with a new impression of the digwith the name of its town marked upon it, the nity of their calling. effect was pleasing.

ton men.

The stock pens were well filled, and the various breeds of cattle, Devon, Durham, Jersey and where, and furniture, &c., was not much better. native, were fairly represented, though there were few cattle showing any marked superiority trianism," horse racing, a show of a market fair, of system, either in breeding or feeding. A fair or sale of stock, which a shower and a scarcity of show of horses, sheep and swine completed the buyers brought to an untimely end. In the anlist of stock in the pens.

some fourteen entries of horse and ox teams, close. with plows rigged exclusively for sod plowing. Two of the famous universal plows, and several others, were entered for trial by their respective owners. The land to be plowed was of a light, that character to bring out all the good qualities of a plow, or to fully test the skill of the plow-

confident that this plow will take the first preditions of soil, before mentioned, a sod plow could hardly be said to have had a complete trial. Much must always depend, in a trial of plows, upon the skill which the plowman possesses, in rigging them, or adjusting to the character of the soil to be worked. Many good plows are often condemned and thrown aside as worthless, simply from an ignorance of these requisites.

Immediately after the plowing match, a trot, (for a purse made up out of the society.) was announced; the names of the contesting parties, or the result of the trial, I did not take the trouble to learn, as I do not consider this a part proper

of an agricultural fair.

The address, by Chas. G. Davis, Esq., President of the Plymouth, Mass., County Society, was next in order, and, as an instance how much MESSRS. Nourse, Eaton & Tolman: - At a good, sound address will attract that class of

I would suggest, that if trials of speed are to The exercises commenced with a procession led become the rule at our fairs, the managers shall my enjoyment of Mr. Davis's address. I judge, The Nottingham team had a few very heavy however, that those who heard it through, went

A glimpse at the hall showed that to be the The Hampton team, however, was the attrac-great point of interest. Here is felt the inflution; its car beautifully adorned externally, and ence of woman's hand and taste, in the various infinitely more beautiful within, with the anima-adornments, natural and artificial, which it conted grace and loveliness of the fair daughters of tains. Upon its tables are displayed all imagithat town, all indicated that Hampton women nable productions of the garden and greenhouse, take an interest in agriculture, as well as Hamp-arranged as only woman can arrange to show all their good points.

The mechanical department was almost no-

The second day was devoted to "Female Equesnouncement of premiums, I found that Mr. The plowing match came off at 21 o'clock, P. Weare drew the first for the universal plow, No. M., and was very well attended. There were 121. After this came another race, and then the Yours, very truly, NOMAD.

Exeter, N. H., Sept. 28, 1859.

The attention of the reader is called to an sandy loam, with little or no sward, and not of article in another column upon the meaning of the words "Type-Species-Variety," as constantly used by farmers and gardeners, in speak-The universal plow, entered by JOSEPH H. ing of their various products. There will be a Weare, of Seabrook, soon became the object of better understanding between each other when

understood by those who employ them in speaking of agricultural matters.

AGRICULTURAL SHOWS.

We are desirous to give some notice-even though it be a brief one-of each of the State and county shows, as a record of passing events fat hogs 4; boars 6; sows 10; litters of pigs 7; in agriculture, and in order to afford a means of miscellaneous 26—total 221. Fancy articles 110; contrast in the future. The Monthly Farmer is loaves of bread 40; vegetables 132; varieties of in book form, and is, therefore, convenient for preservation, and each number is stereotyped, so that as editions are exhausted, they are easily tural Fair commences at Powelton tomorrow, supplied. In this, accounts of these shows may be preserved, and they will afford the means of enabling us by-and-by to ascertain what progress amount to \$8000. has been made in the art. But as we are not able to attend all the meetings and report them, of the St. Louis Agricultural and Mechanical we are obliged to refer to the daily papers for Association opened to day, and although a heavy brief sketches of their proceedings. Some of rain fell in the morning, the grounds were visted by about 15,000 people. Nearly every State them we give below.

annual meeting of the East Franklin Agricultu- more than twice as many as any previous fair, ral Society was held at Montague on the 24th. and still more are to be made. Fine horses and cattle crowded the streets, and an endless variety of apples, fruit, roots, melons, perior in quality. The \$1000 premiums for the squashes, fancy articles, and all the other etcet-best roadster bred stallion, and thorough bred address was given by Prof. Ward of Bernardston. animals in the country. Music was furnished by the Montague Brass Band. A dinner was furnished at the hotel, of which about two hundred partook. Speeches Rockport, Ky. The first premium for matched, were made by Mr. Eastman, of the Greenfield horses was taken by Wm. Reed, of Butler county Gazette and Courier, Rev. Mr. Tandy, Prof. Ohio.

Ward, Major Reed, A. D. Hubbard and S. B.

The city is densely thronged, and every train ture of the occasion, it being delivered in a pleasing, off-hand manner.—Journal.

MIDDLESEX NORTH AGRICULTURAL SOCIETY. —The fifth annual exhibition of this society took place on Wednesday, Sept. 20, in Lowell. The number of entries of cattle and stock was much larger and of better quality than on any previous much attention. There were several good spec- the ensuing year: imens of Cotswold, Merino and Smyrna sheep with lambs. The rain interfered very materially with the out-of-door exhibitions. At the appointed hour the officers of the society and the invited guests partook of a dinner in French's Hall. After the cloth was removed an address was delivered by Hon. George N. Bontwell, after Sheffield, Mr. Reynolds, of Concord, and others. Charles O. Whitmore.

MIDDLESEX SOUTH AGRICULTURAL SOCIETY. —The Annual Exhibition and Cattle Show of this Society began on Wednesday morning, Sept. 20, the British Mineral Districts, it appears that the at Framingham. The display of stock was not so good as that of last year. Some of the animals that took premiums last year, were entered toos; the estimated value of the coal at the mines of the stock of the coal at the mines of the stock premiums last year. for this year's prizes. The exhibition of vegeta- was \$97,433,380. The pig-iron produced during bles was very fine, and was much better than was the year was valued at \$64,000,000.

the precise meaning of these words is generally expected, as it was thought the recent winds had damaged it very materially. There were excelent specimens of grapes, and a good display of manufactured articles, carriages and fancy work. The following is a summary of the entries:-

> Plowing, single teams 5; double teams 7; horse teams 5; fat cattle 3; bulls 14; cows 12; milch cows 3; heifers 37; heifer calves 13; working oxen 7; steers 4; carriage horses 15; stallions 7; breeding mares 8; colts 18; farm horses 5; fruit 382-total 654. Total 875.

> PHILADELPHIA, Sept. 26. The State Agriculand will be the most prosperous ever held. The entries are very numerous. All the departments are well filled. The premiums to be awarded

St. Louis, Sept. 26. The fourth annual fair in the Union is represented either by delegates, EAST FRANKLIN AGRICULTURAL SOCIETY .- stock, or in the mechanical and agricultural de-We learn from a correspondent that the second partments. The number of entries exceeds 5000,

The exhibition is unprecedentedly large, and sueras of such a show, filled the town hall. An bull, have drawn here many of the most celebrated

In a ring of twenty draft stallions to-day, the

Pratt. Mr. Ward's address was the great fea- and steamboat comes loaded with additional crowds. Should the weather be propitious, the present will eclipse any fair ever held in the Union.

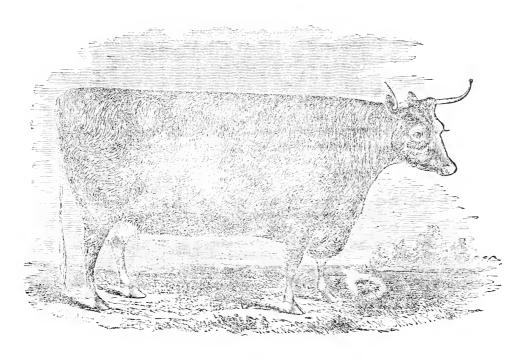
MASSACHUSETTS SCHOOL OF AGRICUL-TURE.

At the annual meeting held recently, the folexhibition. Several fine mares and colts attracted lowing officers of this society were chosen for

MARSHALL P. WILDER President.
RICHARD S. FAY. Treasurer.
CHARLES C. SEWALL. Corresponding Secretary.
ASA FRENCH Recording Secretary.

By the act of incorporation the Trustees of the society are: MARSHALL P. WILDER, BENJA-MIN V. FRENCH, GEORGE W. LYMAN, RICHARD which toasts were given, and responses were MIN V. FRENCH, GEORGE W. LYMAN, RICHARD made by Hon. C. L. Knapp, Mr. Bushnell, of S. FAY, SAMUEL HOOPER, JOSEPH S. CABOT,

COAL AND IRON.—From the official returns of



THE PURE DEVON COW, FAIRY

We have before us the third volume of the Sparrows for New Zealand .- In New Devon Herd Book, containing pedigrees of Dev- Zealand the country, at particular scasons, is inon cattle, with the names of their breeders. It vaded by armies of caterpillars, which clear off the grain crops as completely as if mowed down with a scythe. With the view of counteracting Howard, Esq, a gentleman as well qualified for this plague a novel importation has been made. the task, perhaps, as any other man in the countlet is thus noticed by the Southern Cross:-Mr. try. The publishers, Messrs. Brown, Taggard Brodie has shipped three hundred sparrows on & Chase, Cornhill, Boston, have sent us one of board the Swordfish, carefully selected from the the few copies which comprise the edition, and best hedgerows in England. The food alone, he the few copies which comprise the edition, and informs us, put on board for them, cost £18. This also two of the electrotype cuts which illustrate sparrow question has been a long standing joke it. One of these we gave in a former number, in Aukland; but the necessity to farmers of small and to day we present the reader the portrait of birds to keep down the grubs is admitted on all as symmetrical and perfect a specimen of the sides. There is no security in New Zealand Devon race of cattle as he has probably ever against the invasion of myriads of caterpillars which devastate the crops. Mr. Brodic has all seed. Should be the pheasant, which is abundant. by G. Shapland, of Oakland, England, and is dant in the north. The descent from the pheasnow the property of R. Linsley, of West Mer- ant to sparrows is somewhat of an anti-climax; iden, Conn. Fairy has taken several premiums but should the latter multiply, the greatest benat shows of the Connecticut State Agricultural efit will have been conferred on the country." Society.

Persons who are not familiar with "blood stock," may think such outlines as are presented in this portrait exaggerations,—but we can assure them that they are not, as similar specimens may be seen at most of our State exhibitions, is unknown, but supposed to have been made in and quite often at county fairs. It shows not only what may be accomplished, but what may be continued, by skill and care.

HOW LONG DO WOODEN WATER PIPES LAST? -In excavating for the State Street sewer, the laborers came upon the remains of an ancient system of water works, the exact date of which 1819, '20, or in 1827. The pipes are of pine wood, a foot or so in diameter, and in very excellent preservation. When first reached, the logs retained the bark. Recent discussion rewater pipes, gives to this discovery considerable ing the manure a month, or six weeks, before interest, and it may be important to note all plowing." Upon my suggestion that it was evithese evidences of the durability of such artificial water courses. We are informed that the dent the manure was wasting, occause the occ. corporation of Elmira have adopted wooden aw- was then very strong all about us,-"Certainly," wants of that village. - Rochester Dem.

For the New England Farmer.

SURFACE MANURING.

BY JUDGE FRENCH.

The wheat crop on Lincoln Heath averages near-from various counties of England. who had accily thirty bushels to the acre. This same heath dentally met at the Great Agricultural Fair, and was an open common, a century ago, and so bar- stated to them what I had observed in Lincolnren and desolate, that a tower was creeted in shire. Nearly all of them bore testimony that 1751, and a light kept burning to guide travel- the same practice of spreading minure some lers in the night in their uncertain journeys weeks before plowing, for wheat, prevailed in across the waste. The writer visited this land their respective districts, and so far as I could light-house in July, 1857, and passed a week in learn by observation, the practice is general in the county, with some of its best farmers. It is England, though by no means universal. a beautiful, highly cultivated region, now, abounding in the finest sheep and horses, with this, that they have much less hot weather than broad fields of grain carefully drilled, hoed, and we. Yet there are many bright warm days, and weeded by hand; enclosed with well cut haw- many days of sunshine, with occasional showers; thorn hedges, indicating plainly and surely that and perhaps alternate wettings and dryings fathe farmer there understands his business, and vor decomposition, and loss by evaporation, more that it is not, as it is often with us, a matter of luck than steady, burning heat; and besides, exceptand chance, whether a good crop repays the culling in the summer months, there is not so ture, but a certainty almost, that the well estab-marked a difference between the climits of New fens an entirely different system.

Walking over the fields of "seeds" as this and this was before the middle of July, and there makes such statements as these: it must lie till plowed in, in September. It struck ble, but we have tested it, all of us, again and dung on clay fallows for wheat. *

specting the utility and durability of wooden again, and we know we get more wheat by spreadter pipes for a system adapted to supply the he said, "there is some waste, but not so much, perhaps, as many imagine. The odor is from the ammonia, and a very small quantity is quite perceptible to the senses. A few shillings worth of ammonia from the shops will furnish all the odor we perceive from an acre."

Afterwards, I rode from Salisbury to Stone-Lincoln is one of the best counties in England. henge, in a carriage, with five or six farmers

The climate of England differs from ours in lished system of the county will afford the ex- and Old England. If it be the true policy to appected reward. Their system is that which is ply manure to the surface there, in July and Authere usually called "the four-field system"—gu-t, to be plowed in, weeks after, we might sometimes, the four-course or four-shift system; think better than heretofore, at least, of topof turnips the first year, barley, the second, dressings for grass in autumn in our own coun-"seeds," i. e., rye-grass and clover, and some-try. In Lincolnshire, too, they feed their sheep times vetches, the third, and wheat the fourth, in hurdles on their turnips, and plow in the maand this repeated forever. On the heavy clay nure thus made, with a wheel-plow but two lands a five years' course is adopted, and on the linches deep, to keep it near the top for the barley crop which follows.

The Mark Lane Express, published in London, grass is termed, I observed on the land of one has recently given a series of articles upon maof my friends, that fresh manure from the "creme- nures, insisting that the true mode of applying yard" had already been spread on the surface, manures is upon the surface. The writer boldly

"Mr. Hudson, of Castleacre, Norfolk, states me as a wasteful course, and as injuring the grass the fact from his own experience, that the qualifor the sheep then grazing upon it, and I so said ty of farmyard dung is improved by an expisure to my friend. He is a man of education, and a of months on the surface of the ground; and that practical English farmer, with no other occupa- the crops are better from dung that has been extion but that of husbandry, and farms for profit, and not for fancy. He gave me his views freely and decidedly. "We understand" said he "that the observation is not quite new, though and decidedly. "We understand," said he, "that but little known; and when mentioned it has theory seems to be against us, and that there been completely smothered by the overwhelmmust be a loss of some of the elements of fertili- ing weight of the established dogma on the use of farmyard dung. My own experience is able ty by evaporation, and that it seems more rea to confirm the statement of Mr. Hudson, during sonable to plow in the manure as soon as possi- a long and very extensive practice in using farm

"Mr. Hudson's observation is very much and no loss of nutriment takes place by the mere strengthened by the bean farming of East Lothian, erack county of Scotland. The land is partially wrought in February and March, drills are opened as for green crops, rough but well moistened farm-yard dung is spread along the intervals, the beans are sown, and the drills are reversed. During these operations, the weather, being unsteady at that early season, often interrupts the progress, and leaves the farm-yard dung lying in heaps, and even spread along the drills, exposed to every change of weatherwashed by the rain and snow, bleached by the frost, and dried by the strong winds, for many weeks; the erop of beans has been, in every ease. superior to the lands manured in the usual way."

This writer, however, admits that his notions are not in accordance with those of others. says, after giving other facts to the same point, goes the whole figure for surface manuring. "all the above statements clash with the doctrines of chemistry, and are against even the most approved and settled practice; but facts much these statements may clash with the chem-istry of Kensington or Hanover Square, such ing; at least I would try." * * * facts are stubborn things."

Now, at "Hanover Square" is the office of the Secretary of the Royal Agricultural Society, answer a better purpose for the Professor in where they hold their regular we-kly meetings, and where I had the pleasure of seeing and hear-pumpkins, but not for our crops here. Surface many like angles desired that provide deviation of the Professor in pumpkins, but not for our crops here. Surface many like angles deviation of the Professor in the P ing some of the first agriculturists of all England, and to my mind the writer's admissions ly, like under-draining, become an established that his theories are in conflict with the "doc- necessity in successful farming. trines of chemistry" and "the most approved and settled practice," and his slurs at "Hanover plans of men so far advanced in life as S. W. Square" are rather stranger than his own facts and myself, (Prof. Mapes I have never seen.) Square" are rather stranger than his own faets.

In the Country Gentleman of about Dec., 1857. there stated that

"Prof. Stoekler of the Royal Agricultural College, Cirencester, England, together with Prof. S. W. JOHNSON, of Y de, and several farmers in the State of New York and elsewhere, are, it seems, convinced that manures hauled out and spread broadcast on the soil during late fall and winter, do not suffer any material loss of ammonia, and other plant food, from such exposure; that the evaporation which invariably affeets manure in such conditions, does not carry off any considerable quantity of the elements used as food by the plants, and which therefore, it is desirable to prevent the waste of, whether entific knowledge. The man of science is always such waste results from evaporation or otherwise."

The writer's idea in brief is, that ammonia, the principal substance supposed to be lost by ex-

evaporation of water without fermentation: hence manure does not lose its ammonia by being exposed during the winter, even if it blow and rain and snow and freeze."

If manure be spread, there are certain portions of its fertilizing substances which are washed out by the rains, but which are not thereby lost, but are taken into the soil. I will not attempt to. talk like a chemist, because I am not one, but there are evidently valuable elements of fertility which cannot be evaporated. Common salt is of this class. It may be dissolved in water and exposed to the sun. The water evaporates, but the salt remains. John Johnson, near Geneva, N. Y., He in the Country Gentleman, of June 16, 1859,

"If I had no foul seeds to destroy, and my manure had not a large quantity of straw in it, I would take it right from the yard to a grass field, are stubborn things." And again-"However in April or early in May; spread it on the sur-

> "I notice Prof. MAPES, also, comes out in the N. Y. Tribune against surface manuring. It is possible that plowing down the manure may manuring, like under draining, has to meet with much opposition for a time, but it must ultimate-

"I know it is difficult to change the minds and but surface manuring is gradually getting into favor with all progressive farmers; and before -the date is gone-there is an article by J. W. ten years, will be generally adopted; but there Clark, on "Spring and Fall Manuring." It is may be some, as in the chess question, who may, against all opposition, still stick to the old custom of plowing the manure down a foot deep."

> Here, again, we find the writer's language has a double edge. He advocates surface manuring, and cites Prof. Mapes as authority against the practice. Now, Prof. Mapes is not only a man of science, but one of the most successful farmers in getting a profit from his land, within my knowledge, and so we cannot help having more faith in science illustrated by practice, than in practical results by men who pretend to no scia more accurate and reliable observer than the merely practical man.

The object of this article is not to talk dogmatically, but rather to present fairly the views posure of manure to the air, is not set free ex- of "good men and true" who differ in their ideas. cept by fermentation, and that considerable heat Perhaps my own opinion should be given. I will is requisite to produce this fermentation, and state my practice, which I see no occasion at that manure exposed in winter would not there-present to change. For grass, I prefer to lay fore lose much by this process, "because fermen- down my land in August or September, either tation is prevented by the cold air of this season, with winter rye or nothing, as winter wheat does

not thrive with me. If I break up sward land, 1 of board or plank, nicely fitted in, so as to preand do not like to put the manure so deep, as such a plow buries it. I top dress my heavy more, were it not that my land produces white weed and briars and other weeds, and I like to plow it occasionally to give the grass the advantage of them. Where grass is the most valuaable crop, top-dressing is, on heavy lands, though one and three-fourths inch wide, and about three there be some loss of manure, convenient and and a half feet long; and there should be a half profitable. profitable.

I certainly have not yet concluded to spread fresh manure a month exposed to the air in sum mer, before plowing in, though I cannot deny that my Lincolnshire friends may be correct in standard or manger post. This swivel arrangetheir opinion that in their climate and with their system, they get more wheat by this practice. readily judge for yourself where is the best place Still, this method does not yet look right, nor in the strap to confine the half-ring, so as to rensmell right, nor seem right, for our adoption.

For the New England Farmer.

A WELL ARRANGED COW-STABLE.

Sutherland Falls, Vt., Sept. 13, 1859. Hon. F. Holbrook:—Dear Sir,—I am keeping a small dairy of twenty-two cows, and intend to keep about thirty. Will you oblige me by tell ling me the best plan of arranging stables to keep them in? Would it be good economy to stable them nights during the summer, giving them a little extra feed in the stables? What is the best plan for fastening them in the stalls? Yours truly, A. C. Powers.

Brattleboro', Sept. 22 1859.

A. C. Powers, Esq.:—Dear Sir,—I have your favor of the 13th inst., inquiring for a good ar rangement of stables for cows. As I occasionally have letters of similar import, I take the liberty of answering yours through the medium of the New England Farmer, hoping that other persons may thereby find the information they are seeking for in common with yourself.

I would make the manger of your stables about two feet, and six inches wide, and about three feet and six inches long-the latter dimensions, of course, being the width of stall or space in the clear, allotted to each cow. The mangers should be suitably divided off, by partitions, to each animal, so the tyou can feed each one as you please, without the interference of one cow with the food of another. The bottom of the mangers should be elevated three or four inches from the stable floor, for the convenience of the cows when eating. If the sides of the mangers

do not first spread the minure, but turn with a vent meal or other fine messed food from lodgdouble plow, spread my manure, generally com- ing; but a better way would be, to make the post, and plow it in with one horse, lightly, not sides considerably flaring, and then the cattle can disturbing the sod. The same course I pursue and clean them of meal or other fine food. Each on my sandy land for corn and potatoes. I use manger should have an upright post or standard, a donole or Michigan plow even on old ground, firmly set, and roun ed part way up, and with an iron ring to slip up and down on this rounded part, for the purpose of fastening the animal, and of allowing it to raise or lower its head at pleasland grass fields, once in three or four years in ure. The board or plank forming the side of the autumn, with compost, and should practice this manger next to the animal, should be about one foot high or wide, and the ring on the standard should not slip below that height.

Leather straps, with strong buckles and loops, to go around the necks of the cows, are better than chains or stanchels. The straps should be fast to it, by stitching a strong loop on the inner side of the strap, and nearest the end which has the buckle; and then there should be a swivel link, connecting the strap-ring to the ring on the ment prevents the strap from becoming twisted on the neck and choking the animal. der the fastening and loosening of the cow handy and convenient every way. Leather straps will last many years, and are very safe and convenient for tying up the cattle, as well as comfortable to their necks. I have a set which have been in use some fitteen years, and are still as good as new. There is an oily or lubricating substance imparted to them from the necks of the cattle. which preserves the leather perfectly, and keeps oft and pliable.

The floor-planks should be placed lengthwise the stalls, or, in other words, parallel with the way the cows stand; they should be about five feet and six inches long, outside the mangers; and should rise slightly from the rear end to the manger, so that hauids will not stand on them.

There should be a water-tight trench, immediately behind the cows, made four inches deep and about twenty inches wide, in the clear, and extending through the whole range of stables, and lying level from end to end. Here is the place of all places to make compost manure.

Then there should be a walk, of about two feet in width, between the trench and the rear side of the stable.

Throw the manure out of the stable windows, under a shed-roof, or through scuttles in the walk behind the trench, whichever you may prefer, though I should prefer a deep shed, on the south side of the buildings.

Provide a dry, warm place, for the storage of compost materials, conveniently accessible from the stables, and in the summer, or fall, fill the storage-place with swamp muck, dug and piled a few months, or a year previously, so as to have become dry and fine, and a good absorbent of liquids and gases, or with leaves and vegetable mould dug up in the hollows and rich places in are made perpendicular, the right angled or the woodlands. Each day, throughout the fodsharp corners formed by their junction with the dering season, clean out the trench, and then fill bottom should be filled out with narrow strips it again with muck or leaf-mould, putting about

a bushel of it behind each grown animal, and it will become well saturated and mingled with the cattle droppings, and make the very best of manure; indeed, far better than that which is commonly saved in the farmers' stables. No one who has ever fairly tried this method of composting, Danvers, in which he says many hard things would dispense with it, nor would he regard the about the robins. He denounces legislative encourage of fitting up the stable for its angle of the robins. expense of fitting up the stables for it, or of sup- actments to protect these birds, and asserts it as plying the raw material in the trench, as to be the "right and duty" of man to disobey the law, named in comparison with the advantages realiz- by destroying all those birds that taste the ripened therefrom.

the cows in the stables, nights, through the summer and fall, or after the full flush of spring pasland, and its consequent depreciation in value,
turge has passed and find the sum of the pastures. It would undoubtedly be a good plan to tie turage has passed, and feed them at night with and the increase in the price of butter,-are laid green corn, or other soiling crops, raised for that to the poor robin. Really, such an amount of inpurpose. The trench should also be daily filled jury would consign a human being to infamy, if with muck or rich mould. Thus you would interest both milk and manure.

tices in birds? But I am far from believing the crease both milk and manure.

feet and nine inches long. The ox-stalls being made all at one end of the stable-range, no inconvenience will arise from having a jog in the trench where the cow-stalls commence.

Very truly yours, F. Holbrook.

For the New England Farmer.

BLACK KNOT ON PEACHES.

an article in the Farmer on "Doubtful Items in trary all admire them; yet it appears to me that, Culture," by your correspondent, J. M. Ives. if the "germ of the seed is not killed in passing" From some remarks in that article, I infer that through the digestive apparatus of birds, the he has had much experience in testing different yellow bird deserves a full share of the denunci-varieties of peaches, as well as other fruits, and ation for scattering seeds of injurious weeds. I should be much pleased to see a list of those tried to determine its value?

much troubled by the black knot? Until very eral other species of small birds, occasionally, recently I was not aware that they ever were, but I do not believe the robin would live entirea short time since, while I was looking at a ly upon that kind of food, if he could have his young peach tree, I was much surprised to dis-choice. Indeed, I think I have very good proof cover upon it one of our old enemies, a veritable to the contrary, for during the present season I black knot; it was about two inches in length, have seen a robin fly from the fence, and pick up and was upon the last year's wood; the tree is worms and swallow them, when a cherry tree, only two years from the stone, and is not budded; laden with ripe fruit, was quite as near. Many perfectly healthy and thrifty. I have thought that, ing up every worm and bug that came in their perhaps, the injury which this tree, in common sight. This was in New Hampshire, where, it is with all peach trees, received from the severe true, angle-worms were not as plenty as in some cold of last winter, might have something to do parts of the country, yet robins were abundant, with the production of this knot; yet this tree and fruit was plenty. The great number of indid not appear to have suffered more than the sects which birds destroyed, was generally con-

trees, (American,) being affected by the knot, but mies. Persons called men would kill any small the peach; yet, perhaps, they are not uncommon. or raspberries. I am glad, however, that all are Sept. 20, 1859.

For the New England Farmer.

A PLEA FOR THE ROBIN.

On page 542, vol. 10, of the monthly Farmer, ing fruit.

All the weeds, shrubs and bushes which infest For oxen, the floor-planks should be about six robin guilty of all that is charged to his account. Other small birds are quite as plenty as robins, and some species feed almost wholly upon seeds, without being very particular in their choice. As soon as any seed is grown the common yellow bird may be seen upon plants, gathering his daily food. The lady's flower-bed receives a due share of attention, and in the latter part of summer and in autumn, thistles, mullins, burdocks, and almost every other noxious weed, furnish their quota of food, and we hear nothing about MR. EDITOR: -Some months since I noticed the utility of destroying them, but on the con-

On page 332, vol. 11, is another article writkinds which he esteems most valuable, and parten in the same strain, by a correspondent who ticularly, which among the late ripening varietisins himself "N." The article in entitled, "Orthogonal Control of the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain, by a correspondent who ticularly, which among the late ripening varieties in the same strain. ties he thinks the most profitable. The late nithology," but his animosity to robins seems to Crawford seems to be our standard late peach, have led him from his subject, for I think it but in many places it has proved too unproductive to be profitable. Is there a better late valued that pertains to the science. He says, "To riety? If I remember aright, some years since my mind, the robin possesses no taste, but sethe late Robert Manning recommended a late lects its food to the fancy of its eye," and that peach, called the Welch Freestone. Can your the bird swallows angle worms "only to gratify correspondent give me any information concern- his vicious destructiveness." I am glad the wriing it? Has the Druid Hill been sufficiently ter will admit that the poor bird's destructiveness sometimes leads him to destroy worms. I I also wish to inquire if peach trees are ever will also admit that he eats fruit, and so do sevwith the exception of this knot it seems to be a time have I seen robins follow the plow, picksidered a full remuneration for all the fruit they I have heard of cherry trees, and of wild plum eat, yet there, as everywhere, the robin had ene-I have never heard of their being found upon bird rather than allow it to take a few cherries x. y. z. pot of that class, and that some men can be

found who are willing to give their votes to prevent the wanton destruction of our real friends among the feathered tribes.

unmolested in every garden.

Bloomfield, C. W., 1859.

For the New England Farmer.

HORTICULTURAL HINTS.

CURRANTS-MILDEW ON GOOSEBERRIES-RASPBER-RIES-PEAR TREES-RHUBARB-MANURE-SEED.

Those current bushes that I trail up beside the fence in the manner that grape vines usually are course.

Mildew on gooseberries can be prevented easily, one would think, on r-ading articles in regard to it in the papers, but my experience says different. I think that some varieties are affected, while others are not; one bush in my garden has not been subject to it, and from it I have propagated ten others, which never have been.

Raspberry bushes need looking after; cut the old and weak new stocks off, leaving the strong, healthy ones for the bearers next year; take good care to manure well, and the time spent will well be paid for.

Pear trees whose trunks are protected from the hot sun. I find have made more wood than

those exposed.

If you wish to have rhubarb early, cover up throng that surrounded them. the roots this fall with herse manure; the strength of it, which will get soaked out by the rains, will not hurt the roots.

My three porkers have three wheelbarrow loads of muck each day to convert into manure, which they do by the aid of that which is thrown from the horse and cow to mix with it.

Give heed to the seed which is ripe-do not let the birds gather it, and you be obliged to call on the seedsman to get that which you are not sure is so good. My seed corn I gather from those ears which ripen first. Crops of all kinds look finely.

Cape Elizabeth, Sept., 1859.

Mysteries of the Bank Parlors.—The New York Tribune says, the discount clerk of one of the city banks recently resigned his situation. His resignation was accepted, his accounts plimentary vote passed by the Board for his attention to his duties, &c. He then stated to the Board that he had a communication to make, as a caution to induce them to watch his successor. He stated that, notwithstanding his accounts ploying the funds in the purchase of paper at ties he had enjoyed, he had resigned.

MIDDLESEX CATTLE SHOW.

The sixty-fi/th annual anniversary of this an-Let all who are in any way engaged in mold-cient and honorable society took place at Coning the character of the rising generation, en- cord, on Wednesday, the 28th of September. The deavor to inculcate a spirit of kindness, and I be- heavens were propitious-the solar rays being lieve the time will come when the robin can live softened by an awning of thin intervening clouds, with a kind of half promise from them and the winds, that there would be no present rain. The air was mild, the roads moist and free from dust, so that these, and the charming scenery of the autumnal woods, invited everybody forth to enjoy this time-honored festival of the farmers of Middlesex.

By nine o'clock in the morning, everybody in upon the side of houses, I find yield more cur-the ancient and quiet old town of Concord was rants than those which are left to take their own in motion, and showed that the gala day had be-

The first exercise was that of the *Plowing* Match, which was numerously attended, and contested with much earnestness and skill. There were seven entries of double, three of single, and nine of horse, teams. The trial was one of more than ordinary value, because some of the lands laid out were rough and wet, and thus compelled the workman to show his skill and the team its training. The usual order of things succeeded, such as the trial of working oxen and horses, the cavalcade of horses, then the exhibition of stallions, colts, farm horses and roadsters,-all of which seemed to afford gratification to the

The exhibition in the Hall was greatly admired,-the fruit exceeding what had been anticipated, after a summer of so few fervid suns to ripen up and color it. The show of apples was very good. The fine Maiden's Blush by W. W. Wheildon, of Concord, and several samples of the same by others, the rich varieties of James Eustis, of South Reading, of Asa Clement, of Dracut, of A. G. Sheldon, of Wilmington, B. Stone, of Acton, John B. Moore and J. M. Cheney, of Concord, and the basket of Pumpkin Sweetings of M. K. Prescott, of Concord, could scarcely be excelled in any year.

The show of pears was excellent-not large but made up of good specimens of most of the best varieties. Some of the persons exhibiting in this investigated and pronouced all right, and a com-department, were John Gordon, of Brighton, Jacob Eaton, Henry Davis and Jesse Haley, of Cambridgeport, Walter M. Allen, of North Cambridge, J. B. Moore, A. H. Wheeler, and J. M. Cheney, of Concord. We noticed several baswere all correct at the time of resignation, he had, kets of varieties of fruit, and among them one in fact, been using the bills receivable of the each of great excellence, from Asa Clement, of bank for years as collateral for loans, and em- Dracut, from R. S. Stewart, of Concord, and usurious rates. By this course he had accumu- from Edwin Wheeler of Concord. Only one lated sufficient property to meet his moderate de-|small basket, and a shallow plate of peaches, were sires, and, having no further use for the facili-presented. The basket was from James O. Freelman, of Framingham. The show of grapes was

cord, and George W. White, of North Cam-the world! bridge. The show of vegetables was large, including most that are raised in the gardens or mittees were read, and then the society went inon the farms of our people, and they were of ex- to an election of officers for the ensuing year, cellent quality.

E. L. Reynolds, Concord, presented a Yankee cotton plant in full vigor, with one of the bolls expanded and the snowy cotton streaming out.

Some 100 cattle, and 200 horses, were entered, and among them were many of merit. The show of swine was not large, but we think in quality it most earnest and efficient presiding officer for two We ought not to withhold the names of the per- mer, the attention and thought he has given to sons presenting them. H. G. O. Merriam, of the society has greatly promoted its interests, Tewkesbury had one estimated to weigh 1000 and sustained its ancient and honorable reputalbs., and several others that were excellent. A. tion. The Society, grateful for his past endeav-Upton, of Wilmington, Joseph Derby, J. B. ors, tendered him a cordial vote of thanks. Moore and Cyrus Stow, of Concord, Thomas J. In the exhibitions of this Society there is always Damon, of Wayland, James Pierce, of Lexing-one thing worthy of imitation by all; that is, the ton, and Col. Wm. Hastings, of Framingham, all promptness with which it takes up the several presented animals which gave conclusive evi- exercises of the day as the moment occurs to dence that they are judges of good stock.

of John Brown 2d, of Concord, and the White to accomplish all in one day, and prevents those Shanghais of Charles R. Damon, of Cochituate, unpleasant delays and confusion which always attracted much attention.

For the first time for many years, we believe. the Society did not set down to a regular din-of the day, struck on a little card, and presented ner; there was no lack of provent, however, on to the committees and others, who desired them. the ground or at the hotel near by. At 2 o'clock It was prepared by the President to prevent misa procession, heralded by music, marched to the takes and prevent inquiry, and was found a most Town Hall, where a sound, philosophical and happy expedient. able address was delivered by the Rev. Dr. STEBBINS, of Woburn. It lashed the follies of the times, while it abounded with practical suggestions that must be of value to every farmer, if he will but ponder upon and adopt them. The address was an hour and a quarter long, vet none could be weary or inattentive under the sparkling thoughts that rolled from the rich, full voice of the speaker. We hope to see it printed, and to refer to it again. He was followed by Gov. BOUTWELL, Mr. BROWN, of Concord, Mr. ESTY, President of the South Middlesex Society, Gen. Dana, of Charlestown, and others.

