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## *The Farm and Garden.

TO ALI WHO RECEIVE THIS NUMBER.
Gubariptiona may busin with any number, lut we


Nonica is atsay sent of rephration on subscription.


Remitrancea mas



 at me toas en that.
Addresues.-Nu nattor loms oftems yon have writtun
 piphrons.
Nomex eannat be ryassed, on write thom platinty and


 verite tis


 ent jorm aborriptiona to this paper ion rents a gear, payabl
 I'hiludelphin, Pu.

STPTEMBER RAMBLES OVER THE FARM AND GARDEN

## Fil Juseph.

Persmally I detest greans; still mueholarend on the wey they ar eombith of menrer l like
 rutation an the eulinary acommplinmoun of my "steretary of tha* linteriar," and bartater throneh lifer. Wrall, my mothur always sorvell pinanh with fried egge; I ate the exges and left
Fiahion is king. No other power is strong pomert to tivetate in the matter of taste. No sombt greens are a wholuome dish, and many popte will eat them meraly for *atatary reanons
 nor loorseratish leavis. For early sprines, vinch is prohahly as gool as anything. The "round +ravial" may be nuwn nuw, ion highly manured, liglist lomm. A bed just meared af onions oir pas, ur any other early reop, is a very good placu. In very enh localities a thin eoveriner of -atrse straw luring the winter will prove to be remoticial. The young shoots uf porke wfet 4knke, pidecon ímery, plytolacea decandral, make excellent (sia) errema.
Io the South greens ar* a fayorito dish, and the southern Price turni! is larsely erown for he tap. Another very g(on)] vegetable for this parpose is the cursy mostad; 1 have not spen it mentioned as yet in tha catalounes of any seentsmen, and probahiy it is but little known. The beantifully fringeil lasw, with their pangent flavors, are also a desirable addition to our sallal materials.

There are absolutwly nof ales by which Te comid cetermine what , syood or lint, Taste reagnizes neither law aro, anthority. The flliterate mochanic mas be just as and in judge uf the quality of different varietios of potatuen as the learned ML . In, wla, after misonostruing some remarks of mine, until he made mo ajpent
to be an advocate of the Ennly Ruze as "the loest motalo," exthims, with a shruy of his shonlder, "everyone to his tanti"," thetn alds, "the Iiose is rond enough tor eheap bommling honses." Let lin. show up his rlindoma as "Grand Master of


Epicuran Arts," or give up his pretensions and tory nerves of people generally ratify the verdict Effement. Gomb tasto is an article atanst the of chemical analysis. It is the stareh that make d ficieney of which even a refolar diphoma is no a pubato conk dry and mealy. In regard to the
 hectors who, haring wobed themsclees foll at ples' taste will difler as lones an potatoes are the breate of "atma moter," are longing for still serosh. Some benple lik" tha Aavir of young more spiritual fomb, and will suck down a poblet that is, still immature, futatomes to my mind foll of the vileat whink, smank their lipe, and these are watery, becanse defiefent in stareh, and mentally exelam, "duml." Everyone to his therefore in moniment, and entirely unfit to eat, fintp, imleed. Farmers know some things as but everyone to his taste, well an doctors, and the latter shond not be filly of sueh sentiments as "what does the armer know about cucumber salad? "
+
The "best potato," as to real value, is the out chatanimer the largest pererntare of sulid nutriment, that is, stareh anid albumen, and the gusta.
deet me speak another cood word for the Farly Ohin, which shomld not he confrunded with an ,h] varinty hearins a similar name. I have rown it for about ten years, ever since its intronetion by Gregury, in Marblehad, disearding the Early lase altugether, anl have foum it to
 than on uplanks. It ieveleps a remarkaty larse amomat of tarch in a much earlier stage of
growth than any uther potato known th me, and gruwth than any wher potato known the me, and it full size. In pront of carline the Chinbeats

 is alsond far superior th any other early and to a

some strawherry growers are remmemane to burn the mulch oun the hod, after the traw. le eries are picken, to rid the oned of rust and the leaf rull.r. The bed will sond arow

A piece of reclaimed swamp lam,
high state of cuitivation (beines ased an an oum pateh for a mumber of years), would make us the finest garden spot imaginahle, but for its situation, that is close prowimity to my neigh-
bur's barn. We canmot rase anything on it except poultry, that is, the poultry ot said neigh. hor; and the only way to raise that is with the chotgon. I am sorely tempted totry it, or raise a fuss with the wh man hmsem. Every sumpirket fence ahbug the line and around his barnyari. Last spriner he said pickets and posts wert all ready, and the tenee wond be up in lens than motime. So I planten my experimental motath ferice and han to leave the rest for want of material. Now his hens help me weed and materian. my expmimental garden, just as they have done for the last ten years. 1 ptant them, they raise them-ont of the gromm, and "al thein, too (the pesky things are alway hanery) There is a point where forbearance conses th measures. I misht place pieres of potato soakent in Paris Green water among the vines, to get rial of the potuto bugs, and betieve the hens would also, and very quickly lave, hat though morder, 1 pity the lens, aml will have tol let them serateh. A law suit does mot suit my notion, it to sinw, tho muth trouble, and tom unsatisfactory all armund. The potatoes wound have yichlded at the rate of obe or fink bushels per aere, at the least. I should le willing to let my neightar or his hens have the whole crop from the patch, but the resules of earefully contucterl .xperiments are nearly all wost for one yar

Grod Lord, deliver me from neighbors nearer than a mile.

## seEding wheat <br> By John M. Mechl, sit. Louis, Mo.

1 believe the furemost advantage of arilling wheat is the ridged condition of the grouml. Certain it is that it was the chief alvantage in the early days of drills, for then there were 110 perfected force-feeds, and the hoes were emmparatively rude, ant as a result the grain was mot
distributed more evenly or coverd more uniformly than if broadeasted. Leaving the ground ridged is no mean aid to the crops. The only protection which the wheat has during the winter is the snow. It would be an ample protection were it a continuous one. But snow dars not lie thronghout the winter, and we must make the most of what we have. The wimls blow the snow off from the wheat. We feel this most in the prairie States, where the wind soon drifts the snow on the treeless, level land, unless the snow should be very wet. On the hilly lands of other shontes, hill crest and sides are apt to be swept bare. Here we see the advantage of the ridges left by the drill. Iu the little hollows left between, the suow lies securely upon the wheat.
The point then is to make these ridges as effective as pussible. As the winter winds prerall mosth anf south, but east and west. Then the wind will sweup tcross the ridges; otherwise it will sweep along them and eatch up the snow in the bollows

The ridges should also be made as high and as enduring as posible. The way to aecomplish this is to have the ground fine and solid; and it is in just sueh a seed-bed as this that wheat delights. Everything is gained and nothing lost by ploughing the ground early, and then keeping the harrow and roller at work until every clod is reduced in a powder, and the fine particles are forced closely together. The more opposition the ground offers to the hoes the higher will they mure uniform the rilles will be, and the soone will they become solid.

When we com-inter the importance of the ridese ground aftel the wheat has beon dry. This levelulown the ridges, and by torem the earth down into the hallows, covers the sr a too deep I have never known this ta, be done that it dai not reault in a plaia injury to the arops. let 1 often see it recommented ly agricultural writers: I think they must bave heen theoretical men, who never stupped to think what the rewitt of rolling after lrilling mut he I firmb le lieve in rannine the roller just ahead of the drill, and wactioe what llelievo, in this wase at least; but wombl never allow than miler to tollow the drat Lustine the ground ridgen is mot the and With the forrefeel arrangement, as mow imProvel, the manority of the drills now distrime by hand. It the ground is at all rongh, lumge and uneren, it is impossible to in oadeast the sed eyenly. Though it fall as it should, that strikine against elonds and ridges will fall into the delereboms. Then rery few, if anc men, ean throw orain in such a manor that it will fall event pon the ermond: and if there is a breeze blowind he train will be distributad more mevenly. I is sarcely pumable to phace erain more
The drill will cover the semed at a more uni-
form depth than will broulcasting, no matter bow often the gremm is harrowed er brushed after the grain has bend broaleasted npen it, mome sed will remain on the surface, white the ghance will be covered all all alepths not exceed sor, say, six inches. That left uph the surfact will nat, of conrse, germinate ; and not a litt will be eovered so deep that the phant never win lo, will he we wemed by their long journey

 wed fier aere than when drilled. on properly neparel gromb, atrill will cover the gratary
 "ill fall hack upen wich grain of eeal. Iterain hed. In fact, it is apparent in every operation on eecting. When the ground it fittuel rightly, the and can he put in the groumi in mach better hape than where the gromel is rongh.
1 eammo sete the adyantages of clents on armand where the wheat is drilled. "londy grami swils the ridges and the uniform cosering of the sted. Whore wheat is broalcasted, I believe Lround slightly clondy is the best, fur snow will (just where the wheat will fall, and as the elont. are mellowal down by the frost during the winter, the didintegrated farth will fall upon the ront of the what which the frost is contimally heaving above sromat. Put drill ridges acennplish both thene aulyuntages of the clods, ant hettur.
far as I know, the hoes of all wheat drills are made eisht inches apart. I believe larcer hoes tel inches, or even a foot aphom I have better, and bearly every armer mentioned the matter has agreed with me. Larmentioned the matter has agreed woll throw un, better and more enfuring ridges, and the sun could better penetrate among the wheat.
I have frequently sowed wheat on ground so stumpy that it was impossible to drill it. Such ground I have ridged with diamond corn plows. The ground is thus plowed in "lands." In the middle of the "land" two furrows are made at the start, throwing the dirt out, or in opposite directions. The next furrows are run in the same way, about six inches from the first. In this war the work is continued, eonstantly work. ing towards the outside of the land. Plows euting towards the onshes should be nsed. These will leave furrows four or fise inches wide, and a high ridge six inches wide between them. The wheat is sown broadcast on these ringes, ant equivalent to drilling. If the ground is properly equared and care taken in makine the furrows prepared, as will he of the same depth; and ts the the furrows whil he of the furows, it will le grain falls or bounces into the furrowa, ill be left covered uniformly, whine fair ritges win be let

## 


CHORTHAND Writno thor outhy thay ituations procured for pupils when conigeten

Bromdeasting is a fume way to mow wheat one We Wern prairies, where the land is level, there are no protectins timber belt, the whats answers better in the eastorn and mortheratem States: but even in those 1 commeter trilling a mun better way of secting wheat.
We donot fay that attention to the selection $f$ seed that we should. Smo of any neighmars are rery sure that wheat turns to cheat, but it has never done so for me, for I never sow ellatit;
and haviog never raised any, there is mome in the rombl to serminate whan comdtions are favara ble. Cheat is a mull more hami flant than wheat, and the seed has greater vitality; honee a Geed rarely tails to germinate or a plant to grow fonl, and mature, and as a rewht cheat will gain sery fost ulan wheat. Jle who sows cheat, can the whirlwind. This is ergually true of rye The seed of rye has more vitality, and the plant more vigur than of wheat. Almust every seed ut ye is sure to mature a goond enml. When we comsider that if wheat were without the low of a
arain, to ston and hat momerately watl, it wouht increase six hundred fill, and ihat where we soned a boled, we would reap six hmadred, we can matertand how when and ree, which do stond and ham modrately well, caingain so tast upm the wheat. "Whatsever at man soweth, What chall hat reapo" anot nothing more ; sow pure Wheat. and that alone.
Suwing hrunken ered is thortsighted policy, thoush often dome. Shrunken grains are not so Son for sed a plamprains. The sulstance of the plant matil it can expand its foliage above rond, hation thiche it tannot utilize the and in the and. A monken eran may be cond and the phant mant die.

## gardening in florida.

Toseph" has written ahout "Golden Opporunite in the smoth," in glowing colns, his dewhat can be dome. Indecol I am sere that many of them misht he ralizal in florida. In fact many are already anjoying the fruit of the laber in yivilen hatwesta
weral thinge, however, are indispensible to succes. First and most important in the list I place industry, second, patienne third, perseverance, forth, experiemere, wr lacking thut, a wh-
lingnes to learn from those who lave hate axperinoce, fifth, capital, or lacking this, then the musenlar ability io do lots of hard work. I will speak mere fully, an to these items. bewore 1 clone.
Orange growiog in Flarida has attracted so. much attention thromghout the North, that most perpla thare sem to think that that is the mis ondustry of the state. But the trath is that there are nearly as moun encaged in growine straw. berries and vegetaliles for uortherin marketa as in grwing oranges. I have no statintios avalable for comparison, hat 1 an sure that the recelpts from the sate of berries ami vegetahles by the rambers in this state wond makt a rety repuectable showing beside the income from the orange crop. A rery large proportion of those who are starting orange soves here, have not anticient means to be able to derote themselves entirely to their groves for the ten or fifteen years which are necessary to produce a paying or even asit-wupporthg rove. avalable follar as orange trees selfom make any Yeturn for four or five years, and hardy a protitalhe erop under ten years, it hecomes necessury for the owners to resort to some other means of sum bort. Thus it happens that many groves are hanted with regetahle crop. usually until the trees shate the grount so mown among them.
Fruit growing and market gardening are car reat on so differently in Florita, from the same business at the North, that a successfol man ther misht easily fail here, at least the first year buless he was unasually meek and wining (in
Fional Wear Now for hishad. and $24 c$. Highland Park, fll. $\mathrm{sem}^{\mathrm{sem}}$ GRAINS Northern-growa, New Teated
 GRAPE

learn from thone who, having been here veveral yotrs, have thus arguired the necesary experi ne planted at a differnt sobun ; they require different treatment hoth in growiner and in marketiug. Lt is not my intention to gire a treatise in market gardenine, with specific lirectious for the cultivation and marketing of each crop, to dis (1) would fill all the pages of the Farm And CisEDES, to the exelusion of mach mare interect ing and valuable matter. As an illustration, bowever, I will say, that in parkins tomatues for lipment, each one is wrappeel in lisht manilla mper, wheh as is used in packine oranses. The are pieked hefore they lugin to turn red, and it when wrappine them, the parker finds whe that ${ }^{\text {rilie }}$

The principal crops grown in this state are crawherries, tomatoes, string heans, encumbers, cabouge, watmonelns, and Irish potatoes. There are also smaller 'puantities of Dermuda onions, peas, exg plants, de. de. All things consilered, omatoen are probably the mont profitable crop, and therefore the most extemively grown.
A neishbor roalized, two or three years aro, a net profit of 300 per acre from a crop of tomatoes, and in the expenses he comed the cont of labor but such suecess is unusual. The net profit will seldom reach $\$ 200$ per acre, the average will mot exreed sion.
Strawherries woull usually be the most protitable crop, if it were wot for the late of gowl shipping facilities. The berries cammot be went except in refrigerators. As the business is smath fot, there is lint little eompetition, and the owners of the refriserator lines and the comminsimn men between them, manage to get the lion's share of the proeechs, ind eat up about all the profits. Thonder small as yrt, still thre are
thomamo of puarte sent morth every winter, hat the expense of freight, rent of refrigeraturs, commission de., de., eat up the profits so that herries whieh sell in the northern market fior from two to three dollars per quart, return the grower less than one dollar per quart The
ayerare net price to the grower in this State average net price to the grower in this State
sellom exceeds twenty to thirty cents per quart. seldom exceeds twenty to thirty cents per quart.
sill at that price they wruld be very protitable of the crop would all ripen mp in a few works an at the north. But they begin tos ripen hare in Jamary or February and last until June, or about six months. It does not pay to seml strawherries North much later than April 1ht, and uften not so late as that. The crop trom an acre
here will not exeed, in a vear, that of a goss hed at the North, and as it is scattered wer a period of six months, of course single fichings are small.