I. F. SHEPHERD, Esq., of Somerville, being Concord, Sept 28, 1850.

very fine, considering the cold season and the un-called on, apologized for spoiling a committee timely frosts of May. Mr. Bull, of Concord, book he held in his hand by concocting a little made a splendid show of the Concord—though agricultural poem, while the orator was speakrather excelled in this by Mr. Clement, of Dra ing; and to punish him for this breach of procut-and of the Black Hamburg, Grizzly Fron-priety the President made him read it, and a tignac and White Nice. It was a little wicked capital thing it was, glowing with onions and in him to tempt us with such forbidden fruit, orchards, cabbages and cattle, pigs, poetry and We do not feel certain that we shall ever drink pumpkins, and many a sly hit at the girls about his health again, unless he finds the wine. Fine their friscttes and curls,-matters that he ought Isabellas were exhibited by George B. Cutter, of to know nothing about. But we overlooked his Weston, bearing the record that the vines had want of gollantry in consideration of the excelnot been girdled. Good samples of the Concord lence of the poem, and made him more than half were also presented by F. A. Wheeler, of Con-promise that we might show the whole of it to

> The speeches being arrested, reports of comwith the following result:-

GEORGE S. BOUTWELL, Groton, President.
GEORGE O. BRASTOW, Somerville, Vice
Andrew Wellington, Lexington, Presidents. JOSEPH REYNOLDS, Concord, Secretary. GEORGE HEYWOOD, Concord, Treasurer.

Col. Keyes, of Concord, who has been the was the best we have ever seen at any place. vears, declined a re-election. Though not a far-

which they are assigned, and the celerity with There was a pleasant display of poultry. That which it goes through them. This enables them attend upon procrastination.

Below we give, as an example, the programme

MIDDLESEX AGRICULTURAL SOCIETY.

CATTLE-SHOW, FAIR AND MARKET DAY.

ORDER OF ARRANGEMENTS.

Plowing Match, at	ctoc k.
Trial of Working Oxen	b 6
Cavalcade of Forses	66
Exhibition of Fruits, &c11	44
" of Stallions11	4.6
" of Coits	66
of Family and Matched Horses12	"
of Farm Horses,	66
of Roadsters1	66
Procession and Address	4.6
Auction Sale3	66
Annual Meeting4	66

JOHN S. KEYES, President.

For the New England Farmer.

COMPOSTING MUCK FOR MANURE.

Warner, N. II., Sept. 22, 1859.

crops?

ashes?

long is it hest to let it remain in heap?

before turning it.

There is not a particle of sand or gravel in it.

of composting will be gratefully received.

Yours, respectfully,

OLIVER N. MOULTON.

REPLY.

Brattleboro', Sept. 28, 1859.

quest may have it in common with yourself.

From your description, I judge that your muck ploy.

muck with lime and salt. This makes an excellent compost for putting in the hills of corn and Muck may be comp

potatoes. At the place where the heap is to be laid up, prepare a temporary lime-bed, of boards if you please, or by smoothing off the ground, and with water handy to the bed. Dissolve the MR. HOLBROOK: - Dear Sir, - Will you in- salt in just water enough to dry-slake the lime, form me of the best means to be used in compost. or cause it to crumble to a fine dry powder, using muck so that it may be used as a fertilizer for ing about one bushel of cheap salt to five or six bushels of fresh lime. Slake the lime no faster I would like to know how much lime that is than it is wanted for a given layer of muck, and slaked in salt water should be used to a load of apply it immediately, while warm by slaking, to muck; also, how much plaster, or if you prefer the muck. Allow one bushel of fresh lime to each half-cord of muck, the lime, however, in-When is the best time to compost it, and how creasing very much in bulk by slaking. A larger proportion of lime may be used, and, indeed, It has been recommended to mix it at the time may be necessary, if the muck is quite green and the ground freezes, and let it remain until spring wet, but one bushel to the half-cord is the least quantity of lime that will properly expel the This muck which we have hauled out was acids of the muck. Pile the muck in thin layers formed in a valley, between two hills which are at a time, say five or six inches thick, and put covered with trees; and when you put in the the right proportion of lime on each layer of spade, it cuts like old cheese when it is mouldy, muck. Make the pile about five feet high, and of a convenient width and length. Do the work Any information in relation to the best modes of composting nicely and accurately, for the value of the heap will much depend upon its proper mixture. After the pile is completed, let it lie two to four weeks, and then shovel it over thoroughly, after which it may lie through the winter. Or you can make the compost next spring, a few weeks before it is wanted for use, shovel-ling it over once. The best time of all, however, MR. O. N. MOULTON: - Dear Sir, - I have to make the heap, is in the hot weather of sumyour letter of the 22d inst., making inquiries mer, as that greatly insures a decided fermentaabout various modes of composting muck to fit tion and decomposition. After being shovelled it for use as a manure. I have several times over, the heap can lie till the following spring, or written articles upon these matters for the New until wanted. But then you are not confined to England Farmer, but even now, occasionally re- any particular s-ason, and can make the comceiving letters of inquiry, similar to yours, I con- post at any time, only give the heap a few weeks' clude to answer you through the Farmer, that age after mixing, and shovel it over well once. other persons desirous of the information you re- If this compost is spread broadcast, apply thirty to forty loads per acre.

Plaster is not valuable for composting with is purely a vegetable deposit, of great value as a muck; but unleached ashes are valuable for that fertilizer, if properly prepared for the purpose. | purpose. If ashes can be procured for not more Muck is not only valuable for its large amount than fifteen to eighteen cents per bushel, perhaps of vegetable matter, as food for plants, but also a given outlay in them, for the purpose of comfor its great capacity as an absorbent of those matters which are so liable to slip away, and bettan the same amount laid out in lime and salt come, in a large measure, lost to the land and If ashes are used, put up the compost heap in crops,-the liquids, gases and salts of the ma-thin layers at a time, as directed in composting nure. To realize the full benefits that may be with lime, and use two bushels of good unleached derived from the use of muck, it is important ashes to each half-cord of muck. A larger prothat it should be dug from the swamp and piled portion of ashes will be well if the muck is con-on dry ground some months before using it in siderably green. Two bushels of ashes to a half compost, and if it could thus lie for one or two cord of old, dry, well pulverized muck, is as good years, so much the better. While in the green as four bushels would be with the same bulk of and wet state, the vegetable matter of which it is muck, raw and wet from the swamp. The same composed is more or less locked up in acids del-|conditions are to be observed in managing this eterious to cultivated plants, and is therefore un-compost, as to the time of mixing, shovelling available to them as food, and its qualities, as an over, &c., as those mentioned for the muck and absorbent, are but in part developed. But give lime mixture. The muck and ashes mixture it age, and the water and acids will in a large makes an excellent fertilizer to put in the hills degree pass out of it, so that it is lighter and ev- of corn and potatoes. I have seen remarkable ery way more convenient for handling, and bet-crops of potatoes, both as regards quantity and ter for becoming the food of plants; and being quality, and continuing very healthy throughout thus dry and finely pulverized, it is, next to pul-the season, raised on old pastures broken up verized charcoal, the best absorbent of the liquids from the sod, and manured with a shovelful of and volatile matters of manure that we can em- this kind of compost in each hill. It is also a good dressing for the ladies' flower-beds, for You inquire particularly about composting trees and shrubs of all kinds, and for lawns and

Muck may be composted with potash. dissolv-

ing the potash in water, and sprinkling the li- parts of muck, if it is old and fine, to one of horse quid upon each layer of muck, while making up manure.
the heap. My friend, Mr. Dudley, of Chester-But I have neither time nor space now to go hills, and with satisfactory results. I have sev- you would like to confer with me about, I shall eral times promised to go and see the corn, while be happy to answer your inquiries. growing under this treatment, and suppose I should have visited him before this time, but one thing and another has prevented. It appears to me that if potash works so well, alone, in the corn bills, it would be still more valuable if suitably composted with good dry muck. I think I shall try it another year. The only rule necessary to observe, as to the quality of potash to be used in the compost, is to keep within reasonable bounds of expense, as compared with other composts.

A mixture of muck with superphosphate of lime makes a good dressing to put in the hills of corn and potatoes. In a recent communication of mine in the Farmer, I described the effects of this compost, as used by my neighbor, Mr. Rufus Clark. By mixing the superphosphate through the muck, and is safer and more effective in the hills of corn than when used alone. A week or two previous to planting-time, mix the two on a floor in a dry place, in such proportions hill, and include a moderate table-spoonful of often called "birds-eye," and is really a most deuse muck which is dry and fine.

Construct your cattle-stables on a plan similar to that which I recently gave in the Farmer to Mr. A. C. Powers, making the stable floor just long enough for the cattle to stand or lie upon a water-tight plank trench, about four inches deep and twenty inches wide, and use your muck daily in the trench during the season that the cattle are stabled, putting about a bushel of it very best ways for making compost; for you thus save the liquids, which are the most valuable part of the manure, you mix the various parts minutely and perfectly and make a large quantity any kind of a crop.

thick over the bottom of your yards and sheds, to become mingled with the manure and litter made in them through the winter, carting out the contents to the tillage-fields in the spring; or, after spring work is over, piling them snugly, for use the next fall or spring. A still better way, however, is to draw the muck by sledding, at two or three different times during the winter, and spread it thinly in the yards and sheds, say three or four inches thick each time, thus exposing it thoroughly to the frost, as well as more perfectly mingling it with the litter and manure.

Put muck into the pig-pens, a little at a time, and often. Put the horse manure in there also, and the pigs will keep it from over-heating and horse manure may, from time to time, at short somely printed and well filled paper—published ing the two in thin layers, and using two or three Price one dollar per annum.

field, N. H., a few miles from here, informs me fully into the various details of composting. It that he has for two or three years past been us- is a large subject. If, however, there are some ing potash, alone, for manuring his corn in the particular points, not touched in this letter, which

> Very truly yours, F. Holbrook.

THE MAPLE.



IIIs is one of the most splendid of American forest trees. There are commonly enumerated three species of the maple, viz .: White maple, Acer dasycarpum, Red Maple, Acer

rubrum, and the Hard or Rock Maple, Sugar Maple, Acer saccharinum. The first is a tall, stately tree of two varieties; one of which prewith old, dry, fine muck, it becomes well diffused sents a straight an smooth grain, and is much used for a variety of purposes connected with the mechanical arts, for ship timber and for fuel; the other is less free in rift, presenting usually grains as to give a large handful of the compost to each more corrugated and convolved. The latter is superphosphate in each handful, being careful to sirable and durable wood. Like the former, it is much used for various artistic purposes, being remarkably hard, firm and ponderous, and capable of receiving a high polish.

The Acer saccharinum, or rock maple, is procomfortably; and immediately behind them have bably the most beautiful and valuable of the three. It is sometimes known by the appellation of the sugar tree. On the banks of the Saco, in Maine, where it imbibes the rich matters behind each grown animal. This is one of the essential to its growth from the inexhaustible deposits contained in the fertile alluvial soil, it attains, ordinarily, a most majestic development. The sugar maple abounds extensively in most of of effective and enduring manure, excellent for the New England States, though it is most common in Maine, New Hampshire and Vermont. In the fall, spread muck six to twelve inches In Massachusetts, it is also quite common, and sometimes constitutes extensive forests which are possessed of great value, both for the wood, which is much prized for fuel, and for fine cabinet work, and for the sap, which is boiled into sugar. The maple is very easily propagated, and when used for ornamental purposes, is unrivalled in the richness of its luxuriant shade. The white maple has a rapid growth, does well on almost any kind of soil, and when transplanted in the spring, and properly tended, grows with scarcely any diminution of vigor.

THE PRACTICAL MACHINIST is a new, handintervals, be composted directly with muck, mix- in New York, weekly, by T. H. LEAVITT & Co.

INVITATIONS---THANKS.

The agricultural festivals of this and other States have taken place this autumn in unusual seems to advise to the use of moderate ones. If number, and have clashed with each other so that in some instances three or four have occurred on the same day. The three great counties of Essex, Middlesex and Worcester, all held their shows at the same time, thus depriving the people of the opportunity of attending the exhibition of their nearest county neighbors.

We have been kindly invited to attend most of the county shows in this State, and to attend the State and county shows in other States. As many of these as we have had opportunity and ably written article from "J. W. K., Strawberry strength to reach, we have attended, found much Bank, Durham, N. H.," upon the construction of the company and but little, though come things, "Our Barns." Will you allow me to say that I to commend, and but little—though some things fear many of your intelligent readers, who have —to condemn. We desire to express our thanks an eye for the practical, and a keen perception of the practical and a keen perception. for invitations to the Vermont, New York, New for the useful, will justly imagine that 'J. W. Hampshire and Maine State societies, and to K." was but throwing out marks for others to the Nantucket, Plymouth, Barnstable, Essex, Shoot at, instead of giving us what we are ever anxious to receive, i. e., practical information upon subjects connected with our farming and lin, Martha's Vineyard, Norfolk, Worcester North our farm buildings. and Bristol county societies, and to various town And allow me to accept the proposition of "J. associations in Massachusetts, and to several county W. K." as regards the three important requisites ty and town societies in other States.

country, and to call attention to any new and a box of berries from that "Strawberry Bank, tain, or warn the managers of these institutions barn.

NEW PUBLICATIONS.

DADD on the Nature and Treatment of the Diseases of Cattle,

keeps ten or a dozen head of cattle, and raises ing of his "horse pitch-fork, and machinery" for two or three annually, must find himself occasion-doing so much of his work? Say, farmers, will ally with a sick animal before him, whom he you give up the floorway? Imagine "J. W. K." wheeling his upon a wheelbarrow. knows little how to treat, so that the anxiety about the creature occasions more trouble than sarily expensive, and when not wanted for other would its actual loss. He cannot judge from uses, may be filled with hay or corn fodder, withsymptoms, and is puzzled to know whether the out a horse-fork, or any machinery whatever. disease is in the head or heart, lungs or liver, or whether he should administer tonics or cathartics, or let nature take her own course, and cure have good cellars, what do you think of this? It if she can. In such cases there is really aid and inconvenient, keep out of it; if costly, make book, treating of the diseases of animals, showing what diseases certain symptoms indicate, ment cannot be made to good advantage, and if them. If this book recommended such terrible ever will be. The manure and muck to be mixed

remedies as similar ones have heretofore contained, we would condemn it at once; but it the usual Homoopathic remedies were added, as they are in Youatt and Martin's work on cattle, the book would be still more valuable. The work is very neatly printed and bound, and ought to be on the table of stock-owners who do not now own one.

For the New England Farmer.

BARNS FOR NEW ENGLAND.

In your paper of Sept. 10 we have a long and

for a good barn, viz: "stowage, stable and ma-We shall be glad to receive the published trans-randol through his unimaginable barn, which reactions of any of the societies in the State, or minds one of the wanderings of a huge ant among useful facts and suggestions which they may con- more than the every day chorcing in a farmer's

And, 1st, our friend "K." objects to our plans of the approach of any insidious foe that we may of barns, and suggests the most common. Let discover from our stand-point, so that this new him consider that a barn without a sizeable floorfabric, reared with so much pains and cost, may way, with a good tight floor, is as deficient as a not be crushed, like those of old, under the house without a cellar or cook-stove. I ask every shields which it assumes for its own protection. reader of the Farmer, how could you dispense with your threshing-floor, spacious, tight and handy? The machine may do the most of our threshing, but the machine is not always at hand for our Indian wheat, buckwheat, peas and beans, with Descriptions and Hlustrations of various Organs and Functions of the Animal Economy. Containing, also, useful and practical Information on Breeding, Ventilation and Diett. By George H. Dadd, Veterinary Surgeon, &c., &c. Boston: John P. Jewett & Co. New York: C. M. Saxton. Every stock-breeder, and even the farmer who in his "clapped up stalls anywhere?" to say noth-

comfort in the possession of a plain, sensible cheaper next time, and if dangerous, fill it with and what medicines ought to be given to cure convenience and profit are consulted, no barn K.'s" muck room is entirely saved, while it will ling. be exactly where wanted for composting.

building a floor over it, is as much as a good wards give us your views upon the most convebarn with ten times as much convenience for nient plan of a common barn for common New making and saving manure ought to cost." England farmers. In most of our New England towns, a good cellar, fifty feet by seventy, and eight feet high, may be dug and stoned in a safe and durable manner, open on one end or one side, at a cost of from one to three hundred dollars. Will "J. effect we expected from it—roused up one mind, W. K." build his great box 30 ft. high and 80 to at least, to the important subject. But "P. J." 100 feet square, of stone, sand and gravel, with- has found it easier to pull down than to build out either floors or conveniences, for ten times up. What is his plan for the 'most convenient this cost? "We say then the most approved and economical plan of a common barn for complan of barns in New England is" not "defective in these two requisites of a good barn."

3. The height of our barns. Where we can so arrange as to drive in above the sills we may world. build higher. But where the ground is level, and we have no "horse-forks," &c., this is about

as high (fifteen feet) as is convenient.

4. The roof. Our barns, generally, are not roofed at an angle of 45°, but about 40° to 42°, and nearly every foot of the space covered is to change common soft soap into hard soap? By available for storage, especially if we have the what means is it done?

A Subscriber. horse-fork, and can pitch as easy 30 feet, as 15, while the cover to "J. W. K.'s" being flat, will render a space of several feet useless for want of room to work his pulleys and ropes. The cost of Leslie's House Book. our friend's roofing, when he takes into account posts, and strength of inside supports to his flat-topped barn, will be found to be no less, either gallon three quarters of a pound of clean kitch-in first cost or future repairs, than a good en fat of the best kind, (that has been clarified for common buildings.

and his barn will be built—never!

into every corner of it (when empty!) and with a ing, and place it on the shelves to harden, not horse pitch-fork, &c." Imagine you see him un-allowing the pieces to touch each other. load one tier of loads over the sand floor, and where will he drive next? No floor-way, no windows. What, then, but to his ever ready wheelskins be among it, you must allow as pound of barrow! Wheel in and wheel out! Well, this fat to each gallon of lye. is an age of improvement. Won't that hav be If in trying it in the plate, before putting in

are here in a position where they can be much As he has no floor, his muck has been wheel-more easily composted than when they are both barrowed into its room, and then so re-wheeled to be wheelbarrowed to a separate room and out. Look, also, to the fact that he is going to there mixed. When "J. W. K." has taken care sell his hay, after making all this preparation for of a stock equal to his 500 tons of hay one winter, keeping stock, and tell me if our cautious editor won't he bless the institution of wheelbarrows? has not admitted to his columns one chapter on Drop the manure from the stable upon the muck, "Book Farming," from a man whose theory will and then throw in more muck, and the work is not bear to be carried out in practice, except by done until overhauled. The space for muck may those whose cash is more plenty than ours. Yet be under the floor, and by dumping it through we need an occasional antagonist in order to the floor the labor of shovelling it into "J. W. wake up sluggish energies, and set us to think-

And now, Mr. Editor, if you can find time and "The cost of digging and stoning a cellar, and space for this hasty review, please do so, and after-

Glover, Vt., Sept., 1859.

REMARKS .- "J. W. K.'s" article has had the mon New England farmers?" That question settled beyond cavil, will be of great value to the

EXTRACTS AND REPLIES.

SOFT, INTO HARD SOAP.

Can you, or any of your readers, give a receipt

East Wallingford, Vt., 1859.

Remarks.-We find the following in Miss

Having made from hickory ashes, or the best the shovelling off snow and the extra number of oak, a sufficient quantity of lye, which must be shingled or slated roof. Composition roofing is by melting it with water,) and a bit of lime the far more expensive than shingles, or even slating size of a large hickory nut. Put it into a large in most sections of New England, and so far as kettle, boil it very fast, and stir it frequently. It experience proves, is not so durable as either, must boil hard for several hours. Try it by taking out a little and cooling it on a plate. When 5. "The walls shall be of stone, &c., 30 feet you find that it becomes a thick jelly, and no high, with convenient doors, &c." Now let any grease appears about it, stir fine salt into the experienced mason calculate the cost of these kettle, allowing a pint of the salt to three galhuge walls, and report the same to "J. W. K.," lons of the soap. Let it boil for ten minutes after the salt is in. Then take it out of the kettle, Now, considerate readers of the Farmer, for and put the soap in tubs to cool, and wash the such by personal acquaintance I know thousands kettle clean. Next day cut the soap out of the of you to be, will you take the trouble to read tubs, and melt it again, and cool it in wooden over "J. W. K.'s" plan of a (cheap) barn. See moulds, if you have them. When it is firm, cut how easily he can "drive all over the barn and it into square pieces of convenient size for wash-

The best kitchen fat for soap is that of beef

musty when taken out next spring from his damp the salt, you find the soap too liquid, add a little mud floor? Finally, look over his summing up water to that on the plate, for the purpose of of advantages. "I can take the dry muck," &c. making it jelly. You will then be able to ascer-

in how much cold water must be added to that the kettle, for the same purpose; it being evlent that the lye is too strong. This must be one before the salt is put in. A larger quantiy of lime put in while boiling, will make the soap still harder.

You may harden it, also, by adding, while the soap is boiling, a little sulphate of iron. This will give it a marbled or mottled appearance.

SQUASHES.

I have never seen any superior in size and beauty, to some grown at South Danvers the present season. I believe these all sprung from a squash grown on the ground of Wm. Walcott, Esq., in the season of 1858. The largest of these squashes grew in the garden of Mr. Andrew Porter, near the fence. It weighed, when entirely clear of the vine, 164 pounds. It was symmetrical in form, and girted 79 inches, or 6 feet be found to contain more sand than clay, and 7 inches. There were several other squashes in when exposed to the atmosphere, will soon pul-30 to 40 pounds each. Whether any of them verize and so give more firmness to the soil, and came from the same vine, I cannot say-but at the same time furnish silex which is wanting think they did. From what I have seen of other in muck soil—to the plants. We should not er squashes, I should think the meat of this must be three or four inches thick. Of its quality I cannot speak—it not having been opened to be speak to be sp The original from which the seeds were taken muck. made as good pies as any I ate for the season. soil on which Porter's squash grew was a hard water. gravel, well fertilized with manure from his tan-J. W. PROCTOR. nery and currier's shop. September, 1859.

DOMINIQUE FOWLS-BAYBERRY BUSHES.

monthly Farmer, what will kill Bayberry bushes? resting the water near the surface. the berries from which we make bayberry tallow of. They are over-running my pastures very fast. Epping, N. II., Sept., 1859. J. J. LANE.

REMARKS .- We cannot tell you about the fowls-do not know.

If too stony for that, sow grass on the ashes, the finest vegetable deposit I ever saw. A stream and scratch it in with an iron rake. If very runs through it, and at its mouth there is a dam, rocky, let it grow up to wood. We hope some so that in twelve hours I can throw three feet of one has a better practice, and will communicate to you and us what it is.

BEST TIME FOR CUTTING FENCE POSTS.

In answer to the inquiry of Mr. John W. Townsend, as to when to cut fence posts, I will best time to cut them; peal the bark off, and set them green, and I think they will last three or four years longer than they will, cut at any other R. C. H.

Ludlow, Vt., 1859.

DRAINING-DOUBTS.

Can you answer a question or two which are of much interest to me, and I presume may be to many others, novices in this department of farming. I have underdrained a muck meadow in which the depth of the muck varies from six inches to a foot and more; a stratum of blue elay mixed with saud, very hard, underlies some parts, and sand the rest.

What I am desirous to know is this—will it be well in plowing, to bring much or any of this clay to the surface, mixing it with the muck? Will this thin layer of very hard clay be an injury to the meadow, by holding surface water too long, or an advantage, by keeping the meadow from leaching? In short, will it be best to break it up entirely, if possible?

Keene, N. II., 1859.

REMARKS .- The understratum will probably

It is rare that a stratum of clay is found be-What was required to be mingled with the neath muck, in your locality, close enough to be squash to bring this about, I cannot say, never impervious to water. What is called compact having taken a part in the making of pies, until after they were baked. Another neighbor, Mr. clay, in such positions, is in nine cases in ten Wm. S. Osborne, grew on one vine two squash-found on examination to be mostly sand, and to es, weighing 138 pounds and 623 pounds—but be readily drained. We do not believe much in not so handsome as the first mentioned. The the advantage of any compact subsoil to hold up

Soil that is of any value holds water enough by attraction to prevent drought, and stagnant water in the soil is death to most valuable plants. So we advise to drain deep and plow deep, Where can I get a pair of Dominique fowls and trust to the higher laws of nature to supply and at what price? Can you tell me through the moisture, rather than to the lower notion of ar-

French's "Farm Drainage" discusses these points fully.

CAN I MAKE A CRANBERRY MEADOW.

I have a meadow in Rochester, N. H., which Cut and burn the bushes and plow, if you can. lies on a high ridge of land, and is made up of water over the whole. On a portion of it I have planted potatoes,—but what I wish to do, is, to get it into cranberries. Shall I haul on yellow loam, as I cannot get sand? Shall I plow it? Shall I set wild or cultivated vines?

Lawrence, Oct., 1859. O. Pearl.

REMARKS .- The condition of your land is unstate that I believe the month of June to be the like that of any which has come to our knowledge, where the cranberry culture has been attempted, and we do not feel sure that any advice we can offer will be serviceable. You say the meadow is "the finest vegetable deposit you ever

saw." If you mean by this expression that it is rieh, black, highly decomposed vegetable matter, and continues so to the depth of two or three a profitable cranberry meadow of it. But if of day and Thursday, 28th and 29th of September. this character for ten or twelve inches of the surface, and then comes white or yellow sand or first order; and the several parts were well susgravel, you may be encouraged to proceed.

If it were ours, and we were desirous to get it into cranberries, we should plow one-eighth of al choice of officers, when Col. Daniel Adams, an aere of it six or eight inches deep, take out all the weeds and grass, and then set the best wild Treasurer and Secretary, remain in office, to envines we could find, about as close together as sure the safety of the society for one year more, we could conveniently get them in with a garden at least. trowel. In this manner they will shade and procerns of the society that I failed to notice the tect each other, and prevent the growth of weeds particulars of the exhibition, to all of which full and grass, and at the same time you indulge justice will be done by the intelligent committhe plant in growing up in its thick and natural tees selected from all parts of the county. I be-

as to come around the plants, or to completely careful to save its funds, intact. Nearly all the time of blossoming and setting of the young fruit, if there is a prospect of frost the water vised. Its permanent fund exceeds \$10,000, notmay be thrown back to cover them, letting it withstanding for the last twenty years, it has exfor a few days until the danger is over.

begin to grow, the utmost vigilance must be ob- ment of its concerns. It has found it true that served to pull them out before they take much old men are good for council, while young men root,-for in pulling them afterwards, they start are best for action. May it always have due rethe roots of the cranberry runners and ruin gard for this rule of action. them. We have a small plantation now doing pens, I noticed twenty-five milch cows in one pen. finely, and mainly by observing this suggestion. all from one farm—the same that exhibited about The extent of space which we have indicated- the like number the last year. This is coming at one-eighth of an acre-will be quite likely to af- a view of stock in the natural way, without any ford you as much of an exercise or amusement, pampering or extra effort to show off. I should as you will desire for the first experiment.

LEAKY WALLS AND WINDOWS.

what is the cheapest and best method of pre- preceding their exhibition. venting water from beating through the lime or mortar of a new house? Also what is best to put around the windows, as the water comes in around them? BRICK TENEMENT.

South Reading, Sept., 1859.

REMARK .- These are home questions, and we hope some of our able correspondents, who are masons and carpenters, will answer them.

BUNCHES IN COW'S TEATS.

I had a cow with bunches in her teats which prevented her giving down the milk freely. would like to know what is the cause, and what would prevent it. Young Farmer. Candia, N. H., Sept., 1859.

For the New England Farmer.

ESSEX AGRICULTURAL SOCIETY.

The fortieth exhibition by the Essex Agriculfeet, we do not think you will succeed in making tural Society came off at Danvers, on Wednes-The conveniences for the exhibition on the margin of Frost Fish Brook, (so called,) were of the tained.

On the forenoon of Wednesday, was the annuof Newbury was re-elected President, and also, enough of the proved trustees, with the veteran

lieve there is no society in the county, that has In the spring, the water may be kept back so ments than this, and none that has been more been more uniform and consistent in its movecover them, as the weather may be, and it will money it has ever received from the State is now also check the growth of other plants. At the securely invested in dividend-paying stocks; and down in the morning, and flooding towards night pended more than \$1000 a year in premiums r a few days until the danger is over.

When the water is off, and weeds and grasses

When the water is off, and weeds and grasses

Paid, and the publications of the society. It has availed itself of the considerate wisdom of a Pickering, a Colman and a Fay, in the manage-

value such a view of the stock of half a dozen farms, more than all the animals kept, singly and alone, that could be collected in the county. I think that societies would do well to offer pre-You or any of your numerous readers would miums for the best herd of mileh cows, not less greatly oblige a constant reader of your valuable than twelve in number, with a specific statement paper, by informing me through your columns of their feed and products, for six months next

September 29, 1859.

ATTENDING THE FAIRS.

Let every one get some good at the fairs. Go with a distinct object, and aim at becoming wiser. Seek what is superior, and take advantage of the labor and skill of others. The practice of finding fault with everything seen, is despicable. The man who is heard saying he has better sheep, better cows, better oxen and better pigs at home. may be set down as one who would get in, and not pay his entrance fee. We despise, above all others, the man who sneers at the effort another may make for improvement. There is a class of men who appear to live by fault-finding. That class are the self-constituted judges-general at

ments, but they ridicule the show. Well, let them tober. Also answer this question: Do we sel-Society must drag along the dead carcases of dom have a frost till the full moon, or two or such ones. They may as well vent their spleen three days after in September? And do we not upon the fairs and their management, as upon almost invariably have a frost at this time? I their neighbors. Let them chafe and fret. The speak of the latitude of forty-five degrees. Per-

For the New England Farmer.

INFLUENCE OF THE MOON UPON THE WEATHER.

Mr. Editor:—I have just read an interesting article from your Springfield correspondent, J. A. A., and the candor, good sense and information pervading it induces me to notice it. His remarks respecting the influence of the moon on crops, long vines, &c., are just. His average of observations on high and low moon for the year does not seem to favor either theory. Still. I wish he would make his average for the five successive summer months for a series of years. commencing with May, and let us have the result. But there is one remark to which I cannot yet assent; that "early and late frosts did not often occur when the moon was high, but as of ten when it was low, and as often at new moon as at full moon." The last clause militates most against my own experience, though I regret that I have not the precise facts at command.

In the latitude where I reside we rarely ever have a frost in September, till the full moon, and if we can pass by that, we are not usually trouno theory; nor would I be too presumptuous in these differences are more marked where I reside, in Springfield. His closing remarks respecting some fine fruit from the same vines. a series of observations extending over a term of years are valuable, and it is just such facts as he has presented that will decide many of these now unsettled questions. His observations, seventy-four in number, on the mean temperature of high and low moon, giving almost three degrees colder in high than in low moon, is as wide a difference as I should have expected, for even gentle touch of the finger will cause them to one degree too low in sometimes pretty trying to drop from the stem, which will be many days afthe farmer.

influence the temperature in the upper regions of the atmosphere. Prof. Piazzi Smith made experiments on the Peak of Teneriffe two years wine than berries would be for sale. Please call ago, at the heights of eight and ten thousand feet, which settled conclusively this point. Still, there all of the above is correct. are so many modifying circumstances connected with the whole subject that it is not best to be too positive.

"Modest doubt Is called the beacon of the wise.

Then again it is a question how much influence the moon has in promoting crystallization in the freezing process.

I wish your correspondent would give us the average of the temperature of high and low moon carefully for three successive years, in a warm

the fairs. They not only criticise the arrange- for a number of years past in September and Ocworld gets along with them, and could get along haps he may not have it cold enough at his local-without them.—N. II. Journal of Agriculture. ity, so far south. I believe here is a legitimate and fruitful field of inquiry, and without knowing J. A. A., I do not hesitate to pronounce him the man to pursue the subject.

> I believe a book might be written on Meteorology, adapted to agriculture, containing essentially the following chapters: A description of the different forms of clouds, and their indications of the weather. The barometer, including not only the mercurial instrument, but all m. chanical contrivances to indicate the weight and changes of the atmosphere. The influence of the moon on the weather, and on the temperature of the earth at its different periods of revolution. The instinctive conduct of plants and animals, especially just before a storm. A consideration of the combination of various causes in effecting atmospheric changes, miscell meous topics and conclusions. The merely negative results of such a work would be valuable, especially on the prevailing opinions in regard to the moon.

Bethel, Me., Sept. 26, 1859. N. T. T.

For the New England Farmer.

THE LAWTON BLACKBERRY.

I think the reply to your Newbury, Vt.. "Subbled with a killing frost till the full moon in Oc-scriber," about the Lawton blackberry, partially tober. Exceptions I know do occur, but I be- erroneous. From experience, I am satisfied that lieve I have stated the general rule. I can give Massachusetts is not too far north to grow the Lawton blackberry successfully It is an enoropposing an opinion so carefully presented by mous bearer, and the vines grow to a g eat size. your correspondent. I am inclined to think that I have them now sixteen feet in height, and laterals three to five feet in length, all the growth in the vicinity of the White Mountain range, and of this season. I had berries, fally ripe, previous at an elevation of 650 feet above tide water, than to the first of August, and yesterday 1 found

When fully ripe they are very sweet, and the flavor is not equalled by any herry that I ever tasted. I measured one berry-and many others were as large-and found it three and threefourth inches in circumference!

Many people call them sour-so is other unripe fruit. They should never be plucked till a ter they are perfectly black. They are illy calcu-It is now well understood that the moon does lated for marketing, for when fully ripe they cannot be carried to market in a state fit to be seen,-even in the most careful manner; more upon me next August, and I will satisfy you that A Subscriber.

New Bedford, Sept. 24, 1859.

Remarks.—We sincerely hope we are mistaken in saying that "Vermont and Massachusetts are too far north to ripen the Lawton blackberry." We have had ample demonstration of its rapid growing and great bearing qualities, but never procured a ripe berry. We cultivated it

and early piece of land; the canes grew most new feature of the occasion was a dish of Davis vigorously, blossoms were abundant, and the Seedling potatoes, boiled. Address by Gov. fruit grew in profusion, attaining the largest size BOUTWELL. and most beautiful form, but none of it ever ripened! In the early part of last October we had not even the hired men, could eat it. Indeed, we have not put it too strong when we say that not a berry on our bushes ever ripened. Such has been the general result where we have known it in Massachusetts. On the same soil where the Lawton grew we have no trouble in ripening the Dorchester or the wild blackberry.

scriber."

AGRICULTURAL SHOWS.

second day, there was quite a large attendance. hibitions this day. Eighty-four horses were entered, of all classes. mer years. He remarked that the society was, umn. not situated as it once was. It had, in former of its friends.

In the morning there was a trial of mowing ladies present: machines in a field at some distance from the fair ground. The "Manny" and Ketchum" machines the wives and daughters of agriculturists and were entered by their manufacturers, and the was by nature a helpmeet to man. Husband and "New England Mower" by Mr. I. S. Richard- wife could give each other mutual help and forcutter bars. The committee are to report to the tention, he would not unite them, no matter how trustees hereafter.

WORCESTER NORTH SOCIETY.

and 28. The show of fruits, vegetables and man-tween husband and wife ufactured articles was very fine. Dr. FISHER, of He thought many ladies might know more of Fitchburg, displayed forty-two varieties of fine agriculture to their profit and that of their huspears, some fine peaches, and a plate of superb bands, and he would have agricultural works on every drawing-room table. Ladies should spare no effort to make the farmer's home one of rewith velocity blossoms contributed by Locial Shall with yellow blossoms, contributed by Josiah Shel-finement. And the younger ladies might do a don, of Fitchburg, graced one of the tables. A good part toward this. Let the younger la-

MERRIMACK CO., N. H., SHOW.

Two days-Sept. 28 and 29. A large attenan abundance of lt, but no person on the farm, dance, especially when the horses were on the track. No military attended, we believe, but to make up the deficiency, there was a portion of the Concord fire department, three engine companies and two bands of music.

NORFOLK COUNTY SHOW.

This energetic society held its annual show We presume the climate of New Bedford is two days, S-pt. 27 and 28, at Dedham. There much milder than that of most parts of Massa- was a fine display, we understand, in all the dechusetts or Vermont. But we hope it will suc-partments, and the attendance numerous. The ceed with us, and it will afford us plea ure to exercises at the church and at the dinner-table, test the qualities of those of our friend, "A Sub- were excedingly interesting. Mr. President WIL-DER made some introductory remarks at the church, saying this anniversary is no mean occasion, for the agricultural art was the basis, the WORCESTER COUNTY AGRICULTURAL SOCIETY. foundation, the suctenance of all other arts. The This old and influential Society held its annual growth of interest in agriculture within a quarter Show, Sept. 28 and 29, in the city of Worcester. of a century was very marked, and much of it A good many people attended, and we suppose was due to the existence of such societies as this. they had a good time. There was the usual show He said that success had attended all the operaof stock, and the several exercises common to tions of the society the past year, and marked such occasions. At the horse exhibition on the improvement is visible in every branch of its ex-

The address was by HENRY F. DURANT, Esq., At the dinner, WM. S. LINCOLN, Esq., the Pres- of Boston, and from portions of it which we have ident, congratulated the society on the success seen, we should think it must have been a very of the exhibition, which, in spite of some adverse able and highly interesting production. We influences, was equal, he thought, to those of for-shall give some extracts from it in another col-

Col. WILDER presided at the dinner-table, and years, a cash fund of over \$20,000 invested in in his felicitous manner introduced the distinpaying securities; but now it had its real estate guished gentlemen whom he had called around and a large debt. It lived only by the good-will him. Among these the Rev. A. L. Stone, of Boston, expressed his pleasure at seeing so many

There was an intimate connection between son, of Boston. Experiments were made with bearance in all their walks in life. If a couple one and two horses, and with four and six feet wishing marriage came to him with any other inlarge the fee. Not that he disliked the fee-(laughter)-he was always ready at his office, just near the corner of Park Street-(renewed This Society held a two days festival, Sept. 27 laughter)—but it was necessary that a practical and intelligent sympathy should always exist be-

dies he as ready to place their delicate hands system, which will come into action in October, into the full healthy hand of the young farmer, is considered one of the greatest benefits con-as into those of the merchant's clerk and the ferred as yet upon the inhabitants of Paris by professional aspirant. He had looked on the its very liberal municipality. sculptured heroes of the ancient Olympic games, and read their story, but when he looked upon a farmer, he saw a nobler man-a man who had coped with nature and triumphed. In conclusion, Mr. Stone hoped that for all present every season would be a campaign, every harvest a victory, and that God would crown them all with his blessing, even as they were already crowned with honors.

He was followed by Judge Rockwood, who "warmly complimented that most successful presiding officer, Mr. WILDER," and closed with an excellent sentiment respecting natural laws. Mr. GEORGE B. EMERSON spoke of the means of improving farmers' homes. He said American trees are superior to those of Europe in beauty and variety. Charles G. Davis, of Plymouth, made an appropriate and valuable address upon the rearing and management of sheep, and the Rev. H. N. CHAMBERLAIN, of Canton, closed by speaking of the poetry of the farm. The minor things of the field he said, were worthy of more attention than they had received.

The tone of thought and feeling in all these addresses is honorable to the speakers and creditable to the society that called such men around its festive board. We have often expressed something of these ideas in more homely garb, and do not hesitate now, to say that farmers need that their attention shall be turned more to this train of thought and feeling, than to any manipulations of the farm itself.

THE DRAINAGE OF PARIS.

The termination of the great conductor beneath the pavement of Paris is regarded as an immense success by the engineers connected with the enterprise. This gigantic drain is considered one of the wonders of modern engineering, and is destined, it appears, to form the great artery of a system of sewerage which has long been in contemplation both for the salubrity of the city and for economy at the same time. Two of these stupendous drains are to be constructed in a line parallel with the Seine, and to conduct the refuse water of the city into a vast reservoir, whence they are to be disseminated as liquid manure over the most barren of the plains round Paris. The system adopted is that experimentalised at Berlin with such eminent success that the sandy plains in the midst of which that city is situated have been converted, within the as lazily as they list into the Seine. The new pletely successful.

THE AMERICAN AUTUMN.

BY FANNY KEMBLE.

Thou comest not in sober guise, In mellow cloak of russet clad-Thine are no melancholy skies, Nor hucless flowers, pale and sad; But like an emperor, triumphing, With gorgeous robes of Tyrian dyes, Full flush of fragrant blossoming, And glowing purple canopies. How call ye this the season's fall, That seems the pageant of the year? Richer and brighter far than all The pomp that spring and summer wear, Red falls the western light of day On rock, and stream, and winding shore; Soft woody banks and granite gray With amber clouds are curtained o'er: The wide, clear waters sleeping lie Beneath the evening's wings of gold, And on their glassy breast the sky And banks their mingled hues unfold. Far in the tangled woods, the ground Is strewn with fallen leaves, that lie Like crimson carpet: all around Beneath a crimson canopy. The sloping sun, with arrows bright, Pierces the forest's waving maze; The universe seems wrapt in light, A floating robe of rosy haze. O, Autumn! thou art here a king-And round thy throne the smiling hours A thousand fragrant tributes bring, Of golden fruits and blushing flowers.

O, not upon thy falling fields and fells In such rich garb doth autumn come to thee. My home! but o'er thy mountains and thy dells His footsteps slowly fall and solemoly. Nor flower nor bud remaineth there to him, Save the faint breathing rose, that, round the year, Its crimson buls and pale, soft bloscoms dim, In lowly beauty constantly doth wear. O er vellow stubble lands in mantle brown He wanders through the wan October light: Still as he goeth, slowly stripping down The garlands green that were the spring's delight. At morn and eve thin silver vapors rise Around his path; but sometimes at mid day He looks along the hills with gentle eyes, That make the sallow woods and fields seem gay. Yet something of sad sovereignty he hath-A scentre crowned with berries ruby red, An I the cold sobbing wind bestrews his path With withered leaves, that rustle 'neath his tread: And round him still, in melancholy state, Sweet solemn thoughts of death and of decay, In slow and hushed attendance, ever wait, Telling how all things fair must pass away.

space of a few years, into the richest meadow Culture of the Onion.—Mr. Milton Wolland in the whole of Northern Germany. The cott, of Fairlee, Vt., informs us, that after losing prevalence of epidemics and miasma during the many crops of onions by the maggot, all the autumn months in Paris has always been attributed to the immense mass of stagnant waters left to corrupt beneath the slightly covered drains which run beneath the houses, whence they creep pound that has in one or two trials proved com-

THE SCOTCH PINE, (PINUS SYLVESTRIS.)

Most men, and all women, love trees,-and they love those trees, or shrubs, or plants best, that they have cultivated, or assisted in cultivating, with their own hands. The person of taste who erects his house in a charming natural grove, though it may be made up of a variety of the most showy and graceful of our forest trees, is not content to stop there. He wants something before him that he has been instrumental in calling into being himself-something to which he has given thought, and labor, and affection, and which will still require his eare, and will bud, and bloom, and exhale its fragrance or bear its fruit, especially for him.

This good taste, we believe, is natural to all persons, but in most, remains hidden for want of circumstances to develop it. He who delves fifteen hours a day on his farm, grudgingly returning to the bosom of his family to partake of his accustomed meals, will seldom indulge his mind in meditations of the beautiful, either in nature or art.

> "A primrose on the river's brim. A yellow primrose is to him-And nothing more."

But as literature, commerce, manufactures, and the various arts, combine to help us to the necessities and luxuries of life, that dormant germ for the beautiful is

When this taste has become active, he seeks has formed, and lays all countries under tribute rigultural book publishers, N. Y. to gratify his wants. It is this taste that has introduced into our gardens and grounds so many beautiful trees and shrubs from our native forests, and so many of the exotics that grace and bless other lands. It was this taste that introduced the Scotch Pine into our colletions of or- invoice of French rose bushes, and on unpacknamental trees, a portrait of which embellishes ing them, found the roots quite dry; I set these the page before you.



unfolded, and man seeks to surround himself they are from two to three inches long, and do not with the creations of his own fancy and labor. drop from the tree until the fifth year. The cones He carves statues, paints pictures, and plants open of themselves shortly after being gathered and gives form to trees and shrubs, and thus from the tree, and spread out in the sun. The lives delighted in a little world that he has long seed should be sown on a finely-prepared sandy imagined, and at length brought into actual be-soil, in March or April, and on land not entirely open to the sun.

We are permitted to copy our engraving from everywhere for objects to supply the form or WARDER's excellent work on "Hedges and Evshade that seems lacking in the picture which he ergreens," published by A. O. Moore & Co., Ag-

For the New England Farmer.

USE OF TAN BARK.

Mr. Brown: -Some years since I received an plants out at once, at the entrance of the garden, where tan had been placed from time to time. This pine is one of the favorite European spe- I had the top tan taken from this, and the land cies, and as it succeeds remarkably well in this dug over, this article being mixed in the soil in country, will be likely to become a favorite tree. different stages of decay; upon this spot I placed It has many varieties and they are vary discipation the bushes thus dry. These all, with but two It has many varieties, and they are very dissim-ilar. In favorable situations, the Scotch Pine the following summer. Ever since that time I will grow eighty or one hundred feet high. The have continued the use of this article, placing it neaves are glaucous, and in pairs; in young trees around the gooseberry and currant bushes, and

also around dwarf pears, and have found it a in the statute for the remanding of such boys good dressing, particularly in preserving them committed to the school, as the Trustees find, on from insects. I have placed it between rows of a brief probation, to be confirmed and hopeless strawberries, particularly the large varieties, criminals. Such are sent to their alternative which I cultivate as single plants, by cutting off sentence in the House of Correction, and are not the runners; it will retain heat and moisture therefore the subjects of the Reform School disduring the warm months. For all purposes of cipline. Deducting the number thus remanded, mulching young trees in the fall, I have found it 126, leaves as the true result, 1372 reformed boys to be a good article. J. M. I.

Salem, 1859.

THE STATE REFORM SCHOOL.

tion by fire has naturally awakened a desire in capita in the Institutions named: the public mind to know its history and practical results. That there is a widely spread impression that it has failed of its legitimate purpose to a greater or less extent, is most evident. But while parties, hostile to the school, are loud in its denunciation, the discerning and the philanthropic demand facts and statistics, and reserve their judgment till these are furnished from reliable sources.

One inquiry of importance in deciding the general question is, the cost of supporting this institution, compared with other institutions of a simreformed, and go out into society to become useful and honorable citizens?

After long and careful investigation, aided by the present and past officers of the school, the

these questions:-

School since its opening in 1848 is 2537. number of inmates at the present time is 507. The number known to have deceased is 42. This leaves a total of 1988, whose history is the subject of our inquiry. Of this number, the career of about 300 cannot be traced with certainty. This comprises the boys who were committed on committed under assumed names, &c.

who have gone forth from the institution.

This is a better record than has ever been chance. claimed by the trustees; and, considering the disadvantages under which the Institution has morning, I saw Mr. Rogers' team of four oxen, the school have ever dared to hope for.

But, as will be evident to any one familiar couraging any such movement. tution. It is well known that provision is made season; this I am sorry to say is not as good as

in a total of 1862 graduates, which is seventythree and two-thirds per cent.
In regard to the expense of the school at

Westborough compared with other kindred Institutions, the following table, compiled from pub-The recent partial destruction of this institu-lished reports for 1858, will show the cost per

Maryland House of Refuge	
Providence Reform School	94
Industrial School for G rls at Lancaster	130
Chicago Ref rm School	100
St. Louis House of Refuge	122
Western House of Refuge, New York	100
Cincinnati House of Refuge	
House of Refage, Philadelphia	95
State Reform School, Maine	114
House of Refuge, New Orleans	
State Reform School, Connecticut	97
House of Refuge, Randall's Island, N. Y	
State Reform School, Massachuseits	

The average age of the inmates in the schools ilar character; another is, what proportion of above enumerated is about 13 years. The numthe boys committed to the school are thoroughly bers vary from 95 to 590. In the large institutions the cost is least. \$80 each, at Randall's Island and Westborough, where the numbers are 540 and 590. In the small institutions the cost is greatest. \$130 at Lancaster, with 95 inmates; writer is able to furnish the following answer to \$123 at St. Louis, with 121 inmates; \$154 at New Orleans, with 95 inmates; \$114 at the The number of boys committed to the Reform Maine Reform School, with 214 inmates.—West-The borough, Sept. 28, 1859.—Daily Advertiser.

For the New England Farmer.

RAMBLES ON THE MERRIMACK.

Having just returned from an excursion of short sentences; those who were in feeble health; about eighty miles, along the bank of the Merrithose who have left the State; those who were mack, I thought I would put on r cord my impressions, before they escaped from the mind. I The history and character of 1653 boys who started with a view of seeing the great show of have been immates of the school have been as the season at Albany-but when I reflected how certained. 281 of these have turned out badly | well that would be described by their indefatiga-This is fourteen and one-seventh per cent. on ble Secretary, a man of all work, (as we say of a the total of 1988. 1372 of these boys are known horse,) I thought his description would be more to have done well. This is 69 per cent. of all instructive than any observation I could make. Further, I do not entirely coincide with the for-In this calculation, in all cases of doubt, the eign taint of the New York gentlemen, in their doubt is reckoned against the Institution; al- notions of cattle. The magnificent Short-horns though in a large number of instances, the prob- -the beautiful Jerseys-the pampered Ayrshires abilities were in favor of a thorough reforma |-and the fine horned Devous, so fill their eye, that the neglected natives stand but a poor

As I walked through our own street, this lahored, from want of the means of a proper clas- six years old, averaging in girth 72 feet, deep red sification; the advanced age of the majority of color, equal in my judgment to any that can be boys when committed; and the great number of brought from England, Scotland, or Kentucky. short sentences, it is a better result, the writer When such animals can be grown among us, confidently believes, than the truest friends of what occasion is there to go abroad for better? I know of none—therefore I do not feel like en-

with the school, this does not exhibit the actual But the Merrimack is my theme. My first inresults of the training and discipline of the Insti- quiry was, of course, as to the corn crop of the I hoped it to be. The fact is, there have been no in other towns, and patches scattered about all will be sound corn to the amount of sixty bush- would be by their culture in the place of tobacco! els to the acre-but generally the crop will not better.

When the corn stalk fodder is the principal co-raiser would not set with tobacco plants. reason for growing corn, then this will be a good reason for the practice of cutting the stalks; but erally regarded as 1700 pounds; some lands will yield the greatest quantity of best corn.

What more can be asked?

the land has been properly taken care of, and would be considered well fitted for a crop of corn where it has not, there is no right to expect a and potatoes, which is rather a low estimate, crop. My attention was particularly called to however, of the cost of raising an acre of good the ancestral farm of the Walker family in Con- tobacco, and does not include many little things cord, N. H., now cultivated by the Hon. Joseph always occurring to be done in the culture of B. Walker, who has had the wisdom to leave the the "weed:" law of quibbling and to engage in the law of culture. If more of our kid-glove gentry would do the same thing, they would earn a reputation "more durable than brass or bronze." Oct. 6, 1859.

For the New England Farmer.

TOBACCO VERSUS USEFUL CROPS.

It is not without much hesitancy that I attempt to introduce anything into the Farmer rel- while the tobacco is curing, or the interest of ative to the most worthless of all cultivated pro- capital invested in tobacco sheds-say at least ducts-tobacco. I have observed, with pleasure, six dollars, for I have heard it remarked by old that this vile weed is not allowed the distinction tobacco-growers that a barn of ordinary height, of ranking among those farm crops, to the dis-40 feet long by 30 in width, is none too ample cussion of which, and the best method of raising, accommodations for an acre of stout tobacco. our hest agricultural journals are devoted, and And the expense of getting plants, when not that they are inclined to discourage its culture, raised at home, is often considerable; for in-But the rapidly increasing attention paid to this stance, I have known people to travel twenty crop, and its usurpation of the best lands of the miles and back, repeating the journey two or country, which might otherwise be devoted to three times, in procuring plants for an acre. useful and almost as remunerative crops, induces me to write a few words upon the subject.

on the Connecticut river, besides a large amount to fifty per cent., but by the above estimate,

warm nights, to press forward and mature corn. over the New England States. How many thous-On some pieces where the land was thoroughly ands of bushels of corn, or rye and wheat, or of pulverized to the depth of eight inches or more, root crops, this land might be made to add to the liberally fertilized by home made manure, and annual amount of these crops grown in New early planted with the right kind of seed, there England! and how much richer the country

I propose to notice a few items in regard to be found to exceed thirty bushels to the acre. the real profits of raising tobacco. First, the The old fashioned way of cutting the stalks has very best land must be employed, and highly generally been followed, but nobody can tell ex- manured, to ensure a remunerating crop. It canactly why it is done, except that the fodder is not be manured too highly; and a field that would produce a fine crop of corn, an old tobac-

The average amount of tobacco per acre is genwhile it is grown for the corn that will mature yielding much more, while a good deal yields less. the best, such management should be adopted as Let the medium price be twelve and a half cents per pound, and it will give \$212,50 as the pro-Of potatoes the report is highly favorable—lit-duct of an acre; though I believe \$200 is considtle or no rot, of large size, and excellent in qual-ered as the average amount of money per acre for tobacco. The cost of the various items in its Of grass-there has been enough of it where culture may be stated as follows, after the land

Cost o	f extra plowing and harrowing	\$4 00
6.4	hilling out	1.25
4.6	plants	6,00
66	setting	
	haeing three times	12 00
6.	topping, mowing, &c	3.75
4.6	suckering	
4.6	cutting hanging, twine, &c	12,10
46	stripping, packing, &c	9 60
	• • • • • • • • • • • • • • • • • • • •	-

In addition to this is the rent of storage-room,

The money received for tobacco is not all profits. I have known tobacco culturists to offer Many farmers, carried away with the idea that fifty dollars for the use of an acre of ground for growing tobacco is superlatively a money-making tobacco, and manure to fit it with, or eighty to business, devote to this crop the attention and one hundred dollars after the ground was fitted. nanure properly belonging to the other and more Deducting about ninety dollars for the use of egitimate farm products, and often find, at or the ground, manure, fitting, &c., in addition to before the sale of their tobacco crop, that "all is the expense of raising, leaves as small a per cent. not gold that shines," and that money cannot be of profits on the amount of capital invested as plucked from the passing breeze, or obtained the majority of farm crops. And I believe that ionorably without hard toil, at least on the hills people are deceived in regard to the real amount and plains of New England. Recently the cul- of profits in tobacco growing, by the large amount ture of tobacco has increased surprisingly, and it of cash received as the avails of an acre, and do has been stated that during the past season there not stop to consider the costs of growing, nor have been 250 acres raised in each of the towns estimate the risks incurred. The labor bestowed of Hatfield and Whately, in this State, 200 in on one acre of tobacco would cultivate quite a Hadley, 125 each in Northampton and West number of acres of corn, which, if grown on the Springfield, and probably 100 in Springfield and ground devoted to tobacco, would yield 60 to 70 Westfield, and from 50 to 200 or more in all the bushels per acre. The gain on the money investowns in this State and Connecticut that border ed in the culture of corn is generally from thirty

drawn from actual observation, the profits in to- is sometimes a practice among tobacco-growers bacco culture generally fall to, or below, thirty to put on a shirt outside of their clothes, and per cent., besides the inconvenience suffered in wear it without washing all through the season. growing it. Consequently, I strongly incline to At the end of the tobacco year, if indeed, it lasts the opinion that the notion that tobacco "pays" so long, it goes into paper rags, but usually long better than any other crop, or than other crops before that it loses its original color. We met rein general, is a mistaken one. True, there are in-cently a troop of men fresh from the tobacco stances of large profits from tobacco, in conse-field, that in any other portion of the world than quence of a high price in conjunction with a great this, would pass for Hottentots. They looked as yield, and the lucky man tells his success to his if they had always burrowed in the ground, and neighbors, and it gets into the newspapers, and in hands and face, as well as dress, were the colsets a hundred farmers itching to engage in the or of woodchucks. Where is Barnum? business.

profitable crop, there are at least six good rea-odor of green tobacco, from their person and sons for raising other crops in preference to to-clothes, was no less offensive and disgusting than bacco, worthy of consideration by every farmer, their appearance. The gum is very viscous, and especially by every one inexperienced in the bus-hard to remove from whatever it besmears.

iness, who contemplates raising it.

must necessarily draw heavily upon the resources few approve of the distillation of corn or other

heavy a growth of foliage.

2. If raised by a farmer in common circum- waste-preventing the culture of useful crops. stances, it robs the remainder of the farm of its! May every man who has grown tobacco the proper food, unless the manure be purchased. It present year sum up the expenses of his tobacco is virtually the same as selling the manure di-crop, the risks, the tendency of the business, and rectly from the farm, comparatively nothing be- then ask if it pays, in the true sense of the term ing returned to the soil from the tobacco; and —is it honorable? And let every man who coninstances have come under my observation of templates raising it in the future, investigate the farms becoming considerably reduced by this subject well, in all its bearings, before he comprocess.

3. It is more risky than other crops, from various causes, as hail, and early frosts in autumn. That man need to consider himself fortunate who does not lose, or receive great injury to a por- for this timely and excellent article. tion or all of his crop of tobacco as often as once in four or five years, which forms a material discount on the general profits. A heavy hail storm, or a severe frost, renders the crop worthless for

market.

4. It requires skill and experience more than other crops; indeed, by some, raising tobacco is the vexations, and often losses, the inexperienced

grower meets with.

5. It is a disagreeable and hard crop to work nong. With the exception of hocing, from setting till the crop is harvested, the laborer must be more or less in a stooping posture, with his

horrors; of the back-aches and head-aches, sick- in what manner would it be best to confine them? ening odor of the tobacco, and gummy hands and

I quote from the Springfield Republican, of of crops would such land be best adapted? Sept. 17th, concerning the work of tobacco-growing, and the appearance of the workmen:

"If there is any dirtier work than raising tobacco, except chewing it, we should like to know it. A gum issues from green tobacco that covers everything that it comes in contact with. It ry matter upon which our correspondent asks for

The worthy editor would have found, had he To sum up the matter, allowing it is a very approached near enough, that the nauseating

6. It is a worthless crop, and a curse to the It is a very exhausting crop, and, as above community, which alone should be an argument stated, requires land in the highest state of cul-sufficient to prevent a conscientious man from tivation for a good yield, and growing rapidly, raising it, because he thinks it profitable. But of the soil, as experience proves, to mature so grain into intoxicating liquors; yet the tendency of tobacco-growing is the same-a useless

mences.

Springfield, Mass., Sept. 27, 1859.

REMARKS .- "J. A. A." has our hearty thanks

For the New England Farmer.

FISH POND .-- MEADOW MUD.

Mr. Editor:-As you are always ready to give information on anything connected with a regarded as little less than a trade, and many are farm, I will ask a question or two. This season, while the water was low in a meadow near my house, I dug a round pond, 300 feet in circumference, which will hardly, if ever, be dry; it is in connection with a stream of water running through the farm. I dug the pond for two purposes; first, for getting the mud for manure, head in an unnatural proximity to his feet, and from which I got a large quantity; and secondhis face brushing the green tobacco leaves, as- ly, for the purpose of having, and multiplying, suming the characteristic attitude of a quadru- some kinds of fish. The stream, which I can ped—on all fours—in his groveling, eager pursuit easily control, is some 200 rods in length, and after "filthy lucre." from three to six feet in width, through the mead-In the business of suckering and harvesting, ow. Are these dimensions, with a living stream much of the work is of the hardest kind, as well of water, sufficient to multiply fish to advantage; as nastiest, and a chapter might be written on its and if so, what kind would be most suitable, and

Would it be profitable to spread meadow mud, clothes. If a man would grow old prematurely, after it has had the action of the frost one win-let him raise tobacco, and labor in it himself. ter, on uplands, to be plowed in, and to what kind ter, on uplands, to be plowed in, and to what kind

> Cordaville, Oct., 1859. JAMES HOWES.

REMARKS.-We have had no experience, and

information. Mr. Humphrey, of Lancaster, or ridiculous idea, certainly, that the thousands of some other of our friends, may be able and will people engaged in farming, should be such fools ing to communicate valuable information. The as to follow in the footsteps of their infatuated application of the muck, as you propose, would predecessors in agriculture. Does it appear plaube judicious, and the land under such treatment, none is gained from agriculture? that the poor aided by proper dressings of manure, would be farmer toils and digs the live long year for a in condition for any of our common crops.

For the New England Farmer.

"IS THERE ANY PROFIT IN FARMING?"

Messes. Editors:—Your correspondent, T. J. Pinkham, judging from the tenor of his article under the above caption, published in the Farmer a short time since, and from the "facts" he has given, must be located in a very ill-favored portion of the country; but, notwithstanding the state of things he describes, I think he may work long before he will convince the generality of farmers in New England that farming is unprofitable, and that they are destined to the poor-

house, if they continue its practice.

That farming is profitable, and that farmers are the most independent class of people in the world, and that the major part of the rest of the world, who are engaged in other pursuits, are dependent upon their industry and products for sustenance, seems to be perfectly evident from the nature of things, and it may be proved to be thus, if need be, by practical demonstrations without number. I suspect that Mr P., having probably been employed in other pursuits before Messes. Editors:—A writer in your paper, engaging in agriculture, "some seven or eight in allusion to an article which I forwarded some ly he looks upon the dark side.

eye for the profits, and not a bad thing to count sachusetts are the late sorts. Our markets are up the outlays and incomes of the farm, at the ordinarily well-supplied with early peaches from end of the year, and count the profits, as most New Jersey, and consequently, we are unable to farmers can. The facts he has given in support compete with them in the market. The most of his point are new to me, certainly, and proba-profitable variety I have cultivated is the Redbly are to most of the readers of the Farmer; Cheek Melocoton; it is an American seedling, that it "costs twenty-three dollars to raise a yearling," and \$57,20 to keep a cow a year, and of our country; it often reproduces itself from that a good cow gives on the average, four quarts seed under new forms. Crawford's Early, as well of milk per day through the year. A good cow as the Late Melocoton, are seedlings of this sort, (and none other should be kept,) should give and although the latter produces rather larger four quarts at each milking, at least, or eight fruit than its parent, it is, however, not so proquarts per day, through the greater part of the ductive. The Oldmixon Freestone and Prince's year, and even more than this a considerable Late Red Rareripe are valuable peaches for our portion of the time, which would double the culture; in fact, I consider the Red-Cheek Meloavails of the cow, at your correspondent's low price for milk, and give a fair profit at his rather good as any we have grown for the market; they high price of keeping. I believe that a cow may come when the southern peaches are here scarce, be kept well, in most localities, for about forty- The Heath, as well as the Lemon Clingstone, so five dollars per year, and should yield an average popular at the South, will not ripen well with us. of six quarts of milk per day. The milk-men Regarding early peaches for the amateur or generally get from four to six cents a quart for milk, and consequently the farmer should not receive less than three, or three and a half cents, Early York. As regards the Druid Hill, a Balfor his milk at his door.

a portion of the intelligent people of New England should be engaged in such a disastrous busi
As to the inquiry, "Whether peach trees are ness as friend P. represents farming to be. A ever much troubled by the black knot?" I can

sible that of all the money made in the world, mere living, and hardly that, while the results of his labors feed the world? Farmers know too well that this is not their reward, to need to be told by me that farming is profitable.

There are some departments in agriculture more profitable than others, I have no doubt, and while the growing of stock and the dairy are found profitable to farmers, I am inclined to believe that generally the growing of crops is found

I might occupy several columns of the Farmer with statements, from my experience and observation, in various departments of farming, showing that farming, when properly conducted, does really pay good, and often large profits; but I consider it unnecessary, as most of the farmers who read this paper can call up numerous instances from their own observation corroborating the fact, and, from their own experience, are already convinced that farming pays.

Springfield, Oct., 1859.

J. A. A.

For the New England Farmer.

THE PEACH AND PLUM.

years" since, may possibly be lacking somewhat weeks since, headed "1)oubtful Items in Culture," in agricultural experience, so necessary to suc-infers that I have had much experience in the culcess, and has had the misfortune to locate in a ture of the peach. Without pretending to have bad situation, both combining, perhaps, to ren-cultivated many varieties, (as few have in New der him sick of his new vocation, and consequent- England,) I will merely state, that so far as my experience goes in this matter, I have found that It is well in all matters of business to keep an the most profitable varieties for culture in Mas-

timore seedling, I have never seen it, as also the It is a curious anomaly, indeed, that so large Welsh Freestone; I do not find the latter in

only say, that I have never observed anything of the kind upon the peach. This tree frequently forty years ago. But a different taste is now prethis, and the work of the "Grand Turk," or bor- ing place to a second class. This second class fine fruit.

to say whether it is the work of an insect, or a warm sleeping apartments. diseased state of the sap, that produces these unsightly excrescences, which have been so destructive of late as to render the cultivation of the plum not desirable. J. M. IVES.

Salem, Oct., 1859.

* In "Karr's Tour round my Garden," this French writer, in referring to the peach, says. "We find upon the branch of a peach tree, a sort of tuberodity which appears to be a gall of the tree, produce'l by the puncture of some insect."

For the New England Farmer.

FARMING IN NORTHERN NEW HAMP-SHIRE.

MR. EDITOR:-This region is one of the most diversified in New England. From almost any elevated point the eye may pass over barren granite, rough pasture, good upland tillage, fertile intervale and reedy swamp-every elevation, from the hillock to Mount Washington-every size of stream, from the rill to the placid Connecticut.

Of the Farms.—The acres are well divided among the people-the farmer usually possessing from one hundred to four hundred acres. Each farm usually presents the diversified character of the country at large. Almost every farm borders on a small stream. There are moist hollows for grass, warm hillocks for tillage, and high hills for pasture-while here and there are basins filled with decayed vegetable matter, and overgrown with flag and swamp grass. Each farm is well supplied with water, wood and stone.

to moving. Oats, potatoes and corn come next in grapes, describes it as follows: importance. Wheat is an uncertain crop, and but little cultivated. Buckwheat and barley are

more cultivated than formerly.

Of the Dwellings.—The dwellings may be divided into two classes. The first class consists of nearly square, one or two-storied, small-win-dowed that-roofed, upplessont and inconvenient weeks before Catawba. Not tried here for wine, dowed, flat-roofed, unpleasant and inconvenient weeks before Catawba. buildings, with enormous chimneys, and low, dark, damp cellars. Vermin swarm unmolested, and the whole is protected by an embankment of and will keep its leaves fresh and green till frost, chips thrown up about the house nearly to the ripening its shoots well to the remotest points, yet windows. Extending from the dwelling is a long, the vineyard. It is a fine vine to cover arbors, as wagon, sleigh, cart, sled, some chains, cast-off washing-machines and churns, a grind-stone, old scruhes, scrans of iron old bearest and churns, a grind-stone, old scythes, scraps of iron, old harnesses, ashes and preciated when we compare its healthy appearance, fire-wood. Immediately above the wood-pile is and its beautiful, perfect bunches of fruit, with the hen-roost, and beyond it the odoriferous pig-the sickly foliage, and imperfect bunches of the sty. Near the swine's apartment are swill kettles Catawba. While we have lost full one-half of our hanging in the most primitive style.

These dwellings were erected from twenty to exudes gum, particularly in a wet and cold season; vailing. This class of dwellings is rapidly giver, and the curl in the leaf, are about the only consists of well proportioned, painted, lighted difficulties I encounter in the cultivation of this and ventilated buildings, with neat chimneys, and cellars protected from cold and vermin by walls In regard to the inquiry, "Whether the wild of brick, lime and double windows. Connected plum trees of our country are affected by the with the dwelling is a wood-house. Beyond the knot," I would say that they are on even the wood-house is a carriage depot, and further a Peach plum at Ipswich, Plum Island, to a con-building for swine, conveniently-arranged boiler, siderable extent, and I have not as yet been able bins for vegetables, neat eating troughs and

Farm house architecture has rapidly improved within the last ten years. Twenty years ago the builder aimed at great size, while economy, beauty, convenience and ventilation were overlooked. But there is yet great improvement to be made. Farmers' dwellings are too expensive-often inconveniently located-without shade trees, and neat and convenient adjacent fences and gates. Out-buildings are often situated so near that every breeze brings to the parlor a disease-bearing stench, and every shower filters through the cattle-yard into the wood-shed. Large, richlyfurnished, inconvenient and badly-located farmhouses have paralyzed many a strong arm and blanched many a blooming cheek. Farm-house architecture is an important subject, and one that should be more attentively studied.

But more of this in my next. Bath, Grafton Co., N. H., Oct. 10, 1859.

REMARKS .- Thank you, Doctor. Just what we want-short, energetic, picture-like sketches of the homes of farmers, pointing out defects, and showing how to remedy them. You shall have a hundred thousand readers.

THE CONCORD GRAPE.

The Concord Grape is gaining troops of friends at the South and West, and is spoken of in our agricultural exchanges in high terms. GEORGE HUSMAN, of Hermann, Missouri, an exroughest and most distant portions of each farm perienced and successful grape-grower, and a are devoted to pasture—the most moist portions person well acquainted with the qualities of our

> "Bunch, large and heavy, compact shouldered; berry larger by one-third than Catawba, round, black, with a slight bloom; skin somewhat thick; flesh juicy, pulpy, buttery, sweet, and luscious, with an agreeable flavor. Not affected in the least but said to make a good red wine.

> "Vine, a strong and robust grower, very hardy, not so rampant but it can be well kept in order in

Catawba crop this season, hy rot and mildew, the

Concord lost not a herry, and is a truly glorious when he "came away fully convinced that that sight. Take all its qualities-its splendid large was not the best way to harvest corn. bunch and berry, its good quality, and its early ripening-and we have a market grape which is "convinced," or he had no great desire to ascertruly 'hard to beat.'

Mr. Samuel Miller, of Calmdale, Pa., says that--

"At the east and north they do not know what a really good Concord is, and the further it is removed south, the better it becomes in quality. Such is the Concord, as I have found it, the last two unfavorable seasons, and my firm belief is. that it will never fail to bring a good crop here. I hope that all your leaders who have a few feet of ground to spare for a grape vine, will try it."

For the New England Farmer,

HARVESTING CORN.

The question as to which is the best mode of harvesting corn seems to remain undecided. In these parts, the old method of topping and leaving the corn to riper on the butts has been mostly abandoned. Farmers now generally cut land again. up their corn and shock it as soon as it begins to grow hard or gets glazed.

In this way we avoid the labor of cutting the stalks, which requires nearly as much time as it does to cut up the whole at the roots and shock through the winter. Then, when it is again

When the butts are left standing in the hid, they become hard and dry, and are worth but little to feed out; but if cut when they are green and properly cured, they make excellent food for cat-feel quite confident that examination into the tle, an acre being nearly equal in value to an acre subject will satisfy any inquirer that it will be of of hay. It is supposed by some that the quality especial advantage. of the grain is not as good as it would be if it was left to ripen in the hill, but, from my own experience and the testimony of many farmers tile they will be, and the more easily they may in this neighborhood, I am satisfied that, when be wrought—so that if these objects alone were well secured in the shock, the corn will be as sought, it would be advisable to plow in the fall, sound and bright, and will weigh full as much 5. The shortness of the time allowed us to get as it would if allowed to mature in the hill.

the protection which it ensures against frost. In thing we can to expedite the spring work. many parts of New England, frost often occurs before Jorn is far enough advanced to be out of danger; and when left standing in the butts, it is often seriously damaged. I know of several HOPTI-AGRICULTURAL SHOW AT NEWcases this fall where farmers neglected to cut up their corn in season; and it was so badly injured

by frost as to be nearly worthless.

vantages secured by this mode of harvesting, of the best rooms for a display of the various some still continue to advocate the old method articles usually seen at such shows. One of the of topping. I noticed a case in the Farmer of features of the exhibition in the hall reminded Sept. 24th, which is a fair sample of the argu-ments used by those who support this method. tute at New York, in their admission of shop Mr. Underwood, writing from Lexington, says: goods. The earpets, rugs, fancy pictures and "A few years ago I had occasion to pass along flowers were very tastefully arranged, which I the road by a neighbor's corn-field that had been was told was due to the ladies of the city. The cut up at the roots and shocked about two weeks, fruits were fine. The most notable dishes of previous. Some of it was standing up straight, pears were the Duchess of Angouleme, many some leaning, some half-way over, and some dishes of large size, Uvedale's St. Germain, Cawnolly prostrate." From this description the talac, Seckel and Bearre Diel. Of apples, the corn was not well secured, and should not have Hubbardston Nonsuch and New York Pippin, of been taken as an example; but he "selected a F.C. Thurlow, of West Newbury, were very conshock that had nearly fallen over," and examined spicuous. Fine dishes of the Moody, (a seed-

It seems to me that he must be very easily tain the facts of the case. If we draw our conelusions from such slight premises, we shall seldom arrive at the truth. I think if he would carefully consider the question, and give it a fair investigation, he would come to a different conclusion. E. H. H.