Wherever a grower has means to go into the lmsiness largely and buy and use his own refrigerator for shippine the fruit, the protits may he more than doblited. Soveral grawers in ono noighborhood might combine and do the samu thing. As it is, growers have realized in favara-
 two greatest drawlacks, which remder the ernd uncertain and deter many from attempting to grow strawberries, are drouth and frost. The hot summers usually burn up most of the old plants, so that to be successful a new bed should tember or Oetober, This monst be lone in sepis so great a lrouth that it is almost impossible to get the plants tu live. A neighbor sot a large led last fall, some forty or fifty dollars worth it plants. Owing to severe and protracted drouth many died ontright and those that lived were so stunted that he dil not sell a quart of berries, in fact, hardly a berry rpened before the shipping achon was over.
Last fall, many plants in one oll bed near me, survived the drought, blossomed in November, and ripened some herrise in December, a small mess being pieked Christmas day. But the first week in Jaunary we hal an exceptionally cold suell, which lestoyed all the green fruit, blossoms and buds, so that no more berries ripentel until late in Fehruary.

## NO EXCELLENCE WITHOUT LABOR.

The Erperionces of a Virginia Furmer.

The cleris to the plow was not to be found this morning. The "hovs" dill not know where it eould be, and some fittle time was spent in look. ing for it, when, as I was going from the shop to the harn, i hit something in the grass that, hy its ring, I knew to be iron: There it was. Althoush ever since they were ir my employ I had done all I could to teach them the neeessity of ordre, a place for crerything and to put all things in
their phaces when the use for them was over, the
carelew tricks still clung to then. Inacom-umod to be trai al.
When i A, a tom was left with the end of the fob, ami , en wanted, to be hunted up. I ro. patedly be ought them to use it a pacticet to out uperrsent, when thotworith it, in the poper blace Gut the replif came that, if they that little else could be done. The shovels and hone were left as wed, covered with murk and manare, and soou becane rasty aind in no condition to lie nsed. Harnens and other implements were ont of repair, bat nu time conla be taken to mend them, and som we could hardly get tools This carelo the work with.
This careles and disorderly way of procedurlindry kimd of haviless is one of the greatent toul with of almose any hlase of lite shat I thenght I had been thoromeh in expressing ins winhes to make order the first as well as the confimued duty in every more that was made. 1 fommet that it had to be maderatoml that it must he complied with. Here on the farm it was as imperative to ebserve it as in a filetory or the supposid higher and more refined and clevated Alpartuente of life. Earth: Iabratory, where the fiom is senmatel, stands at the fiomifation of the pramin of existence, and here orter should be the wateloword, and every workman its faithful vervant.
Finally, when I waw I could not teach to efilect by alviee thrmsh kind work, and though an effort was mow and then male topat up the toms, the cabral tembency beins a enotinuance of houshter, heethes carclosinese, I whal them,
 done, and that they mast follow nut my withe or whe wek ather situations. At time argumant and chajectims to this reppent wore manle, but like the exensec of all carelane ables, they wer "ha of flate, as they almitted that they recetion bay from me for thair work, which was bertiomed fir me, not thom, and that it was their laty th work in my interest and follow wat ny plam. The prohlem was mhen when they aw their ra
lation to their emblaser. 1 eould mot expee

 throush their une and pint up in their places Pribe tom the phaw of indidioneme and core and prompthess mate my" hilp more reliabh every
month. The "bovs" inw hegan to see that there is no excellence without labmo.

The place just wecupith by us had been rented out for many years to thase who cared only for what eould be gathered with the smallest amomont of work posible. Of course, there cond he mo promanent improvements expected from a tenamt where capital was repured to make them, and when labwr was all the capital puenoed. This was -parely usel, wotside of that which was chousht ti be of preatat return as compensation.
wont from year to year. The worme were atlowed to denade the frait trees, which latid lare their boles to the searchines heat of the forme ummer's suta, and most of them lost the bark from that sidw wexposed. Few remain that are not as gool as deal. Fences all destroyell, hedges and weeds and patche of brosh dat this pretty-sarfioend land, while the hublines, thongh :pparently in good combition, are sadly out of repair.
Little, save by dint of harl work, could bee en beeted the first year. To know what is ratly must profitable to he done requires a hittle thme and conditions of the soil. So we make this an experimental year, hoping to make less mintakes each surceredins year from the past falures. Whe principle must lie followed or failure matr anyWhere be the sequel of our ever so hardily-pir formed work. This is to do well all we bndertake, and in farmong, thonch it is on a rented paee, we ean only meet with sucees by thoroush work. It will not pay to get a half conp. The same time is exponled that is required for more save that when lurge crops are mate more work must be dane
The wh stying that "it takes a year to make a kernel of eorn," is not appreciated, but when it is said that but one erop of corn can be made per year, it is easily seen as a fact. The whole year is passed and has to be provided for while one crup is proluced. Now, if but at half erop is
made, there is usially a waste somewhere, and it matters not whether it is in stingily warking wur land, and as stingily supplying fool for the crops, or in any other manner of had planning, or acetual waste of time. It all amounts to the same result-small pay for whatever work is done. As the man who, to evale the encronching briers and brush that are growing around his field, in-
stead ol' cutting them ofl and making a thorough
 mall atra lott hinn in the contre. Sin he wha thlls in a slip-homl matater, war be vear, allow the subsoil to smon hamer and nearer the sur tace ank land seds fouse in plant thout shere the Enots can reach it. Sond the farm in "rm nte, "and he seeks fir a mew fichl tw actin he om set, becance naturally he will follow thin same "urse.

Preserving Watermelons and squashes.



It is not cenderally known, I think, that water
 fore part of winter. I am led to think that it is not generally knmwn from the tact that it is hat lithe practicath. The watermetan is too fipar a frait to be restricted to ally two or three weeks of the year, when it may lee enjogeal tor ahomet as many menth.

Many of the readerm of The Fabin and
 to be ohtained, lat I think that it will not conne amise to giv" them a frest remintor, while the mass who bave never given the subject a moments thooght may gain are idea, that, if put intoretual pratice, will add moch the their engrment and satisfaction. I harily neel tell sunhom it can he flone, as the promes is undmple that it is the firnt that would attarally come ta mind. The main idea with me in writing this, is to tell yan that it con lie alone
The melons that are to be preservel, should be pioked as late in the season as the trast will por wit, and thon that are "o be stored away shomb lo jut a litthe srecm-say a week before ripening. If pick mat athat particalar atage, and latid away an heveafter directed, they will ripen very slowly mectpying about thre week, perhape, ather
which they will retain their beet guatitits for many lays, and then commence a gradual deter. ioration.
The molons hand he packed in sawden, hran, ate, chatf, in any shels dry, time material that will keep the frnit com, hut still prevent decay.
 milom, and packing material, at were little labon:
 Try a few this seanom, and ser if you are not wed repaid fire gour pains. limember that late arieties of lare size are unatly the lest kepors I always pride myself on having a gonel sumply of somel syanh all Winter, and along into the Gringe. It is not a hatd matter wh lon this if we manage to kpap them even up to ma-winter. It is mot at all surprining that they donathatered in keepine them lonerp, when we consider the mothonk of handing practioet mant emmmonly. In the first plate they must be carefully yathred. The unat way of driving along with the waton box and pitching the squaslesinto it from buth sides, will int answer. They are sure to be jammed and lruived by this means, and whenever they are bruised they will som deray. A sled or twaterat shombl he wed for hatuling them to the ollar, for they may be picked and carefully lat into a luw converance of this kind. lnetead of beins piled in a hay in the cellar, flace them in tier on broad shelres or staging, that the Welght of many may hor 1 res upom the I will warrant squasies so treated to last all winter.

## COAL TAR IN THE GARDEN

## By Anut Critisrom.

A lady, with ample srounds and skilled in the culture of thait, save us her experience in using coal tar water amone her hants.
She found it a certain remedy for rose slugs, cabbace worms, midew on gooseberries, and a preventive of minhew on wrape vines. One
vine subject to it, never had it after a yearly application of tar water. She thought it might even destroy potato bugs, as it had done such good work in other resprets.
She used it in the following froportions. To three gallons of coal tar she used a barrel of wate. 10 one salon of tar, three gallons of water. She stirred it up well and then let it settle. The quantity of tar given here will last for five or six years, using it once a year. She
has never heen tmubled with destructive insects since she has nsed it. As its odor is healthy, it deserves a trial in lien of so miany poisonous substauces recommended as fatal to insects.


## marlboro paspiberry,





 sunnur, and liet theni rume :ill ther will. Nat nure weres thre" varax juet in prophurtion to the

 attel :it all timen, and showld be manured







 We every dive in the yerr." Wr. hare tried it


13y varrobint a littherer amd judument in electing and haulline the batr. fruits, thery will ketp well in a arom cellar. Latt" prars and prap pes hauld ho lluti wh the trees they will hamg, then sathered while Iry tuml treal thinly on the shelyse of a clowt in a coocl, hry, dark, romin or emblar. Alphesshomhat be ex-


 they will have ab nearly an pomable a witiorm tenapmature of alunt for or 4
The followiner asworturent of trees amb phants an be phatul an one aro of lamb, atm will sup: fly a latere family all the fruit the atomae every
 tastron lendisylvania, and are momed nearly in
 lass, firr first-class stuck.
(20) Apple trex, phant 33 feat apart. 1 Jiadoe or 1 summatr led streak, 1 ('ormell's Fancy
 Romana stem, 5 Smith's Cobler, 2 Kinese Jiploin 3 Jen lbivis, 1 Joxbury Iassett, 2 Tewkeabury Winter 13lasis

12 Pears, mant 2 feet apart. 1 Duybone D'Fte.
 fum, ? barthet, I shelden, 1 seckle, 1 Litwrence, 1 Kublor, 1 latier.
('herries, blant 20 feet apart. a Early Riehmann, 1 Mavilaka, 1 3lack Tartarian, 1 Governor W゙ome, 1 ligarrewn.
if Plums, plant 15 feet apart. Wild Conse, Jichland, Lombard, MeJaughlin, Imperial Gate,

Onamorm, phant 10 fect npart. C'hampion Fiens Manmoth, Wrange or Apple
-endes, plant 12 trmes every other year. Cixt apart, br hetwom the nyple troes, hut mever plant perbebes twine on the same land.
llant Cirape vines eight feet apart, anl aroumb the barns and other lubltings, the southern and western exposures are the farorito lacations Telegraph, Ilartforel I'rolific, Brighton, Wiliter (Roger's No. 4), Conoort, Jartha, Dians, WorAon, Lady Wishimeton, Agawam, ('atawb: flaton. If the vinses are to be ntenterted amd they must shift fur themadrea, as is tem ofter the ease, Comeord aml ('linton will be the most likely to sucused.

2 Grafted Chestmat trees, blant to fert apart
Fumbo" the large imprased Eurnpean varaety 12 currants, pant it fert absat. ('herrss, lial Duteh. F'ay"s I'ralifie mex
2 Gomsenserries, plome 5 feet ngart. Amoriean ('Juster and Jowniner

## at) Rispherrime plant 4 feet abirt. Cuthbort,

 as Blackharries, pant ti fett amart. Wilsom's Early, Kittatimy anal Dissonri Nammoth200 Strawberries, plant $1 \frac{1}{2}$ feet apart. 25 ('resont, 50 Manchester, 50 Shargless, 25 Charles 1 owning, 25 Wilsun's Albany, 25 Kentucky
lon A-parigus Vonts, plant 2 feet apart. licmember that all kinls of fruit need good land aud frequent monuring.

ORCHARD INSECTS.-NO. 4.