Troy, Oct. 3, 1859.

FALL PLOWING.

We ask the attention of the reader long enough to consider two or three reasons for plowing stubble land in the fall.

- 1. It makes the same work easier in the spring.
- 2. It covers the grass and weeds that have sprung up since the last hoeing, or on land that brought a grain crop, and places them in a condition to get rotted before plunting or sowing the
- 3. By plowing in the fall, a large quantity of fresh soil is brought to the surface to be fertilized, in some degree, by atmospheric influences plowed in the spring, still another portion is The quality of the fodder is, also, much better, brought up to be in turn made richer in the same manner. It may seem to some that little or no benefit will be derived from this process, but we
 - 4. The finer our soils are made, the more fer-
- 5. The shortness of the time allowed us to get Another advantage secured by this mode, is in spring crops, makes it expedient to do every-

For the New England Farmer.

BURYPORT.

This exhibition at Newburyport was made on Notwithstanding the many and manifest ad- Tuesday last, in their commodious City Hall; one one ear which happened to be in a bad condition, ling of Newbury,) as well as the Gravenstein,

were equal to any I have ever seen. The show of vegetables, particularly corn, potatoes and cauliflowers, was excellent. This part of the exhibition was very creditable to persons in the north

part of the county.

the paintings of autumnal leaves, so true to nature, executed by Annie B. Ashby. Two landscapes in oil, by Bricher. The marine aquarium, most oppressive and laborious accomplishment, or ocean world in miniature, and a collection of carving, and how burdensome it was made in insects, from W. H. Merrill, and the fine hair olden time: work of R. E. Mosely, were much admired.-There were upwards of twenty contributors of wines, from rhubarb, currants, grapes and blackberries. The above, with the market day and the trial of fire engines in the afternoon, brought together a large company to the city.

For the New England Farmer.

HUSKING CORN.

to suggest to those who have stooked their corn throats could conveniently swallow, but to carve this fall, to try the plan of breaking off the ears before they husk them. Let one hand, (or the thumb and fingers,) be pressed tightly against the butt; take hold near the top of the ear with be operated on by her, and her alone; since the the other, and bend over, and break off. A lit-peers and knights on either hand were so far the skill and practice will enable one to break off from being bound to offer their assistance, that many of the ears, so that very few, if any, of the the very master of the house, posted opposite to husks will remain.

floor, (a platform made of a door or boards, and for the crowd of guests, the most inconsiderable high enough to get your feet and legs under, is among them, if suffered through her neglect to better.) the butts to the right, and tops to the help himself to a slice of the mutton placed before left. Begin on one side, and take the ears "clean him, would have chewed it in bitterness, and gone as you go." The stook need not be untied, but home an affronted man. There were at this time may be put away when all the ears are off. Just professed carving masters, who taught young latry the plan, fellow-farmer; we doubt whether dies the art scientifically, from one of whom Layou will be willing to go back to the old method dy Mary took lessons three times a week, that of stripping down the husks of stooked corn, she might be perfect on her father's public days, first, especially if they stick close.

October, 1859.

TRANSPLANTING TREES .- We have but a moment to call attention to this important item of autumnal work. As soon as the leaves have fall- yearning for disinterested love; much more so en, it is a good time to transplant apple, pear, or shade trees. Some think the fall a better time a little, and get a hold that helps them very may be possessed of—only, I say, make him feel much the first summer. But the trees should in which you go to work. Men are as voracious be well banked up with earth, to keep them in a as boa constrictors, they will swallow almost any steady position. Business is not usually so press- quantity of flattery, provided always that it be ofing in the fall as in the spring, and the trees fered at the right time. It won't do to flatter ing well transplanted.

THANKS .- Friend STANLEY, of South Attleboro', will please accept our thanks for the polite invitation extended to us. Engagements for time, we shall be glad to make it.

LADIES' DEPARTMENT.

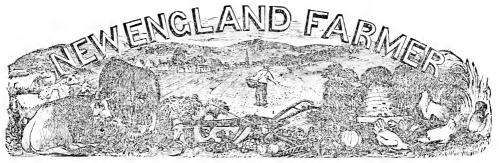
CARVING AT DINNER.

This extract from the recently published vol-Among the faucy articles, I was struck with ume entitled "Dinner, Breakfast and Tea," fur-

Carving was anciently taught as an art, and it was performed to the sound of music. In later times, we read in the life of Lady Mary W. Montague, that her father, the Duke of Kingston, "having no wife to do the honors of his table at Thoresby, imposed that task upon his eldest daughter, as soon as she had bodily strength for the office, which, in those days, required no small share; for the mistress of a country mansion was not only to invite-that is, to urge and Mr. Editor :- Will you allow a subscriber tease her company to eat more than human every dish when chosen, with her own hands. The greater the lady, the more indispensable the duty. Each joint was carried up in its turn to her, might not act as her croupier; his depart-To do the thing easily, lay the stook upon the ment was to push the bottle after dinner. As -when, in order to perform her functions without interruption, she was forced to eat her own dinner alone, an hour or two beforehand.

DISINTERESTED LOVE.—Yes! man has a strong than woman. Once convince a man that you love him, truly for himself-for his own self-independently of riches, rank, station, position, or any than the spring, saying that the small roots start of the thousand and one advantages that he will, for this reason, stand a better chance of be- one man in the presence of another. Be careful of that; but let a woman take the lucky moment, seize upon the right opportunity, and she may make a man-ay, in spite of all his wondrous sense and reason-her slave for life.-Millicent Neville.

GLOVES .- In the early ages of Christianity, some time to come, will prevent us from availing gloves were a part of monastic custom. and, in ourselves of the pleasure and profit we might receive by the proposed visit. But, at some future token of investure; and to deprive a person of his gloves was a mark of divesting him of office.



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SIMON BROWN, EDITOR.

FRED'K HOLBROOK, / ASSOCIATE HENRY F. FRENCH (EDITORS F. FRENCH, (EDITORS.

DECEMBER.

"Old Winter is coming again, alack ! How icy and cold is he! He cares not a pin for a shivering back-He's a saucy old chap to white and black-He whistles his chills with a wonderful knack, For he comes from a cold countree,"



ECEMBER has come round again, and we must now prepare for that "three months of winter," and nine menths of considerable "cold weather,"

ous ways of prepar-

we always considered a highly philosophical pro- race. Yes, even the toad which lives a hundred ceeding, besides being a great saving of food and years imbedded in a solid rock, will be no whit fuel, to say nothing of wear and tear of nerves in behind his fellow toads, who have enjoyed all the bewailing those contingencies which cannot be privileges of the age. But man cannot afford to avoided.

hardly know whether it is quite fair to call those to be invented, Great Easterns to be got to the robins that stole all our cherries and strawber- Western Hemisphere, and balloons to be perfectries, "our friends,"] most of them leave us, and ed; so he builds him a house for shelter, he has sing their songs to other ears. The frog goes a fur coat to brave the northwester, and fires to down somewhere out of sight, and never deigns make his dwelling of summer temperature. So another croak, till spring lets loose the streams to every creature, according to its degree, is givand rivers once more. He greatly enjoyed his en wisdom sufficient for its comfort and presersummer life in that pool with the yellow cowslips vation. on its bosom, and the wild pines and hemlocks. The mere matter of warming our houses, by

on its margin. The old moss-covered log that fell across it ten years ago, and has been slowly going to decay ever since, has got to be a kind of home to him, but he knows too much to put his head out such weather as this, so we will leave him to his meditations till next April.

And the dragon-fly and devil's darning-needle, which used to hold their carnivorous revels over that same pool, where are they now? Is it possible that creatures so insignificant, are remembered by the great mother Nature, and have had imparted to them the secret of self-preservation?

Go, lean over the tumble-down rail fence by which that "frog pond," next summer, and you will be somebody says is convinced that it is so indeed; for you will see, the usual allotment. if not the identical insects that you knew a year There are vari- ago, at least, their children and grand-children.

But man, the lord of creation, cannot shirk ing for the unwel- out of winter by retiring to his den, or diving come tyrant, in or- into the mud, there to await returning spring. der to make his It is his to battle with the elements, and to turn reign as tolerable as possi-their fury to his own account. Those animals ble, and it is curious to which lie torpid during the winter, lose nothing note the efforts for this end thereby. To be active, would be to suffer; while made by man and beast. The bear they sleep, they are not falling behind the march retires to his den, and "sucks his of progress, but they will come out of their torpaws till spring," it is said, which pidity precisely on a level with the rest of their lose three months in ignominious oblivion. There The birds, those summer friends of ours, [we are planets to be discovered, Atlantic telegraphs

preparations for winter, and we are inclined to loving, operas and concerts for the musical, and think the ne plus ultra has not yet been invent-lectures for the more sober-minded. In short, ed, and that a triumph still remains for somebody, "the season opens" for all but the poor! and it in this line. The old-fashioned fireplace is fault- opens to them with the sad question, how shall less as it regards ventilation, or as an ornamen-they keep off cold, and nakedness, and hunger tal object, merely, but it lacks the one essential and yet not be tempted to break the commandquality of warming the room! You may sit and ments, and covet or steal their neighbors' goods ' gaze at it in a poetic ecstacy, and see all manner of things in the coals, and think how your great grandmother sat by just such a fire, but you feel a cold wind playing about your ankles; you lation, where a few months since all was so calm change your seat, and a blast sweeps over your and beautiful! Where the green leaves trembled shoulders, and creeps down the back of your in the breeze, naked branches now bend before neck; you change your seat again, and are greet- the north-west wind. The houses which were ed by a gale from that closet, which always howls softened and shaded by the trees and vines, now as if it had a squalling child shut up in it, and stand out in bold relief, like beauty bereft of the you begin to think the customs of your ances- veil with which she delights to enhance her tors may be improved upon in some respects, charms. The broad stretch of land which you You next try an air-tight stove. It is an inven- have often likened to the tion of the adversary, unattended by the proper ventilation. Why! a pair of bellows could not blow in such an atmosphere! But it is cheap, and does warm the room,—so air-tight stoves are almost universally used where wood alone is burned, and will be, till something shall be invented possessing these advantages, and some

All furnaces are open to one objection. There is no "ingle-side" to gather around-no bright, cheerful fire to form a centre of attraction for the family group,-and the heat, moreover, is by no means as agreeable as that of an open fireplace, provided you could contrive to escape the draughts attendant thereon. But of all contrivances yet discovered for warming dwellings, manufactories, workshops, or public buildings, nothing is so healthful, so easily managed and cheap in the long run, as steam. A moderate amount of steam will pervade and warm a large room, much quicker than furnace or stove heat, -and as there are no outlets for the escape of air, there will be no cold currents as in the case of open stoves or fireplaces. The reason why steam is be paid for in that item.

Though keeping warm is a great desideratum, it is not the only thing to be attended to, for winof life.

rather than diminish, as winter approaches. There terial to build two or three small barns than one

the way, forms a pretty important item in our are balls, parties, and theatres, for the pleasure-

"Yes, winter is coming, and God help the poor! I wish he were going away!"

Winter in the country-what a scene of deso-

"Sweet fields beyond the swelling flood,"

are now one bleak, unbroken desert of snow,and how the wind blows the snow about, down in the very spot where only a few months ago, little bare-footed children were out blueberrying, laughing, as they filled their baskets, with the ringing, happy laugh, which only children have!

No longer can you sit at your front door and watch the sunset, as it throws a glow on the treetops, and the church spire, and listen to the many voices with which nature is speaking, while you think of Abraham at the door of his tent, or Adam in the garden of Eden. No pleasant reveries, no quiet musings now. But still there is work to do-and the season brings with it the very energy which we need to accomplish it. Well is it for us that we have not to contend with the stern requisites of winter, without this additional vigor.

For the New England Farmer.

FARMING IN NORTHERN N. H .-- BARNS.

MR. EDITOR :- At a distance, the barns are the most prominent objects upon each farm. not more generally employed,—though it is now there are usually two to four in number—each coming into use in private dwellings, -is the measuring about forty by fifty feet. They are first cost of the fixtures. As the materials for well roofed with shingle and walled with single conducting steam are expensive, and as the work boards. They are so arranged as to form a part must all be exact the first cost is higher than of a hollow square for the protection of the cattle-yard. The walls present a large double and for any other mode of heating; but in the use two or three single doors, and a row of manure of steam for a series of years, there is so much windows. A shed usually extends from one side. saving of fuel, that the cost of the fixtures would Through the middle of the interior extends the floor—upon one side the "bay"—upon the opposite the "stable" and "scaffold." A grain room often occupies a portion of the bay.

This is the most usual arrangement of our ter brings with it an entire change in our mode barns. Connected with it are many evils. From the number there is waste of building-material, To the dwellers in cities, amusements increase, space and labor. It certainly requires more ma-

less flooring would supply the one larger barnand time and labor would be economized in feeding, clearing and stabling the eattle.

Improvements in barns have been made. Many have converted their two or three forty by the getting in of all the stover and stripping the fifty feet barns into one measuring fifty or sixty husks from the ears?" by ninety or one hundred feet-a floor extending the whole length. But these are not models. The form necessitates proportionally more floor building material than if it were more nearly

Again, many have increased their "barn-room" by making to one side of a barn of usual size, sufficient addition for a stable-and converting the old floor into bay and the old stable into floor. Thus the amount of stowage is almost double, at small expense. This is a profitable plan for those who are slowly but surely increasing their amount of hay and grain-and one that

is extensively followed. The proper protection of domestic animals, the making of manure, the economizing of labor and two-thirds days' work for a man to produce an building material, the safe and convenient stowage of the bulky farm products, and the fact that much of the farmer's labor and nearly all his available property are in and about the barn for full one-half the year, render this the most important subject connected with agriculture. Sav-|days' less labor than they did then. ing as well as producing is necessary to successful farming.

But improvements in building are not so rapidly or generally diffused through the community, as those of the various farming implements. An improved tool may be manufactured and seattered among thousands of farmers, while an improved style of buildings would be unknown beyond the adjoining farms. Again, from the expense, an old cannot be often exchanged for a new and improved style of building.

This evil should be counteracted by engaging experienced builders-by offering prizes for the best plans and models at our fairs—and discussing the subject in the agricultural journals.

But more of this again. W. C. Bath, N. II., Nov. 3, 1859.

this subject, which may prove discouraging to a beefsteak or mutton chop is done quickly, and some, but one which well deserves attention and over a quick fire, that the natural juices may critical investigation. We understand that the be retained. On the other hand, if the meat be world is sustained by agriculture; that in it, it lives and moves and has its being; so there dried from the surface, and the flesh pines and must be profit somewhere. Whether that profit becomes dry, hard and unsavory. Or if it be put is to be found among our New England people, in cold and tepid water, which is afterwards is the question to be solved.

twenty-six days' labor as necessary to produce meat it should at once be put into water already one acre of corn. On referring to the "Transae-tions of the Massachusetts Society for the Promotion of Agriculture," we find that in the year put in cold water, and this afterward very slowly warmed, and finally boiled. The advantage de-1800, they sent out a series of questions all over rived from simmering—a term not unfrequent in the State, making such inquiries as would elicit cookery books-depends very much upon the replies likely to show the average cost of our effects of slow boiling, as above explained.

barn covering an equal space. Proportionally common farm crops. Among these questions was the following:

> "How many days' labor of a man are usually employed on an acre of Indian corn, including

> No question among the fifty which they propounded brought so many widely-different answers as this.

> Dr. Payne, of Worcester, set it at ten days; Dr. Hubbard, of Concord, at fifteen; Mr. Babbit, of Brookfield, at sixteen; Mr. Heath, of Brookline, at fourteen, and Mr. Gardner, of the same town, at eighteen; the Middlesex Society at fourteen; Mr. Kent, of Newbury, at twenty; Mr. Packard, of Marlborough, the same; and Col. Parsons, of New Gloucester, at thirty-two. The average of these returns gives seventeen and acre of corn, beginning with the plowing and placing the corn in the bin. With the improved implements of the present day, we ought to be able to accomplish the work with two or three

> The subject is an important one, and we hope it will receive careful attention.

EFFECTS OF HEAT UPON MEAT.

Prof. Johnston, in his Chemistry of Common Life, says that a well cooked piece of meat should be full of its own juice, or natural gravy. In roasting, therefore, it should be exposed to a quick fire, that the external surface may be made to contract at once and the albumen to coagulate, before the juice has had time to escape from within. The same observations apply to boiling; when a piece of beef or mutton is plunged into boiling water, the outer part contracts, the albumen which is near the surface coagulates, and the internal juice is prevented either from being COST OF FARM PRODUCTS.

In another column we give an article upon is subject, which may prove discourse to the mean yields much gravy, and is rich in flavor. Hence, brought to a boil, much of the albumen is ex-In looking over the items set down by our correspondent, we believe he has allowed about is nearly tasteless. Hence to prepare good boiled

THE NORTH AMERICAN REVIEW AND extent too wet for tillage or for health, into the AGRICULTURE.

leading literary publication of the country in its and careful observation of minute and discon-October number gives to the world an able article upon "Educated Labor."

upon "Farm Drainage," is made the principal the forum and in the field, discharging with sintext upon which the writer has based an elabo- gular tact the two-fold function of an accom-

tone, the well trained mind of an old correspond- the study and practice of agriculture. His artient of the Farmer, formerly of New Hampshire, cles and addresses are not the mere speculations be more and more distinguished, as Chancellor of flavor of fresh-plowed fields and new-mown hay. the Washington University at St. Louis.

Louis, and Dr. Peabody, the learned editor of equals in this country. He has the faculty of the North American, come before the public as making all his resources, of whatever nature, conthe advocates of the interests of agriculture, we may well rejoice in the assurance that our cause be. The necessity of 'gratings at the outlet of will have, at least, a fair hearing before the world. drains,' in order to keep out all sorts of vermin, In no way can we so well indicate the general drift of the writer of this article, as by a few extracts. See how "like apples of gold in pictures of silver" are his "words fitly spoken."

Shakspeare, Coleridge and Matthew Prior." of silver" are his "words fitly spoken:"

give themselves up in mad frenzy to slaughter sages thus fitted up for them; and entering the and extermination; dynasties may follow dynas- capacious, open front door, they never suspect ties in lengthening cycles of misrule and oppres- that the spacious corridors lead to no apartbe her interpreter."

Land drainage is the principal topic of discustice:

"Every book which sheds new light upon the principles and processes of agriculture in any of and lucid in its philosopical statements, it leaves little to be said by others on altogether the most important branch of American husbandry. It is tastefully printed and illustrated; and, if read at every farmer's fireside morning and evening with fudicious care,' it would soon renovate the face of the country, clothing the exhausted fields at the East with fresh verdure, and turning the accan-like prairies of the West, now to a large

very garden of the world. The author is one of We deem it a good sign of the times, that the those versatile, open-eyed men, whose constant power of analysis and generalization. He presents a pleasant combination of scholarly culture The treatise of our associate, Judge French, and practical energy, and is equally at home at rate article of twenty-five pages, which we should be glad to copy into our columns, could we find pace.

We recognize in the finished and classical style of the soil and special contributions of the soil and special contr of this article, and in its bold and vigorous the leisure wrung from a laborious profession to but now known, and hereafter, we doubt not, to of a white-handed theorist, but they all have the As a racy and instructive writer upon the various topics connected with the garden, the orch-When such men as Chancellor Hoyt, of St. and and the farm, he has no superior and few

"'There are,' he says, 'many species of vermin, "A nation is strong only when, like the fabled both creeping things and slimy things that crawl Libyan giant, it rests its feet upon the solid with legs, which seem to imagine that drains are earth. Land is the basis of our power; the eventual terms of our imperial sover dry times it is a favorite amusement of moles, ereignty. Men, in successive generations, may and mice and snakes, to explore the devious passion; the refluent wave of barbarism may dash ments, that their accommodations, as they proagainst the broken arches of a former civilization; palaces, temples, capitols, all the trophies of art, may pass away in the ages like the ophemera of a summer morning; but Nature is eternal, a gress, grow fine by degrees and beautifully less, and that these are houses with no back doors, or even convenient places for turning about for a retreat. Unlike the road to Hades, the deand the husbandman is her minister, and should scent to which is easy, here the ascent is inviting; though, alike in both cases, 'Revocare gradum, hoc opus, hic labor est.' They persevere upward Land drainage is the principal topic of discus- and onward, till they come, in more senses than sion throughout the article, and the recent work one, to an 'untimely end.' Perhaps, stuck fast of Judge French comes in for the following no- in a small pipe tile, they die a nightmare death; or perhaps, overtaken by a shower, of the effect of which, in their ignorance of the scientific principles of drainage, they had no conception, they are drowned before they have time for deits departments, we welcome as a contribution to liverance from the strait in which they find themthe public welfare. Such is the work whose title we have placed first at the head of this article. Elaborate in its explanation of methods, In cold weather, water from the drains is warmer and lucid in its philosopical statements, it leaves than the open ditch, and the poor frogs, reluc-

As to advantages of Drainage at the West, Dr. Hoyt remarks:

districts of this country are lower and flatter affirm, that there is not a cotton-mill in the counthan those of England, and that they receive try, with operatives, whether native or foreign, double the amount of rain-fall per annum. We too ignorant to read and write, which could be have no doubt that the value of the prairie lands made to yield a profit in the best times. The in Illinois, Indiana, Iowa and Missouri might be fabrics would be inferior in quality and in quanat least trebled by a proper distribution of drain tity; the muchinery would be misused and pretiles, four feet under ground. Corn, instead of maturely worn out; and the stockholders would being dropped into sub-aqueous drills from a raft, in June, with poor prospect of a harvest, might ence between dividends and assessments." be planted on dry ground, early in May, with an assurance of reaping a hundred-fold. Wheat, no longer frozen out of the clayey soil every winter, might yield, not twelve, but, like John Hudson's on his Castle Acre farm, 'forty-eight bushels to the acre.' The farmers themselves, now shaking with intermittent chills amidst the noxious miasmata that rest like a pall upon coarse sedge and miry pools, might riot in fragrant clover and luxuriant health."

The following remarks forcibly express the principles which we have constantly advocated in our columns and elsewhere, wherever our voice could be heard.

"Every profound thought lifts a shadow from the earth. Every good book, whether it treat of "Farm Drainage" or "Celestial Mechanics," helps forward the millennium.

"The advantages of intellectual culture are as obvious in those pursuits involving manual labor, as in the learned professions, so called. good education is of some consequence to the lawyer and physician; it is of not less consequence to the mechanic and the farmer. We have learning go a great way with the wondering multitude; but such poor tricks cannot be played off upon the hidden forces of nature. It is the finger of Intelligence alone which can touch the secret springs that set the mountain streams to the mu- tance of thorough drainage and deep culture. sic of machinery, and clothe the naked fields with waving grain. It is a maxim in New England factories, where a fluctuating and often hostile tariff has taught a wise economy, that they cannot afford to hire cheap, ignorant labor. Not large number from England. But it turned out that these persons, though paid but half the wages of the hetter-educated operatives at home, were nevertheless an expensive luxury to their employers. They could not earn their living, four exceptions, dismissed. A partner in one of the most respectable mercantile houses in Boston, having the principal direction of extensive cotton-mills, stated, a few years ago, in reply to the interrogatories of a Congressional Commitant and attractive? Some one has said that the

they may be seen in single file by scores, at the of the remaining eleven hundred and fifty-five approach of an intruding footstep, scrambling up the pipe. Dying in this way affects these creatures as 'sighing and grief,' did Falstaff,—it blows them up like a bladder.'" was just twenty-seven per cent. in favor of the latter. There were also in the same mills one tures as 'sighing and grief,' did Falstaff,—it blows them up like a bladder.'" mistresses was seventeen and three-fourths per cent. above the general average, and more than forty per cent. above the wages of those who "It is to be remembered that the agricultural were obliged to make their mark. It is sa'e to be soon brought to a realizing sense of the differ-

> The following sly hit at our political aspirants, deserves to be repeated: "We may in accordance with a well-known political principle, select for our premium crop a piece of land, which, like a candidate for some high office in the nation, has a southern exposure, and which will, therefore, receive a greater number of solar rays on a given area than a northern slope or a horizontal level."

> We hardly know where to stop in our extracts from this article. Every page abounds with sentences which are worthy to be written in letters of gold and displayed on the door-posts of every farm-house in New England. The dignity of labor, the superiority of force guided by intelligence over mere physical power, and the importance of cherishing a taste for the beautiful in the farmers' home, are among its prominent topics.

Then the writer, by various illustrations, brings out clearly to view the advantages of sciknown professional men who could make a little entific knowledge to the agriculturist, showing the effect upon vegetation of heat, of light, of air and of moisture, and as incidental to those essential conditions of vegetable growth, the impor-

Then follow some carefully considered remarks upon protection of crops from insects, showing that the farmer has in the insect world friends as well as foes, and the necessity of his many years ago a factory in Lowell imported a knowing how to discriminate between his friends

Then we have a kind word for the beautiful singing-birds, and finally an exhortation to cherish our Home, as the centre of all true civilizaand, in a few weeks, they were all, with three or tion, with which we must take leave of an article which we trust will be generally read throughout the country.

tee, that, of the twelve hundred operatives annually employed by him, forty-five only were unaguage are Mother, Home and Heaven. They ble to write their names; and that the difference naturally go together, either of them implying between the average wages of these forty-five and the two. The great error in Plato's Republic is

his subversion of the family. No mere commu- and a sluggish circulation, except in these spots fortune; that they can in reality, or in prospect, remedies. enjoy the fruits of their industry around some warm domestic hearth-stone.

has an attractive outward seeming and a lumi-awhile; wash thoroughly with soap and water, nous inward life. To secure the former, there and then anoint with sweet oil.—Homestead. must be some architectural fitness about the buildings, and an exhibition of good taste in the grounds. To secure the latter, there must be books, social and intellectual culture, and the hallowing influence of every Christian virtue. for drying apples, and the well-ripened, choice Human beings may exist in a habitation whose fall varieties are by far the best for the purpose. uncouth ugliness, concealed by no overshadowing tree or climbing vine, is a pain to the eye. Some people have an idea that anything in the They may accustom themselves to its shapeless shape of an apple, big chough to pare, cut and core let the flavor be what it may is just as good deformity; to the rude inconveniences which for drying as another. We beg leave to correct fruitlessly exhaust time and strength; to the 'ear-this error. It is just as important to have a good piercing fife' of half-starved squealing brutes, apple to dry, as to eat raw, cook or bake. looking wistfully from hollow eyes, like animated 'anatomies of melancholy,' or wallowing in impassable mud before the kitchen door; to the stercoraceous stenches which, exhaled from contiquous manure-heaps, do not 'waste their sweetness on the desert air,' but pour through the windows, checked by no intervention of 'shocking bad hats,' and neutralized by no fragrant breath of flowers. Such a place is not a home, tered, or half-quartered, according to the size of but rather a lair for wild beasts; and the chil-the fruit, or the use to be made of the article dren who come forth from it will carry its taint when dried. and its barbarism to the grave.

A fine-looking house, on the other hand, like a fine-looking woman, cannot but exert a cheerful and elevating influence upon the community. There is a renovating power in every object of beauty and of worth on which the eye of man can rest. Steele was not extravagant when he said of a certain lady, whom the poet Congreve had admired and celebrated, 'that to have loved her was a liberal education.' We always grow into the likeness and catch the spirit of our surroundings."

TREATMENT OF GARGET.

have been troubled by one quarter of their udders put them in a kiln, or drying-room, with a heat becoming hard, and would give bloody milk for of a hundred degrees of thermometer. Let the a few days, then would dry away and lose the use kiln be ventilated at the bottom and top, to pass of it entirely. G. M. K.

This is a clear case of garget, and if taken early, make a perceptible draft through it. the remedy is simple; but first it is an inflammasally it is accompanied by coagulation of milk twenty degrees, and so continue until they are

nity,' whether foreshadowed by a Grecian philos- where the inflammation is intense. The cure in opher or organized by a French Socialist, can the early stages is effected usually by kneading develop in men the deepest sympathies and the the bag, frequent milking, and washing with highest energies of their nature. Sunder the warm soap and water, or spirits and water, or ties which unite them in family groups, and the both; often, however, the bag is so sensitive that incentive to labor is gone. The sweet charities the cow will neither allow the calf to suck nor and beautiful amenities which spring up and the udder to be touched, even. The use of Tincflourish in the magic circle of home, cannot take ture of Arnica has come in great repute for the root by the wayside of a nomadic life. They require 'a local habitation.' Family and property are correlative terms; the love of the one creates a desire for the other. The incentives which permitted it to be pressed and worked by the impel men to the drudgery of the shop or field hands, washed with soap and camphor, etc., allie in the fact that they have given hostages to lowing the application of any of the common

We advise in this and similar cases to use arnica at once. Take tincture of arnica and dilute it with twice as much water, or rum and water, There are many homesteads which are not and wash the bag with it. Then milk and knead homes. Philosophically speaking, a true home it, and then let a hungry calf take a turn at it

ABOUT DRYING APPLES.

October and November are the best months Some people have an idea that anything in the core, let the flavor be what it may, is just as good those, therefore, who want good dried apple, we will offer a few suggestions.

1. Let your apples be of good size, fair in shape, choice in flavor-sweet or tart, as you may prefer; both are good for a variety of purposes. They should be gathered without bruising; laid by till nearly ripe, but not quite ripe; pared with a machine-if you have a good one and quar-

2. Let the work be done as rapidly as possible, for the fruit may ripen too fast after beginning to do them, and keep the cutting and coring up

with the paring; for the moment the open flesh of the fruit becomes exposed to the atmosphere, or heated, it begins to lose its aroma, moisture, and flavor, all to the damage of its quality when

3. If you choose to string them, which may be done, or not, as you prefer, do it as soon as you can. We should not dry thus, preferring wire-racks for the purpose. Then instead of hanging them up by the side of the house, in the sun, or in the kitchen, where millions of flies will Within a year or two past some of our cows alight upon, and live on them for several days, off the exhaling moisture, but not enough to

4. When the drying heat has sufficiently closed tion of the bag or one or more of the quarters, the pores of the cut fruit to prevent the escape and arises from various causes. Almost univer- of its aroma, the heat may be modified ten or

known by breaking a few pieces, and the absence owners. of any settled moisture in the flesh, showing fermentation.

in small bags, or sacks, not closely crowded in, animals being present. They are principally of but as they will naturally fill; tie them closely, the Morgan blood, and exhibit very generally, and hang them to nails on the side of a dry room, their especial traits of character. They will thus keep indefinitely, or till you want

the table, while indifferent varieties, carelessly good in quality. worked up, strung and dried in the kitchen, half covered with flies, fused with the steams of cook- to the display of horsemanship, the ladies' handiery, dust, and the accumulations and exhalations work, mechanical exhibitions, and the balloon of an open and disordered living room, are not ascension, by Mr. Wise. The display of matched fit to eat, nor even to sell. We have seen apples horses was unusually large; there was, also, a dried after the latter fashion, even in the house-very good show of stallions and roadsters. holds of otherwise tidy people; and to those who are in the habit of doing so, we say, try the oth-Floral Hall. The ladies did nobly, in adorning er plan, and if they do not acknowledge it a bet-and beautifying their apartment so extensively ter way, in every possible use an apple can be with their rich handiwork. Nearly 400 entries

For the New England Farmer.

CALEDONIA COUNTY FAIR.

Messrs. Editors:—The annual fair of the Caledonia County (Vt.) Agricultural Society was held upon the new fair ground in St. Johnsbury, tables was very good, considering the season. Sept. 28th and 29th; and the grounds were occupied by the company for a trial of speed and melons, onions, turnips, peas, beans, tomatoes, equestrianship, the 30th. The weather during c., were numerously exhibited. The display of the last two days was exceedingly fine, and the fruit was quite meagre, but little having been exhibition, as a whole, was considered a complete raised in the county, the present year. success. The ground has been in preparation for about two years, and at an expense of nearly \$8000, has been put in readiness for the present year's exhibition. It comprises twenty acres of year's exhibition. land, and is surmounted by a substantial fence about an hour and a half in duration, descended The chief building, comprising the Ladies or in an adjoining town only ten miles from the Floral and Mechanics' Halls, is 240 feet in length; the principal part two stories high, with an observatory. The judges' stand is a very convenient speed of horses, either in or out of the county, little building, of two stories from the ground, and by a display of equestrianship. There were the judges occupying the first and the music the several horses entered to compete for the presecond story; the lower or ground floor is finished for a committee-room. Both buildings are very conveniently arranged, tastefully ornamentmodation of those desiring them. Within the the same time. enclosure is a half-mile trotting-course, which is each side. As a whole, probably this fair ground is second to none in the State.

But to the fair. The first day was devoted principally to the show of stock. There was a large number of cattle present, particularly oxen. themselves honor in their exhibition of horse-The town of Waterford led in this department, manship. presenting 111 pairs. St. Johnsbury, also, presented 75 pairs; many from both towns being It was estimated that twelve thousand people extra cattle. The show of bulls, milch cows and were in attendance, which is sufficient proof of young cattle, generally, was good, some of them its popularity and success. possessing very fine qualities. The Devons and Durham bloods are most prevalent in the county, although there are many fine specimens of the

sufficiently cured for storing away, which may be peculiar "superiorities," as claimed by their

The exhibition of horses, including stallions, matched spans, mares and foals, and roadsters, 5. When sufficiently cured, pack them away was a credit to the county, many very superior

The number of sheep was not large, but there to use them.

A well selected apple, properly pared, cut, which were worthy of note. The show of swine cored and cured, is one of the best luxuries of was similar to that of sheep; few in number, but

The second day was devoted more particularly

put to, call upon us for the difference in expense. were made for premiums, besides many which —American Agriculturist. were presented merely for exhibition. There were some fine specimens of painting, hair-wreaths and embroidery, which exhibited much taste and skill on the part of the ladies of the county. Mechanics' Hall contained specimens of high order, which, together with Floral Hall, formed a very interesting feature of the fair.

The show of farm products and garden vege-

The ascension of the aeronaut was a capital af-

ed and well painted. Directly in front of the B. Ballard, of White River Junction, Vt. E. H. judges' stand are elevated seats for the accom-Gilman's "Baldwin Horse," of Bradford, made

Five equestriennes displayed their skill in well made, and properly guarded by a railing on horsemanship very satisfactorily. They made a good appearance, and did their work admirably.

This was followed by a display of equestrianship by eight young lads, who came forward like so many marshals upon a muster-field, and did

Thus ended Caledonia County Fair for 1859. I. W. Sanborn.

"The Meadows," Lyndon, Vt.

There is many a man whose tongue might Ayrshires and Herefords, each possessing their govern multitudes, if he could govern his own.



THE HONEY, OR SWEET, LOCUST.

common in New England, but flourishes best in thorns, about half the size of the first.

The leaves of the sweet locust are pinnated, and composed of small oval, serrate, sessile leafters. This foliage is elegant, and of an agreeation. perfection and beauty growing on the banks of the passage of the sunbeams. the Potomac river, with the spurs or thorns ten ly at the approach of winter.

The flowers are small, not very conspicuous, and disposed in bunches. The fruit is in the stocks in Ohio, which were three or four feet in form of flat, crooked, pendulous pods, from diameter, and, which appeared to equal in height twelve to eighteen inches long, and of a reddishble hedges when properly trained, and endures; the climate well. We have one which has been growing ten years, and presents so many sharp points that few animals would venture to pass published by A. O. Moore, N. Y.

ligneous, of a reddish color, and armed, at some American guano is a safe article, and is probably

The Honey Locust, Gleditschia triacanthos, is distance from the base, with two secondary

the Mississippi river. We have seen it in great ble tint; but it is thin, and searcely obstructs It is shed annual-

the loftiest trees in the immemorial forests of brown color. The pods contain brown, smooth that State. Some of them had the trunk undi-hard seeds, enveloped in a pulpy substance, vided for forty feet. This plant makes admira-which, for a month after their maturity, is very ble helyes when moved trained and endures sweet, and which then becomes extremely sour.

PERUVIAN GUANO.

We find an article in the papers stating that through it. We copy the engraving, by permisthe importations of Peruvian guano have greatly sion, from WARDER'S Hedges and Evergreens, decreased. We are glad of it. Not because we think the article is worthless in itself-but be-The sweet locust is easily known by its bark, cause we are satisfied that the extravagant priwhich, at intervals of a few inches, detaches it-ces demanded and paid for it, make it worthless self laterally in plates three or four inches wide to the farmer. We are glad the importations are and two or three lines thick, and by the form of its trunk, which appears to be twisted, and which falling off, because the prices fixed by the Perupresents three or four crevices of inconsiderable vian government are exorbitant and anfair, and depth, opening irregularly from the bottom to-wards the top. The large thorns which cover the branches, and frequently the trunk of young purchase a single ton of it. It ought to be af-trees, afford another very distinct characteristic. These thorns are sometimes several inches long, forded in Boston for less than \$40 a ton. The

coming year for \$40 or less, per ton.

The quantity of guano shipped from the Chincha Islands in 1857, was 490,657 tons; in 1858 it ness." was 266,709 tons,—a falling off in a single year of nearly one-half. In the first six months of used to tell us of a British soldier, who remained 1859, it was 46,577 tons, a much smaller amount in this country after the Revolutionary war. He than at the same time last year.

computed at three millions of tons—an amount pleasant a day, they were suspicious of it. It absolutely inconceivable by any of us, and yet, with thousands of vessels lying idle at the wharves in spring and summer, to see what crops they for want of employment, we are told we must pay have gathered in the fall. \$65 per ton for the Peruvian guano! We should be glad if all our people would refuse to purchase every kind of crop in abundance. Indian corn another pound of it.

For the New England Farmer.

year that was not? All not equally so, but enough that will observe providences, will have providences year to fill all hearts with wonder, gratidences to observe," and he will often find that tude and praise. And yet, how many complaints what, at the time, seemed a judgment, was a real are uttered every year of cold, backward spring, blessing, of late or early frosts, drouth, blighting, hail, a cab of dove's dung, (supposed to be an almost sects which they destroy, worthless vegetable resembling dove's dung,) for Let, then, farmers of ey five pieces of silver (about \$2,50); or, when one soling truth, that whatever else may be wrong, mother said to another, "Give thy son, that we He that ruleth the weather and causeth the earth may eat him to-day, and we will eat my son to- to yield her increase, understands His work, and morrow." Had we ever witnessed one such year, doeth all things well. it might cure our complaining, and inspire our hearts with gratitude for years of no greater abundance than the present.

I have been young, Messrs. Editors, and now am old, yet I have never seen a year that was not crowned with goodness, especially as respect-

as good a fertilizer as the Peruvian, and we pre- I often hear complaints (Moses might call them dict that vast quantities of it will be sold the murmurings) of bad weather, unfruitful seasons, light crops. Have we not, at this moment, much greater cause to speak of His goodness? "O,

My father, who has long since gone to his rest, kees were. It was always too wet or too dry-The quantity of guano on the islands has been too hot or too cold; and if there came ever so

The years vary. Rarely does the earth yield and the smaller grains, wheat, rye, &c., do not often yield largely the same year. In some localities in this region, there is but little fruit, and corn will be light. All other crops are not THE YEAR CROWNED WITH GOODNESS, often better. It seems good to see potatoes come out of the ground free from rot, and of good And when, Messrs. Editors, have we seen a size and quality. Some old writer has said, "He

Some five or six years since, we had a very wind, insects or something else destructive to warm April, and it hatched out an innumerable the crops and ruinous to the hopes of the husbandman! But has any man living ever seen a year crowned with wrath? Would such a year freeze, which killed them before their depredations became visible. The frosts of last May and has a property of the control of t children receive, year after year, only good at the June had a similar effect. Some years it has hands of God? This is not the manner of men. God's ways are not our ways, nor His thoughts every green thing. This year, there have been our thoughts. He causeth His sun to shine on but very few. I did not see one until the 18th the evil and the good, and sendeth the rain on of July, and he, though pretty fully grown, had the just and on the unjust. What living man, been so excluded from the air and light in the indeed, has ever seen such a year of scarcity and thick grass, that he could neither fly nor hop. I want as we read of, 2 Kings, sixth chapter, doubt not that frosts in May and June that nip when an ass's head was sold for four-score our vines, and are regarded as a calamity, do pieces of silver, (about \$40,) and a fourth part of much less injury than would be done by the in-

Let, then, farmers of every class learn this con-

Monadnock, No. 4.

BUCKLIN'S IMPROVED HARROW.

Messrs. Hobart and Spaulding, of East Peped the productions of the earth. I remember perell, Mass., are introducing a new implement that in my boyhood, the crops were somes mes shortened by drouth, insects, or some other cause, and there were no such facilities then as now, for getting supplies from a distance. I retimes, and on different kinds of soil. It is a heavy implement, and requires a strong team. member going to mill, ten or twelve miles, on heavy implement, and requires a strong team, horseback, with the last bushel of corn, and then and when provided with it, accomplishes a great going into the field, and gathering the first deal of work in a given time. On wet lands, the ripening ears, and drying them in the sun, or by the fire, for the next grist. But still we had Thanksgivings, and thought we had something to be thankful for. But now, instead of "eating and giving God thanks," as was then customary, will bring a newly-turned sward into a finely pul-

verized seed-bed, so that the labor of planting ten to twelve acres of heavy corn, which, on acopinion in regard to its merits, and we can only large and well filled out, and the yield, per acre, say, as we do of all implements and machines, though not known, must be great for this region. until he has given them personal attention and no mean sight! Mr. Potter has, in all, about fifinvestigation.

For the New England Farmer.

CROP3 IN ESSEX COUNTY.

MESSRS. EDITORS: -Below may be seen some statements as to the yield and quality of crops in this town and vicinity.

favorable, our people have realized only a fair The "Jackson White" and "Scotch Apple" are crop of English hay; but it is of the finest qual-ity, having been well matured in growth and ten to sixteen hills to the bushel. Mr. Jarvis cured in the best order; some stubbles have LAMSON, a good farmer here, who raises large come in well, while old bound-out lands have quantities of produce, I am informed, is digging produced light burdens. A few fields have produced two tons per acre, but in such cases the hills to the bushel! The Chenango, which has ground has received outside dressing, or has late- been so highly esteemed for years past, and which ly been laid down. Although some of our farm has rotted the most extensively with us, has beers have given their attention to the improve-come quite unpopular, and seldom planted, ment of mowing lands by converting intervales. Onions are extensively raised on the planted. and previously unproductive land into English Mrs. Saunders, of Salem, superintended by Mr. mowing, yet, generally, this is not the case, and James Manning. Good crops have been realized though the present progressive age calls loudly for a few years past, but the crops of last season for such improvements, there are hundreds of and the present, here, suffered from the maggot. acres still in the crude state, only waiting to be Some two thousand bushels a season have been turned upside down and sown to hay seed to pro- raised on this place. duce the owners two tons of hay to the acre.

Meadows" in Topsfield, have produced well. former years, and have yielded a good supply for Some seasons, when heavy and early rains fall, family use. these valuable meadows are flowed, and in many cases cannot be cut during the season. This year to any extent. Some gardens have afforded a

ity. Some pieces of winter rye were so stout as \$4 to \$5 per bushel. to make harvesting quite slow and difficult.

any kind of grain grown by our farmers.

Oats are raised to some extent, and peculiar farmers in our own community oats that would mont and Canada, either in quantity or quality.

Pastures became short very early in the season, and of course, this has essentially diminished the products of the dairy. Mr. PRESTON LOV-ERING, of this town, informs me he has thus far, in feeding his stock of twenty head at the barn, question.

more in a hill than some seasons, and the husk manifested. has lain so close to the ear, being so green and

and hoeing is very light. Our use of it has not been sufficiently extended to justify a positive on a large plain, and manured well—the ears are that the farmer should be slow in adopting them Truly, twelve acres of heavy corn upon a plain is teen acres of corn.

Potatoes are better in yield and quality than for several years past. The disease, which has been slight, did not commence till quite late in the season, and fortunately, (providentially, we may say,) that most valuable of vegetables has, to a great extent, escaped the rot, and we have atements as to the yield and quality of crops in reason to hope that the fatal epidemic will soon disappear. The quality of potatoes this season Although the nature of the season has been is particularly spoken of, both in grain and flavor.

Onions are extensively raised on the place of

Pumpkins and squashes did not suffer so much The meadows on Mill's river, and the "River in the early part of the season from bugs as in

Pears and peaches are not produced among us they were cut early, and are well secured.

Rye has yielded well, and is of very good qual
"Bartlett pear," which have readily brought from

Apples are few and far between, generally, Barley generally yields well, has a good ker-though some orchards will yield a surplus above nel, and pays as well for the land and labor as home demand, and some others will just supply the wants for family use.

The cranberries, owing to the early frosts, will soil in favorable seasons will produce oats of a not be equal in quantity, if they are in quality, fair quality, but I have never yet seen among the compared with past seasons. The grass and bushes which grow among the vines and shade them, begin to compare with those produced in Ver- serve to protect the fruit from the effects of frost and therefore these should never be mown off.

Z. A. APPLETON.

Патіlton, Oct. 10, 1859.

Annual Meeting of the Massachusetts consumed over three tons of English hay. Cut- HORTICULTURAL SOCIETY.—The annual meeting ting "second crop" this season is quite out of the of the Massachusetts Horticultural Society took place in their building in School Street. From Corn, owing to the early frosts, heavy rains, certain causes well understood among the mem-no drying winds following, has proved next to a bers, but of no public concern, there was an un-The ears have very sharp tips, though usually full attendance, and much interest was

Three tickets were in circulation for officers of moist, that in some instances sprouts of half an the Society for 1860-all, however, bearing the inch long may be seen on the ear. While there name of the present very acceptable President, are some good fields, the universal cry is poor Joseph Breck, Esq., for re-election, and differing corn. Mr. WM. POTTER has a field containing only in a few of the candidates presented for

President—Joseph Breck.

Vice Presidents-E. S. Rand, Eben. Wight, J. F. C. Hyde, W. C. Strong.

Treasurer—William R. Austin.

Corresponding Secretary—Eben. Wight. Recording Secretary—F. Lyman Winship. Professor of Botany and Vegetable Physiology

-Prof. Asa Gray.

Professor of Zoology—J. W. P. Jenks. Professor of Horticultural Chemistry—E. N. Horsford.

LETTER FROM MR. BROWN.

An Old Town—Newspaper established—First Editorial—A Young Bride and a New Baby—Tyranny of Business—An Old Church, and an Old Swamp—Effects of Draining and Cultivation—Profits—Sheep on Old Pastures—Rural Residences near the Ocean—Good Examples—Sunday—and Consideration for For Formers. tion for Hoops.

Hingham, Mass., Oct., 1859.

GENTS.:-Many years ago, I was a citizen of this ancient and pleasant town,-and here, after a ramble through most of the States of the Union in order to see what lay outside of the pasture I had been feeding in, I embarked in business. That business was the establishment of the first newspaper of the place, in connection with a young chum as full of zeal as myself. Never to by land. The town nestles pleasantly among the be forgotten by me, are some things that happened at this period. It was easy to set up a ing several streets lined with substantial dwellpress and finger the types, but where were the ings, churches, stores and school-houses. The editorials to come from? The village must have old church—the oldest in Massachusetts, I beits newspaper-its advertisements, its political lieve, if not in the country-stands upon a gencalls, and notices of various kinds, together with the eminence, still in good condition, and has had its marriages, deaths, poetry and stories. All but five pastors in the space of two hundred and these now stood in fair array before us, but there twenty-four years! The population of the town was no editorial. There was nothing to write is mainly agricultural, though at a former period, about-nothing-the world was blank! "No a brisk and profitable business was done in the man knows what he can do until he tries." This mackerel and cod fishery. old saw haunted me continually, until in a fit of desperation the pen was seized, and the first editorial was born! Eureka!

Here, too, I brought my young bride, scarcely nineteen, and only a ninety-six pounder, but the organization of a vigorous town society, and as full of energy as the largest girl that ever in the reclamation of new, and the better cultibewitched a boy on the South Shore. In the progress of events, it seemed sort of strange that there were three of us in the family; the house appeared odd; there was an air of importance about every body, and a sly winking that betokened something either good or bad! But when the outsiders told me such was the way of the world, I reconciled myself to it with the best grace I could, and concluded to let it wag on. But I could scarcely make up my mind which delighted me most,—the birth of the first | would so rise up under that implement as to raise editorial, or the birth of the first baby!

pleasant character; acquaintances were rapidly home of frogs, muskrats and miasma, is a fertile

some of the minor offices. The following was the formed, and mutual benefits, 1 trust, were resuccessful ticket-a total number of I43 votes eeived from contact and labor with each other. The newly-born paper flourished in its youth, and grew into a manly vigor, so that "news from all nations is lumbering at its back" at this day.

> Business is a tyrant, gentlemen. It had out us off,-by the word us, I mean, not the editorial plural, but the corporeal, flesh and blood, us, my good wife and myself,-business had cut us off from all association with our early and excellent friends, now, for some fifteen years, and that is a loss not to be balanced by gold. So we resisted the temptations of business, and came to this old town to see our old friends, when the sun was shining softly upon October leaves, and the earth seemed as lovely as on that delightful May morning, when I entered the town with a young lady at my side, under a Leghorn hat almost as capacious as the hoops of to-day.

> This accounts for my dating at this place; and this essential preliminary being settled, I will leave personal reminiscences, and proceed to regale your readers, if I can, with some account of what I have seen and heard here.

> HINGHAM lies on Boston harbor, about a dozen miles from the city by water, and a trifle more graceful undulations that form the surface, hav-

Unusual attention has been paid to the agricultural capacities and interests of the town within a few years, which has resulted in frequent gatherings of those interested in the subject, in vation of old, lands. One of the finest examples I have ever seen of reclaiming a bog swamp, is on the farm of JEDEDIAH FARMER, Esq. I saw this swamp several years ago, when it was in reality a dismal swamp; it was low, wet, un. even, and covered with water brush, brokes, and uncounted numbers of wild rose bushes, that made it perilous to enter its repulsive borders. When these had been cut and cleared off, and the plow put in, the moss was ten inches deep, and it two feet from the level. But the axe, hoe, All my associations, business and social, with plow and fire, reduced all obstacles, aided by the the good people of the town, were of the most draining which preceded them, and now that

and smiling field, whereon corn and cabbages, so often asked-"How shall I reclaim my old beets, bagas, and potatoes and pumpkins, do most pasture?" All over New England there are exceedingly abound. Three tons per acre of the thousands of acres producing little or nothing best hay has been cut upon it, and the finest gar- that might be renovated by the introduction of den vegetables grow equally well. And yet, this sheep upon them, while the profits from the land has lain there in gloomy repulsiveness for sheep themselves, I believe, would be larger than more than two hundred years, an eye-sore and from the same amount of money invested in nuisance, for the want of some one possessing cows. I have been told of an instance where a faith and energy to take it in hand. When the hundred acre pasture fed scantily only twelve present proprietor commenced upon it, he was sheep and six cows the first year, but on the sectold that "others had attempted to subdue it, but ond summer fed well twenty sheep and twelve failed; that he might, possibly, make maples cows, and continued to increase in fertility until grow there, but nothing else would—they knew more than double this number was well fed upit." They ridiculed the effort, and sagely re- on it! minded him that "a fool and his money were usually soon parted." But, there stands the re- improvement, have erected pleasant country sult, gentlemen; send all your doubters to see seats in the neighborhood of the bay, or a little it. Each acre of it will yield more profit than back among the hills, as fancy or convenience two or three of the uplands which surround it, has suggested, giving striking examples of and it is well worth, to-day, \$200,00 per acre for what an acre of land may be made to produce agricultural purposes. Being near the village, These examples are of much value to the com the land cost about \$40 per acre, and it cost as mon farmer, if he is but an observing one, ac much more to reclaim it. Now let us see how they suggest to him what he can himself accomthe account stands with it? It now yields, and plish on his own premises, if he will but contract with the aid of a little top-dressing will continue his operations, cultivate less, and cultivate betto yield for many years,

Three tons of hay per acre, at \$18,00	
Interest on \$80,00	\$57,00
Fencing and taxing. 5,00 Cost of making the hay 9,00-	§18,80
Profit	338,20

I only give the figures as an approximation of the true result, being aware that the land must be manured annually to keep up this degree of fertility. But thirty-eight dollars, or even twenty-five of it, is a pretty good income from an investment on \$80,00, and would be thought so by most persons engaged in mercantile business.

SHEEP ON OLD PASTURES.

Some of the finest examples are afforded here, of the effects of feeding sheep upon pastures that have become exhausted of nutritious grasses, and grown up to bushes, briers, brakes and moss. I have seen pastures to-day that had become almost worthless, but now green and smiling as a lawn, with every inch among the rocks covered with the richest pasture grasses, and not a blackberry vine, wild rose bush, mullein, or other worthless plant in sight. The sward does not seem compact and bound, but loose and porous, and filled with the most healthy and vigorous roots. The sheep grazing upon these pastures, afford ample evidence of the richness and luxuriance of the grasses upon which they feed. These examples, with similar ones that I have observed in other places widely remote, would coast offering so many romantic and beautiful

Men of means, and full of love for agricultural ter, and by a more thorough preparation of the land by draining, subsoiling, manuring, and careful tending. In this good work I found valuable examples on the farms of the Hon. ALBERT FEARING, ALFRED HERSEY, Esq., JOHN R. Brewer, Esq., and that of Thomas S. Bouve, Esq. These gentlemen are all leading members of the town agricultural society, and mingle the influence of their personal example with that of well cultivated fields and abundant harvests. Some of them you know not only as merchants of unbending integrity and honor, but as men whose philanthropy is as universal as the want which calls it into being. They are public benefactors. Fine dwellings crown the hills that overlook the harbor, as well as the wide expanse of sea, strongly contrasting with the huge mosscovered rocks that everywhere line the coast, and lovingly look out from the dark cedars that are indigenous to the soil. The grounds around these dwellings are usually under a high state of cultivation, and many of the elegancies of rural life are introduced, such as flower-gardens, walks, avenues of trees, choice shrubbery and green-houses; and these form examples of taste which most common farmers may properly and profitably imitate in some degree. The whole country-naturally, rough and uninviting-is greatly improved by the introduction of these dwellings, and the true taste exercised in the laying out and managing their grounds. I can scarcely recall to mind any portion of our seem to shed light upon the perplexing question spots for summer residences, as on the graceful immediate vicinity of this charming old town.

when I am abroad, I will tell you that yesterday I attended a Sunday School in the old church, answer is, No. Either give the farmers of this and then listened to an excellent sermon in the great and progressive country something better North Church, by the Rev. Mr. Noves, upon the text—"And he was transfigured." I could give money which these two hundred and fifty thousyou its outlines if I had room. As I am an ob-rea Batatas, and send each owner of a farm one, serving man, and mean to "catch the manners throughout the Union. living as they rise," I must note one thing especially comforting to ladies, even if it does show that I had my eyes open in church! I could not help noticing that the men, with their compact legs in their compact pantaloons, sat in the farther portion of the pews, and the women in the end next the aisle! But my letter is too long the last three years, from the same seed, and has now, and I must subscribe myself,

Truly yours, SIMON BROWN. Messrs. Nourse, Eaton & Tolman.

For the New England Farmer. REPORTS COMPARED.

MR. EDITOR:—On the table before me lay two Reports on Agriculture; the title of one is, Patent Office Report, 1858—Agriculture; the other, New York State Agricultural Report, by B. P. Johnson, Secretary. Just look at these two I also will state a hydraulic fact or two, and of bringing out such an instructive book, and some other cause? What is the remedy? by this means showing the farmers of other States how they do their business at home.

But the other Report, book, what shall we say the water in the driving pipe is suddenly checked of this? I have read its first article, on Educatin its downward motion, and is reversed and sent tion, with some interest, because I have children back into the spring or fountain head. Now in to educate; but its exact bearing on the agri-all the explanations I have ever read, I can find cultural matters of the United States I do not no mention made of the fact, and much less a precisely understand; that, I presume, is of no reason given for it. In the American Agricul-consequence, provided D. J. B. does. The last turist for December, 1858, and in several numbers article, on Meteorology, by Prof. Henry, is well of the Farmer during the past season, we have worthy of being digested; it is good, strong an explanation of the Hydraulic Ram, and its food on the subject of which it treats, though, operation, but in none of them, nor in any school probably, very few of the farmers in these United philosophy, can I find a mention of the fact, or a States are sufficiently interested in the subject reason for it. By this I infer that the writers of to read his paper. Beside these, there is little the above newspaper articles were but superficial

hills overlooking the harbor and ocean in the and I am candid to say, after looking every article carefully over, and reading most of them with To show you that I observe my home habits some care, the question presented itself to my

King Oak Hill, Oct., 1859.

For the New England Furmer.

FACTS FOR THE SCIENTIFIC.

A neighbor of mine has sown the French turnip for several years, with marked success, for raised a good crop each year. This year he sowed as usual on ground precisely like his former fields, and manured and tended in the same way, and not a turnip from his whole field! The plants came up and looked finely until July, when they all went-to seed. No root on any plant more than on mustard. A fine lot of good plump turnip seed is all he gets for his crop.

Is there a fixed time in which turnip seeds,

books, Mr. Editor; for you have them, and your ask for a scientific answer upon philosophic prinvery just and interesting review of the latter in eiples. As is often done, I have water running the Farmer, a week or two since, proves that you to my barn by syphon from a well 12 rods dishave digested the contents of one of them, at tant, and 18 feet deep. It invariably runs well least, and I have no doubt but what you found from October to the next season of warm weathit very wholesome and agreeable food. The er, when it as invariably lessens gradually and question, however, I wish to ask you is, Can you stops, and cannot be made to run again for more digest the former-have you a stomach capacious than a day or two, till cold weather sets in. No and powerful enough for that? I doubt it; but matter what the depth of water in the well, it we shall see what we shall see. The one is all will not run steady in hot weather. When the full, as an egg is, of nourishment of the most force pump is applied, the air or gas (which is it?) interesting and instructive matter, relating to appears from the upper end, and all is right for a the farm and its management, in door and out day or two, when it again diminishes till the It is a "complete guide to the carrying on of a stream stops entirely. As many others in this farm," in all its departments, and that of the region are troubled in the same way, we are anx-highest order. I have read it with all the inter-ious to know the cause and the cure. Is it gas est of a "sensation novel," and the farmers of formed by chemical action of the water upon the New York may well be proud in being the means lead in warm weather and not in cold, or is there

I also notice in the operation of all hydraulic rams, that at each motion of the spindle valve, in the volume of any interest to the general observers of the ram and its operations, as are farming mind, in my estimation. D. J. B. seems too many of our writers for the various agriculto be the Alpha and Omega of the whole Report, tural papers. What we want is plain common wherefores."

From ten years' experience with various kinds space you give us in which to make inquiries. hydraulic rams, in every variety of location, I | Will "R. C. H." give us his reasons for "cutof hydraulic rams, in every variety of location, I am fully convinced that any arrangement, or ting them in the month of June, and setting want of arrangement, by which this reverse mowing green?" I have always noticed that stakes, tion of the water in the driving pipe is wholly with and fence poles, cut when full of sap, depresented will wholly prevent the appearance of the same and fence poles, cut when full of sap, depresented will wholly prevent the appearance of the same arrangement. prevented, will wholly prevent the successful op- cayed sooner than those cut when there was the eration of the ram for any length of time. A least sap in them. practical prevention causes very imperfect operation. Hence, one great cause of failure in the scores of rams set by inexperienced workmen in A Substitute for MILK for Young Pigs and every part of New England.

Hoping to hear from you or your scientific correspondents soon, I will anxiously watch your

Vermont, Sept., 1859.

EXTRACTS AND REPLIES.

INFLUENCE OF THE GENTLER SEX.

which contains so much interesting information, ually, while the water is boiling. Or it may be I was ready to query why the value of this usemade nearly as thick as pudding, thinning with ful work should not be appreciated by every tilwater while hot. The same is also excellent for ler of the soil in New England, at least? It has young calves, adding a little salt occasionally, been my privilege to peruse its contents from its. This, although it has been well tested, has not commencement, and it has often occurred to me, become as extensively used as it is worthy to be, that a single number had, to me, been worth a and I am not aware of its publication before. year's subscription, and from present appearances I think it is increasing in interest.

I have again and again perused with deep interest an article in the last number by one of the gentler sex. I think it must commend itself to sex. Let others do likewise. She says, "Farm- best manner of preparing and using the same? ing is an occupation in which woman has a part to perform; then let her express her estimation, her interest in it, and she will help to lend an enthusiasm, a charm to agriculture, such as will interest and animate our young men; and she will prove her influence to be more potent than all the wise counsellors found among our grand- leave to others to decide. father and father farmers of old New England." What can be more truthful? I rejoice to see such noble contributions of the gentler sex to a paper that I already take so deep an interest in, fully believing that such contributions will have an influence on the circulation of the Farmer.

Constant Reader.

Vassalboro', Me., 1859.

Remarks.—Such commendations as the above are not unfrequent in the letters we receive, and they serve to encourage us in our labors. But grateful as they are, they are not so encouraging as the fact to which our correspondent alludes, that women are becoming more and more interested in the business of the farm. There are many who are good horticulturists, as well as floriculturists, now, and some who manage whole farms with ability. The cold barrier of indifference is broken, and a new era in agriculture is dawning upon us.

TIME TO CUT FENCE POSTS.

I wish to thank "R. C. H." for his opinion in

sense explanations of facts, with the "whys and mine, of Sept. 24th, about cutting fence posts. But first, I should thank you for the valuable

JOHN W. TOWNSEND.

North Lisbon, N. II., 1859.

CALVES.

A porridge made of Indian meal and hot water is an excellent substitute for milk for young pigs, when milk is scarce, or not to be easily obtained. It will well repay the trouble of making the porridge to witness the thrifty condition of the pigs, they doing equally as well upon it as upon milk, if not better. One pint of meal is suffi-In perusing the last number of the Farmer, eient for every gallon of water, sifting it in grad-

Springfield, Mass., 1859.

SAW-DUST AS A FERTILIZER.

Can some of your numerous correspondents the admiration of all, as replete with sound inform me through the Farmer of the comparasense, and is an honor both to herself and her tive value of saw-dust as a fertilizer, and of the J. Brad. Philbrick.

South Deerfield, N. II., 1859.

REMARKS.—Saw dust, as a litter, and an absorbent, is excellent-whether it has fertilizing properties of its own that are valuable, we must

WITCH GRASS.

I noticed in one of your numbers that a gentleman wished to get the seed of dog grass or witch grass. I call it devil grass, as I know of no other seed or grass that's a greater thorn to the flesh. All he need do is to get a few roots and set them fifty feet apart, and I guara: tee he will have his farm seeded as fast as he wants it.

M. Robinson.

Wareham, Mass., Oct., 1859.

CONTRARY COLTS.

What is the best method of preventing contrariness in colts that seem inclined that way? If the habit is once formed in a horse, young or old, can it be broken? If so, how?

REMARKS.—A friend at our elbow, who knows every hair in a horse's hide, says, "Be gentle, be patient; use soft and persuasive language; make the animal understand, what you want to teach him by kind words and acts, and when he learns that, he will serve you cheerfully to the your paper of Oct. 8, in regard to an inquiry of extent of his power. You must be in sympathy but if you can change a vicious habit, it will only owner. be by kindness.

GOOD CROP OF ONIONS-HINT FOR A NEW LAW.

ways glad to hear of a good crop, and how pro- kind of facts to set people thinking, and acting cured, I will state for mutual benefit, that Mr. K. DRAKE, one of my neighbors, raised on 7½ rods of land, 36½ bushels of silver skin onions, worth 80 cents on the ground; yielding him the neat little profit of \$20. He used hog manure and OF WHAT NATURE WILL EFFECT WHEN ASSISTED

Will our Legislature pass a law this coming winter, making it a criminal offence for every struck our Lombardy Poplar tree, not far from

ries, currants, &c. ?

bipeds, of the genus homo species. Should a poor leaders. The one which faces the west received half-starved boy pick up an apple, or get a few the full force of the thunder storm, and it exhibitcherries or currants to eat, they fine him \$100, ed an excavation of 26 feet in length, and at one or send him to the Reform School,-the mean part of 22 inches in breadth. Independent of little rascal! But don't hurt the poor robins, this sad stroke at the western side of the tree, its they are of more consequence than those whom bole to the north was struck at the same time, Christ called fit for Heaven. C. CLARK.

Stoughton, Oct. 10, 1859.

For the New England Farmer.

WHY DON'T MY ORCHARD PRODUCE BETTER?

need no reply.

apple trees would bear without manure? Such ing the slates down in an everlasting prison. are the limited views of some; but it is proba- A Spanish proverb says: "Thou art welcome, ble there are but few farmers, or fruit cultivators evil, if thou comest alone." But, in this instance, but that would reason very differently.

\$2200 for two years.

of farming will reward the husbandman equal to it in times long gone by. The day may come

with him, and he will soon appreciate, and re-fruit raising, it often looks strange to me that so ward it, by his obedience. It is hard to teach large a majority of orchards should be left to an old horse, as well as an old dog, new tricks; take care of themselves, and then charged with

Vassalboro', 1859.

REMARKS. - Thank you, friend TABER; we As you and your numerous subscribers are al- hope to hear from you often. These are the

EXAMPLE IN A POPLAR TREE

BY ART.

On the 10th of August, 1842, the lightning robin detected in stealing our cherries, strawber- the house, with a crash as though the house itself had fallen in ruins. This tree, at 15 feet from We have a very stringent law for one race of the ground, branches out into three principal and denuded of its bark to the extent of 6 feet by 14 inches. Some idea may be formed of the vast injury which this tree received when the reader learns that I picked up fragments of its wood full 50 yards from the spot where it stands.

After a close inspection of the lacerated parts I conjectured that there was still enough of solid The above inquiry is often made, and with wood remaining to resist the violence of the winsome, at least, I apprehend, without much invest ry wind. Having cut out all the shattered parts, tigation to ascertain for themselves the cause, I placed a series of thick slates on a solid bed of which, in most cases, to a close observer and a mortar, quite up to where the tree takes its three rational thinker, would be found so plain as to leaders: thus forming a hard and permanent covering of 18 feet in extent. At the edges of the I will instance one case of a similar inquiry, slates we applied Roman cement nicely sloped out of many of a similar character, that might off; so that the future wood and bark might have be added. A neighbor, pointing to his orchard, an easy passage over them, at each returning seawished to know what I thought could be the reason, for increase of growth. Thus, all being reason that his trees, which used to bear so finely, dered safe from wind and rain we ceased our and which were not old, had for several years work, and left the tree to Nature's healing care, become so barren? I asked him how long it had She has not disappointed us. Yesterday I got been mowed without manure? His reply was, up into the tree, and I inspected minutely the insixteen or seventeen years. I asked him how jured parts throughout their whole extent. Their long he thought his cornfield would produce un-condition was prosperous in every point of view. der similar treatment? Well, he supposed it The new wood and bark have rolled over the wouldn't do very well; but he didn't know but slates to a close or joining within 11 inches, bind-

our poor poplar could not have such a consola-I visited another orchard in Nova Scotia of tion; for another thunder-storm broke over it, about two hundred trees; the ground was in a and the lightning struck it on the northern side, good state of cultivation, and the trees and fruit riving off the bark for a space of 33 feet in length, showed a very striking contrast to the one aliudand at places of 15 inches in width. Singular to ed to above, and the results much more satisfacted, no apparent injury was inflicted on the wood tory. The proprietor informed me that he sold itself. The bark alone had suffered, so that a his apples the preceding fall for \$1200, and he new supply of slates and mortar was not required. thought his present crop would be five hundred. This victim to the lightning's fearful rage is now barrels, worth two dollars per barrel, giving him in health and vigor, whilst its summer foliage is of as rich a hue as that of its surrounding neigh-It is an old, and I think, true maxim, that what bors. Should future tempests spare it, the tree is worth doing is worth well doing; and as it will be quite right again in a few years more; has been proved beyond question, that no part and its bole will be as beautiful as I remember

when this Lombardy Poplar's history shall be on story, with its foundations deep in the earth, forgotten. Then, should it be felled, to serve domocking with its elastic strength and beauty the mestic purposes, wee to the carpenter's axe and poor imitations of man. It had its origin long saw! They will have hard work when they shall before towers and obelisks sprang into being at have penetrated into the interior of the tree.

may learn that it may be in his power to do won-memories and suggestions. ders with them in their hour of accident, provided that he goes the right way to work, and lets which enveloped us on every hand, which, for Dame Nature have her own wise course. A lof- want of a better name, were called beauty. Its ty and majestic tree is a jewel of inestimable influence on man was boundless, and the son of beauty on a villa's lawn, and is worthy of the labor, "Gerard Massey," in one of his songs. owner's utmost care. - Charles Waterton, Walton | called "The People," sang of it in fitting strains.

Hall, in Horticulturist.

INFLUENCE OF RURAL LIFE.

Mr. D. said:

tion in agriculture. But there was a common to the zenith of eternity. ground where we could all meet and learn something from each other. Other lessons might be learned in the green fields, than the best mode of raising crops. Education in the widest sense was the great end and mystery of life. We were here to unfold and educate ourselves—to find the affections and the moral nature. In the country from the investigations of Prof. Jenks. obtained.

nity of labor, and its tendency to elevate the from each parent, each season. mind as well as to secure competence. Labor Prof. Jenks demonstrates that the robin, durwas the law of our being. Its results were fixed ing the months of March and April, sixty-one in the Almighty decrees. Sunrise and sunset, days, consumed from one hundred to two hunwinter and summer, were not more sure than the dred of those terrible scourges to the tillers of results which waited upon the footsteps of strong the soil, daily, each bird destroying some six or endeavor. The law of "no work, no wages," eight thousands yearly. During those months, should be to us a source of deepest gratitude. robins are very scarce, not many having returned grateful for the hard soil which he finds in this at the most, three pairs to a farm. section of the land—calling forth those efforts O, what incalculable benefit to the poor soilelevated him high up in the lists of true manhood, or six hundred worms daily out of millions of

affections. In the city, men hardly knew the and then, cock robin must starve. names of their next door neighbors; in the coun- If the Professor's theory is correct, to annihisphere, too, as no city homes ever gave.

of grace and beauty spread themselves abroad on glorious worm-slaughter. every hand. In Rome stands a great obelisk, thither from every land, and seek to read the charity may be dispensed by them, when it comes story of the ancient days, and gather wisdom cheap-stolen charity. mysteries than those of ancient hieroglyphics or person and property from poachers. Massachu-Egyptian obelisks. Every blade of grass which setts statute law says he shall be mulcted for raised itself in the breeze was a tower, built story every robin killed, or found dead on his premi-

the touch of man, and came down to us perpetu-From this brief account, the admirer of trees ated, from year to year, fraught with wondrous

This was but one form of that strange mystery This wonderful book which we called nature, rural life, was a pleasant story which had no end, and on every page we found the word "Excelsior." Taught by the flowers which raised their The following just and eloquent remarks we beauties up from the cold ground, taught by the trees which lifted their arms heavenward, taught quote from the Address of HENRY F. DURANT, by the mountains whose lofty peaks seemed to Esq., of Boston, delivered before the Norfolk unite earth with heaven, taught by the constella-County Agricultural Society, Sept. 29, 1859, tions which never ceased their progress through the grand and boundless realms of space, we should seek to make our lives like the star which He did not come here to attempt any instruc- waited never, but hastened on its appointed way

For the New England Farmer.

CHARITY FOR THE ROBIN.