## By Eli Mrimplt, shitoh, N. J.

The Root Inuas, Sihizonewra Lanigera(Hausm, is very injurions to orchards. This louse is very small, alcunt whotwelfil of an inch long, and mosprinl with a eotlooy down that, when the liea are moneroms, mase the tree to appear as if whitewabaml. "These liree, in the winter, attack the route ut the apple, and also the pear, undergromma, aul live in the larval form until spring, When they attank the suckers at the base of the tree, when they appoir as if splashed with whitewash, und a thu suison becomes warmer they attack tho trunk of the tree and branchos. The lien, with their woknor, perforate the bark of the rose, and surk the sip from it, aml as the bark
 onntume their attinks until the tree nppears as if sealioal by the sun or attacken by a blight, at bmos an antior side of a tree will he killedl ly them, thal will le deromed by a careless observer to bu killan by the hot auns. When the weather heromes vory warm they seek the fop of the true and thi ends of the branches, and can be mon latandial by the white apmearance of the ends of the smallar laramehes. In winter they seek tho ronts arain and live on them, the sumb as the bramelaes. Whan they attack the manll rusts they "anse the rout to torm manall haobs, or koots, alld whorl sury numerons will kill the ronts, as well as the trank amel branches. Nublerome remodies have been projused for them, lut wone of them arr "fteetual

The Jeanh 'lreq Alphis, My:us Pranicoe (Sulzerl, are hituk lier that have the habat wf the Apple Finnt Ionde of living in the wintor in tha arta, foediner on the roots, alld on the first alprowh of warm wather, seck the bramelos, and conver tham ar fally as to enase them to
 namerous at the romid the trees turn yellaw, said mueh of the sulpmatel yellows are only the wort of the lrach tphis, also, mod of the apread of for so-ealled yedlows is cansed by the Aphis and the l'einh lourer. The I'each A pihis also attacks the - Gerrys. The Gireen Aphis of the rose also * very injurinas to the apple and plum. 'Tley attack thi leaves in vast numbers, and surk the sap Iram the leaves amb tentier bramones, and tances them to curl up, and when numerous will arimaly rbork tlip srowth of the tree. The (ppl 'lore Aphis Aphis Mali (Folna), are a redlishbrown aphisuf sulficient size to he easily seen on the mondersiale of the leaves of the apule leaf, and ly sucking its juice they cause the luaf to curl the same as the rose aphis, hut the aphis are very mach larter than the ruse aphis, mad are equally as injurious. The Laty liag tentroysmillions of them, and when the aphis are sery abundamid they ropidly multindy and feed ont them, and will an reduce them that they will hardly be
 furorite fom, will aiso disal!penr, when thi Aphas will rapidly inereane atgain, to be swatt of 'math by the incrasine laty lomes. This will abomant for the aphis beines at times sos abumbant, at other times bat a few are to be seen. The life listory of' the Aphis is not well understom, and mach further investigation is needed. I fimel the Aphis atime morasses, and the irees free from them or anly a few at least, arain the grass will be deserted, and the trees will swarm

Mure iafurmation as to their habi is nerefred. The bark liee, of which there at

## many kllls

 amd maltiply, and semal ont tron conlonite to of alyentanee, amb will sum dostroy the valum the trae. An apmlication, with a hrush, of at and two callous of water, will, when appliad to the male quiekly ioosen it, and kill all the lice bermall it When the scale lice altack the smallom tranches as well as the trunk uf the tree the whole tree must be frequently spayed with the solntim or a kerosene emulsim which is very fffecturl.
I womblay, in clowing these articles, he cart fill te "xamine all the trees yon fillobase
 brietly deseribed. Trees free from insects wil
lue whery rapid growth, and he of a dark ricl arge a size in free from insects, will reanh a arnortwelvastars, l can but close thase artiole with the andiee 1 have so often repeated, look f present, dise hot water for a dip tu dip thom in



 "orbe a cill or so un water of a larer mb, dip th rees, romt and ill, in the tol., dho an oll, datl if 'plackly dome, and Ge treses expmed no the whata, to the air, until boner or two dley may bus set and romw well But if somber in ewore the off will aborb the wil and the trees will he killed as well ats the egre of the insents. I have don
 nicely, free from liae, but undess erarefully dune he the tree will

## LOCATION FOR AN APPLE ORCHARD.

## By L. H. Bralfy, Jf.. Cumbridge, Muse.

## There is no mose freflont canse of failure in  ronnding The suppeition that any heary and bhack soil is suitable for npple growing, simply becanse it is rich, is erronems. "My suil is rich and hamy, and event thoneh it is low and rather ald, I can improse it by underdrainins," said firmor who eontemplated plating an orchard While I would not lessen the faith in liberal underdrainins, l woun, newortheless, urge the naturally wedl dranod, in preference to those artificially drained. It is rare, indeed, that an maguent and cohd soil is made contirely nitable for aphle frowing by tile draning. I liave in mind <br> characters. One is ujma rich, warn gravel with no hard sulwoil within foll or tive feet on clay subsoil. The formor urehard has neverbera drained; it hears well of choice fruit, is in gond health, demand litile care, and has been for which it in situated. The batter has had simila treatment as to proning and general coltivation, only more diligently and vigoronsly applied, and the varietics are ncarly the same. To thi of underdraining. <br> have heen spared to relieve the soril oft all unnecosiny water in the least possible time still this wrehard is a fallure, its fruit is mot not vigorons. I have beard its manager remark, it is impossible to make goon apple land out of bow amd cond soll. A positively foor soil, if warm and naturally wedl drained, is certainty preferable* to one of an opposite character. poor soil* rinn be improved by manuring. <br> ur orcharl at all, but if planted with an idea to pofit it will likely be a failure. Few firms Hanted about on the kindls widl reporn more satisfitction than three times the number on an mandgenal sail. Goos and maturaly wellA rich gromad is especially desirable at and nut be supposed that apples are to be exprected to lwell m an infertile <br> yeretahle matter in a warm soil js alwars neces sary to apple culture. Lack of hardiness, late

beariner, shy luarines, and jundy flavared froit and wet sull
Avile trom perfect drainage and watm soil hiarh limds present other adsantioren to tho appl ernwer. Coll air is heavior than warm air. ablal
 atjawent. We have all hind raperiance the tatity to this atmosplatie drambere while travellinit at night over hills. I'rees on eminnomon encal" hard wimb, endure the winter better than simn lar varieties at low levels. Tha immortance w atmospheric drainage to the archartis me forelbly when once visifine in the mamatain wi Vemmont. A late frost had hestroyed all the apples in the vallegs-hat been as severe, in and walmots. (On the hisher hidlsides and sum mits, however, and enpecially where the confor mation of the hills allowed the air to moll frerly down their sules, the apples were abombant anil uninjured.
We have hefore us a vabuable letter from I. NI
 revird to eirly apples, in which ho hiehly re French Huscat. The Eirly Hay rijeds with him from dume loth to Jaly loth. Nize medinm, and in tirm and color resemblect the Farly Har
 a mediunn sized anta, measuriner tell and ume-hal incles in circumferenee, of a mear, lmantiful y+ulow calor, and an abombant amb early lamare eraum ararly in therast, the fruit almays fin and pertect. We womld be indelated to omi rader it I. N. F゙emilur, uf selnua, Iowa, anks if th adophory and (umberland strawberry tre profitable for fied colture in lowal. Wै bunlal say yes. The imerican Jommonerical Ind the ('umbtrdant tht star for lowit. The Whaon and (hatr tes Inwninn eatel dondentars

Bronderson, it I'ottor ('annty, Pa., aska for list of harily dall and wintor apples for a eold Climate, of "arly bearine amd proditio varietios, Tay alwut Kiolles lears, and fall phantins. It icular section ut dho cotuntry, is vals and con
 orehard has much to do with its hardiness. If an orchard is phanted where it is ropeatedly irnzen and texponed durine the winter, very
hatedy fruit ane wintor kiled. Where late frests bardy fruit ate wintor kiled. Where late frest

## Marlboro

THE GREAT MRIC.: QUNGE. MEECH's PRO

## STRAWBERRIES




TUCKAHOE NURSERY ANO FRUIT FARM

## Garollae Co md hen



## PEACH TREES

\author{

- We have TRADE
}




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200 Amp in fruit Tomes and smail Fruit Pata



## S50 REWARD


 seentsparagorain and baak



 Tha Whitney Sin. 20 , ant the Whalthy are very cold the Kiefter peat will staind wnisjured. In sevare colimates spring plantme is safest. In

| ETTER THAN A POEM. |  |
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WHEAT
TRUE BLACK-BEARDED ${ }^{\text {and ALL }}$

THE BEST

POTTED STRAWBERRY PLANTS

## 

## NEW STRAWBERRIES.

 ing. Varieties pure. Packed in the best manner.
Write fur circular, nnel

## STRAWBERRY P PLIteo

## own in pols for Summer and pallating. PLANTS GROWN

 TO OROER AT LOWEST RATES.IRVING ALLEN, Springlield, Mass.


## Our Fllower Garden.

The lfyrid choxinias, recently raised in Enstand, are much superior to the immorted specios, toth in size and form, and them colors
are almost mnlimited, varyins, in they do, from the purest white throush the diflopht shande ut pink to deepr rel, and from balo-hlne to intense purple, with wallea kind of shothing and bandfer flowers in which there is so manh variety and they also passess ather points equally note. worthe. Gloxinias arr, at this writing, in their full heanty. We beliece no ono in this loeality Irreer, who annually makes a mavniticent dixplay of them (as well as Tuhroras Lomoted Begomian) We have seen plants coverel with flwered and magnificent foliare, some of the leare meaturing seren and one-malf by wisht inches. It is now too late to wive instructions for growing them, remember that after flowering less water must be given, shading discontionel, abl more air almit.
 have died down, the som shomld be allowed to
become quite dry; keep them throngh the winter in a temperature of $\overline{y^{\circ}}$, but comler than that for any length of time is not safe, they generally winter best when the bullicare allowed to remain in the soil and pots in which thoy have been grown, but as they become lares and are in pots of a considerable size, this is not alway convenient; in that case the romts should be stored in paper bate, filled with ilry sand to preserve them from the air, otherwise the shrisel, and thereby receive cerious injury. It in too sum of propagation is by lect cuttings. If the leaves are taken off now, when fully matured, with a portion of the stalks attachell to them, and this portion is inserted in four or five-inch pots, drained and filled with half peat or loam and kept in a brisk heat, slightly shaded and moist. they will form healthy bulbs before wiuter. If the variety to be increased is scarec, several may be producell from single laves by cutting thi midrib through on the umler side, in four or fire places. Then lay the leares flat on the soil in pots or pans prepared as above; over each place where the midrib has heen severed, secure the cut parts to the suil with a pebble or a piece of bent brass wire run thronse the leaf intu the soil; at these points small thrers Whillontmmat
which will make gond flowering plants next season.

## Propagatisia Dectzia Ghacills

When this phant is wetl grown it will throv: un yonne suckers from the ronts, and these may be taken oft in the antum with an sarp kinite, of portion of the root heines attached, cut back
few inehes, amd then they way be potted.

PINCHiNG Plasts.
The chief object of pinehins plants is to make those of stragglins hahits of growth anomme a dense, evenly bramper mor, or th get the pams into some form different to that of its matural
growth. for pinching ont any Chalos or soft
wormed phants, generally two shoote start from and hardy toliage that suffers but litte from prery funt that is stopled, and it one wants to confinement in the drelling-house. They are get a plant to asume il peramidal form, brow and well filled up at the base, the cultivater munt check the upward teadency of grawth, "in mont varieties, hy pimehing out the prints of the strongen limets. Pinchine wht the flowering mints is alvantagenas when we want to retard the phants withsut exhasting their energie

## Pettsias after Bloomisg.

Petmias, when they have dane hommina, shomble thrown away, taking care, howerer that some yome flants have first been propagated froul them hy taking eattings of the tops of the yongrerowt these cuttings ront very frecly leage they should also be increaned by takint cuttinge if the young wonl: these form root very readily, and the youms dants, if taken eare of, will smin grow into a floweriner size. Thberosts, when done thwerine, and after the leaves decay, reguire a seanond of rest. The pate eno and they do bot renuire any water until they begin th flower next spring.

The London fromensays: "Amone the prants Town for une in onr gardens as vegetahbes, the ere
 are somme surts of beet-which misht well be amplayed tor arnament also. (of all luetha plants, however, nome lem their leafy growth with butter effect when phanted with Iriacs. Lilios, Foxeshowes, Puphem, and other showy and richt-endored blowers, than loses the enhmon A-parasus. Its light and feathery surays are in reality more frow amd grated than are these of Andishted with it, as seen in the flower lomders here amd thore. Ife use it also in al cut state, alone with ferns and other areenery, for relieving the loright ondoring of eut blossoms of all kinds, and where flowers are cut laresty for deenrative urposen it will he finald most uarful. It is not atse th say why thre should the a projudien aqainst the ornamental employmarat of useful bantw, but that sach does exist "Eath withat
 If the aphle tree did not bearapples, we homid then trow it largely ac an urnamental shrub or

We have sevaral times mentionel this beantiful climber, which is a desirable achuisition fur angone having a sarchen or a greenhonse. The plant requires a very warm place, and it is said
 rank grower, stme loranches increating in lengtis six inches in ont day. As to onil it lowe not seem marticular, we have seen it planted out in a hallow bench with only mme moss amd manure to cover the runts, and from a small cutting set for a tong of ten to twelre feet for interesting to watch the flowers unfoll at about riyht o'clock in the evening. They look like it huge, bure white Morning Glory, and have a lelicate lerfume. The flower is not quite as cup whape as the Norning Glory, and the stem is rery much longer. It should do very well in a large man who is luce all dar, because he can enjoy this in the erening. W"e believe it is only pro pagated from cuttings.

A Handsome Begomia
Of the many beautiful plant we have seen few ean compare with the thbernus ronted Begoniul Pearcei. The foliare of which is most remarkable by its splemdil variegation of light-green and metailic-hmoze. When held asainst the light it is still brighter. The flowers which stand well ahove the fuliage are also of a pecalar color for Beronias, heine a clear canary vellow. This is a plant for which, no loubt, there will be great demand, hoth for its flowers and decorative Mualitiés.

## Asparigis Plogotes.

This is one of the most elecrant plinte that one The crum in a con greenhouse for furushing an inp xamstible suply of folare for arraging
with cut thwer, a desideratum at all seasmas. The feathery appearance of the finely divided hep-green leares has a charming effert, inter mixel with cut fluwers. One Philadelphia flurist has a housefull of it, and no doubt they will genff with a boom.