FRIEND Brown:—In your issue of Sept. 3d, development of heart as well as of brain, of the "Charity" has attempted to furnish facts gathered might such an education be the most usefully that nine-tenths of the food of the robin found until the first of May, consisted of the larvæ of He first spoke of the democratic aspect of ru-the Bibio allissennis, an insect, in the opinion of ral life, of the happiness, the necessity, the dig-entomologists, capable of producing one million

The New England farmer should be peculiarly from their southern quarters, averaging two, or,

which, under the guidance of Christianity, have tiller are four or six birds destroying some five Rural life had its lessons for the heart and the millions! How soon they must all be destroyed,

try, though half a mile apart, men were neigh-late the Bibio, robins must abound plentifully bors. Country life taught men the value of sym-enough to out-number all other birds in exispathy and of society. It gave woman her true tence. Why, sir, the number must be so vast, that ten months starvation must follow, for all The country refined and elevated. It taught the crops used by the human family would not us on every hand lessons of infinite good. Scenes suffice to sustain the robins needed for such a

"Charity" would have us protect the highwaybrought long centuries ago from Egypt—from man, the banditti, the poacher, because they may the centre of mysterious ruins—and men travel have some redeeming qualities; generosity, even

from the strange hieroglyphics inscribed upon I wish to say a few words about the bird law. the column. Yet all around us, we had greater Common law gives a citizen self-protection in

being, and for the purposes of that act, resolved make it. They must speak for themselves. into its elements, and the power goes back by primary right to its constituents. No majority, however large, may place men under a sham government, and make them amenable to its penalties, while it refuses to protect them in those rights which they hold from a source higher than government. Still less can it assume to prevent them from redressing those wrongs which its authority sanctions or permits by its neglect."

Government binds the citizen to loyalty no farther than it is itself bound to justice. If government does not adequately protect, every man may take law into his own hands against poach- fore part of November is a favorable time for ers upon his labor, his own and his family's liv- plowing, the land then being generally in fine coning, answerable only to his fellow-man. He only dition to plow, the weather cool and bracing, the transfers his allegiance from a sham statute to team hearty and vigorous for the work, and there J. S. NEEDHAM. common law.

South Danvers, Sept., 1859.

AUTUMN.

Leaf by leaf the roses fall, Drop by drop the springs run dry; One by one, beyond recall, Summer beauties fade and die; But the roses bloom again. And the spring will gush anew, In the pleasant April rain, And the summer sun and dew.

So, in hours of deepest gloom, When the springs of gladness fail. And the roses in the bloom Drop like maidens, wan and pale, We shall find some hope that lies Like a silent gem apart, Hidden far from eareless eyes, In the garden of the heart.

Some sweet hope to gladness wed, That will spring afresh and new, When grief's winter shall have fled, Giving place to rain and dew-Some sweet hope that breathes of spring, Through the weary, weary time, Budding for its blossoming, In the Spirit's glorious clime.

SAWYER'S IMPROVED CULTIVATOR.

During the past summer, we have used in our fields an implement with the above name, and the spring. I have practised the plowing of cornhave found it in reality, a labor-saving implement. It is our practice to hill potatoes at the al years past, and like it well, on such of my land first hoeing, all we intend to hill for the season, as is not subject to overflow by freshets from the —because we have found each successive hilling liable to be washed by heavy rains in the winter to induce a new set of roots to start out higher or early spring. The land does not need plow-up the stalk, and from these a new crop of pota-ing again in spring, but is ready to receive the

ses; he is mulctable (if I may use the word,) for toes. Under this practice, the forming of a large every robin's grave. The statutes ought to have hill is a work of considerable labor, and the Improvided a robin cemetery, then all will be saved proved Cultivator performs it quickly and admirrom being dragged before some Justice Innocent. Know Sir Walter Scott's idea on the law, and rably. It may be conveniently changed to throw its process of being carried out. 'If the citizen up a little earth, or a good deal, by removing the makes over to society the natural, indisputable side shares, or allowing them to remain on. and inalienable right of self-defence, society is Wherever it is wished to hill up plants, it is the bound to maintain its share of the contract in best implement in our knowledge. It works full and adequate protection, and the contract is best implement in our knowledge. It works violated unless it does so. When society fails to clean, also, cutting up all the weeds in its path. protect personal rights, it becomes, for the time | We like it much. We do not know who sell or

For the New England Farmer.

FALL PLOWING, AND THE ADVANTA-GES OF DEEP PLOWING.

It is always desirable to do as much of the farm-work in the fall, preparatory to spring operations, as possible. If the plowing for next year's crops can now be done, that will relieve the team from a heavy task in the spring, as well as give considerable more time in that hurrying season to devote to other needful work. The is usually leisure to devote to it.

Sod land, well plowed in late autumn, will be mellower to cultivate and clear of grass and weeds, the next season, than if it were plowed in spring, -the frosts of winter killing the up-turned roots and disintegrating and crumbling the soil, so that in the spring it will readily yield a deep, mellow and clean seed-bed, fit for any kind of a field-crop. Not only will the land be clean of grass and weeds, but clean of grubs and cutworms also. By plowing green-sward as late as November, the worms and their eggs are turned to the surface in a torpid state, their arrangements are reversed, and the frosts of winter immediately succeeding, they are cleared out of the land. I have found late fall plowing a perfect mode of ridding my land of these two varieties of worms.

November is a good time to plow stubble or old ground, that is to be sowed with grain and stocked to grass the next spring. If the land is in corn-stubble, it will be well first to put on a heavy harrow, and passing with it once in a place, astride of a row each time, loosen the hills and scatter the corn-stubs about, which will make the plowing easier and more effective, and the stubble being separated in loose pieces by the harrow, will more readily fall to the bottom of the furrow than if remaining in unbroken hills or clumps of roots and stems. Lying beneath the furrow through the winter, with the soil settled down upon them, the stubs are not liable to be pulled up to the surface when harrowing in the grain in stubble and potato-ground in the fall, for severriver, or is not on so steep a declivity as to be

come sufficiently dry to harrow well, which will sod underneath. Green manure, well covered usually be several days earlier than the land that depth, will decompose readily, and be more would do to plow, or could be got ready for seedactive and effective on the succeeding corn or ing, if to be plowed. The grain and grass-seeds other hoed crop than if turned down under the committed to the ground thus early, have the sod. benefits of the early rains, and become well rooted before the hot and dry weather comes on.

it is often the case that the land, by long and ed the field with corn. Nearly half the crop was quite shallow cultivation, together with a system destroyed by grub worms; and the soil, being a of close cropping, is now too compact and hard, close compact loam, the manure under the sod and needs deeper plowing and more thorough was too inactive, so that the corn which did surpulverization than when it was new, and natu- vive was backward in maturing. rally more mellow and friable by the presence consulted with me as to what he had better do of vegetable substance in the soil. Then, again, with a piece of green-sward adjoining and simithe oft-repeated treading of the cattle, and pres-lar to his corn-field, and which he wished to sure of the sole of the plow, in invariably shal-low furrows, has, in all those lands of a close tex-of which was infested with grubs, as any one ture approaching to clay, with a strong and com-could see by digging into it. I advised him to pact subsoil, created an artificial hardpan, quite plow it in November, turning the sod over from too near the surface, which operates deleterious-inne to ten inches deep. He did so; and in the ly upon the crops, both in a wet and a dry sea-spring harrowed the ground lightly first, to level son: in the former, by preventing the superabunt the furrows and make cross-plowing convenient. dant moisture from readily sinking below and then spread the manure on the furrows, and crossrelieving the surface of wetness and cold; and in plowed, turning the manure under four to five the latter, by preventing the roots of vegetation inches deep, harrowed lightly, marked the field from striking deeply into the soil, away from the off in hills each way, dropped a spoonful of suparching effects of the sun. The roots of our perphosphate in each hill, and planted it with cultivated plants will adapt themselves to the pe-corn. No traces of worms have been discovered culiarities of the season, if permitted to do so; in the field this year, and although the season that is, in a dry season, they will strike deep in-to the soil for moisture and a grateful tempera-considerably more corn to the acre than last year ture, and in a wet season keep nearer the surface, -probably twice as much. The land has also been especially if made dry and warm by deep tillage. very mellow, and free from grass and weeds, and

strong compact subsoil, it is not unusual to find that was plowed six inches deep. The subsoil here a better farm underneath, than that which has was a close, light-colored loam, of a clay nature, been worked so long and so shallow on top. By and by spring had changed to a darker color, by breaking through this artificial hardpan or crust, several shades, than when first turned up in the and bringing up a portion of the under soil to fall. The field will doubtless show the good efthe light of day and the influence of manure, the fects of deep plowing for several years to come, crops are by that operation considerably in-especially while in grass again, lasting consideracreased, even though no more than the eustoma-bly longer in productive mowing than if the ry quantity of manure per acre is applied. And plowing had been not more than five or six inchif high manuring is practiced in connection with es deep. The grass-roots, having a deeper range, the deeper cultivation, the crops will be very will not so soon become webbed and tangled tomuch increased over what could be realized from gether, and the sod "bound out," as it is termed. the old shallow plowing and artificial hardpan A friend of mine, who, a few years since, purnear the surface, accompanied by as high manur-chased a tract of old worn-out plain land, is ing. Then there is the difference, too, in the having remarkable success in rejuvenating the case of tilling the crops raised on deep, mellow land by deep plowing, accompanied by high maland, as compared with those on hard, shallow nuring. The land had, for many years, been unplowed land.

seed the very first day that the surface has be- about four inches deep, without disturbing the

A neighbor of mine spread his manure on grass-land, a year ago last spring, and turned it In the older settled districts of New England, under the sod, about six inches deep, and plant-Last fall he Where the land is of a close texture, with a easier to till, every way, than the piece last year

der the wasting effects of shallow plowing and If deep sod plowing is to be practiced, it is es-severe cropping with rye, until at length it was pecially desirable to do it in the autumn, that quite exhausted, and abandoned to pasturage, the atmospheric influences may ameliorate and yielding a scanty herbage in the early part of modify the upturned subsoil, preparatory to fu-the season, but becoming dry and sere by midture cultivation. Plow the green-sward in No-summer, and remaining so through the remainvember, say eight to nine or ten inches deep, according to the quality of the subsoil. In the face soil was of little or no account any way, but spring spread a good coat of manure, which, if thought there might be some hopes of making fine compost, can be sufficiently mingled with the productive land of the subsoil. He accordingly soil and covered by the harrow and cultivator; commenced upon a piece of the tract, of about or if coarse, can, by lightly cross-plowing, be five acres, by at once putting in his universal sod turned under three to four or five inches deep, and subsoil plow ten inches deep, in the month according to the depth of plowing in the fall. If of November, and turned up a subsoil of yellow the plowing was, say nine inches deep, there will loam, fine-grained and free from stone, and that be no difficulty in guaging a light plow, with a had never before seen the day. In the spring sharp share, and wheel on the beam, so as to following the plowed land was manured broadcross-plow in the spring and cover the manure cast, at the rate of about twelve cords for acre,

ing the manure under four to five inches deep, terests of their common country. The field was then harrowed, furrowed out in field. Other portions of the condemned old plain chemists—in a word, practical men. Their eyes are now undergoing a similar process of deep must be turned from Washington to their states, plowing and high culture, with good results; counties, townships, districts, homes. This is true the rose.

Where land is of a loose, sandy or gravelly nature, with a feeble subsoil, and has never been plowed deeply, it will not be advisable to plow so deep at once as nine or ten inches, unless there is a large amount of manure applied. But even such soils may be gradually deepened, without the necessity of extra large dressing of manure, by bringing up an inch or two of the subsoil at each rotation of crops; and thus, in time, a good depth of active soil may be obtained. The best general rule, however, in farming, is deep plowing and high manuring.

F. Holbrook.

Brattleboro', Oct. 26, 1859.

MAKE FARM LABOR FASHIONABLE.

At the base of the prosperity of any people lies this great principle—make farm labor fashionable at home. Educate, instruct, encourage; deavor to invest practical labor with an interest to overturn and then re-adjust their contents. that will cheer the heart of each member of the which God designed a home should possess.

work more, and act more, in reference to ques-cious but useless apartments—the parlors.

tions relating to home.

den, in the barn, in the workshop, in the parlor, veniently arranged. in the kitchen—in a word, around the hearthstone at home.

may have acquired, he is unfit to go forth into day's labor; there would be less murmuringsociety if he has not had thrown around him the thought would be awakened, and youth be progenial and purifying influences of parents, sis-tected from the fatal allurements of idleness. ters, brothers, and the man-saving influence of the family government. The nation must look competent as the wives of farmers. If parents for virtue, wisdom and strength, to the education desire honorable men and noble women for sons family circle. There can be no love of country must have an acquaintance with facts—with the where there is no love of home. Patriotism, true true, beautiful and useful things of nature. Then and genuine, the only kind worthy of the name, make home attractive, and let that attraction conderives its mighty strength from fountains that sist of something profitable. gush out around the hearthstone; and those who forget to cherish the household interests, will great obstacle. All are pecuniarily able to have

and cross-plowed with a sharp steel plow, turn-|soon learn to look with indifference upon the in-

We must cultivate roots—not the tops. rows each way, a table-spoonful of superphos- must make the family government, the school. phate put in each hill, and the piece planted with the farm, the church, the shop, the agricultural corn. It yielded about seventy bushels of shelled fairs, the laboratories of our future greatness. corn per acre, and the next year a good crop of We must educate our sons to be farmers, artioats, and is now well set in grass, for a mowing zans, architects, engineers, geologists, botanists, and this desert will doubtless soon blossom as patriotism; and the only patriotism that will perpetually preserve the nation.—Gov. Wright.

For the New England Farmer.

FARMING IN HORTHERN NEW HAMP-SHIRE.

MR. EDITOR: - Farm-house architecture was mentioned in my last. The interior of our dwelling is somewhat deficient. First—a small apartment often serves as wash, cook, eating, library and living room. Here are assembled a steaming wash-tub, seething cook-stove, cupboard, tables, chairs, sink and wood box. Various articles of clothing, files of newspapers, almanacs and shelves of books, are hanging on the walldried apple and pumpkin depending from the ceiling. Here the family take their meals and pass their leisure time.

Second—the larger and more pleasant portion of the dwelling is divided into two or three well papered, painted, carpeted and curtained rooms. and offer all the incentives you can offer, to give Here are costly mirrors, paintings, tables, chairs, interest and dignity to labor at home. Enlist the gifts, gilt-covered books, artificial flowers, an orheart and the intellect of the family in the sup- namented stove, polished shovel and tongs and port of a domestic system that will make labor the family ambrotypes. But, alas, these rooms attractive at the homestead. By means of the are Holy of Holies, to the family. The mother powerful influences of early home education, en- alone, as high priest, enters there semi-annually

Now here are two great evils—first, confining family, and thereby you will give to your house-the family to so small an apartment, and allowing hold the grace, peace, refinement and attraction papers, books and clothing to become injured by steam and smoke; second, expending so much The truth is, we must talk more, think more, time, labor and money in furnishing those spa-

The remedy is simple and inexpensive. Con-The training and improvement of the physical, vert the most spacious of these rooms into a well intellectual, social and moral powers and senti-lighted, ventilated and warmed living apartment ments of the youth of our country, require something more than the school-house, academy, college and university. The young mind should reglobe, maps, a variety of engravings, scientific ceive judicious training in the field, in the gar-

Such a reformation in our dwellings would be of incalculable value. If farmer's workmen and Whatever intellectual attainments your son sons could assemble in such a room after the

Who shall begin this reformation? that controls and shapes the home policy of the and daughters, they must remember that youth

This is a practical question. Fashion is the

such an apartment, if they have parlors. Now animal, and there may be nothing of material hall an injurious, inconvenient and expensive consequence lost." habit be cultivated, because, forsooth, we must imitate our wealty city friends? Shall we ex-entirely dissipate, the common belief, that vegepend time, labor and money for that which can table food receives important fertilizing matter be of no possible benefit to any one? Let those from the perpetual waste of the animal system, who think farming unprofitable and unpleasant, or that it is transformed into such by the influconsider this question.

Bath, N. H., Oct. 24, 1859.

REMARKS.—Excellent—these are the phases of rural life that need especial attention.

For the New England Farmer.

IS THE STOMACH MERELY A CONDENSER?

Agricultural chemists-perhaps the majority of them-inform us that vegetable or animal food passed through the stomach and body of an animal, receives no element which makes it more valuable as a manure than it was before. hundred pounds of hay passed through the body of an animal, will give about forty of manurethe sixty pounds loss being carbon and water expired as carbonic acid gas, of little value—in so great a proportion, as is stated—in the manure heap. In other words, that the hay is simply reduced, having neither lost nor gained anything of much value as a manurial agent. And so with all other kinds of food; as is the character of the latter, so is the manure.

The late Prof. J. W. F. Johnston entertains the same opinion in his "Elements of Agricultural Chemistry and Geology." He says: "The vegetable food, by respiration, is freed from a large portion of its carbon, which is discharged into the air, while nearly the whole of the nitrogen remains behind. In the food consumed, the carbon was to the nitrogen as nine to one; in that which remains in the body after respiration has done its work, the carbon is to the nitrogen few words or phrases, for an obvious reason. in the proportion of only two to one." Johnston observes, that weight for weight, the manure of an animal must, in all its important forces, be richer than the vegetable food consamed; but he does not admit that it contains anything more, but rather less, besides the loss of carbon, which he regards as an unimportant ingredient.

In the last February number of the Genesee Farmer, the able editor asserts the same doctrine in a still more unequivocal manner. "It cannot be too often repeated," he observes, "that the value of the manure depends primarily on the composition of the food eaten by the animals. 'You cannot make a whistle out of a pig's tail,' neither can you make a good manure out of an old straw stack. You may rot it down, or feed it to animals; but it is straw still." * * * * "Unless the substances from which the manures are derived contain the necessary elements, it is in vain to expect to make a valuable manure from ent. them by any known process of feeding or fermentation.

the "Annals of Science," by Hamilton L. Smith, it is stated: "There are no fertilizing properties

All this authority would seem to shake, if not ence of respiration and the mysterious process of digestion. If non-nitrogenous or even azotized food, however, takes from the system more than it gives, the animal in time must grow poor upon it, unless it has other resources of nutrition -from the air it breathes and the water it drinks, or unless the stomach has the power of chemically changing the food, or of creating new substances-which may find more belief. If heavy drafts are made upon the food alone to build up or sustain the animal system, enough for the formation of muscle or of fat, then the food must lose important substances in its passage, and would suggest to the reflecting agricultural economist, whether there is not some better method of manufacturing manure than the feeding of animals. In respect to growing animals, Prof. Johnston acknowledges their manure is not so rich as those which are fattening; but he seems to admit no important loss in that of the latter, as nothing is taken but starch and sugar.

But, per contra, I pass to what another writer says. In the last volume of the "Massachusetts Society for Promoting Agriculture," there appears a Prize Essay on manures, by Joseph Reyholds, M. D., who seems to entertain the more common belief that there is an important, nitrogenous and saline accretion in vegetable matter in its transit through the animal. In this particular, he seems to ignore the doctrine of those quoted above, though he does not directly combat it. The essay is clearly, logically and forcibly written, generally, without extra verbiage or abstruse technical terms; and appears to me well worthy the award it received. In the extract made, I have taken the liberty to italicize a

Mr. Dr. Reynolds observes:

"Vegetable substances are also decomposed in the digestive organs of animals, by a process, in many respects, similar to that which we have already described. The vegetable fibre is communicated by the teeth, and softened and permeated by the fluids contained in the organs of the animal. A large portion of the starch, gum, sugar, gluten and salts, are dissolved out and taken up by the lacteal vessels of the animal, to serve the purposes of nutrition. The remainder, mixed, as we have said, with the juices of the animal, containing in solution various substances, is ejected. This process is accomplished much more rapidly than the ordinary process of vegetable decay, and the substance resulting is mixed with a large amount of animal matter, which fits it for rapid putrefaction. The animal matter acts the part of a leaven, which sets up the putrefacting process, wherever the necessary conditions are pres-There is this difference between the reduction of vegetables by the ordinary process of composting, and by the process of animal diges-In an article entitled "Barn-yard Manure," in tion, viz: that in the latter process, vegetables are made to afford nutriment to animals while undergoing reduction, and yet in consequence of gained by passing food through the body of an the condition to which they are brought, and of

the additions which they receive, they are more place of leather. It is a very economical fabric, the purposes of nutrition, they are reduced by with eaoutchouc, wholly inodorous, and of amazthe former process. These two processes, vegetaing strength and tenacity. It assumes a polish ble composting, and the feeding of animals with like leather, is marked in some instances, like ceous manures are chiefly obtained."

sess the power of changing the nature of food it, and the application of a sponge removes all submitted to it; of causing re-formation; and, dirt and restores it at once to its pristine characperhaps by the aid of respiration, (drawing in ter. It is being already applied to countless purthe gases of the atmosphere,) of generating or poses, and may be ranked amongst the most val-accumulating nitrogenous substances. Whether uable of the boons which the discovery of caouta man or brute live on vegetable or animal food, chouch as conferred upon civilized humanity.his body is the same. The flesh and bones of the Globe. lion and the lamb are alike. The processes which go on in the stomach are not well understood, and probably never will be. That the latter is not a machine which compounds or mixes up its food, but a receptacle having peculiar and mysterious functions, seems to be admitted. The office by A. H. Grosvenor, for the general incelebrated John Hunter once laconically observed struction in agricultural gardening, &c., at our to his students: "Some physiologists will have section of the Shaker Village at Harvard. Among it, that the stomach is a mill; others, that it is the farmers' reading matter it contains, I have been pleased to observe an occasional article uppan; but in my view of the matter, gentlemen, on the general uses of coal ashes as a fertilizer. it is neither a mill, a fermenting vat, nor a stewpan; but-a stomach, gentlemen, a stomach."

chemistry are unable satisfactorily to explain the led to suppose that many disposed to be skeptianimal coonomy. Liebig's beautiful theory of cal on this subject would argue that the editor's nutrition is said to be rapidly losing its hold test of anthracite coal was not a clear one, beupon the scientific mind, and confusion and mystery still reign. The blood is supposed to be the nutritive vehicle in animals; yet substances are as an auxiliary to his pleasant half acre. found in the tissues and bones which cannot be discovered in the blood-nor in the food, in suf- that the horse manure and loam did all the work, ficient quantities. Neither is the blood the same while the ashes, like the white soft-handed genin any two individuals, and is perpetually varying tleman farmer that simply rides through his in the same. Phosphate of lime is found in the plantation, received the honor, and made all the whole organism of man; yet it is said none has noise. But as we too think different, please alever been found in the blood. Azotized food low us to state our reasons for endorsing his has been regarded as the most nutritious; yet a opinion. writer in Blackwood's Magazine says that "water We c rich that which is passed off as manure.

sheep manure are worth one hundred and twentyfive of cow. In feeding one hundred pounds difference was perceptible. When ready for the of English hay to a cow, and the same to a sheep, scythe, it was more in quantity; and as to qualin which do we get the greater value as manure? i.y, it produced about equal parts of herds grass Or is the product from either more valuable and red clover. If the clover was not introduced than the hay would have been-aside from its by the agency of the ashes, we know not how it reduction-or does it contain more nitrogen and was introduced, for four years none was seen other manurial ingredients?

than the substance consumed. D. W. L.

West Medford, Oct. 13, 1859.

VEGETABLE LEATHER.—Messrs. Spill & Co., ples, of a novel material, intended to take the half a shovel full in a hill. Below, on equally

valuable as manures, than when, without serving or rather series of fabries, cemented together vegetables, are the sources from which carbona- morocco, bears a beautiful enamel, is susceptible of the most delicate embossing, resists the stains Digestion is a vital process and seems to post to which leather is subject, damp does not affect

For the New England Farmer.

COAL ASEES AS A FERTILIZER.

FRIEND Brown:-Your paper is taken at our

In your last issue, the editor of the Commercial Bulletin has presented to the public a good At present, it is confessed, physiology and article on this subject, but in perusing it, I was

Such skeptical friends would be apt to contend

We consume at our large dwelling-house a is as nutritious as roast beef." It may perhaps number of tons of coal each winter, and having be well supposed, that the water which animals added portions of it to our composts, with little drink—charged with various salts, in connection calculation or observation, we determined to test with the influence of the atmosphere—would it singly this past season, and closely observe its greatly modify the food in the stomach, and en- effects. On an old mowing field too much run down, we top-dressed a square piece of ground Prof. Johnston states that thirty-six pounds of fairly with clear coal ashes early in the spring. there before, or in any other part of the field. I would not pretend to answer these questions; and this was the only clover seen in said field the and although I believe rich food will produce past season. Both grass and clover was more rich manure, I am in doubt whether poor food vigorous, green and lively within the top-dressed may not give a manure of higher relative value square, and just as visible all around was the exhausted erop, which said as audibly as grass could say, in its declining state, that it had received no such assistance from this individual fertilizer.

On a hill-side not at all renowned for its wealthe well known army contractors, are issuing thy properties in soil, we planted the Davis Seed-from their works at Stepney, portions, as sam-lings and Jenny Lind potatoes in clear coal ashes, as good ground, we planted the same kinds of potatoes in compost manure, and the coal ashes, single handed, turned out the largest, best, fairest and most numerous quantity of potatoes. In reality, they were the best we raised on the farm. an article upon the hyraulic ram. One of your Almost side by side, in compost manure, our potatoes were somewhat infected with rot; in the promised. ashes they were all healthy and sound almost to a potato.

In kindling fires, it is true, we use shavings sider almost too insignificant to take into the ac-

count.

These experiments convince us that as a fertilizer, anthracite coal ashes possess the life and energy to produce the above effects on common Hence, whatever theoretical lecturers or writers may present to undervalue the better qualities of the article, while it continues to improve quantities and qualities of grass, and give us sounder and larger crops of potatoes, we conclude to give it an honorable standing among the general agents which have long held undisputed station in the farmers' compost.

South Groton, Oct., 1859. WM. LEONARD.

WINTER BARLEY.

done well, as we know by the crops which we came! It was, "All right-De Sauty!" have seen. In a letter to the Branch County Re-

done well in every instance where it has had any watered twenty-five head with pails, during the chance. The general yield is from 20 to 24 bush- winter; and one in front of the horses. els to the acre. Judging from what we have seen of the grain, it is capable of yielding 80 bushels which supplied two tenants, who had previously per acre. During the past season, it has been pulled up all their water with an "old oaken buckraised by the side of spring barley, and has pro-et," without ever discovering the poetry about duced four bushels to one of the spring variety. the thing either! Mr. Amos Culver, of this place, (Quincy,) has raised during the past season 60 bushels per acre carries the stream into my own dwelling-house, on oat stubble once plowed, or 180 bushels on where it keeps two barrels full in a closet adjointhree acres, and on land that has been cropped ing the chambers. Although I have two good for eight years in succession.

spring barley, viz:

1. It may be sown after farmers get through with their hurry in sowing winter wheat.

2. It may be harvested before wheat is ripe.

3. It has no black, or false heads.

4. It yields two to one, at least.

is so early that the weevil will not hurt it.

stitute for the wheat crop, if we should be obliged to give up the cultivation of that grain in conseram. The jet is thrown fifteen feet high. quence of the insects and weevil, which at present threaten its destruction in Michigan.

for that grain.—Michigan Farmer.

For the New England Farmer.

THE HYDRAULIC RAM.

Mr. Brown:—Some months ago I sent you readers reminds me that something more was

Perhaps I had better, at once, give you my experience. In the spring of 1858, I bought a hydraulic ram, and about one thousand feet of halfand a little light wood, but the quantity I consider almost too insignificant to take into the ac-ground, and the ram in the mud. It had been set up where the fall was wholly insufficient, and had proved of little value.

I placed the ram near a little pond in my nursery, from which there is a fall of four feet.

The driving pipe is stout inch and a half size, and sixteen feet long. The service pipe is half inch size-weighs twelve ounces to the foot. This is laid along in the brook, from the dam to the Assabet River; then on the bed of the river to the opposite shore. I there dug a trench two and a half feet deep, to the barn and houses, where the water is carried. It was an interesting moment, I will confess, when I watched at last for the water at the end of the pipe a fifth of a mile from the ram, that, it was hoped, might force it there. I was engaged in this work of getting the Winter barley is a variety of grain that has ram in operation while the country was on tiponly been tried in this State for a few years, and toe about the Atlantic cable. I had dragged my has not yet got largely into cultivation. cable through a body of water (!) and felt, like Wherever it has been given a fair chance, it has Mr. Cyrus W. Field, some anxiety. The water

This advantage about the ram was soon manipublican, Mr. James Clisbee, a well known and fest. Wherever I wanted the water, there I could prominent farmer, thus writes of winter barley: have it. I was bound to no "level of the spring." "The winter barley has been grown in this vi- I arranged to have an outlet in the barn-vard cinity for the last three years, and is, consequent- for the cows to drink as they came in at night; ly, no longer an experiment. With us it has -one in front of the cattle in the barn, where are

I also laid a side pipe into a rented house,

Then I attached another branch pipe which pumps at the sinks in the kitchens, it is less work We think it has decided advantages over to draw down the water from the barrels when a large quantity is required, as on wash-days.

I consider these barrels of water, with pails

near, a great safeguard against fire.

Then, having the water in every place where it could be of use, I attached another pipe to the "main," which, with a suitable nozzle, afforded 5. The insect will not hurt it in the fall, and it me a pretty fountain. To be sure, it was not much like the Croton, or Cochituate fountains, but IWe are in hopes this barley will prove a sub-liked it far better. It was in my door-yard! The

Not long after I got the machine in operation, leaves and dirt got in and stopped its working. This variety of barley should be sown some- This annoyance I easily remedied by making the time between the 15th of September and the 1st little enclosure at the dam, double, and packing of November, requiring about two bushels of seed the space between the double boarding, with per acre. It will ripen ten days earlier than sawdust; so that the water was strained before wheat, and leaves the ground in good condition entering the driving pipe. I found out, too, that it was not well to have a small strainer immedi-

the ram from freezing. It works well under wa- Waste land, also, could be reclaimed, and if too ter, and I had only to settle it down until the stony for cultivation, made to hear a fine growth moving part was covered. Great care must be of oak, by giving a little care to collect and plant taken that the ram be so boxed around that the acorns. dirt will not wash over it.

ground was almost bare, last January, we had a liberal in the general improvement of the land. very cold time. My pipe froze up that supplied Instead of skimming their farms, and looking for the barn. I dug down to it and found the ground, that which will supply their daily wants by sellto my surprise, stiff with frost, below the pipe ing all they can they strive to enrich the ground, The two and a half feet was not deep enough to bury it. It was with great regret that we were obliged to get along at the barn for weeks till same. Less land is cultivated than there was milder weather, without this convenient stream twenty years since. Such is the fact, generally of water. It was at once double the work to turn I think, throughout New England. out the Brighton cattle, water them at the pump, and get them back to their places again, than farm, and farmers, as well as mechanics, traders, what it had been to just set down before them, and professional men, are not careful to live withsome two to four buckets of water in the barn.

not beneficial to the catcle. In the barn I had pay for. watered all twice a day, the cows three times. The store cattle now were "turned out" but once, and if they felt like capering or fighting, or, if the day were windy and cold, they went without water the whole day. When water was given them in the barn they ate more, and as the hay was of that quality that the more consumed the better, that was a gain.

On the whole the ram has already been of great value, and promises to continue to save much labor. I would not part with it for five times its cost, and can most sincerely recommend it to all who wish a cheap and abundant supply of water, and are in the vicinity of a fall.

I have connected with my "water works" a variety of contrivances to enable me to control the stream and direct it where desired. These consist of waste stop cocks, hose, couplings, &c.. which are readily obtained at the Boston plumbers.

readers what I have, I fear, very imperfectly described, if they will favor me with a call.

Your friend, WM. D. Brown. Concord, Mass., Oct., 1859.

For the New England Farmer.

ORDER AND ECONOMY ON THE FARM.

Messes. Editors:—I was glad to see the remarks of your correspondent, "W. C.," in your last issue, and I wish he had pursued the subject economy on the farm. Where you see buildings as this can be done.—Artisan. in the plight spoken of by W. C., it may be inferred that the occupant is lazy, and not a "church-goer." Whenever you see a neat and well-filled wood-shed, the owner is, gen-rally pure cider made from sound ripe apples as it runs speaking, a patron of churches and schools. It from the press; put sixty pounds of common is lamentable to see how few farmers are suffibrown sugar into fifteen gallons of the cider, and ciently careful to lay in a good supply of wood, let it dissolve; then put the mixture into a clean that it may be at hand, dry, for use, while too barrel, and fill the barrel up to within two galmany either burn their wood green or half rotten. lons of being full with clean cider; put the cask

ately over the end of the pipe. It lessened the driving pipe without the slightest hindrance. attended, in clearing the broken off branches, and decaying trees. How much waste wood could be driving pipe without the slightest hindrance. I suppose some will like to know how I kept rotten, by giving a little care to the subject?

Our friends in New Hampshire are improving Your readers may remember that while the in the science of farming, and are becoming more

The tendency is to expensive buildings on a in their own means. A farmer is the last person And, besides, I noticed that the change was who should buy more than he has the means to

Boston, Oct. 22, 1859.

BIENNIALS AND PERENNIALS.

The following will answer several inquiries about the nature of biennials and perennials:

Biennials, speaking in a general sense, are sown one summer, and bloom and die the next, as soon as they have ripened their seeds. Most of them are hardy enough to stand our winters, for one summer is not long enough to complete their growth, even with the help of the hot-house, green-house or frame. Many stocks are biennial; the Canterbury bell is a biennial, and if sown about June, and planted out when large enough. will flower about the same time next year.

Perennials are plants which do not die at any given period, but would live on like an oak or vine, if the necessary conditions could be sup-I shall be very happy to show any of your plied, and the great family of plants comprises most of this kind.

Hardy perennials will grow many years in the same spot, and spread into large masses. Bulbs increase in number. Fibrous and tuberous rooted subjects spread out into many plants all round, and only want to be separated from the parent. Many of them separate themselves, and when they degenerate, it is from remaining too long in the same spot of soil, which they in time exhaust.

Stove perennials, cultivated in pots, are from time to time shifted from one sized pot to another, and new soil is filled up round the old ball still further, and said something of idleness and of earth, and the plant continues to grow so long

TO MAKE PURE WINE OF APPLES.—Take A small wood-lot will afford an ample supply for in a cool place, leaving the bung out three or a fire, without injury to the growth, if properly four weeks.

HOW TO FATTEN CHICKENS.

We make the following extracts from an article on this subject in the London Cottage Gardener, and commend them to our readers:

they are at liberty. They must be put in a propleaving the barrow free to be manœuvred like a er coop; and this, like most other poultry apcommon hand-cart. purtenances, need not be expensive. To fatten twelve fowls, a coop may be three feet long, eighteen inches high, and eighteen inches deep, made entirely of bars. No part of it solid-neither top, sides, nor bottom. Discretion must be up. They do not want room; indeed, the closer they are, the better,—provided they can all stand up at the same time. Care must be taken to put thrifty Baldwins, Hubbardston Nonsuch, &c., up such as have been accustomed to be together, that the bark on the south side from the lower or they may fight. If one is quarrelsome, it is limbs to the roots had a black appearance, as better to remove it at once; as, like other bad though a fire had scorched them. I did not pay chicken should not be put up.

as can be, provided it does not run off the board. the wood bare for large spaces.

will lose flesh. If fowls are intended for the mar-subscriber to the monthly New England Farmer. ket, of course they are, or may be, all fatted at once; but if for home consumption, it is better to put them up at such intervals as will suit the are meant for market or otherwise, they should be fasted, without food or water, for fifteen hours. being killed, even in hot weather."

wheelbarrow, which is worked by the men em-subject. ployed to repair the damages occasioned by the fetes in the gardens of the Tuilleries, is attract-

that is necessary for the transport of the heaviest load. The three wheels being almost close together, the act of turning the barrow in the smallest space becomes as easy as possible. The workman has but to lean on one of the handles, "It is hopeless to attempt to fatten them while and the front wheel is lifted from the ground

For the New England Farmer.

DISEASED APPLE TREES.