The varietiesuf Acacias (ln not seem to meet with that amount of attention to which their brants ardid somen torntitle then. Ahl of them prases. charming light-yellow or orange colored hooms,
ards, and not motilated or weakened by stand piached back. such subjects raiu new and unerprected beauties if they are merely pruned once, as soon as the blooming perind is over.

Wirterand speing blooming bulbs.
By the exercise of a little taste much pleasure can be durivel from the cultivation of bullo in the homse, as well as in the garden. In the home they can begrown in a variety of interest ing ways. Hyacinths, Nareisus, and frocus may easily be grown in glasses. Put culture hwever is more extensively used, beaides look ing quite natural. Of late we have heta growing lualbs in menc, eitler in potsur hoxes. The IVac Van Thal Tulips look splendidy when seremal milh are grown together. A vary plasine way is to take a fair sized basket, and flant a variety of bulbs in it, say a row of Crocus on the outCicle, next a row of Tulips, and the center phanted with me to three, or more. Hyacinths. The suil shond be sandy, and have a few lueces of to keep from bectming jacked or heary from frequent waterines.
bullon, when flowered in the house, slould be Kept in as montataly emolrom ats prosible. In a wam room they will hoom tho earls, and the Howers wall hot laint nearly so loun. They should be kept in sume spare rom, mot so frequently nsed, and consequently not kept so warm. (It must be rememine that the bulos must form trane ronts before eumine in flowers, otherwise they will mot expand well.) To have a sucmaion ot thowers, in varity of halls must be hanl, and they should aho be phated at intervals ay wry week from the begmongot September nitil the end of Xowember, even later planting will have attisfactory resulta, but of course the arliest phated ones will be the best.
Hyacinths and 'rocus will also grow freely in amost any uediom capable uf retainine misture. It is satd that they will bomm almost as well in samp an specially prepared and rich componts. Cases, deep satucers, shells, and wire hancing lavkets can be made use of for the phr pose, cither filled with mons, sand, or water, and succomon of panting finwers call he had from becember to Mav. One of the ehoapest manements we sars last pear was a lot of straw berry boxen, painted hrown (marely dipped in the fraint). In these Dyacioths, Tulips, and some han three Hra--inths others three 'tulipcand six Crocus, and Lyin, some had one ly adinth, two Tulipe, amd rus.
After thest bankets hal (own in the closet for abont is montla, a quan ticulur and other dromping plants were phanted with the bulbs, and by the time the latter were in blom the harkets Were covered with a which made them lomb which made them lonk
very pretty. Large, flat
 vers pretty. Large, flat
carthenware dishes may be conreniently alseredintor them with mose and water, and simply setting the hulbs on the top of the moss. Wire hanging baskets are capital, and if some ronts of Oxalis are stuck in the moss through the sides of the baskets they will bloom splembinly.

> A REMED For SAALA, res forman telly us that

Mr. Dreur's foreman telly us that he wses airsackel lime to destroy snails whenever there hamens to be any sign of them. He spreads it all weer the soil, even of the most delicate Odiantums, and says it does now injury to the plants whatever. hut destroys and keejs off suails ame wher pests

## Dioscorea Discolor.

Have you ever grown this heatiful climber? if not, try it, and you will lor pleased with it. It is a tuherous root, and requises a yearly rest, inut it can be srown as well in winter as in summer. The fulage is handsomely variegated, the under side being lark maroon.

## Tigridia Pavonia

We were surprisel to learn with what ease these emrinus Howers are grown and blommed. Ouly two months ago some bulhs were longht which hardly appeared to be of bloming size. Some were planted in the open gromnd, and mane strone growth. A few others were shome potted plants set in a large window box. These were in
homm on dugust 1st, havine reerived no nour i-hment except what they romble wet from the moss. We simply mention this rireamstamer to show what ean be done with them. The thow rs are very interesting, most of them heing of a wrate red.


## Late-Fioweming Single Tulips

Singl. Tulips for the garlen are cultivated more fur their individual beanty than for the etfice they produce in grompingur finetining. They are mull prized hy fanciers. In Iochlimi during the existence of the "Tulip mania," fabulm, privee were paid for bullo of this variety, an!
 for a siugle root.


Jonquils
Are greatly esteemed on accimint of their frat grance and early Howering. The cultivation is about the same as that of Ilyacinths. Three
routs may be grown in a four ur five-inth pot.


Scilidas
Comprise a numerous genus of hulbous planta, most of which are preferable for in-dour plantins They are all beautiful, and flower in the spring imleed, some bloom even before spring commences. They should he planted when the bulbs are at rest, that is early in the Autumn, in any good garden soil, not too heavy; and any little attention will be well repaid with plenty of flowers. Silla Siberica, of which we gise an
illustration, is a minute gem, of earliest Spring illustration, is a minnte gem, of earliest spring
flwers, with striking and peenliar shate of porcolain blue, which quite distinguishes it from other species. In mild localities it is perfectly harly. Seillit Peruviana is a noble plant where it is well grown. It mast have rather a warnt place tornwell, and deserves a good position in

## he greentouse

A writer in the Comity Genlleman describes
a ntw methoul for growing and forcing Hyacintlis $m$ roms. Procuring one of the large, coarse sponges wsed by coachmen, he mate several incisions in it, and placed the bulbs in them. The whole was then placed in a vase filled with water, and a thimbleful of rape seed was seattered over the surface whel covered it entirely with a fine moss mantle, adding greatly to its beanty and attractiveness. By using warm water they force readily and succeed admirably.

Growing Hyacinthe in Glasees.
This is by far the most satisfactury way of growing Hyacinths, if elcanliness and neatness is desirable, and one does not mind the expense of glasses, which cost from one dollar per dozen used they look especially pretty arranged on the
barlor winlow sill, where they serm to bu mat admired by persons passing by. There are at tew it $\cdot$ mo that must he attended to to be suceessful in growing llyathes this way. First, fon not use sprine water, when rain water can bu han we well Next, place the loulbs in the glases and till them with water, so that it barely tonches the botom of the bulhs, aml set them in at lark, man, dry laset or cellar, where the water will mot frema. bank at the lonlbs onee in a while to see that the Water haw mot evamorated tom moch, and if surh is the wase, fill the glaser upaghin, same as luefore. liemove any uf the swayed sombe. As shan an the elaces are well filloll with rowt they may he bargh finto a somewhat where the sum will atrike them, but as soon as the leaves hay, matu shme erowth, all the light and sunshime at commambay be siven them. Then turn the ghane armand oceasimally, to keep the srawth of the leares regular and well shaped. Some allwise to Change the water at least once every three work
We think this in only neeesary in case tho water getw an oflensive mell, amd this can be prevented to a certan extent by placing a piece of charemal in each glase. If you da change the water, ha sure to base the fresh water of abont the same twomerature that in which they hat leen browing. Shmald the ronte how any sign in


Single Hyartintif,
roots in clean water, and giwe the ghasses a gemel rinsing, gut the bulbshack withot beraking any of the roots, if fusible. A little ammonia, or at Howl pineh of guano, dismolved in the water, will help the grawth considerahly, and increase the brillianey of the flowers. If a large number of bulbs in to lse grown in clatsess, and the lattor are fombl too expenive, a number, , cherap, hut wide bottles, rould be nesal, and from thom the thowerine ronts may be removel int the handsome glasses as the first to homm fitele. To Genw IIYacheths in Pots
Not many directions are mecesary. The soil should bo: light and rich, suld as may he formed of two-year-old cow-dung, and two parts sandy loam. If eow-rluns cannot be had, then use some other manure, and rather a litte more of it A four-inch pot is large enough for one bull, and a six or sevellinch one will answer for three bulbs. At the bottom of the pot put a pricee of broken pot, and a few pieces of charcoal, and on the top of this some rough pieces of peat or turf loam, then fill the pots with the fine prepared soil to within a half an inch of the thp, plating the bulb in the centre (or at equal distance apart, if Gree), press them well into the soil, and fill ml ufficiently so that the crown of the londh is mily

M
WILD FLOWERS $\underset{\text { orr }}{\text { For Cult ivilan }}$
EDWARD CILLETTE, southwek, Munk
The FLORAL WORLD


## NIGHT-BLOOMING CEREUS.

our offer of this attractive plant in Juy has attracted so mumh interest that we renew it now. For difeent ing Cerent imb the Farm and Gadeni yent. or ing Ce rent ind de Farmand Gardan yertion

## BULBS!

 BULBS! ALSO SEEDS FOR FALL SOWINGAnd Plants for Winter Blooming

Price-liat Fir EE. A. E. SPALDING, aINSWORTH, IOWA.
lote phaced on a dry, level phare in the own atir and eovered with six or vight inchos of decaly leares, samb, or suil. Leave them there nitil the midnle or end of Octeher. Whent wated in full litum ly Thrintmas or the New Year, select the futs which are tull of roots and ling then Grabually to the light, as recommonded ahose. We will give further instructions an mands the treatmont of Jlyainthe in our futnre number.

- Cletere of Myidentils is beins.

An open, airy place, and at the same time if posible, sheltered from cold winds. A place where the sun shines the lomeest part of the day
 riebed with a few rpadeothl of manate will arow Hyacinths and Tulipswell. Dant from Fop tember onward, and do it on a dry day. Set int lines, say eight or ten inches apart, which will loave space emough to houe the woil if neces sary. The cromen of the bulbs showld ber foner inchas woder the soil, and it womlal b: wall to
the bed with a few inelses of laties, straw, - other light substance that can lne casilv removed when the phants begin to grow
Derble: Ifycintifs and Singie llyahintils.
lt is a wrong motion to sumpse that double Jlyacinths are handwomer than single. Ot murse, well-rrown doulle llyafinth are perfectly heautifil, but they are ly nomens wher rior to thersingle, whose enlors are mate diversified, and the tower spikes of which are more compact and larger: besides, they aro mone fanily grown, and therefore better anlaptal for he amateur.
We will memtion for the beacfit of those who we not acmuanterl wilh llyacinthe, that the colors include all the shates of red and hae, and a large number of various shades of white and yellow.

## Tilips.

Like the Ifyainth, the Tulip, will thrise in almost any suil ur situation. It is not desirable, however, to grow them in water, lat very sandy the sarelen mixed with hraenths, (rochs, show droms, etc., they are unrivalled; and for arowing in the honse in window-lnoxes, pets, or hanging basketo there are few things more beantiful.
The early dwarf Due You Thol Tulips are general farcorites, their very brilliant colors and early bhoming, alone, makes them on dexirable. If pianted early in sptember, as we recommented for Ifracinths, they may be had in homm arly in Irecember. They are to be recommended fur carly llowming ont of dows. With the varisus colora an idmirable affeet may be producel, cither planter in row or cirede, each of one colur or of the diflerent kinds mixed. The

## Eably Sinile TridPs

Ire fully as desirable as the alnese. Thry emhrape all the finest shades of porple, rimsen, searlet, rome, yellow, and white. The stripeel cones combine all the above colors and many more. Wecan recomond them highly, as they sncceed with every one. If planted in pats, use from one to tive lialts in each. For out-of-dows use plant in October and November, and even later, shoulil the weather be favorable. Set them abont four to six inches apart, and the crown of the hulb shoult be about four inches under the surface. Next we have the

Early Ioldele Tulips,
Which, although they may be grown surcess fully in pats, ire preferable for the fower garden Farrot Tulips are exceedingly singular and interonting, and their brilliant colors prodoce a striking effect in berls or masses.

HARDY PLANTS AND BILLBS.


## GAR Bare and EXAN MEXICAN IpLANTS: <br> 

nn ship afely the gear round. A thewer har every weawn and
 TROUPENURSERIES, TROUPE,TEXAS

## Foliage plants CREENHOUSE PLANTS, <br> BEDDINC PLANTS. <br> catalogie maired on upplication.

 DAVID FERGUSSON \& SONS.Ridge and Lehigh Avenues, Phitadelphia، Pa
 fen. Thay will he trimplai under font and int alke raike the surfore uf the yarl higher, thay aftird a high surtace when tha late rains saturate
that aromat. liy usine wemls for this phrpone they revirn a profit to the farmur fur hin hatur. hathefire banline ant sumb material it homle he which dostorys the werde.

## SCOURS FROM FEEDING MILK


 tents of the swill harrel, and thieknome with liratn.
It should then ferment hefore heines fied. The next thing torlos is to put some from rharenal in
 tial requintes of a fies, when it is fed und ate idnlows
 sumbance tor sthen purpme
mante al part of the diet.

## CROSSING NATIVE SHEEP.

Before the former detwrminusum his eross he mast
 ametan breenls. While a sumthome will usfoubtuill make an maprownment on the common
flacks in the quality of vorl, yet, such wom walt nuser the equal to the wool lirmbued by a cras
winh the Norimo, that those who breed to the Merimos mant low satisfivd with a som clipning ot woml and a fair quality of mutton. Thowe who contemplate raising early lambs, slantal take
 to get the best result fimmers must breed for it.

## THE YOUNG COLTS


 have teen tor




 bssemend hy the Paland (hims or fhevers Whery wre wha raisps stock wans anknowledget more realily than ohe shich in mot maturel.
 the large park panking cities as ant matat is mone in livor, ant realizes haghar price than iarser "areasmes, but maless the small hars ean be ared at an cunt eqgilivalent to the grondaction of we comanler that thes small lorkshire ame suflilk muture eurly, it at ance becomes apparent that they are mare uasily fattened. Whale the larate
 mand contribute follore and thane, through a proportion will alsa he devoted to fat, and in the
 ourfler to ewny re nearly sill its fiwd into Alehy bireen, ut the sithe time with a littere from a large
 permot, the eatil with he bearly tie athe
 mate than the uther, hat the difference will not lar very great. It the pigs are keft oner to that
smond year, the larger bleed will hemach more urofitable, bat far the firss year the profit will he the oreatest from the smalber hrembame this may he verified hy any farmer who will take the paing to keep an awcement of the erperases. Thas
 eor the hateher lome hefime the large breeds The complarioun in mot made as to whieh will
 arntic being that und deriven after dalmeting the





The oll iblat that the crutter is a cruss hetween the therwhuhtren : and commun atuck is a mistaken cond. All the recent winners and record makers hawe hald a prepumbramee of troting
 ture. It may have heen true in the pane een. tury, when the trotter wa first known, that theremghbred lhend was mixed in them, but they are now a distinct a raed, with their peenliar gait, as the thurmathirell or Arahian. We yontare to way that ita finty years from now the rotter will hosit thes time uit the rumang horse.