Mr. Editor:—I am desirous of ascertaining used according to the sizes of the chickens put from yourself, or some of your numerous subexamples, it soon finds imitators. A diseased much attention to it then, as it was late in the season when I made the discovery, but the "The food should be ground oats; and may present season the same appearance has extended either be put in a trough, or on a flat board run-itself to quite a number of other trees, invariably ning along the front of the coop. It may be on the south side of the trees, the bark turning mixed with water or milk; the latter is better. black and assuming a charred look, and becom-It should be well slaked, forming a pulp as loose ing loosened from the tree and falling off, leaving

These trees have been standing in grass land, They must be well fed three or four times per day—the first time as soon after day-break as may be possible or convenient, and then at intervals until two years since, when the ground was broke of four hours. Each meal should be as much up and cultivated with potatoes, and manured and more than they can eat up clean. When they have done feeding, the board should be In removing the bark from one of the trees with wiped, and some gravel may be spread. It causthe point of a knife, something having the appearance of a white worm or grub, apparently "After a fortnight of this treatment you will about one inch long, fell to the ground, but could have good fat fowls. If, however, there are but not be found afterwards. Is it probable, that so four or six to be fatted, they must not have as extensive and destructive an effect could have much room as though there were twelve. Noth-been produced by the operation of any kind of ing is easier than to allot them the proper space; grub, worm, or borer? I greatly fear, that unas it is only necessary to have two or three pieces less the cause can be discovered, and an effectual of wood to pass between the bars and form a par- remedy applied, I shall lose my trees, which have tition. This may also serve when fowls are put cost me much time and care, and be disappoint-up at different degrees of fatness. This requires ed in my long-cherished anticipations of having a attention, or fowls will not keep fat and healthy. good bearing orchard of choice fruit. Any infor-As soon as the fowl is sufficiently fatted it must mation calculated to throw light on the subject, be killed; otherwise it will still get fat, but it will be read with much interest by at least one

Still River, Oct. 21, 1859.

REMARKS .- We have seen no trees in the contime when they will be required for the table. dition of those described, and cannot with any When the time arrives for killing, whether they feeling of certainty tell either cause or remedy. We do not, however, think the injury is occa-This enables them to be kept for some time after sioned by an insect—it must be climatic. We have several hundred apple trees, but they have no "ails" such as you describe. We hope or-A New French Wheelbarrow .- The new chardists will be able to throw light upon the

THERE are four millions of people in France ing much attention. The novelty of the mathine consists in two legs of the barrow being some other kinds of vegetables. The people of replaced by two wheels, smaller than the one in Ireland, for a long time, subsisted mainly on pofront, which are fixed immediately under the body tatoes. These facts prove not only that there of the barrow. The handles are raised so as to are large numbers in civilized countries who do be on a level with the hands of the workman; not raise their own bread, but an equally imporand thus, upon a level road, a slight push is all tant fact,—they have not the means of buying it.



THE GUELDERLAND FOWL.

In placing some of the breeds of fowls, which are very respectable, and in this respect they will we have occasionally introduced, before the read-er, we do it to afford him an opportunity of pronounce the Guelderlands to be a first-rate breed for profit, and especially for beauty." learning something of the various kinds that have been brought among us within ten years, or that have been gained by crosses with the old stock of the country. We give their merits and defects, as we have observed them in the poultry yard, or as we find them described by others.

In Bennett's "Poultry Book" we find the following account of these fowls :-

I am indebted to Mr. H. L. DEVEREUX, of Boston, for the following account of the original importation of this breed, and a description of those in his possession.

"The Guelderland fowls were imported from the north of Holland, some years since, by Captain John Devereux, of Marblehead, in the ship Dromo; and since that time have been bred purely by him, at his place in that town. They Holland. They are clad in a beautiful blue-black plumage, but the flesh is white, tender and juicy. They have no comb, but a small, indented, hard, bony substance, instead, and large red wattles. They are of good size, great layers, seldom inclining to sit; bright, active birds, and are not surpassed, in point of beauty or utility, by any breed known in this country. Their weight is for the cocks. The laying qualities of the hens glass, obscuring light with scratches.

SPAYING COWS.

We learn that a gentleman at Newburyport had two cows spayed last spring. They have done so well, and given him such satisfaction that he has recently had the operation performed on another. They are all fine milkers. One of the cows spayed last spring, a fine young Durham, gives as much milk now, in October, as she did last May, a few weeks after calving. The other, an old cow, is now in rather low flesh and has fallen off somewhat in her milk. Their milk has varied in quantity, according to the keeping they have had. But they have neither of them fallen off are supposed to have originated in the north of as much as cows in the ordinary condition. This gentleman keeps four cows, and he intends to have a fourth spayed soon, so that he may have his whole set in this condition. We shall watch the result of this experiment with much interest.

"Commentators are folks that too often from five pounds for the pullets, to seven pounds write on books as men with diamonds write on For the New England Farmer.

PROPAGATION OF BROOK TROUT.

Mr. Editor:—I notice in the Farmer of Oct. 22d that a correspondent describes his fa-under these circumstances, and having no facilicilities for fish culture, and inquires, "What ties for separating them, the result was, that when kind would be most suitable, and in what manner would it be best to confine them?" In your to the spawing bed this fall, I found only about reply you refer him to me for information. I am happy to respond to any question relating to the propagation of the common brook trout, (having never investigated the habits of any other species,) if I have any information which the public does not already possess. Before referring to my own personal experience and observation on the subject, I will reply to Mr. Howes, by saying, that if he has constructed a pond where he can maintain a living stream through it of the dimensions stated, it is perhaps the best natural arrangement that can be procured for the common brook trout, providing he can keep out other kinds of fish. If the stream running into the pout is provided with a gravelly bettom it shallow water, or hiding places, where the older natural arrangement that can be procured for the the pond is provided with a gravelly bottom, it is perfectly in keeping with the habits of the brood trout to ascend the rivulet during the language. month of October, deposit their eggs, cover them up, and descend to the deepest part of the pond for their winter quarters about the last of November. If Mr. Howes can now add a fixture whereby he can prevent the "young fry" returning to the pond too soon, his arrangement will be nearly complete.

dissipation," as it is sometimes called, but this business, is that they do not stop to figure—they little experience has proved a complete triumph are negligent in this particular, and seldom, if in some respects, but in others a partial failure. ever, know the precise cost of a single article I have proved (to myself, at least,) that the particle they produce. They work hard and long, taxing rent trout will readily domesticate and familiar their physical powers to the utmost, and neglectize themselves to artificial arrangements, so as ing the mental, till they have been persuaded to to deposit and cover up their eggs, and leave believe that it is all right that they should prothem to hatch out after the natural process, with- duce for others to consume, without adequate reout limit or failure. To my mind, this is an in-compense to themselves. teresting consideration, inasmuch as it relieves us from all the difficult and nice labor of artifi-

cial propagation.

of the trout.

secured by wire screening, so as to prevent the of every pair he makes.

young brood getting in with the parent fish, and before I was aware of it, schools of them were there, and becoming less every day, in consequence of the voracious habits of the older fish; I drew off the pond to transfer the brood trout thirty of last winter's hatching. These varied from three to five inches in length, and when first discovered about the first of last April, they were from one-half to three-fourths inch. As I hav watched the movements and propensities of the trout, I am convinced that the destruction of the younger by the older is immense, when not prevented by artificial arrangements.

As the result of close observation, I have come to the conclusion that the young associate with the old, indiscriminately, until they find that incannot follow, and thus a few, comparatively, are CHARLES HUMPHREY.

Lancaster, Mass., Nov. 1, 1859.

For the New England Farmer.

HOW TO RECKON THE COST OF FARM PRODUCTS.

Mr. Editor: -One of the great reasons why I have but one year's experience in my "trout farmers do not succeed any better in their

Now, what I want to see is this:-I want to see every farmer who produces any article to sell, know exactly what it costs-no guess-work Having discovered this, it only remains to se- about it; but to know, that's the point. I precure the young fish from being destroyed by the sume no one doubts but that everything we proolder, who feed upon them. To do this effectu-duce has a positive, definite cost, for whether we ally, several pools or ponds must be provided, know it or not, such is the fact; then why deso as to classify and preserve them; an object ceive ourselves in the matter? I know it is not often obtained without considerable expense, thought to be very difficult to ascertain the pre-With such provisions as I have intimated, there cise cost of farm products; but if it is difficult it is manifestly no limit to the natural production is not impossible. Then let us try to systematize the business to such a degree as to become In my efforts to hatch them artificially, I did familiar with it, and in time it will become so not succeed, and I think it was owing wholly to easy that we should be almost ashamed not to the fact that I did not follow the teachings of know all the facts in the matter. How long the female trout, and cover up the eggs with would a merchant or manufacturer stand if they gravel. Following the directions of writers who have published on the subject, I found no diffinistance, a pair of fine gaiter boots. How is the culty in compressing both the male and female, and procuring thereby the materials necessary for the artificial propagation; and for about one quarter of the globe; many islands of the ocean month every appearance corresponded to results are brought into requisition to produce them. The stated in published accounts. But eventually, they all turned white, which was evidence that they had lost vitality. This is one of the failures alluded to above. The other was this: The been brought into requisition by many difference that they had lost vitality. The other was this: The been brought into requisition by many difference that the control of the cont connection between the spawning ground and people, and yet any manufacturer would be the home of the brood fish was not sufficiently ashamed not to know, within one cent, the cost

Let us reckon up the cost of cultivating an acre of corn in the same manner that a manufac- classes of men, should call things by their right turer reckons the cost of his goods, and see what names, and if hay will bring a dollar a hundred, we shall make of it. We will take an average and corn a dollar a bushel, why not sell it, and acre of New England land, such as is usually put not feed it out to stock, when we cannot possibly to corn in this section, and see what it does cost get more than one-third of it on the growth of to raise a bushel. I will, in the first place, make our cattle, and oftentimes not anything. I very the figures, and then give some reasons for reck- well know that stock makes manure, and manure, oning as I do. The reader will understand that judiciously applied, makes hay and corn; but all we are considering the matter as it actually is, these things have a dollar and cent value, and and not as it is under some extraordinary circums should not be purchased at too great a cost. stances made to appear. We will suppose this What I want is this, (as we have it from the best acre to be worth forty dollars in the market, and authority, "that the laborer is worthy of his located one-fourth of a mile from the buildings, hire,") that the man who labors upon his farm, and we will cultivate it in the usual way.

and we will continue it in the assure ways	
ONE ACRE OF CORN.	Dr.
May 10, Two men, two yoke oxen and plow one day "15, One man, four oxen and cart one day hauling	
manure	
May 15, Ten loads manure	10 00
" 16, One man one day, and yoke oxen and harrow	7
half day, spreading manure and harrowing	1,75
May 17, Man, horse and boy 1 day furrowing	
"18, Man and boy one day planting, \$1,50, seed 25	
" 19, To putting up line, &c	
"6, To replanting and ashing	mg.⊒,50
" 25, To hoeing and cultivating	2.50
July 10, To pulling weeds	
Sept. 10, To two men cutting stalks and stooking do	2,00
" 25, To carting stalks to barn, &c	
Oct. 12, To harvesting	2,00
" 13, To husking and taking care of butts	2,00
" 13, To interest on land, capital and taxes	
" 13, To fencing and rents of barn and corn house.	
Dec. 15, To shelling and marketing corn	3,00
	\$47,00
ACRE OF CORN.	Cr.
Dec. 15, By 30 bush. shelled corn sold	\$30 00
" 15, By 6 bush, ears soft corn sold	
" 15, By stover and pumpkins	
	\$37.00
	٥٥٠٠٥٥

Thus it will be seen that we have cultivated our crop in the most prudent and economical manner; we have charged nothing to the crop which no system can prevent. Our business is but what rightly belongs there, and have allowed a high average yield, and sold it for much more than farmers usually get, and yet have made a net loss of ten dollars!

I want to say here, that, in my opinion, there are but comparatively few acres of corn planted in this State but what run the owner in debt more than this has. And what is true in regard to this crop is true of most others; only much more so, for aside from the hay crop the corn is the most reliable, as it is the most important upon the farm. I do not wish the reader to understand by this that I suppose the farmers usually sell their corn. This is not so. Farmers in this section are generally buyers of this article, and consume upon their farms this and most other crops, and by this way of doing business do not generally realize more than one-half what we have allowed.

The farmers, I think, have a peculiar way of mystifying their business by running one thing other use of it. Then the account will stand thus: into another, as by feeding out their hay, corn, &c., to make more manure at a loss of some fifty per cent.-to raise more corn at still another loss, and in this way go on, year after year, and do not find out their mistake till their physical energies are broken up, and, unless they have had some outside successes, a portion, at least, of their capital is exhausted.

It seems to me, that farmers, like all other (if judiciously,) should so understand his business as to realize as much as other laborers get. 5 I can see no reason why a man who owns a farm should throw his labor away, or any considerable portion of it, any more than the merchant or manufacturer, who, to save clerk-hire, do their own work. One of two things is evident, that the farmer gets no return or per cent. on his capital; or, reckoning six per cent. on his capital, he gets no pay for his labor. I mean, of course, by work on the farm.

I know very well that it will be considered unusual to reckon some things which I have put into this crop. But, what if it is unusual? Do they not rightly belong there? The old custom of half reckoning, or not reckoning at all, is what I want to see broken up, and let every crop and every animal upon the farm answer for itself. In this way, and in no other, can the farmer ever hope to stand on an equality with all other classes of men. I am perfectly aware that different localities, seasons and circumstances, will vary the figures somewhat, so that no positive rule yet, this rule will always hold good,-never deceive yourself, nor cut your corners too close, for there will always be some waste or losses extremely hazardous. Crops are liable to be cut off or broke in upon, cattle to sicken and die, and being exposed to the extreme variableness of the climate, we find, after the utmost care, that we are constantly running great risks to health and future enjoyment.

However, let us stick to our caption, and see what we can do to make up this loss on our corn crop, for we have made a positive loss there, and the shrewdest Yankee that ever was made, cannot figure it any other way. Suppose we go into the stock business, and see if that will extricate us from the dilemma? This is a very important part of agriculture, and most of our friends who are fond of good roast beef and good sweet butter and milk, (barring the naughty milk-man,) consider it very profitable. Let us see. When a calf is first dropt, his hide is worth one dollar, the meat will pay for taking it off for the pigs, and I presume that no farmer would make any

	CALF.	Dr.
	self	
Tο	5 qts. milk per day one week, at 2 cts. per quart.	70
То	6 qts skim milk per day seven weeks, at 1 cent	2,91
То	1 bushels meal	1,50
	care and attention, 3 cents per day	
Τo	18 weeks at grass, at 10 cts. per week	1,80
То	26 weeks barn, at 50 cts. per week	13,00

\$22,88

Thus it will be seen that our calf has cost us der. Now take a doubled piece of flannel and at one year old, \$22,88. Now shall we sell it or lay on the bottom neatly, that no sand can run grow it up into an ox or cow? If it is decided through. Place a layer of sand thereon, to about to sell it, a loss of more than one-half must be the depth of six inches, and pulverize charcoal sustained. If to keep it, my word for it, the loss and make a very thin layer, then another layer will be greater still. This is stock-raising. It of sand of the same depth, again another layer will be seen that there are several small items of charcoal, the last, a heavier layer of sand. that I have not put into the cost of this calf, such This barrel of sand and charcoal, is to set over a as rents, interest, &c., which legitimately belong tub which the cider can run in. The process of there. Usually in reckoning the cost of cattle, cleansing now commences. Draw from your ci-we offset the labor account against the manure; der barrel and pour on the sand, &c., taking but no one will suppose that a calf can be taken care not to stir up the sand much, rack the whole from the cow at one week old and cared for till through, putting the rectified into another sweet it is eight weeks for any such pay.

is it, then, that the farmers get along? I can Too much charcoal is a damage, as it colors it. very easily answer that question, but can do so, Rural New-Yorker. perhaps, in no better way than in the language I have used before, and say that no poor man can live by farming, unless he works for wages. I am perfectly aware that this view of the matter is directly antagonistical to the views of those who undertake to shape public opinion. But what if it is? If it is true, it will stand, if not, it will fall. To take a narrow view of the subject, I might say the popular one, it would seem to be for the interest of all other classes of men but the farmers to have farm products cheap. But, breed from, and in selecting seed, strive always pel this popular clamor of glorifying them in or- to procure the best. If you have a good animal, der to fatten upon credulity. I freely admit that reserve it, and sell your mean calves, lambs and such arguments, in times past, seemed plausible pigs to the butcher; he can turn them to more and generous, but I begin to see through the er reluctantly admit that it now looks a little cape contamination by having them taken away. foxy. Why is it that all farmers who have no ics' wages, simply to harvest and market them. The amount of the loss to the farmers of New England this year, on the corn crop olone, is sufficient, if sustained by the traders and manufacture with almost the same facinty, we may destroy the cow or ox. By selecting our most valuable and symmetrical animals for the shamficient, if sustained by the traders and manufacture with almost the same facinty, we may destroy the cow or ox. By selecting our most valuable and symmetrical animals for the shamficient, if sustained by the traders and manufacture with almost the same facinty, we may destroy the cow or ox. By selecting our most valuable and symmetrical animals for the same facinty, we may destroy the cow or ox. State, and "nary red," would be the universal response. In all other kinds of business, as far as I know, some system or uniformity of prices prevails. What the mechanic charges for acertain job which, acting by obvious and irresistible laws ing price for his work. This is right, and with this arrangement we find no fault. We expect to pay the traders and mechanics a fair profit; but how is it when we have anything to sell !-is there ever a word said about profit or cost? Not of vegetable physiology, knows that it is one of at all! We can buy the article so and so, and the great fundamental laws of nature, that "like that settles the matter. Now, what I want is, produces like," and this law is equally as pervadto have the farmer know what the article costs, inc. a principle in animal, as in regetable life. and not scab the craft. T. J. PINKHAM.

Chelmsford, Oct., 1859.

KEEPING CIDER SWEET.—Take a barrel that will not leak in the sides, with bottom in and top will be no trouble in the escapement of the ci-|matically developed by scientific breeders in for-

barrel, in which, afterwards, put in a pint of mus-I know that the question comes up here, how tard seed, and your cider is fit for any company.

HOW TO KEEP CROPS GOOD.

"Let this be held the farmer's creed-For stock, seek out the choicest breed; In peace and plenty let them feed; Your land, sow with the best of seed; Let it nor doing nor dressing need; Inclose, plow, reap, with care and speed, And you will soon be rich indeed."

advantage than you can, and your stock will es-

In the vegetable kingdom, the most healthy outside help, find that it is with the greatest dif-and vigorous plants are invariably those which ficulty that they can meet their engagements, and spring from the most healthy and vigorous are continually in debt to the merchant, the me-special stocks. Cern, or indeed most other vegetables, chanic and the money-lender. It is, because they stocks. have to sell their products, almost universally, may, by selecting inferior seed for several conunder the cost-many less than one-half what it secutive seasons, be so deteriorated in quality as costs to produce them. And I hesitate not to be comparatively worthless, In the same mansay that many farm products do not pay mechan-ner, and with almost the same facility, we may turers, to close the tills of every bank in the those that are worthless or deformed, we are certo-day will be the price all the year, always charg- over which we can exercise no efficient control, ing a small profit on the material used and a liv- produce a distinctive or family configuration as

Every person who understands the principles ing a principle in animal, as in vegetable life, and presents us with an injunction for the regulation of our efforts at improvement; and this is eminently worthy of our regard.

In casting our eyes around us, we shall at least out, bore enough holes in the bottom that there perceive that this law has not only been syste-

eign countries, but that it has every where reof the community, the attention and encouragement it deserves.

which now so frequently causes us to turn from which was the highest during the summer. mere trifle to select seed in this way, even in the 12th days. case of the cereal grains.

For the New England Farmer.

REVIEW OF THE SEASON.

MR. EDITOR:—It may be instructive as well as useful to the public, to examine the records of ing of the 5th, which was the coldest, with a temthe past, and define the peculiar characteristics of the season, which have a bearing on the proson on 11 days, and its amount was 1.315 inches, perity of the farmer, and compare them with the which was less than the mean of the three previrecords of former years. Although we have had a partial failure in some crops, yet others have yielded abundantly, so that kind nature, in dispensing her gifts to man, only changes her abundantly. Amount of cloudiness, 44 per cent.

August had a mean temperature of 67.76, being dance from one crop to another. The growing 2.05 warmer than the mean, and was the warmseason commenced under favorable circumstances est August for the past seven years. The exin regard to crops. The weather was rather dry, tremes of temperature were 43 and 87.50. Rain and the earth moderately warm, which fitted it fell on 11 days, and its amount was 2.845 inches, well for the reception of seed, which was committed to the soil in the proper season, with what three preceding years. The earth was extremely effect a review of the months will now fully explain.

2.12 below the mean for the past seven years, ficient to injure crops on low lands. The amount of rain was 2.26 inches—about the amount of cloudiness was about fifty per cent.

and in 1857, 5.64 inches. Here was the commencement of a season much too dry for vegetation, for the ground had not yet been fully saturated with water. The first five days of the month were entirely free from clouds, which is a very for the nights have been unusually chilly. There unusual phenomenon in this region. The amount has been a large proportion of chilling southof cloudiness during the month was about forty- east winds, consisting of nightly aspirations, of cloudiness during the month was about forty-two per cent. There were frosts on the 3d, 11th, 23d and 31st days, besides others on low lands not noticed. The last was quite severe, killing corn and other vegetables in many places. The first thunder storm took place on the 7th, and another on the night of the 26th; these were the only thunder storms during the month. There was a beautiful halo around the sun on the 31st day, which lasted from ten A. M., to one P. M., and was extremely bright between eleven and twelve A. M.

June had a temperature of 62.44, being 2.24 ceived from the intelligent and reflecting portion colder than the mean, and is the coldest of the and the last part moderately wet. The amount Were we to go through our several field crops of rain was 4.12 inches, being more than in any at the commencement of the season of matura-|other month except September, during the seation, and select the best and earliest ripe of the son. The amount of cloudiness was fifty-seven divers sorts, we should soon find the benefit of such a course, and our fields would present at harvest a very different appearance from that day, the mercury stood at 92, at one P. M., them with dissatisfaction. It would cost but a extremes of temperature were 36 and 92. White

> July had a mean temperature of 67.30 being 2.35 colder than the mean, it being the coldest July for the past seven years with the exception of 1853. The extremes of temperature were 41.50 and 90. This was the only month that escaped frost in this region, but report says there

which was 3.09 inches less than the mean of the dry during the month. Many wells and springs April had a mean temperature of 39.36 being was a light frost on the morning of the 30th, sufwere dry, and all streams exceedingly low. There

September had a mean temperature of 56.43, same quantity that fell in April, last year; it fell being 2.10 colder than the mean, and was the on eleven days. Two inches of snow fell during coldest of the past seven years. Rain fell on 17 the month. Grass commenced growing about days, and its amount was 4.615 inches, being a the 14th, but was backward during the month, little more than the average fall, but was not sufand the forests were bare and leasless. The ficient to affect the lower springs, nor give the May had a mean temperature of 58.72, being quence of the protracted drought of summer. 4.69 above the mean, and was the warmest May Since the frost on the 15th, the forests have put for the last seven years. We had 1.89 inches of on their hues of "purple and gold," the fading rain, being an unusually small amount for May, beauties of their autumnal dress, and the precur-The amount of rain in May, 1858, was 3.56 inches, sor of early decay. Soon the deciduous forests

This may be said to be a cold, dry summer,

The corn crop was the nearest a failure of any

bitten, so that the yield will be small and of poor hours be noted, so that reference may be had to quality. Grass was our next lightest crop, yet the work on precise points, and a store of invalit was of excellent quality and well secured. Intervale meadows yielded nearly an average crop, uable knowledge may be acquired that shall give but upland was unusually light. Wheat was the labors of life a new value. The book is a ligood, yet there was but little sowed. Oats were brary in itself. It contains the kind of informaa first rate erop-perhaps were never better. tion most needed by the young of both sexes. Potatoes are a full average crop, and entirely free from rot, and are tolerably plenty. Buckwhe at was destroyed by the frost and was mostly lost. Apples are quite plenty, although of poor quality. Plums are an entire failure, as well as fruits of the drupe kind generally.

Shall we hear similar reports of the season and the crops from other parts of the country? Brandon, It, Oct. 24, 1859. D. BUCKLAND.

NEW PUBLICATIONS.

Wells' Principles and Applications of Chemistry; for the use of Academies, High School: and Colleges. Introducing the latest results of Scientific Discovery and Research, and arranged with special reference to the Practical Application of Chemistry to the Arts and Employments of Common Life. With Two Bundred and Forty Illustrations. By David A. Wells, A. M. New York: Ivison & Phinney. 1859.

This book is especially prepared for the use of academies, seminaries and colleges, and will undoubtedly prove of great utility in that direction; but it is not there, after all, where its usefulness ought to be mainly felt. There are other places, vastly more numerous and none the less appropriate, where it would charm the mind, give it mental strength, and prepare it better to understand the principles which govern everything we look at the wisdom and beauty of this arrangedo. For every employment, however simple and humble, requires something of the aid of art and science. In cooking the breakfast, both are indispensable, and so in sewing the patch upon the knee of the pantaloons, in cutting the dress, or any of the most common and ever-recurring employments of life. The moment the Indian begins to construct his wigwam of bark or boughs, or the Esquimaux to construct his snow-hut, he ealls to his aid something of the arts and seiences, and civilizes and enlarges all his powers by the operation. And this is the effect upon us all in opening, as it were, and investigating natural laws.

The common mind needs more of this knowledge; a better understanding of what gravity is, for instance, or cohesion, attraction and crystallization. It knows that the sun is warm, and yet is told that it is nearer in the winter when the thermometer is at zero, than during the fervent be, and how refreshing and gratifying to learn in an easy and familiar way, the reasons for these seemingly contradictory assertions.

Let this book, then, become the companion of

erop, being light and late, and somewhat frost-perplexing questions that arise during working

Wells' Science of Common Things; a Familiar Explanation of the First Principles of Physical Science. For Schools, Families and young Students. Illustrated with numerous Engavings. By David A. Wells, A. M. New York: Ivison & Phinney. 1859.

What do we know of matter, and how do we know it? There may be a sensible, and in some degree, satisfactory answer to these questionsbut who will give it? Can you, young man? We observe that you are studious and inquisitive, but these questions, and a thousand others, puzzle you daily. This book will help and interest you, and in seeking instruction from its pages your life will be a happier and more useful one. Let us illustrate it,—or, rather, let it illustrate itself, in an agricultural point of view.

Why does dew fall more abundantly on cultivated soils than on barren lands?

Because cultivated soils (being loose and porous) very freely radiate by night the heat which they absorb by day; in consequence of which they are much cooled down, and plentifully condense the vapor of the passing air into dew.

Pause, my brother laborer, a moment, and ment, and it will nerve the arm which guides the plow and hoe, and cheer the heart that hopes for abundant harvests. We are all too ignorant of the common things of life,-the things we see, upon which we work and depend for comfort and subsistence. Let us devote more leisure hours to their investigation, so that we may better understand nature's laws, and thus shield ourselves against those losses which spring from a want of knowledge of nature's changes around us. But we will let the book give another familiar illustration of itself.

Is the air of our rooms always in motion?

Yes; there are always two currents of air in the room we occupy; one of hot air flowing out of the room, and another of cold air flowing into the room.

How do you know that there are these two currents of air in every occupied room?

If I hold a lighted candle near the erevice at heat of midsummer! How perplexing this must the top of the door, the flame will be blown outwards (towards the hall;) but if I hold the eandle at the bottom of the door, the flame will be blown inwards (into the room.)

This book contains two thousand and fifteen the fireside, the quiet, unassuming and intelligent questions, of a character similar to the above. If friend for every leisure hour; let it be remem- a person is building a house, and does not underbered during the engagements of the day, and stand how to construct chimneys so as to afford

a good draught, the perusal of this book may be dampened when used, and applied rather generknew a man build a house, who rather churl shly the deposite beans. refused to listen to our suggestions about the construction of his chimneys, and after tormenting himself and family with smoke and flame for him right!"

EXTRACTS AND REPLIES.

IS MARL A FERTILIZER?

A neighbor of mine wishes an answer to the following inquiry: he says-"I wish to be informed whether leaves and other vegetable substances, falling into shallow water and sinking to the bottom, will, in process of time, turn to marl?"

Haverhill, N. H., Oct. 20, 1859.

REMARKS.—No. Marl is an earthy, not a vegetable substance; and any earthy substance in which the proportion of calcareous—that is, limy matter is apparent, mixed with sand or clay, is styled in popular language, a marl. Of this there are three principal varieties, 1. Clay marl. 2. Sand marl; 3. Slate or stone marl; 4. Shell marl. If you find a substance which you suppose may be marl, pour a little vinegar upon it, and if it effervesees, it will probably be marl, and will contain fertilizing properties.

QUESTION ABOUT A CRANBERRY MEADOW.

I have, in the county of Norfolk, a piece of land which is valuable principally on account of its descent from my great grandfather, it having been in the name over one hundred and fifty years. There is upon the lot about two acres of swale which has been mowed yearly for seventy years, but is too strong to plow. There are many beds of cranberries upon the land, of a jured corn. The soil is rather shallow, with will oblige their suffering friend, many small round stones. The question is, whether it would be advisable to try the cranberry culture upon this lot? JESSE WHITING.

Groton Junction, Oct., 1859.

Remarks.—We cannot tell, away from the meadow, but should think it would. Try a portion of it, and see how it succeeds.

"SAW-DUST AS A FERTILIZER."

worth ten dollars to him, or ten times ten. We ously, well incorporated with the soil receiving OAK HILL.

Nov. 4, 1859.

FINE OXEN.

I saw at the Essex House, in Salem, to-day, a six months, expended \$400 to put them right! pair of oxen, grown at Greenland, N. H., six The verdict of most persons would be,—"sarved years old, that weighed 7000 lbs.—varying only about 25 lbs. from each other. They were of a beautiful red color, bright eyes, and well formed. I have never seen any cattle superior to them. I have heard of individuals animal, nine years old, that weighed 4000 lbs., but I think these surpassed such an ox—all things considered. I hope the proprietor will be well rewarded for exhibiting them-their sight is more interesting than that of elephants or wild boars. Oct. 27, 1859.

CARROTS.

Mr. B. H., one of the most successful cultivators in this town, informed me that he had gathered six tons of as handsome carrots as he ever saw, from 27 square rods of land. This would be about one ton to six square rods, or 27 tons to an acre. The price of carrots at this time is \$8 per ton, consequently the produce of an acre would amount to 8 times 27, or \$216 per acre. Considering that carrots are not an exhausting erop, I look upon this as good doings. Few crops yield so well this season—cold as it has been.

South Danvers, Oct. 27, 1859.

P.

BREMEN GEESE.

Will you be good enough to inform your readers who has the pure blood Bremen Geese for sale, described in your paper of Sept. 24. Hartland, Yt., Oct., 1859. W. S. Grow.

REMARKS .- We do not know. Will some one who has them reply by letter to the inquirer?

APPLE OR CIDER STAINS ON LINEN OR COTTON.

Will you permit an old subscriber and faithful good quality. Contiguous to this swale are four reader of your valued journal to inquire, if any or five acres of moist upland, where good crops of our good mothers of New England can inform of corn have been raised, also rye and potatoes; me of the best and most effective manner of rethe land is very free from frost, as only one year, moving stains of apple or eider from linen or that of 1816, for a half century has the frost in-cotton, after being fully dried in? If so, they

"Oak Hill."

THE CONCORD GRAPE.

The more we know of this grape, the better we like it; and this appears to be the case with nearly everybody. The exceptions are those who have long settled in their minds that the Fox grape, being a universally condemned variety, every seedling possessing any portion of its flavor, must necessarily be worthless. To us, and In answer to the inquiry contained in your to ninety-nine in a hundred, the Fox grape arojournal of Oct. 29 as to the value of saw-dust as ma is agreeable, and constitutes one of the most a fertilizer, I would say its virtue in the raising attractive qualities. The Southern Cultivator, of beans, equals, if not surpasses, any enricher of published at Richmond, Va., thus refers to it. soil I ever saw. As a fertilizer to other vege- "A fine bunch of grapes, of the variety called soil I ever saw. As a fertilizer to other vege-"A fine bunch of grapes, of the variety called table products I have never as yet seen it at-Concord, was brought to our office a few days tempted, but purpose the coming year to test it ago, by Mr. E. G. Eggeling, florist and nursery-further. It was found most productive by being man, near this city. The bunch weighed fourteen ounces; the fruit above an average size, be- four years' growth, the cloth being fastened to flavor."—Germantown Telegraph.

AN EXTENSIVE PEAR ORCHARD.

The past week we visited a very extensive pear orchard in this country, perhaps the largest in wind, in any direction. Western New York, planted by Messrs. Starks all healthy, and making a good growth, and many planted a belt of Norway spruce, across the enof them bearing good fruit. So well pleased tire orchard, consisting of two rows ten feet were we with the appearance of this orchard, that apart, and the trees in the rows twenty feet apart, we made a rather careful examination, and gained those in one row being opposite the open space some facts, which may be of interest and profit in the other, leaving the trees ten feet apart. to our readers. These trees were from three to Two similar belts are planted through the orch-five years old when planted, which was done durard, at about equal distances, though the highing the winter of 1857-8. The winter being un- est points of land are selected for the purpose, usually mild, planting, which commenced in De- and these it is thought will afford all necessary cember, was continued through January, Febru- protection from the wind, as the trees are made ary, March and April. Occasionally, freezing to head low. weather would put a stop to the work for a few days. No difference is apparent in the growth of healthy and vigorous, and making a fine growth, the trees between those which were planted in many having already made shoots from three to the fall, spring, or winter, and not a dozen out four feet in length. Although having had but of the number died. The varieties are as fol-one season's growth since planting previous to lows:

Flemish Beauty224	Dearborn's Seedling58
Rostiezer112	
Louise Bonne de Jersey231	Columbia
Bartlett	Beurre Diel294
Doyenne Gris d'Hiver27	Winter Nelis58
Seckel270	Lawrence311
Virgalieu	Glout Morceau116
Onondaga 58	Vicar Winkfield373
Sheldon	Easter Beurre70

The soil is a clay loam, or as the proprietor expressed it, a "limestone loam" for eight to ten cloth. inches or more, subsoil clay, though not very sand, the whole resting upon fossil lime rock. The ground was prepared by subsoiling, about eighteen inches deep, and the trees planted twenty feet apart each way. In setting them out the the upper portion of the roots were about one one-half a bushel of earth was placed at the foot of each tree, in a conical form, immediately after safety in the removal of trees, even when large. planting, which was allowed to remain until the middle of May, and was then levelled and the longer, must yield a princely revenue. We hope interrupting the roots, for a space of six feet in diameter. In the fall of 1858 a mulching of about two bushels of manure was given to each tree, over which was placed earth in pyramidal form to the depth of one foot, to protect from mice and severity of winter. This was allowed to remain until the first of May, last when all was call the attention of readers to an article by ". Vormade level, and spaded as before, over an area seven feet in diameter.

The trunk of every tree, from the ground to ton cloth, sufficiently large to admit of three or ergy and action once more.

ing about as large as a Black Hamburg, in ap-the lower branches, and hanging to the ground. pearance very much like it, with a very thin skin, This, the proprietors believe, protects the trunks a perfect bag of juice, and of the most delicious from the sun, and from sudden changes of temperature, and in a great measure prevents blight and other evils, such as the hardening of the bark, the contraction of the pores, thus preventing the free flow of sap, necessary exhalation, &c. Two cedar stakes are driven by each tree, to which it is fastened, preventing swaying by the

The rows run east and west for about three-& Mattison, embracing forty-five acres, on which fourths of a mile, and are as true as it is possiare growing over 4,800 young standard pear trees, ble to plant trees. At the western extremity is

> Now, for the result thus far. The trees are the present, many of the trees are bearing fruit. On one Seckel we counted 131 specimens, and on the Bartlett, Flemish Beauty, &c., fully as many as the trees should be allowed to bear. On removing the cloth from the trees we found the bark glossy, smooth, and soft to the touch, yielding under the pressure of the finger. No blight has ever been seen in the orchard, and this exemption the proprietors think is mainly attributable to the protection afforded the trunks by the

The proprietors are entitled to great credit for stiff, having an admixture of loam, with a little their enterprise, and we hope to see them amply remunerated, as we have no doubt they will be before many years. Mr. Mattison is an experienced nurseryman, who knows how trees should roots were covered with earth to the depth of the thorough course that he recommends to othbe grown and cultivated, and practices himself about one inch, over which was spread something ers, of which this orchard gives abundant proof. like two inches of stable manure. The remaining portion of the opening was then filled with and here we may say that Mr. M. claims an important of the opening was then filled with and here we may say that Mr. M. claims an important of the opening was then filled with an opening was the filled with a claims an important of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was then filled with a claim of the opening was the opening wa earth to grade. The planting being completed, proved method of cultivating pear seedlings, by inch below the average grade of the soil. About larger number of fibrous roots, which, to some root-pruning during growth, thereby securing a extent, prevents leaf blight, and ensures greater

This orchard, if well cared for, for a few years earth spaded as deep as practicable without these gentlemen will have many imitators in Western New York; and, indeed, in all parts of the country where fruit can be grown with profit. -Moore's Rural New-Yorker.