White Cbover.-This is an excellent pasture rash for cows ind theep, and a plece of ground Gonill be sended to it for a surecial reserve.


JERSEY RED PICS.





SOMETHING UNEXPECTED THOROUCHBRED SHEEP
OF TEM DIF TERENT BREES TO BE OVVIOEO AS PREMIUMS
AMONG THOSE GETEING UP THE LARGEST CLUBS FOR TUE NIT1ONM
WOOL-GROWERS' QUARTERLY,


NATIONAL WOJL GROWERS' QUARTERLY, PITTSEURG, Pa

## ๔he POULTRY Yard.

hatching chices every month
By P. H. Jucobs Hammonton, $\boldsymbol{N} J$
lthugld eustum lias comfined the hatching rhiks to the early suring munthe, thare is no
reaven why they may not be hatchel and raised with j, roctit the entire year. There is nort a month in the year that does not present alvantages :nd disadrantages, and the mant succesful persens often meet with hass whal unexperted, and success when the ohutacles seerim wreaten
September is an excellent tinge to begin haternwhell they are six weeks ald, But l, cause they can bee raised with less care. In sueh case the poultry raiser mast take into consideration the late that the best prices are not attainable untal after 'Christmas, ant the chicks must pase through the beqioning of winter The brailers that bring the highest prices are those that are fat, complitet, and nicely teathered, and when they firnt come intor market should weigh from one-half th threc. quarters of a prond. llow to raive elicks hatched in September, and yet manare to have them small enough for sale in January, is bes done by crossing a back-red same batam cock blomd gires vigor, the flesh is the hest of all table towls, and the bantamsize prevents rapid growth but allows of quick feathering and ase buther the weather becomes ton mid. As the charks will have made sufficient grow th durner the tall to enable them to withatame the winter, they will be ahle thent. moneh more than the chicks from stanclard fow in of the sam age. The same rule that applie
may hold goonl fur Oetober, but November demants a cross of a larger kind, for the chiok will not grow too fast after frost. We shombl cross the hens with a cock of a hardy breed, and One that feathere up well, such as the Plymom Rock (or Dominick, if the hens are large), lint a a oid such breeds as llamburss or Black Spanish as they are tom tenler for winter.
The first consuderation for the chicks is drynoss. The slightest dampness is worn than "oht, though wermeth is also absolntely pesontial. The breeder will find that him duty will be shovetime
snow, thawing drinking fomitains, and wecasion
 but after he hay attendell the them fathfully lo will be amply rewarded by the hish prive abtained. Chicks hatehed in November, Inemonber, and January, are buore readily sold at the chicks sell best at three-ipuarters of al $1^{\prime \prime \prime}$, and, and April batched chicks at a pound, the jurice averaging about fifty cents a chick, the halt pound selling at out dollar per pond, the threequarters at seventy-five cents per poumb, and pro rata.
Although the difficulties in winter may seem arduons, the frices are a remuneration, but the largest and easiest prefits are deriverl from chicks hatched in the spring months-Mareh, Ajril, and May, owing to the expenses being lighter in comparism, the chicks not being sulject to such extremes of heat and cold as during the winter and summer. The hest month for selliner is April, and the porrest, september and october. times may be manle apparent from the fact that the price seldom beemes less than twelve and one-half cents a promd, even in the dullest seasons, though adults often sell for whech leas, while the actual cost is about five cents 1 wr pound. The summer months are usually considered the most unfavorable for hatching young chicks, but the cause of failure may be attributed to lice, which rapilly multiply during warm weather, the mortality being greater than in winter or spring. This difficulty is easily obviated, however, by proper manasement, and as the increase of carcass is greatest during the first three months of a chick's existence, a fair profit may be realized even at low prices.

Toclassify each month, in a connensed form, in regrard to the advantages and disalvantages, we may state that in September chicks may be in Janatry at a fair profit, but the breeder must buy all the ford and expect to do hard work before they reach the market.

October enables the breeter to have the chicks feathered before the cold season sets in, and they may be sold with those hatched in September.
November chicks will lring good prices ahout the beginning of Fehruary, but they demand the closest supervision, and unceasing eare.

December chicks come at a time when they must not be allowed to roam at will, for the cold,
if allowed to ingure them, brinss on ronp, and
thes aratually drap onf. With plenty of warnath and cunlight, howevar, they may be carred tor wart with but little lens.
Janary chick are thase that prombon that early bullets for whiter lavine but they mase ha It is the extrat eare requmed that makes them allualme.
Lont damary and Fehmary are the month for rasing the April market chicos; the hes
 feathering. . Wll chiefs raised in the winter
monthe urew fanter the ereater the propurtion of monthe grew taser the greater the proportiont of
artiticial horat supplied?
darelo chanks get the bentat of the first growth of resetation in wam samy seotums and a
 rapilly and come into markiot with ureater attran thons, uwing to the ency maturity of the lees. Alas, when abont one pound each on weticht,
lupil aml May are twimmothe, the comditions rina hearly the same
a sreater viriens, and ean berintofmare. They reath the markict about the midnte of Junce and first of July, up tow which the the pricer will he from fiftr cent- damn to twenty -hve rent fur puand fortwornd
Jume, July, and Aurust are combiternd unfor rable monthe, for ranals- tated almbe, yot in prenartion to the cont of pendaction leatimat
 quite a larese mon it rishty motued, the prime ble obstade ac mentimad, bring lace
In attemphase toilluatrate that hatching chath may be made proditable at all wanne, it should be ebmidered that while the prome are areateo for those rained lurine the winter that tran-par tation to market, cheanlinos, and treedom from the vermin in smmaner the lowest preves ar apparenty more than they seam th le if "1 allow due impratane to the value of quider Suwth, smaller amont of fond consuman, and
 womla otherwion wastom. dinwe all thing aive striet attentom to the merits of the brown.
 there suscextions are foblowed the chances of thece will be larsedy inceramed.

## moulting in the fall.

As the hon hegins to molt, the numbre of "aces secned become lese than previonsly, hat as all the hens do not usually monlt at the sinse time, a that more esers will be abtained than dursug mome of the winter montla. Wre winh to give a few upecial hints on our readurs in regard to the moulting hens, as many miatakes occur by not taking advantage of natural roults.
As som as a hen besina tu moult she st"ps laying (though there are sometimes "xceptions), and she is sent to market. If we will lout calculate that it requires three monthe sluring which time to complete the moulting prowes, it is plain that the han that begins now will finish about the first of Decrmber. being then in fall plumase, and her troubles over, she is prepared to mences to lu on the approach of winter she will continue to do so until spriner, and will return a large resenue owing to the high priees then obtaned for eggs, and will also be among the first to sit in the spring, when it is desirable that the early broods be hatehed, mark the fact then, that instead of seuding her to market that it will pay to keep her as a winter layer. But the moulting hens are made to give place to the early pullets, and we emonder such a conses injurions, as jullets aften begin to liny before they are fully matured, aml a repetition of the process
 arly momlted heno hateh boct, and the hons are Wertarters and wore reliah than the jullets. Whan they puatjum the shed ling of feathers after


 but they mbtimue to gron until ciser a sar old to a certain extunt. The hreater mat hatulets

 owashmal stimulant of a little red pelprer amd timeture of iron. The olgect, hombl lee to get bom to market If suml, strule well-urown
 Se way of selling the cock, and yot it is adsisable tin hepe it cock that has froved himselt

## THE BROOM IN THE POULTRY HOUSE

It is a divarreable task at all times to elear wh the poultry houses and comp, lat, like wery Whe undertaking, mueb depands on the aratem mamer in wheh the wark is performed. We have seen persons lablar hard all day, in the milat of filld, with shovel and lose, claming th Moultry bonse, aml when the jow wan finished but ittle alpenarace of cleanlinene was addel to it There ju ath may, neat, effectmal way of cleaning the fundry boune, which, if adnpted, removes a Heamure instedil of an anmoynm. The first eonatiation jo the constrnethon of the flome lry dirt will mot answer, for the frasm that a abmors the impmrities, and tha filth can maly be remored with the dirt, thas antaling the neces oty of changing the entire flow and substitating fred materall. We have fomme the ure of the hrown to be the elameat, eaniest, and hant mothod if remorine the droly inge, but in order to da so tha flow most he harel. Woond is the best mater hal, hat a womben flow is hathe to beconite a har bringe place for rate, maless it is well ehned andernesth, or raised sulficlenty y allon of a this is done the cold air comes upinto the peoltry unase ins winter, and makes the woulon How whectimable. ('inment is better, for it ane only prevents vermin from entering, hat also the is to takn 1 harrel of lime, 2 of mand, 1 of tim sravel, 1 bubel of coments, and two galloms liguid coal tirr. Nix the engredients dry, there mhd water, and spreal evenly on a hard surfare which has been sarabed. The cond tar may be brught to a proper consistenc with chal ail.
lt keeps away lide, abd colors the cement. Let the flow remain andisturbed for twenty-fons lowar, and and another conating in order to stop) the cracks.
Toclean such a flow first dust it well with dry earth, plaster, on mimit. A mixture of road dirt amd plaster, equal parts, is beat. Dust it over ewry portion of the flowr, and dust it over the walls and in the nents. Three times a week take a brom und sweep the flom, lusting again after weeping, and it will be suppring to botice how nicely and ensily a poultry honse may be cleaned hut in a few minntes. Aunther alvantage is also sechrent, which is, that the droppings will need no prepration for ]reservation, as it will only be neeresary to put them in an old flour harrel and keep the barrel under enser. Such a methot gives the lice hut kittle chance for secharing posoron, and no disagreetble odor is at any the manifestel, while the work can be done much better than with the, shovel, spade, or hoe.

## the influence of climate.

If poultry raisers wonld take into consideration mfluence of the chmate of the sechons in which they are focated, they would secure mich ( c matimuerl on page 16 )

FOR SALE ${ }^{3}$ Bull bloged, ingit comb Brown $\mathrm{L}, \mathrm{g}$ FOR POUKTRYMEN caru for, ferch and be a "successiul eases of olit or fooog. and havg hens to lay egRs, 25 cts. instannps,
and a Fify Page Book "Iree lor
all with lt.


## ๔HE 万OUSEHOLD.

## WOREING DRESS FOR WOMEN

The enotraint of limbs, and its heary weight are the phirf ohjeetims to womans' dress. The weight drare on the waist and provents we free usenines, bread makines, bed making, and homse eleaning. In these cocepations the arms are constantly extenled, so that a land aronnd the wain hinders their fre play. If womans drese wore always made without this emostiction, there would be fir homelisedse and distres amon them: therfore, in anding dress il in one, the under wift he attiched to a loosely-fitting homy and the drens be ent like a princese drese, of wrapper, extending from the shonder down. by suwing strines twolw inches apart and oni mader the other, at pacos aroumb the dras. Let the underskirt be arransed in the same way, or the outside skirt can lee short, and an extra ont of the usual length can le mave to wij, orer the other if it is necessary to stop work in haste, ar to appear lofore visitios.
Now if any woman not used to surh a dress will try it, she will nover be likity to use the old kind white workins. She will trel modraw ing hack at every attempt to move forward, ant
the faticuo in eonsequence will bo lessened to a the fatigur in eonsequence will helessened to a
great duree. Still hetter, for honse cheanine and wabhing, is it to have the dress male as shat as a bathing or Blowner costume. In rarryins water, cleaning windows, or thomes, all the "wnsrevience of suth a dress may he prerceived. We knew of two laties who aropted this thess for houserlanine times, and whosad, mophationaly that it lessened one half the fatiguc unally experienced.
Wroman needs to learn eeonomy in motion, which man understands by the study of maehinery. Gow plaming helpe wonlerfully, as well as methon, and thoush some may work with apparenty more rapidity by heedle ways wat it will le fomm, in the long run there is nu that fone hy methon. We have oftem noted this, and one deliberate woman we knew, whone work was alwats dune on time, was the womer of the househnd, until it was found that she "made every stome tell."

Young girls are especially benffited ly a loose fitting dress, as it allows mot only fres action, lout free growth. IIow, an auy miother, feeline true interest in her rhildren, allow than to bo cramped in tight-fitting or outerown chothes, when their health, nay their very life in shm instanees, ilepends, on free exereise. This is well known where there are emsnmptive temdencies, in the family. We have known of such whose lives were prolonged by allowing free excreise in the open air, and all children with such tondencies, should seek outdour employment for a livelibuol.

The shoes enter largely into the comfort of labor. They shomld fit neatly, and be kept nicely mended, as walking aromul in a loose, or trodilen-down shoe tires the foot twice arer, and especially should they have a large tit heel, su that in standing the borly bekept in equilibrium and not tilted from side to site, to calls- 1 rainend ankles, or raised unnaturally on the heels, th bring on prolapsis, nut to say anything of the crop of eorns and bunions prombed; for hunions. are the result of either high heels, which throw the weiglat on the big toc juint, of of shes ton short, which cramp them in a similar way. Chililren arquire them in this way. Shoes with elastic sides, called congress boots, are the best for walking or standine, and though they cont it little more at the outset, they make it up in supurior wear. For shut or busy pepple the Congress bouts are math to be preferred, as they cequire un butwnine or lacing, abol are put on as easily as a man's hoot. Those who are obliget to stand monh, will time that ashoe mabe one size too large for them, will give them grat comfort and prevent enms and bumions; for the font expands ly standines, and requires the extra room stores, who tried large shoes, and lroad heels, after suffering turtures with their urlinary fit of shoes, besifles enduring an aceumnlation of eorns, and inome case banions. The result was fexcellent.

Garturs are best phaced above the knew, as that they do not constrain tine muscles just under the knee. Thus placed they sive more comfort than garters attached to the waist, for these pull the foot back at every step, anl tu little children must prove injurious, as they impede free motion, as any one will find by tryiug the garter attached in this way.
thurt dresses for the street have been the fashion for some time, and one would think the gornl sense, for which most American women are monel, would kerp them so; hut fashions must (hange, or the designers of them think they mast, and ut they are beine somewhat lengthened asain, let all women protest, both for health and eomvenience. The eomatat propelling of the hress be the foot is as fatiguing as the walking that is Jine. By wath hins, any one can detect the labor it rempres to carry and push forward womans

Bleavy dralueries should be avoided for thin reasom alone. There is no real grace to he had when the lumly is eonstrained by the tress the shouldor, pu-hed upward and ontward matil the are akiman if thin, pesent their worst appearance, ahded to this a walde, proluced by at tight waist, or a narrow skirt kickerl furwarl until all its ruftles are in a whirl pond, and you have the groep of a tioht-titting ires. To have arfof we must have titsf; casy motion is genarally sratofal. Let us abo add the orame of religions duty to mar ideas of heath and dros, and we need tear un relapse into talse fanhions and form

Roven Shothofers. - Suapeld two ropes with ring handles from a dowrway and swing ly the arme thro minates at a time three times day. This will cure romal shoulders within thrie monthe. 2. Remowe both bolster and billow from their manal plite moler the head when une is nlecpug, and have one or hoth phatell undre the shombar hades. This bring the hearl at little below the level of the doral region, and anver the spme in direct reversal to the cormo of the round shmulders, and as during slach, relanation of the spint ensues, the posterior cpinal mochos arn permitted to recoser some of the contraptibility they lose during the day if praner unpurts le not worn. During the day let the pationt recline upon the front of the body, lyine at full length, as children da, and resting ain the elhows. Thi favorite position with childron should be emourated, as if stanlity praetieed it is a sure prevention of deformity. This lowithon in mo of the gruatest
risol develoment in chiliton.

Peopla larn wixdon by experience. A man never wake up his steond haby to see it laugh.

## THE FARM AND GARDEN RECIPES.

Tocheaf Ihancherry Wine.-Add a eup of milk to each cathon (after abl ferment

Givger Rebedr.-Two and a half cups of molisets, 1 of brown suratr, 1 of some milk, 1 of larl, 2 tahlesponfuls of ginger, 2 of soma, 3 quarts of flour.

I'E (rfam. - One gallon of fresh milk, yolks of 4 egse (well beaten), with a that enp of sugar, add to the milk, amd swerten and season to the tante, and fromb. It richor rream is desired, put a quart of eream and 3 of milk.

Gheer Coks Pudding.-Twelve ears of earn grated, or push the grater down each row and 4.rape out the kernel. 1 quart of sweet milk, fuarter of a pound of butter, 4 eggs (well braten), pepper and salt to taste, mix well, and hak" in :a butered dish.
Sweet Tomato Pickle.-Slice and bril wenty to twenty-five mintutes in stroog gioger tea. Measure the tomatoes of the stewing. To very two measures put one of sugar: cloves allspice and maee to yonr
vinegar and boil until clear.

Croqeets.-Boil a ehicken until tender, take out the bones and ehop fine, take some of the liquor it was boiled in, a piece of butter size of an egg, some flour, black pepper and a little onions, then add the chicken and put away until eold make in cakes, dip in teg with bread crumbs and fry brown

Cookies.-One cup of butter, 2 of suyar, 5 nt flowr, 3 egrs heaten light, b teavoonfuls of milk, with a small spoonful of sod:a dissolyed in it ; stir the butter and sugar together until iight; add the eger and a little cinnamon and nutmeg, then the milk, last the fonr; roll out, cut in round cakes, and bake in a quick oven.

Lemon Jeldy Cake.-One and a half eup of :ugar, half a eup of hutter, beat to a cream ; lalf cul milk, 2l eup of tour, 2 teasponofule baking puwder, 3 erge well heaten; bake in sheets or in jelly tins. Jetly-One cup of sugar, 1 egg; grate the yellow riad ind use with the juice ot 1 lemon, tablesponful of water, 1 teasponful of flour. Place the dish in a ketcle of hoiline wither and lat it thicken; when cool, spread between the

Bakencodpisin- - Piek up the fish and freshen litele as for cowking, then ioto at dinh put a layer of cracker arumbs, then one of fish, over sieh layer sprinkle pryper and butter, continue intil for have two layers of fish and three of crackers; lastly, beat two egrs with milk enourh to eover the whole. Bake about threc-quarters of authour.
Cabbage salad.-Chop one large cabbage Cry tine; put into dish in layers, with pepper and salt between. Take two teaspomituls of but er, two of sugar, two of flomer, two of mastird, one egg, and small tequpful of vinegar. Stir
all in sameman and let come to a boil. Pour all in samedran and let come to a boil. Pour cool is ready for use.

MCffins.-Three pints of flour, 3 eges, 1 pint of sweet mink, made into a hatter as stifl as yon ean stir well with a spern, add two tablepoonfuls of wast ind half one of salt, set to rise, in the in the morning stir in a tablewoonful of lare or hutter (melt it) and a teasponful of swia. Bake in a quirk oven. They are very nice on a gridde it you have no ring.
Coffee Cakfe-Three pges, will beaten, two cope uf hrown suqar, one cup of butter, one culp of milk, one teaspuntal of sodn, two thaspon fuls af "ream of tartar, work this to a stiff dough, and roll cutt to about half an inch in thickness ift eromme cinnamm ower evenly, then roll up like jully eakn, cut slices about halt an inch thick from the roll, Arop into granulated sugar, and bake thoroughly with sugared side up.

Cottage Puffs.- - ne cup milk and the same of cram: 4 tegs beaten stifl, and the yolks stramed; 1 tablesponful butter "hopped into the thur; a very little. sald ; enongh prepared flour for thick batter. Nix the beaten yolks with the milk anl eream; then the salts and whites, lastly the flowr. Bake in louttered iron pans, yuick. Turn out and eat with sweet sauce.

Te, Biscyit.-One quart flour, 1 teaspoonful salt, ont half tempmontin sugar, el teaspoonfuls Rayal haking luwder, 1 table poonful lard, 1 pint wilk. Sift togethar four, salt, sugar, ant powder; rob in lard cold, add milk, form into out doush, roll sut to thiekness of three-quarter inch, cht with small romen cutter; lay themelose together on grased hakiug tin; bake in a good hot oven twenty minutes.

Cecumber Catscr.-Thee dozen full-grown eucuobers, $s$ oninns, peel and chop as fine as passible (some prefir grating, but I do not), eprinkle 1 will of salt over, put them on a seive and let shem drip eight hours (or all night if fixed in the afternoon), 1 teacup of white mnstard setel, half cup groum black peppor, a little gratel horseralioh, mix well and cover with strong vinegar, clow tightly and it ean be used in three days. If proferred, the horseradish ean be left out.
Lemon Meringer PCdding.-One quart milk cups brond crumbs, 4 eggs, 1 culp white sugar dand lemon, juice and rind grated; soak the bread in the milk, ald the berateo yolks with the arar rubto a cream, also the lemion. Bake in butcrecl dish until firm and slightly brown Draw to the oven and eover with a meringue o the whites whipped to a froth, with three table poonfuls of powderet sugar and a little lemon niee. Brown slightly; sift powdered sugar ovel it and eat eold.

Exceilent ICing, -To one poand of granulated sugar, put two wineghasses of water, let it stand until well saturated, put in a kettle over a sow fire and let it simmer until a thiek syrup, tirring it all the while. Have ready the white of two cergs well beaten. Pour nut the syrup and let it coml enough not to eook the egis, then beat in the eggs and beat until enol. We partieular not to let the surar get too emol. Strison to taste with lemon. This will iee it large eake, and thin as it is put on.
Dhien Apple Fruit Cake.-One packed pint of apples put io soak at night, in morning ehon fin, put them in a brass or porcelan kettle, with 1 cup Yew Orleans molasses, 1 of hrown sugar, 1 greted nutmeg, 1 teasponful of ground mace, 6 cloves, and one-third of an orange peel, broken small. Cook rapidly until very stiff, stirring eonstantly. Let this stand twenty four hours, then make eake:-Four eges, 1 teaspoonful soma, and 2 of erean tartar, 3 cups of sugar, 1 of sweet milk, 1 teasponful of mace, and heapug guart of flour sift soda and eream tartar in the tour. Mix well and bake as for other fruit cake; slowly for two and a half hours.

## ODDS AND ENDS

## SKetches of china and Japan

## Aeticle $1 I$

The Enropean settlement at the foot of a rosky Tant called Kaheling is the phace where the dine. The range of rocks are intersected by val rions ravines, which are weth as pathe for the inhabitants in traweline trom phace to plawe A momber of Missionaries' homes are located hert In 1at2 European* first cant to the neighbarhomi
 ment on Double liand, which now is the home
of the pilots. In 1 wifo swatom was declarend open to the Americans and English, and a year bater the matives allow on them tulive in the eity

Sheribay, about form miles from Nagasiki dapan, is the plare where, in the sevmenth century, about 37 , (tho) Cbristians were exturminated by uriler of the raler of the place, mas Tateo Sama. Almut bor yeare aro thmsatmo of men, women, and children were massalded by the pike's point, and erushed to death
rocks heneath, because thoy would not trample on the eross of the Kaviour. The island of Pappenburg is about onf mile in e
 font upon the islamel, and sume but the Dutch were allowed to trade in the conntry
It is said that when the Moteh asken Taier Sama, the stern ruler, after the lmprial edict was issued forbidding any but nativen of the conntry to remain on Japanese sail, what the shape and situation of the ground should be that was to be given to the butel merchames be eontemptumasly flung out his tan. They tonk this for granted that he intimated that it shalal be that shape, atm sw on an artificial islanh, eonnected with the shore by a brider, and watehom by an insolent guard who prevented all emmmanication with the neighborhom, expepting in rare casea, and at an exorhitant expense to the merchants, they-the lutelt-built what is now called "Dessima," satd islam lowing of fan shate. bessima is now a creat phace for fapan ericket. ing. The houses are of the Duteli style of architecture.

I herewith make some interesting extrants from the private diaries of the late Dr. samuel P. Boyer, U. S. surqeon, which I have in my possession:Shanthai - November, kop, wr anchorela al day, Mr. Wilson and myself took a drive around town, and had a lively time. We irove orer several natives who were either tom lizy, matiferent, or deaf from smoking ophom to hear ns yelled like the "( 1 h II Iarry"

The streets are crowided all the time. All women have small feet, except conlie women, who have quite large, inferior extremities. The unformed bones of the infant's feet, at a very early age, have to be broken, and the toes are then bent beneath the soles of the feet; in this
way the feet are banlaged and not allowed th grisw, the consequencen are very small feet, but hure, nowielding ankles, and no calfs. The phio must be great, jumerne from the alteration told, often kills the infant, yet mothers pride themselves in their own feet, and subject their affipring to the same treatment. In order to walk, some of these buaties are comprelled to totter with the help of a stick, which, with i white powder used to blanch their comntenamery called forth the fillowing verse from an inspired Griental poet:

Pale as rjee-
(iraceful as a hamboo?'
Every now and then one meets a wheelharrow with two seats on each side of the wheel, orchpied by the ladiss, and propelled by a coolie. expense; twenty-five eent for ten miles is a fair price. Chinese woman have very little express-bon-all look alike; when you see one you have seen them all. I prefer a Japanese woman. Chinese women are fond of opiom, and they love to luxuriate in filto.

The streets of Shanghai are narrow and very dirty. The cost of living among the inhabitants averages from si.51 to $<2.50$. The deal are buried anywhere-abong the wayside, in the yard, or any open fell.
In a popular Chinese melital work I found catalogue of 1012 medicines, of which there are from metals and stones, 133 kimls, grasses and ceretables (including ronts, leaves, flowers and
seeds) 313 kinds, trese 117 , from the human body 20 kinds, from animals $!1$ kinds, from fowls and hrrs, 34 kinks, for m hase, woms, nakes, shedifish, turthes, flem, de, 99 kimh, fruits 40 kinds, of the "tive erains" 3 s kimhe, of the cablatue turnip, and melon fumilien, tié kims. 'hinese Irugerist in thin eity clatm to have as high as 1040 of these varicties of medieines apm their helves.
d portion of the modicines taken from the hament boty are as folluws:- Hair (but tine, and ard in platers), carly hair, damlruf, teeth
 nainchreduced to ashen (reduced to anhes, beard of the upper tip, bloon, the sath, de.; all thas medicine rom the haman bolly in procured from the deat hondics ot fedms, who have not bean clamed by friends. In this connection I might also say that the dead londies of very voung ehildren are often simply sewed in mation and tomed ints the buasbs of trees, or exposed on the surface of the earth, amone the tombs, for legs and voltures th feast upno. The largest part of the metheme ased by chinere physicians, and suld by the Aruggists, consist pribeipally of vegetable sub tances. It is hard to say whether the Chinese melieal system is allopathic or homempathic ; it secms mixel.