ACQUAINTANCE RESUMED .- We are happy to folk," in another column, and to learn that New Hampshire air, and New Hampshire fare, have the branches, is covered with a bag made of cot-brought back to our correspondent health, en-

CURE WANTED.

on his halter, brings his under lip up on the hitch strap and grunts or makes a noise like a horse cribbing. I don't know but it is the first stages of cribbing, but I have never seen him get hold of anything and grunt-nothing more than to bear down on the halter and grunt. What is the matter with him?

J. WARREN.

Charleston, N. H., 1859.

REMARKS .- It is difficult, from such, or any description, to tell what the matter is with the colt. There is some morbid affection, or the animal would stand quietly in the stall when properly fed. There is actual disease, of some kind, or there remains some want unsupplied. It appears that the colt is stabled—is he there constantly? If so, let him run an hour or two, each day in the field where he can have access to plowed ground; add to this regular, and sufficient feeding, and try the plan. If this fails, some wiser head than ours must prescribe for him, from an investigation of the case.

PHOSPHATE OF LIME VS. ASHES.

MESSRS. EDITORS:—I have heretofore been slow to adopt the new notions in agricultural improvements, especially in the use of the so-called fertilizers. But within the last two years I have learnt of some good results from the application of superphosphate of lime, and this season I have for the first time used that fertilizer. I obtained some of Coe's superphosphate of lime, and on the 23d of May planted my potatoes, and about the same time planted my garden vegetables. I had spread and plowed in a small quantity of stablemanure. According to my usual custom, I planted in drills-tubers about 20 inches apart in the row, and cut so as to be not more than three or four sprouts in a hill. I planted two rows side by In one I put unleached ashes, as many as I could well hold in my hand at once, in each hill. In the other I put two-thirds of a gill of superphosphate of lime in each hill. Very early in the season there was a marked difference. Where the phosphate was put, the vines grew more rapidly, and when they had attained their growth, hey were one-third to one-half larger than those where the ashes were put. I have now dug the potatoes, and will here state the result:

I dug ten hills where ashes were put, which contained 36 of good size-weight, 81 lbs.; small size, weight, \(\frac{3}{4}\) lb.=9\(\frac{1}{4}\) lbs. Ten hills where the phosphate was put, 55 of good size—weight, 153 lbs.; small size, weight, 13 lbs.=172 lbs.

figures :

lbs. 12 ounces.

Mr. Reed thought there must be a difference I have a three year old colt that settles back in the condition of the land that made a part of the difference in quantity. I then dug five hills of each kind in another place.

Five hills where ashes were put, 16 of good size weight, 3 lbs.; small size, weight, 2 ounces= 3 lbs. 2 ounces. Five hills where phosphate was put, 28 of good size—weight 6 lbs. 11 ounces; small size, weight, 7 ounces=7 lbs. 2 ounces.

In the growth of my other vegetables, I think I have seen much benefit by the use of the phosphate of lime. A knowledge of these facts may be of some advantage to farmers and gardeners. -John R. Howard, in Boston Cultivator.

THE SMALL STINGING NETTLE.



This nettle is the plant so common all over New England, and one which is well remembered through life by those who were brought up on a farm. The quaint old herbalist, CULPEPPER, remarks, "that they may be found by feeling on the darkest night." The small figures are the flowers of the plant enlarged.

NETTLE, Urtica, (from uro, to burn; in reference to the stinging properties of most of the species.) An extensive genus of herbaceous or I thought the difference was so great that this shrubby plants of little beauty, and which are statement might not be believed, and my neigh- justly looked upon in the eyes of the agriculturbor, Mr. William Reed, accepted my invitation ist as mere weeds. The herbage in all the speto be present at another trial. Mr. R. made the cies is copiously armed with venomous perforated bristles, each of which has a bag of liquid I dug ten hills where ashes were put, 34 of poison at its base. This liquor, by the slight good size—weight, 6 lbs. 5 ounces; small size, pressure required to pierce the skin, is transmitweight, 11 ounces=7 lbs. Ten hills where phosphate was put, 48 of good size—weight, 15 lbs. the numerous exotic species have not this sting-3 ounces; small size, weight, 1 lb. 9 ounces=16 ing property; but the sting of common nettles is not to be compared with that of some of the

Indian species grown in the gardens of Europe. "sap settles to the roots in a visible form, that is These are, however, all surpassed in virulence by owing to temporary causes, the removal of which one which in Timor is called *duoun setan*, or devocauses its instant reascent." My method, for il's leaf, the effects of which are said by the na- years, has been to take the vines and lay them tives in many cases to cause death. In England, along upon the ground, throwing over them a the indigenous species of nettle are three; viz. light covering of leaves, litter or the refuse of 1. Roman nettle (U. pilulifera.) an annual plant, the garden. Should the vine be so situated that growing in waste ground amongst rubbish, chiefly I cannot conveniently take it down. I tack up near the sea. The herb is armed all over with peculiarly venomous stings. The stem is branched, off the sun's rays. That it is the warm days of leafy, bluntly quadrangular, often purple, about winter that kill many of our half-hardy shrubs, two feet high. 2. The small nettle (U. urens) is as well as vines, is exemplified in the culture of found to be in all cultivated ground a trouble- the Morus Multicaulis. This plant was found to some weed, especially on a light soil. It is an- winter better on the north side of hills than upnual in habit, flowering from June till October, on the south. smaller than the last, and of a much brighter green; its copious stings hardly less virulent. The several parallel ribs of the leaves form its distinguishing character. The whole plant being refused by every kind of cattle, should be carefully extirpated from pastures. 3. The common or great nettle (U. dioica,) which is a noxious perennial weed, growing almost everywhere, and flowering in July and August. The root is piece on Saw-Dust as a Fertilizer. I would say branching and creeping, with fleshy roots, and that whether it is a fertilizer or not, it depends many fibrous radicles. The herb is of a duller very much upon how it is used and of what wood green than the last, erect, three feet high, with it is made. Dry saw-dust is one of the best of less irritating stings. Leaves large, heart-shaped. articles for bedding horses and cattle, to take up spreading, pointed, strongly serrated, veiny. The the urine and keep the cattle clean. But hard leaves are employed for feeding poultry, espe-cially in the winter; when boiled, they are said out doubt for the land. Many of your readers, to promote the laying of eggs. Asses devour I presume, can recollect how well the grass used nettles eagerly, but all other live-stock refuse to grow on Rock Maple land, and where, espethem unless they are dried. In the western islands cially, the trunks were left on the ground to rot, of Scotland, a rennet is prepared by adding a as they used to be fifty years ago, as I very well quart of salt to three pints of a strong decoction remember. of nettles; a tablespoonful of which is said to be sufficient to coagulate a bowl of milk. The young tops of the common and smaller nettles land. I recollect of putting a load on a spot may be boiled as potherbs during spring, and some two square rods, where, being on a side-eaten as a substitute for greens; being not only hill, there was not soil enough to make it grass eaten as a substitute for greens; being not only nourishing, but mildly aperient. fibres of the stem may be manufactured like hemp, and are often found in winter naturally separated and bleached. The roots are astringent and diuretic.

For the New England Farmer.

LAYING DOWN THE ISABELLA VINE.

Mr. Brown:—At this season of the year, the open air grape vines that are trained up upon a wall or building should be taken down and laid upon the surface. I have thought that my former very soft when wet, but good to put into the directions given some time since, may be repeated. Most cultivators are aware that the Isabella when you sow down. I did this on a piece of vine suffers more or less every winter. Long ground I took up from pasture, and have noticed shoots of the previous year's wood, and occasion- that my cattle graze on that part where I put the ally the whole vine, is winter-killed, (so called.) mud, two or three times as much as they do right Many attribute this to the extreme cold; I believe it to be caused by the warm days of winter. In our variable climate, where the thermometer sinks to

Salem, Oct., 1859.

For the New England Farmer.

SAW DUST AND SHAVINGS AS FERTI-LIZERS.

MR. EDITOR:—In your last issue I noticed a

Saw-dust put on land, right from the saw, I think is not just the thing, unless on dry, cobbly The tough over for years before, but since, I have seen no signs of barrenness. I believe it to be a retainer of moisture, if nothing more.

Hard wood shavings are also good for bedding, such as come from planing machines in making wash-boards, &c., &c., they being very fine and soft. They cause the manure to heat much faster, and, of course, will need overhauling much sooner than usual. I think hard wood saw-dust and shavings should be used freely for bedding, even if you have to go miles after them, and they will answer every purpose of going to Peru for guano.

Meadow mud is not good for bedding, being yard or barn cellar, and even to spread on ground

zero, followed the next day by a bright sun with lars, because manure heats, and the stench arising the warmth of spring, a plant so susceptible as injures the hay, and also the cattle, where they the vine is generally affected by these sudden have to breathe the foul air. I have no doubt but changes, particularly as the sap does not take that if cattle have to breathe this bad air, it must lodgment in the roots, but, as Dr. Lyndley says, be injurious to them, as well as to the hay they "is always in motion at all seasons, except in the eat. But why have it so? This heating and bad presence of intense cold." Can we wonder at odor should not be suffered to accumulate. My these results? "If ever," says the same writer, father-in-law (who is about 90 years old,) said

to me this summer, that nothing is lost, and if heard that sour buttermilk was good. it goes off in the air, it comes down in the dew. cured some and washed it from head to foot, and True, I said, but it might come down in some old in three days his breathing was very regular, and swamp of my neighbor's, and I, as well as he, he was as smart as need be. I had no more would not get much use of it. To save it, put in trouble with him.—Rural New-Yorker. anything, even sand, that is worthless, apparently, if you can get nothing better, to take up the moisture, and that, by overhauling, will prevent heating, and double the quantity and value of manure will be made to what would be in the old way of cows in the yard in summer, and manure in winter thawed out under the eaves, and wind and water driving off all this bad odor people are so afraid of in cellars. There is no body so hard up but that they can find sand for this purpose, if nothing better. Keep the cattle in the barn at night and put one or two shovels-full of sand to each animal, together with straw, old meadow hay, saw-dust, or shavings that are fine, to make a good bed, and you will be astonished at the amount of manure you will make. By so doing, you will have it all, and ready for corn.

Some farmers not only put sand or loam on the floor, but have a pile on the barn cellar to throw upon the droppings every morning.

to some brooks or springs to obtain their drink. Some let them go as they please, (which is the best way to ensure the eattle to drink what and when they wish.) Others drive them, perhaps give their expected quantity of milk, and then the boys are found fault with because they gave too much hay and have not milked clean.

To get water conveniently, dig a well near the yard or under the shed, which should join the cellar, and will not generally be more than some 20 or 30 feet, and many of them much less. Should you happen not to find as much water as desired, be sure and dig large, so as to stone up an equal volume of green, unfermented stable some five feet at bottom, so as to make a reser-manure, and work the whole thoroughly into the voir, put up an eves trough on barn, and conduct vellow earth until the virgin soil is approached. the water into the well, and then get one of "Ayer's Self-Acting Farm Wells," and use it. You will find your cattle do much better than they will to go dry, or have to go some 20 to 80 silicates contained in the fresh earth, as well as rods for their drinks in cold and blustering to ensure the more ready absorption of the ferweather. Your cows will water their milk much better than their owners, and suit their customers a vast deal better, for the quality as well as quantity you will be able to let them have. have used one of them three years past and know sprinkled in lightly as the filling goes on, will of a certainty the good of them. The cattle will be of great service, and, indeed, any kind of veggo freely to drink as to an aqueduct, after a few times, and most horses, if dry, will go on the platform the first time without any trouble whatever. The freezing is not half so bad as in common pumps or aqueducts, as only occasionally any trouble occurs, and that easily corrected by a pitcher of warm water. ALVAN WARD. Ashburnham, Oct. 31, 1859.

LICE ON CALVES.—A number of years ago I had a yearling that grew poor, and I could not help it. Its breathing became so loud that it is well known that the sand and coarse gravel could be heard several rods. I thought it would excavated from wells and cellars, will, when exdie. One of my neighbors told me that he had posed t atmospheric influences, imbibe princi-

I pro-

DEEPENING THE SOIL.

The depth of a cultivated soil is always a matter of importance. Lands on which the vegetable stratum is thin, are deficient in permament productive power, and require a much larger application of manure, and more thorough working, than those which have a greater depth. Digging two spits deep, as is practiced in Europe, or gradually going deeper with the plow, tends to obviate this difficulty, and will eventually render the soil productive, if the requisite care be exercised in cropping and manuring.

Where the vegetable stratum is thin, and reposing on a poor subsoil, a speedy change may be effected in the following manner, although People lose much manure by being obliged to from the great cost of labor in this country, it let their cattle out in winter, and perhaps summer, may not be advisable to adopt it except on a limited scale: Along the margin of the piece to be improved, be it more or less, throw the soil, subsoil, sods and all, into a winrow on one side, twice a day, and if they drink when they drive to the depth which is desired, say twelve or twenthem, well; if not, they must go dry. If dry they ty-four inches. Then commence on the side in will not eat their hay well, and cows will not the direction the improvement is to proceed, and deposit all the mould and sods taken from the top in the bottom of the first trench, throwing that taken from the bottom of the second trench over on to the top of the first, and in this manner, proceed till the work is done. Then cart on old, well-decomposed compost, mixed with A liberal allowance of manure is requisite in order to hasten the decomposition of the soluble tilizing gases from the atmosphere which are necessary to impart vigor and activity to its latent powers. A small quantity of fresh manure sprinkled in lightly as the filling goes on, will etable matter, such as straw, forest leaves, or chip manure, will materially assist the process of enriching, and furnish food for the plants.

Lands treated in this manner stand the drought much more successfully than untrenched grounds, and are always found to be more productive, with the same amount of manure, than the deepest soils in their natural and unimproved state.

On gardens we have seen it tried repeatedly. It is well known that the sand and coarse gravel

ples of fertility rapidly, where no manure is used, out of the way flowers, and sprinkles sparkling and become in a short time covered with verdure. minerals over the hills. We have known the common yellow sandy loam taken from the pit and spread upon upland mownear or remote, undulating woods and open lands, ing fields with the happiest results. This loam and cultivated acres, and fields of "waving grain" is full of fertilizing salts, which, upon being in summer-time, or whatever aspect the changpart them to the roots of the grass with surpris-in his vision, or contract his horizon, but on the dewy morns of summer it is his privilege to ening effect.

dency to absorb enriching principles from the fresh morning air, often perfumed with the sweet air, and in all experiments like the one we have odors of countless flowers, and in his every-day suggested, they can be profitably employed. The second year after digging, a very decided imdering him essential service in the orchard and provement will be apparent, and a single opera-garden, besides ministering exquisite pleasure to

to this suggestion if they wish to make it highly productive. We have tried it on garden lands, mountainous, silver-crested masses rest on the we have doubled the crop,—using no more ma- the grandeur of the rising thunder-storm is his nure than we did before the trenching.

For the New England Farmer.

if I am thankful for one thing more than another chargeable to himself, not to his vocation or sur-—in temporal affairs—it is that I was born a far-roundings. Indeed, all those elevating influences mer, and the son of a farmer; that I have been that poets have sung of, and learned orators love brought up among rural scenes and rural people, to tell us of, are constantly surrounding the farand have been taught to labor in agricultural pur-mer. suits, and thus brought into intimate connection with the wonderful and mysterious workings of pleasures the farmer may enjoy if he will; yet, I Nature—the manifestations of the Divine Hand, fear that the mass of farmers are insensible to the For I believe it is the farmer's privilege to be the charms of agriculture, and plod on like the ox "most amiable, the most comfortable, and the they follow, as they walk behind the plow, whole most independent man in the world;" and that ly unmindful of the higher life they might convide help. it is his duty, as well as privilege, to rise, intel-lectually as well as morally, in his "heaven-ap-harped in your ears till you leave the sluggish pointed employment.'

man's toils, and pleasures, and necessities. But that there is, in the work-shop or manufactory, amid the clink of hammers and din of machinery, in the counting-house, or in the routine of the merchant's duties, such an inducement to nealthy thought, and such a field for noble contemplation as is spread out constantly around the armer, in his free, healthy, out-door employments, is hardly supposable. The silent workings of Nature's immutable laws, in the mysterious germination of seeds, magic unfolding of leaf and flower, and maturing of vegetation, and all forth an abundance of things useful to the sustenance of his race, while she beautifies without instruction, and decks his fields with friendly,

brought to the influence of the air and rains, im- ing seasons may present. No brick walls shut joy the extended view spread before him in all Plaster and charcoal each have a powerful ten-lits freshness and beauty, to drink in the pure, tion will have a decided influence for many years. his finer sensibilities, if he will but open his soul Those who have but little land should attend to their influences. A pure sky is spread above accompanied with thorough draining, and think horizon like old snow-capped monarchs; and all to enjoy, of which the city inhabitant knows but little.

Everywhere the tendency is to an ennobling influence, and if the farmer is not virtuous and THE FARMER AND HIS SURROUNDINGS. high-souled, if his mind is not cultivated, and the I often think, while at work in the fields, that contemplation are not within him, the fault is

It would take a long time to recount all the his occupation will admit of more opportunities and which no one can do so much towards helpfor thought and reflection than others; and that ing him into as himself Perhaps I am telling routine you have followed your life-time, acquire Do not understand me, however, to despise or an appreciation of progress and improvement, disparage other vocations, so necessary to make throw off your narrow conservatisms, and adopt up the harmonious whole, in the varied round of liberal views of life, and you will see then that man's toils, and pleasures, and necessities. But your occupation is a noble one, and that you may

and flower, and maturing of vegetation, and all the phenomena of attending circumstances, invite his investigation, and fill him with admiration at their exquisite harmony and beauty of adaptation. With them he has constantly to deal, and in his op-tellectually. Let farmers cultivate the mind, as erations it is his study to assist Nature in bringing well as the soil. Here is a field productive of

our vocation; it is one there is nothing in to be ashamed of, but, on the contrary, much to appreciate and be proud of. With less temptation to viciousness than the city denizens, why may we not be more virtuous? With less temptations to prodigality, why may we not increase in this world's goods as well as they? With more leisure for study, why not be more intellectual?

Springfield, Nov. 7, 1859.

Erratum.—In my article on "Tobacco versus Useful Crops," recently published in the Farmer, (Nov. number of monthly,) read in the state-into the terrene world. ment of expenses, for "topping, mowing, &c.," topping, worming, &c.

THE CLOSING YEAR.

- "We take no note of Time But from its loss; to give It then a tongue Is wise in man."

is lost, that is well spent. There is, we suppose, in reality, no such thing as the lapse of time:-It is all Now, to the Eternal Mind. What passes, and decays, and disappears from our view, is by that wisdom which is better than rubies, and the finite, that upon which the elements act and that shall be our stay and comfort in every time change from one form to another.

The object of life that is clearly indicated both by Nature and Revelation, is Progress; pro- in blessings, and among the best of them have gress, not only in subduing and replenishing the been the pleasant associations with those who earth, but Progress in the attributes of the soul. We are to

"Learn the mystery of progression duly: Not to call each glorious change decay; For we know we only hold cur treasures truly, When it seems as if they passed away.

Nor dare to blame God's gifts for incompleteness; In that want their beauty lies; they roll Towards some infinite depth of love and sweetness, Bearing onward man's reluctant soul."

If there were no change, there would be no progress. We call it the work of Time,-it is as much the work of Eternity. All is tending to the great work of perfection-upward and on- Mr. "Aquila" has attempted to read me a homily. ward towards the Infinite that has created and governs all. Nothing retards and alloys but sin. Nature is as active and more consistent in her progress, than man. She clothes the earth in the richest attire, and gives perfection to plant nate. Mr. Aquila, nor any other equally scienand animal, that they may re-appear in still more tific man, ever saw any seed-eating bird swallow beautiful forms. The mighty forests fall, and in a seed without first breaking its coating, for it is their progress come to us again greatly increased the kernel required for sustenance, which is not in value. Mountains and hills yield to the general law, by gradually finding their level, and un- |ing erected several houses on high poles for their folding the rich treasures which have for ages encouragement. been hidden in their deep recesses. And so the birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit, if it is avoidable to birds never eat the seed of fruit and the seed of man.

-"I saw him grasp the oak,-It fell; the tower, it crumbled; and the stone, The sculptured monument that marked the grave Of fallen greatness, ceased its pompous strain, As Time came hy."

Now that another year has passed,—while its last shifting sands are noiselessly gliding out, it becomes us, brother travellers, to review this period of Time, and see what progress we have made towards the divine life, the end and object of all. Has it been satisfactory? Does the balance sheet stand fair, and the soul serenely wait the verdict of the Great Judge! Then all is well, -for there has been progress in the very heart of life, and the celestial streams lovingly down

The year that has passed! It has brought to most the checkered scenes which it never has, and never will, fail to bring. Sickness, and death, and separation; poverty, and want, and disappointment; sad and touching words, stinging realities! They mark the progress of existence everywhere, -but they come all too often, The poet means the passage of Time. No time and mainly through our own want of wisdom. Cannot we profit by the past? Let us lay this inquiry upon our hearts, and see that every future thought, and word, and deed, is prompted of trial.

> Farewell! then, Old Year! It has been rich habitually read these columns, and for whose prosperity and happiness our frequent communings have excited a sympathy almost as lively as for those that gather around our own hearth-stone. Then let the Old Year go,-let others come and go, and give us no anxious thought, while we strive to progress in virtue and heavenly wisdom as well as in material things.

> > For the New England Farmer.

SEED-EATING BIRDS.

Mr. Editor:—In your issue of Oct. 15th, He says that all seed-eating birds, such as the vellow bird, deserve a full share of the denunciation for scattering the seeds of injurious weeds. It is an incontrovertible fact that seeds having their flinty coverings broken, will never germiobtainable with its indigestible covering. much for seed-eating birds, which I protect, hav-

ble; the seed of the pear or apple they never eat; but their stupidity, or greediness, never discards the seed of small fruits, and that every seed has its germ perfect, after having passed the bird, is a fact not disputable. He says, "many times have I seen robins follow the plow, picking How did he know that they did not discriminate tainty than any short plow we ever saw. picking up only such as suited their fancy?

"Aquila" asserts that he has seen, this very season, a robin fly from a fence, pick up worms and swallow them, when a cherry tree was quite as near. Was it a Tartarian, an Oxheart, a Reine Hortense, or some Canadian cherry, a robin proof fruit? if so, it ought to be disseminated; a cherry, in reference to which robins will play the Hottentot, and eat worms in preference, would be a godsend to fruit-growers.

Let us, in moulding the character of the rising generation, inculcate a spirit of justice, aid and protect each other, and the time will come when every man can sit under his own vine and tree, and enjoy the fruit of his labor, lawfully protected from freebooters and poachers.

South Danvers, Mass. J. S. NEEDHAM.

HOLBROOK'S UNIVERSAL PLOW.

We have several times spoken of this plow in terms of commendation. The opinions formed of it were gained by actual field trial, on several occasions, and were in accordance with those of some of the best plowmen in Middlesex county. Quite recently we spent half a day in the field, where several plowmen whom we had never seen use it before, held it and used it with several of its different mould-boards and cutters.

The first experiment was with the interval mould-board, which laid the furrows over flat in a very handsome manner. The next was the mould-board used for stubble plowing, with a common cutter. This gave a furrow ten inches deep and twelve inches wide, and when the team was kept exact, the plow would pass along for several rods together without any guiding. The cutter being taken off, the skim plow was attached to the beam, making what is called the double plow; by this arrangement the skim plow cut the sward about two inches deep and laid it handsomely away on the bottom of preceding furrows, while the stubble mould-board that followed, rolled up the soil from below, breaking it into thousands of pieces, and laying it into a seedbed, only needing the passage of a harrow to ling,) raspberry, (Franconia Red,) can be culprepare it for the reception of seeds as fine as onion or carrot. We are confident that this mode of plowing will save a very considerable amount of labor in the after cultivation of the crop. The next trial was in the use of the stubble mouldcertainly accomplished what we had not expected of it. The ground had not been plowed for they could lay, and flanked occasionally with the fered to remain in the seed bed. roots of bushes. Yet we never saw a plow work steadier or better. In passing over a large stone it would eatch in more readily, and work up to a warm exposure are exceedingly apt to be

up every worm and bug that came in their sight. and away from the stone, with more ease and cer-

The last trial which we witnessed that day was in a meadow. The plow was rigged with a wheel cutter and a very long, tapering mould-board. Six stout oxen were attached to it, but the off-ox of each pair was enabled to travel on the sward -instead of the bottom of the furrow-by having an iron rod start from about the centre of the beam to the forward end of the same, and standing off from it about six inches in front. The furrow slice was cut ten inches deep and sixteen inches wide, and the meadow—three-quarters of an acre-was completed without a baulk or bad place in it, and a harrow passed over it twice would have fitted it admirably for being laid down to grass!

The furrows in all these trials were not laid over by guess work, but were as scientifically moved as is the locomotive, or printing press, or power-loom. The most indifferent beholder could see beauty, as well as utility, in the operation. We hope our plowing readers will look at this new plow for themselves.

For the New England Farmer.

GARDEN AND FIELD WORK.

TRANSPLANTING TREES.

Is the fall or spring the best season to transplant trees? In replying to this question, I would say that it depends upon the weather and state of the ground. If, during the fall, we have warm days accompanied with rain, extending the growth to a late period, the wood being unripe and succulent, I should rather hesitate in commending the fall; on the other hand, if the ground is dry, and the early frosts being sufficient to take off the leaves, the wood of the last year is well ripened, I should commend, in this latitude, to set the pear, apple, cherry, currant and goose-berry in the fall. The peach, apricot and nectarine, I should invariably set in spring.

CURRANTS AND GOOSEBERRIES.

Currants, (the White Dutch is the finest variety for general culture,) gooseberry, (Houghton's Seedling.) blackberry, (Dorchester Seedtivated with profit, and under circumstances as described above, the fall is a good time to set

SEEDLING TREES.

Trees that have been grown from seed the past summer, such as the peach, pear, apple and board on stony land. This was a place in which quince, that have not attained to a greater we had never seen the plow used before, and it growth than six or eight inches, had better be taken up and laid in, as it is called, in a shady place, covering them slightly with litter, sufficient to keep them frozen through the winter, as twenty years, was nearly as thick with stones as they are apt to be thrown out by the frost if suf-

HARDY GRAPES.

Grape vines trained upon a building or wall in

killed, particularly the wood of the previous more importance to discover and introduce variyear, by the warm days in winter. These should, eties which are capable of general and out-ofafter the fall of the leaves, be taken down and door cultivation, than of such as require the aid laid along upon the ground, that they may not of expensive buildings and artificial heat. The be exposed to the alternate freezing and thawing modes of artificial culture are already sufficiently of that season.

GUANO.

In our hot and dry climate, the Peruvian guano, when applied to the land in spring, often It is very desirable to find or produce those fails of producing any marked effect; on the con- which will ripen early, and which are of more trary, if applied in the fall, spreading it over excellent flavor and texture than the common the soil of our gardens, and turning it in by the varieties; and also that the mode of managing spade, we shall find it a good fertilizer, as well as them should be more generally understood. more lasting in its effect than when applied in April or May. The usual rate of manuring is grapes which we see at horticultural exhibitions about three hundred pounds to the acre.

INSECTS-CHERMES.

of the leaf in spring, produced by a minute insect called chermes. I have found that by applying air-slaked lime around the bushes early in the that the latter should claim the greatest share of spring, I have entirely succeeded in keeping off this pest. I have also for some years applied reach of but few. Out of door cultivation is open spent tan around the gooseberry, (Houghton's to every one, both in city and country, who has Seedling,) with marked effect, in staying the rav- a house to live in. The former must be confined J. M. IVES. ages of the gooseberry worm. Salem, Nov., 1859.

EXTRACTS AND REPLIES.

ABOUT FATTENING TURKEYS.

Will you, or some of your correspondents, inform me of the best mode to fatten turkeys? Whether to shut them up, or to let them run at large, and what kind of food to give them?

A Subscriber. Oakham, Mass., Nov. 1, 1859.

a comfortable roost in a dark cellar, and will fatten rapidly; but it is a cruel process to deprive the birds of the cheerful light. A better way is to feed them liberally for two months before their flesh is wanted. Give them a variety of us in the precise direction which ought to be food, such as corn, oats, wheat or barley, and be pursued. once a day a mess of boiled potatoes mashed while hot with Indian meal, mingled with scraps, bits of fresh meat, or in the want of them, a lit-George Morrison asks, "If you, or any of your tle lard or tallow, just enough to season the correspondents, can tell him where he can get whole. If they are fed regularly on such food, and have a supply early in the morning, they will not ramble much, and will continue to grow will instake the trouble be seen by an experience. as well as fatten freely. There may be a better quantity of roots, and I will risk their growing way than this, but if there is, we have not learned anywhere. I guess there will be no fear of their it.

CULTIVATION OF NATIVE GRAPES.

I have noticed in many of the distributions of premiums for specimens of grapes, that, to judge by their relative amounts, the greatest importance is attached to the cultivation of the foreign varieties. It seems to be worth considering, to the way of making hard soap, I will, in reply, whether, if the general interests of the fruit-give my experience. Some twenty years ago, growing and fruit-consuming community are con-being about to change my place of residence, and ed with advantage. It would seem to be of which it was not convenient to remove, I re-

understood, and the kinds which require it, are not likely to be improved or increased in number. It is far different with our native grapes.

No doubt the noble bunches of hot house present a more engaging outside to visitors than any of the native varieties either do, or probably will. But if the object of their exhibitions be, The current is subject to a curl or thickening as it is presumed to be, to encourage a taste for gardening, and also for that kind of gardening which will be more useful, then it would seem attention. Artificial cultivation is within the mainly to the rich, and those who cultivate for the market; while there are none so poor that they cannot, with a little pains and at almost no expense, raise fruit enough for their own use by the latter method, if they only knew the kinds they should select, and the principles on which they should be managed.

The success which has attended the recent attempts at the improved cultivation of our native varieties gives good ground for expectation that by continued attention a still greater improve-ment may be attained. What is needed is appreciation and encouragement. The foreign cul-REMARKS.—Turkeys are sometimes placed on ture will take care of itself, and is not likely to become any better than it is. The native is yet in its infancy, and needs all the aid which emuiation or reward can give it.

Remarks.—Excellent suggestions—they lead

WITCH GRASS.

In your monthly Farmer for November, Mr. not taking, even if he takes very little trouble with them. If he would apply to me, I would sell him a lot pretty cheap.

ANTI-WITCH GRASS.

HOW TO MAKE HARD SOAP.

Seeing in the monthly Farmer an inquiry as sidered, a different principle might not be adopt- having on hand a quantity of excellent soft soap

marked that I wished it was hard soap. My husband, who was something of a chemist, said, it could easily be done, by heating it and adding common salt. I did so, adding the salt a little at a time, and trying it, by cooling a little of it. When I found a thick scum rise to the surface, John Means, Esq., Augusta, Me. it was dipped into tubs and allowed to stand un-til next day. The hard crust was then taken off, melted and poured into moulds, and when cold, cut in bars and dried. It proved very goodthe older and drier, the better. Nov., 1859.

BARK BORERS.

River" correspondent is evidently caused by a species of bark borer.

I have, within a few years, had one tree destroyed, and two others seriously damaged by this insect. It usually attacks the tree on the ican guano to be equally as good as other kinds, south side, although this is not invariably the or, in other words, equally as good as what has case. I know of no remedy except digging them hitherto been considered the best. out with a knife. I have seen a description of this borer in some of my agricultural periodicals recently—think it was the Country Gentleman but cannot now refer to it. I believe, however, it takes some two or more years to complete its growth, which would give time to destroy it before serious mischief was done, if the trees were closely watched. WM. F. BASSETT.

Ashfield, Mass., Nov., 1859.

ARTIFICIAL GUANO.

I saw in the November Farmer a formula for artificial guano; would night soil be better as a substitute in place of garden mould? I see you have referred to Dr. Reynolds-will he please answer the question? A. L.

For the New England Farmer.

THE LARGE BRONZE TURKEY.

Mr. EDITOR: - Having been requested to furnish for the N. E. Farmer a description and history of these noble birds, with my method of raising, I would say, as to their history, the first I heard of them was at Point Judith some years since; from there they were brought into this county, and by judicious crossing with other families of the same breed, their size has been increased until I was able to show a male bird last April, which weighed 39 pounds. The hens are much smaller, yet I have one weighing over 20 pounds, and a friend of mine has one weighing 22 pounds. I knew a one-year-old cock, after it was dressed, weigh 32 pounds, and have known 10 young ones dressed in winter, to weigh 200 weight. These were, of course, extra birds, but a cock well cared for seldom weighs less than from 25 to 27 pounds, when dressed, at one year old. For tame and quiet habits, beautiful plumage, and fine, delicate, juicy flesh, I think they have no equal among domestic turkeys. The plumage of the cocks is thick and glossy, with metallic reflections, rendering them exceedingly beautiful; that of the hens has less bronze, yet is strongly marked with it. I will give you my method of raising them in another article.

H. S. RAMSDELL. West Thompson, Conn., Nov. 1, 1859.

For the New England Farmer.

OPINIONS OF THE AMERICAN GUANO.

[Letter from Dr. Holmes, Editor of the Maine Farmer,]

Winthrop, Me., Oct. 19, 1859.

DEAR SIR :- I have made use of the American Guano that I purchased of you last spring, and am well pleased with it as a fertilizer. 1 tried a comparative experiment with it in the following manner. A portion of a cornfield was marked off. The American guano was used in the hill, say a gill to each hill; beside this I ap-I think the disease in the trees of your "Still plied the Peruvan guano in the same way and quantity, and beside this the fish guano in the same manner and quantity. All the rows of corn did well, and I could perceive no particular dif-ference between them. This proves your Amer-

I have not had opportunity to give it a fair trial as a top-dressing to grass land, but intend to do it next spring. There does not appear to be so much free ammonia escaping from the American guano as from the Peruvian, but it seems to contain enough of it, and as far as I can judge from its action on crops, and not by actual chemical analysis, it contains as much of the other fertilizing ingredients, such as phosphates and other salts, if not more than the Peruvian. With much respect, yours truly,

E. Holmes.

REMARKS .- In confirmation of the opinion which Dr. Holmes has formed of the value of the American guano, we will state that we have used it for two seasons with the happiest results. The first trial of it was on corn where its effects were distinct through the season; the corn coming on earlier in the spring, growing faster, with a dark green color, and producing abundantly in the ear. This last season we tried it through the centre of a field of corn with similar results. It also produced carrots and potatoes, without other manure, of most excellent quality, and liberal in quantity. On beets and parsnips the result was equally marked. But the point to which we attach the most importance is, that it may be used on any crops as a stimulant and fertilizer in the hill, without endangering the germination of the seed, and thus give corn, or other plants requiring a long season, an early start, and secure their perfection before the time of frosts. In our short, cold and wet springs, it is essential to give the corn crop an early growth, and this we have secured by the use of the American guano, better than in any other way.

We hope our farmers will generally try it, and that the price will be kept within moderate limits, so that all may avail themselves of its advantages. We shall continue to use it freely, if the price does not exceed \$40,00 per ton.