## THE FLOWER MISSIONARY.

There livel in a thriving, new western town a toiling, moblehearted woman who manased, in the midst of har bucy life, to become a real benefactur to the commonity in which she lived. A devoted bover of flowers, she always fomd - pare minutes in which to collivate the chnicest thul sweetest she could obtain. It serms wonderfill bow well plants thrive for their real lover It reens as if there was a magie in the thuch of a lovine hand that was gonl for fowers ats welt as fir the little human plants.
This and house-mother rejoced to share her treasures with those who hall nome. Far and narar were hitte domway buwers whieh she had instisated, cosereal with harly flimbers, which gave an air of taste to evell a cathin home. Scarcely a home sut but what hal its flower border blommine from early sprine until the frosts. came, and it was largely throngh her inthence and holp that the desert so"rejoited and blossomed like the rowo." In ton many bew settle ments the time is so absorbed in the hard tur for every lay wants that litte attention at first is given to matters of mere taste. But this gomb woman-missinary felt that the eulture of these sweet gifts ut cial would be a rest to many a weary woman, amblitt her heart out of the dall found of wearisome cares, she knew, too, that their presence would exert a refinine, softening intluemes on the chilimen of the homsebobl, and that a lave for flowers wobld, in a measure, counteract many allurements not so safe aml healthgiving.
has lones since passerl away, hut her gurn? work lives in many beautifien homes; in many hearts which her influence blessed. Quiet and unobtrusive as hor work seemed; simple as were her littie rifts of a bush or a flower pant, with the needed directions for their culture, it was not unnoticed by llim who metes exen the "cup of cold water." 11.r spirit was akin to that of the Id cardener who rather than see his beyutiful Howers and shrubbery wasted when they multiplied toomeh for his grounds, woukl plint them in waste, wayside places where the might de-
licht sme eve or be taken home by some one who could appreciate them.
Four gitt of a rose bush or a clump of pansies to a poor child maly be worth much more to him, in the final results, than a gift in money

ORIGIN OF THE " bONES.
The history of music plainly shows that the derments of inusical art were in a manner sys tematized trom the very earliest ages of mankind.
The Chinese have records of one of their Emper-
ors whon fixed the twelvellegrees of the chrmatio ate, at the wakeand-rall-menarly periond Fon B. C. The potentate inguesthon, was namen monts, impurements ument which have morriathe firtnome of many an binerupulons ievader of Chinese pattents an thes thur tima
Amone his instruments were of curce the Gones, which, when rattled by fond Ili, gate firth celestial harmong. His mone were a perularly
 hese degentate dages. Tha lownes ont thatambard af mational taste in Amorica tarlaty, was never more dintinetly shown than in the utier inlifferance of the average anlitor as to what a minserf's boles are male of so that they rattle
lusily. Fon lli with that nicety ut taste jnvari-
 by the oriental peopl", alwas insinted upna having his hones manle of the risht shank ut infants of crom ancostry, surially masacted in the neatest was, fon the jurpona of mamfarture The bone we the time intrument Fon Hi in vented, but hiv, renia- soon towk a wider flight and he sropped thom the athother, namely, the lyre. The inheritance of hones as an masal matrment, boft by Fou Ih, wis barefuliy chero inhed by the (irecks. It was yaried in form by them, ind wallen the "platigi," a word whith signifisw "clapping," and was principally used with ether intmment to mark the time fin mancers. Histead of two bones holl tugether hetween the fingers and rattled, the Creek phatagi was formed of a lome hit ot light womb, whit up part of its lencth, the whorer piree hung on lomety at the middle, abd the upper elol wring an a handle is which the performer could rattle it eomreniently.

## EASTERN BRIDAL DRESS.

The weddines dress is even more a matter af impurtane with an eaturn bride than with us. The preparation of her thilet, in the preseme of make fients, often wecupres a harg hays. The costuntes are often rich and gorgeniti an oriental milliner, quotes hy br. Van Lennep, preseribes the characteristies of an ideal wething dress. It should measme six yarls from the shoulters to the ent of the train; the long sleeves should sweep the flow ; the material is silk; it is elaborately emboidered by a party of profes. ional embroiderers moller the direction of a hief. The sum faid fir stherintembing the needle work on a single rube was 500 , whate the the eharge for the work done bye the subardinates was s. 516 , and the entire cont of the dress was so, (On), nor must it be forgoten that lator in that equntry is very much less expensive than in this.

## LATOUT d AUVERGER.

At Carhaix, in Brittany, is a bronze statue of Latout (' Ausergue, by Marochetti. His real name was Theophile Maloret, he was born here, and died at the battle of Newburg, in 1:00. Auserque was a brave conscientions soldier, whose merits often made him a fit subject for promotion, which, however, he steadily refused, orefering to serve his comitry in the rank in which he had enlisted. In consequence he recejved the title of" the first Grenadier of France, and to homor his memory, after his death, his place was always retained in his chosen regiment, and at regimental rull-eall his name was always the first callem, and the reply was as uniformly, "dead on the field at homor."
The best melons in the world grow in Persia.
Cresar threw a pile and trestle bridge across the Rhine in ten days.

Elm piles driven by the komans at Lonton, werein cood order when removed to build the abutments of London Bridge in 1829.

He who builp th in the street
Many maters hath th meer,

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## Cdimorial gomment.

By a special arrangement with the pmblishers
ot the Home and Farm we are emabled to wher it with THE FARM AND GAEDEN for the low pric.


Sopember. The growiner season is now nearly over, lout bur work is mot. llours of storly, of intelligent thinking over the probloms of atriculturts, anl pearls of sweat were the price which We hal to pay firr anecess in the producing part of our hasioses, amd it were folly to expert that the preservation and safe kerpious of the cropm. once grown, could be whatamed as atere gift, and withont effort, care, aml perseveramo on our part. As long as the crups are in the farmer's hasho they are like water in a suce.

Wrondehncks (Gbonnd logst tat up the still standing or shocked corn in the fiehl, rats, miee, and whther vermm make bavose in your grain mows and granaries, rain water leaks through your stacks, early frost threatens to damate your corn and garelen vegetables, all these and many other thinere clam a large bercerntage of yonrarops and shonkl receive vour cardeflensideration.
llay is not sorery plentr, and the farmer will do well to save all his forliler in the best possible shape. Cut your eorn as stront as orn ready to ghaze, rather than wait until the crap is deal ripe. Get ready for "Jack Frost" as quickly as possible. Fon koww he hardly ever
defers his risits, at least in the Northern states, until Oetober. Be ready so you can receive him smilingly.

Recogniziog that your erops generally lose in value every day that they are unsolal on vour hanils, let it be your first aim to convert them intoniwe crisp ereenbacks at your carliest oppurtuaity; sell when a fair price is uftering. lay your llebe at once, so make everybudy arounis you happy, and do not forget to speod a part of Four surplas in improving yuur farm and home. Rememter your hard-working wife, and the necessity of making home attractice for your children.

In order to know how proftable the farm is, it is necessary to kinow what it costs to raise every bushed of wheat, corn, oats, or other produce pounds of feed it takes to fatten the stock for market. It he knows what it costs him to raise every bushel of feed, and then knows how much he has fel, and knowing what the stock cost him before he conmmenced to feed or fatten, amal he knows what he has received; he can then tell how much he has made. rou say it is some tronble. So it is: but it is some trouble to do business in a business-like way, the best we ean do
The manufacturer knows how much iron and what it costc, huw much wood and what it costs, how mueh pant and what it eosts, and how mueh labor and what it costs for every wagon or farm implement that le makes. If he did not hew wonld be viuertain as to what price he should ask and how mach profit he is making.
The successfil merehant knows what every artiole he keeps to sell eosts him; he knows the ans sut of freiont it costs him to bring it to the store ; he knows what his expenses for elerk hirse for insmranow, anl bow nuel to allow for shriskage, and when he sells he knows just how mu:h profit he has made. At the present time a
manufactaring or mercantile hominess carriel on atter any whir phan woulil break uf the richest lamaness men.
an farmers who are wicle awake and who farm not only tor filtasure bont tor protit, afforil (t) follnw any other plan? A carebase tiarmar whofame on a small acile, and whoraimes all he wants t" eat and wear abal who is net ohlistal ta knosy whether lae is makinu anything more than a living or mot, as that is all he expect- to matke, is graterally satistiel. whether his living is Eromid or bad. But the farmer who wants to make all he wan; who most know what pays him beest munt know what thines cost lefore he can expect to know anothine almont the protits
The different loranches of farmines, as now carried on suceessfully, require as moneh entery and business tact as any other line of busmens, amd in orter tomatie a success, as should be doue, a knowledre at what it costs to raise alifferent erops is rery estutial. To each farmer this must, to a eomsiblerable extent, be a separate matter. One farmere "an with his soil and implements at one price, while andher with different soil and treatment the cost would be greater or less as the case anay be, so that tach firmere must keen a correct aucount, and know for himaself just what it coost. him to raise the different prombets of the farm, atml the bent and mont protitable manner of dismosing uf them.
gonul rutation. Southern farmers grow the reature part of their what on corn stabor. As sumn an the curn is tit to cut, strips six or eleht rusw wide are cut through the firlat at alistane of about sixty feet from each other. These are antirnly eleared from the stalks, thorowohly har rowerl, and drilled in wheat. The whole crot is then shookted upon theses stripes, ami ther rest of the tied preparerl and sown in a like manner an) ur arm pomens of phosphate are usoally Pplital jer acre.
fremmond this practice to farmers in all time. Theres corn ripens before wheat sotwinh ime. The renural ot the corn erops apo in har vesting, bot think of the tasy preparation ot
 ronderenl $x$ lean in consequence of the deetruetion of the weats in autumn. Where torn dows not mature mueh before (betoher, good results wild follow the practices of harrowing and suwine to ye which shombl be done just as some as the Prop can be remosed from the ficlal. Treat protate fielils thu mane way. Fye may be utilized ju Farions ways, and grown for the hay amd straw for arly pasture, wr for erecti manuring, and i a most protitahle (croppint way.

Digeing potatoes hy hand we consider to be about as harel and tedions labor as there is cons. nected with tha firm. We should rejoice in finding aliscer that will do the work well on all sints of mals. Fur well cultivated, melluw suils free from stomes and weets, whert hand-digetin is comparatively easy, we might qut along without the implements, aml where wanted most for stifl, stony, and weedy, or rough lanul, thet ligger is a talilure.

If son can cet a fair price for jour potato crop at digging time, sell them dirmoly from the ficld. The potatoes then are summ am heay y, and the adrised methon avoids all loss and much hamding over. At this writing we ex
lope for a fair crop and baying prices.
Men who are looked uing ant
uch mattera looked npon as anthorities in fen matters are sometimes guilty of thoughtlens remarks, whieh, heing taken as genuine truth, often work mischief. la early spring, when potatoes coulal hardly find a market at any price, Or. Iloskins intlicted upon the rearlers of the Rural Neu" Forker the statement that "the farner conld not afforl to sell them off the farm fur less than forty eents, and at little profit at that, all things consinered." The dretor prohably knows that the tuber eontans from 2 to 2.0 per centum of albumen, and from 16 to 23 of stareh, varying accordiug to quality, a total of 18 to 25.5 per centum, while corn has 13.65 per centum albumen, and 77.74 stareh, ete., or 81.39 ponnls of sol:d nutriments in every loo pounds. When eorn is worth 60 cents a bishel, all the nutriment contained in 60 pounds of putatoes varies in value but from 12 to 15 cents.
While we admit that the digestive machinery of fam stock utilizes a larger preentage of the nutritive snlids in sucenlents than in concentrated foods, yet we cannot put the average feed ingr valne of one bushel of protatos at much, if any, ahove 15 cents. We wonlal sooner sell our potatoes for 20 cents, if we could not get more, han our corn for 60 cents fuer 60 ponnis, and where farmers grow potatoes largely, more than
ther can ferd, it is loter to sull them at some price rather than have them spinil un theit

 ame with the appleation of s.e. worth ot special potato fertilizer, atgonl firmer shomlal not raine
 cents a hoshel, will pay twr all the lalar and
 leave a net protit of sit an atere. What other erop could do that, one year with another?

The FARM AND Gafibex has very decioled Tiews on polities, and is mot afraid to express them. It holds that the tarmer should not beloner to pritical rings, nor to the wire-pulling frater nity in general, nor ruo his legs off and negleet his work for the nomination to any nftice. Yet, farmors should organize, always be present at their party eameus, break down the corrupt rings, and try to mominate worthy eandidates; alsor, other thines loeingemual, they shouk give a good, abatamtial tamer the preference. The luestanen in the emmonaity gencrally gos to the polls to cat the mess that roguts have cooked up for them.
ln presillential campaigns it has berome the hahit of the party madinists to supply the enthasiason thare may be backing thrnugh piemies amblyole ratiness, and torch light processions, and of fire up the wavering faith with sky-rockets am hal whisky. Certainly it is everybudy's deaty. which he owes to his country ame to posterity, to iry tolearn which one of the great politial parthes claiminu his support in the conming struggle, s must deserving it. Such information cianmol be had by listeniner to stump spetehes, which are atherally made uq of enncentrated lies and sot aip, and are an insult to sour intelligence. Avod such gatherinss, as they involve a waste of time, money, and energy which ean be better spent in secmoing your crops liefore the approaching winter.

The ahove are the polition views of the FARM SI GARDEN, widely exprused. It is prartisan hily as on oram of the great party of American husionommen, and knows nothins about Republitans wh Itmerats. We have onr persomen views, but we consider themonr own indivilual property, and decline to part with them in this journal for one armaney, Stuly buth silles ot the auestion, real papars of all party colurs, and decide intelligently

This time it wisc Mr. Wiondehuck who, though bither javitul nur mante wherome, eame to visit our earilen. We did mot time very much fault with him as long as he had shown bis grod taste by teacting on the rankest chover in the meadow, bot when he began to investigate our abilities as a Lardener, and the temderness of youns squash Anots, aml lvary lod wax leans, we thenght him a litte out of his proper plate. Seeing him run a his burus near a rail fence, where he could not lee dug ont very hambly, we dug up the main cutrance as far as practicable, and placed is baltprond dynamite cartridge, properly adjusted with "ap and lonet tase, as far in the lonle as we combleach, stopped up all the openings l could timl, and lighterd the fuse. He never was seen motile of that burrow again. Cost of material, abont fifteen cents, and sure pop every time.

As soon as your hens stop laying, sell them. Prices are better early than they will be later Vour hens will not lay again this spring, and if yon kerp thew much longer they will require a new cont which is expensive. Save your feed and sell them. In regard to spring chickens we think that ten cents a pound for three jounds rach is better than six or seven cents for four pounds each. Sell early.

Gell as soon as you can get a "fair price" is the farorite alvice of writers, and we indalge in it eceasionally. liut what is a fair priew? Forty cents a bushe] for potatoes may be eonsialered a fair price in one senson, and a low one in the next The farmer shonla not be a speculator next. The inrmer shon only in a linited sense, but he certain? needs good juigment.

Philadelphia secolsmen are the most cuterprisng in the worlal, and we are proud to mote that Mr. W". Atlee Burpees ot W. Atlee Burpee d Co. ant Mr. Herter been successful in their Finro pean thars The urw Feretables and flowers of pean old contries have becn investigated ami examined, and next season will show what las been brought back ly these cuergetic young men.

## ĞLPPINGS.

It is our desire to make thesw so full and warifd that enfry reade Th The Farm ann Garoen, men thouyh he thtifs wo lewhughubirntions.

## prom "Poultry world," Hublferd, eq.

## $\triangle$ POINT IN INCUBATION

In puthag thr eqge an the alrawer, put the large end up Gy the therimontorer on the ergs, the bulh lying be tween and touchng the eggs. Have libe other end ot tbe thernometer a little the highesi. Lat me impress on you (h. important of keeping the thermomater on the مigs, fud the egg that the thermoneter touches most be fertile. Fon want toget the heat of the fertile eggs, and not of the fge chamber. Tha differance hetwatn a ther mometer lying on the eqgs, but the bulh not trow hinin at fertile one, and one whers the buth dees tobch a furtile egg, is several dearpes and right hore, ls, I tbink. the cause of a grool many fallures with incuhaters.

## 

We noticed a farmer, a frw days abo, loading two latge hrush sows in a waght. He hawl wo shmte, ant they had to he liftel in by main force. The yard was full af ather arows with young litteres. And yot with some helphe did it without a squenl or the least pxeltentent In the yard. An ordinary man would have canght them and lifted them m, and every mother womlt have been exciterd, and perbaps a half dozen sucklings trampled to death in the melpe. Instean he coaxed then into a box stall. then phaced a large erate In the door, to which they went readily, and then lifthel the crate with sume help and emptied them lato the wasn, where they lay down as quipt and contented as il muldr thelr favorite tree in the pasture

## From "Westarn Ploreman." Whlow, Ill.

Suppose yon pay sion per day for help, and a gorml shovel costs an equal amount; hut som retan the ohl ume because you thak it too gool to throw awas, althumb the man in only capable of doing thref-fonethe of a day's work withit. How muoh have you made in toll diss hy tbe saving? Suppose a bew howe rosts slaty (onlta, y gou pat the same man to wark with the ofl one with Which he can do threnfurth of a day's work. IIon will quite trequently cause a diffrence of a furth of ons kubor. 'There ts no rule of labur or eomomy about a barm that pays so lurge a per cont, on the finvertment at What of taking care of, and kepping in orthr the thels w pork with. A few minutes winl snflice to cloan offa hore Fhen we put at exide, and hattan of getting beave with dist, and accumulat-if earth, it will get brighter abd arighter with constant use, and le a platasture to handlo ustaid of ant extra hurdin and hintranew. This is at strong argument in favor of gom innplemmes.

## prom" Cunadian Itentimuthtint," N. Chetherines, On

EXPERIMENTS WITH CELERY.
One of the most popular, perbaps, with the exception of lettuce, the most popmlar ol salan plants, is celery. It mot many years ago when celery-growing was one of the mysteries of gardenlng, se far as current opintun went, and the carefulty-grown plantings were transferred to deep trenches at the hottom of whleb much numure had been spalend. While a laborions process of tarthing up was successively pursued. Market gardeners, bowever, who are nsually the Gerst to introduco new processes of growing. on account of the competition they have co mert, found that the celery grown mpon the surface and earthed up once for all at the latter part of the season, fimmished protitahle results, and this latter methol seems now mainly the one pursued for commerchal purposes. In the private garden, however the trenchine is la many rises entminatl, and it, thers
 tuve ments of these two methods, for il'surface planting je equal in its prodact to the trend planting, it is far
be prefersed on account of the less lator involved.

## From "Garteners" Month"," Philadelphia. <br> <br> HOW TO GET RID OF MOLES.

 <br> <br> HOW TO GET RID OF MOLES.}The ground mole has bewn for a lone time a constant source of annoyance to garilemers and farmers, and the question has often heen asked,"is there no way of get ting rid of this pest without the tedibns process of trappragit?' Which at hest is only a partial relief. To this question I answer, yps. The rembedy I have known for many years, and I wish to give the pithic the benefit of it throush the columas of the Gurieners Monthly Like everything else that is given $y$ ralis, perbaps some
will he foum todenvor contralift the god effert of this rempds, hut I challenge contrudiction and demand a fair test from the mublic. One, thint of the seed of the
castor onl bean (Ricinus Communis or Palmat Christi) is
 season, if propery droputed in their rans, whinh is simply o thruat the torebuger into the mole lifli, and then drop a bean thern, whleh he will be sure to eat next time he Conns along; at the same time conering no the hol mathe heg the linger, with a bit of earth, whin, stont or


 grass latha, becture it is often hatrd to find all their rums II the grase. Aloo, in phanting corn in fielts where this pest abounde, it at spet bu dropped orraborally in the hill athors with the carn, the mast winl eat the buan in preferenoen to the corn, anal as sure as he eats it that is
 first hegintorme which is geterally after ther ratiden is mable ant merly planted, they are easily got rill of, ant (10) Irap of any kind nom wer be introndued intas the


##  WHY THEY DIE IN THE SHELL.

From thw inventigationa we have matr, and with tha O-optrathon of those who are operatas ibrubators, w hater become indintil to the opiaion that one of tha
 is kegt tou high atront the ninferenth or twontieth daty
 butt way maintained at jof and even at liffo at timent hatehing, but later ritals show that at thestart the beat sland be rather light, about 100 o , ant then allown gradually to radnce to 102s. When the beat is hish, the moisture should be supplied plentifnlly, 'Ls the getater Un. tomperalure tha more moisture requred to saturat 1has air in the eres lratser. should the hat be high atront



 Whe chick for the tirat torn hays is hen tatsly killeot, eithe

 erary tots, the heat kopt at les, and the turnge dome promptly twice a tay:

From "Amarima Agriculfarist," Now Foth
I what for arymment sake that well the cur has lio






 sibflity for the danazeg to his netighber. In many way the Iher to a beraty tax to his owner, und a terrible num
 Ghep, athl wishing to rase them. whats lewishation



 thtule of fartuery whofar tor raise shent on accomot of
 and helpfal bratmes of agriculture in all the older states. Supplying lambs and shoep to butelers pass
 keep down lirush add briars, und to maprose the quan(ity and quality of the grasses. Many farm- now genw ing to hrishi in all the Eastern States, minht be made proftitille if only the dogs were out of the way.

## From "Brecters Guzrte," Chicagn, Ith.

## THE ARAB HORSE.

For a number of years the belief lats been prevalent among people who have given the mater of breding Fice-horses hut enrsory attention, that the Arab horst was netrly, if not quite, the equat in print of spped or the thoroughbred runner, and tbey have uways mantamed in the most dugmatic manmer that when it came su the qupation of enduralure the "fleet footed courser of the ifsert." as the novelist delights to call the Arab, was fir antin nay the superion of any other member of the equine family: As a matter of fact thete lias been a vast amount of monsense writton ahout the Arah. The late A. Keene Richards, of Kentucky, tested the matter in the most tharough manner, making several trips ti the Arahian desurts and paying long prices for the best spraimens of the breed that money could purchase. The atallinns thos socured were mated with thormoblered mares, and the mares bred to thoronghbred stallimis. The costly experfments made by Mr. Richards were total fallures. In England a Mr. Blont lave long held views similar to those of Mr. RJchards, and he too spent money freely in testing the theorles which on thelr fact seemed so plaostble. Finally he induced the stewards of the Newmarket meeting to arrange a stake for A rab horses, and the same was run not long ago, the distance being two miles. There were eight starters, the winner borse tbat had won a uumber of races In lindia beling







 In the sense that the ss anl io any used.

## 

## A SECOND INCUBATOR TRIAL

Whe lately gaty the experience of Mr. A. M. Crata,
 astatement of the spoond trial mate by lim, Mritten tog

 sprobern Prown mal titwell What bot fertale. This 1+ft ajhly-three atm eiphty-five rehuctively. From

 -ighty-hue Whitus gave thrty-twh chicks. I cthout
 ment of the Whiteg giver the retastle, which wat that some little complaint hatl come tor mo that the kbells in this varnety were quite thaler. 'Th dwate this. I fod
 nol break their shellw. Filty ot these eyes werp blhed
 partial fatare requmes soma' oxperimenting for that folute, whielimy next tribl may prove. Somp writers
 the sbell caused by tor mand watine; others say failmee

 mention at litte trial of savell "gits of the Partridge foblain varieta, whing ware thated beth own tratl No. 1


 Were pue 11 anoblor part of the ineubator After Kir. 1
 chinks latchen and ate dohit binely. Hore agan is a contradiction. Writers tell thate mut wat handle the

 koenging life bitale. Now, for oms, 1 do not belu-ve hathating pass will hart them, for certainly, if it did,







## Frem "The Trumath"

## POISONOU: PLANTS AND FLOWERS

Thece are many plants when baves, flowers, and siseds contain virulent ponsmis. whinlo every ome should

 prars when the flowers are dum ho lay' ; no cow whl tred ubno them while in thossm, sul canstic are the fertals that they will sometamporinfate the skin of tendreffingers. Every chald should be cautioned against rating them ; indeed, it is flesirable co catution chibren asainst tasting tbe fretals of any flowers, or putting leaves into their mouth, except those khms n to be harmiesa.
The oleander contahe a deally poison in its feaves and Howers. and is sadid to bpathagerous phant for the parlor or dining room. The fiowers and berries of the widd bryony possess a puwartul gurgative; and red berries, whicb attract cbildrent hise proved latal. The seed of the laburnum and catalpa true shonld be kept from hilidren, and there is a possommas property in their bark The seeds of the gellow anll the rough-lodded vetcbus will produce mansta and sevpro hridache.
Fool's parsley has tubroms roots, which have heen mistaken for turnips, and prodised a fatal effect an bour ater they were maten.
Meadow hamblock is saill to be the bemlock which Socrates drabk; it kills by its intense action on the perves, producing insunsitility and palsy of the arms and lags, and is a most dangerons drum except in skillful hands. In Angnst it is fonnd in every field, by the sea shore and near monntain tups, in full bloont, and ladies and children gather its large clasters of tiny white Howers in quantities, whonot the Jeast juea of their prishmous qualities. The wator liemleck, or cow bane. prishnous qualities. The wabr liemiock, or cos bane,
resembles parsuips, and has been paten for them with duadly effects.
The water dropwort resembles celery when not in fower, and its rugts arre aso similar to those of the parsuin, hut they contan a virulent poison, producing convolsions, whirl fal indeath in a short time. The fine-leaved water aropwort and the common dropwort re alsa dungetoms whells.
The bulbs of the datiodils werp nuce mistaken for leets
 the whole househom hitensely namsanturd, and the chat dren did not recover from their effeets for several days.

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Futumn Leaves.

## New York grirls are sen kiswing hurses. Ilorse in New York are not easily seetred. <br> That' y your lity, is it "" Jnquired the romster of the lew is she cachled over her latest produc-

 tiont.Fron hman is teaching a donkey to talk. What we want in this conntry, is a mall who will teach homkers mut to talk.

But," saill the serenadel man, "I must got out amb malse is oreech. sumpthing must be done to stop the playiag of that hame."
An alvertiser in Vamity Fair offers "A ilvame fir sald at tu?" Hipre ix anewl chance for sume boree tancier to buy a nisht mare cheap.
Genurally the party who singe "I womb mot ive always" the lominet, is the one wher wete.

An Ameripan lady married to an Italian prince a year ase has alreaty left him. som American Girls ate tom promid to travel aronud with a tambompine all lay.
We have an exchange on our list which is very Wealthy, It sitid in last week's issue "We are paying off the national deht at the rate,

The Fienit
He drops in now to cill upon
The editur or printer,
And closes carefully the door
lie left ajar lat winter.
In the ruins of Pomperi, the remains of a man with a satisfied amile on his fare and form jank grasperl in his drimdop ham, hate lerera unearthel. The workmen are new dixgine away vienrmsly for the other fellow, to see what he lianl.
"I winh my wif. wasn't a pwlitician," said suif kins sally.
Why"" arked his frenil. "Is the a Demm crat!'" 10.31 n, she's a bolter; she won't let me in aftor

A gang of Italian laborers near Saratoga were recentiy cut down ten cents a day. Iusteal of striking, they eat an inch wfit their shovet hates at night. The bussasked what it meant, and one of the men replied, "Not wor much pay, not sn much dirt lift; all right, job last the mire long. Italian no fioo like Irishman ; he mostrike."
"Wakenp?" exclaimed Mrs. Mulberry in a lowal whisper, as she punchel the slumbering Mulberry in the short ribs with her chlows the other night; " wake uf ; I'm sure I hear luarglars in the dining rom." "I hen't disturb them then," said the drows Mulberry, turning over on the wher sille. "Be just as quiet as you can, and may be they will eat some of that fruit cake you lave in the pantry.

First Gotham st. Contractor-"I harar the cholera is fearfilly lad uver in France. "ome here if the strepts are nut cleanet?

Just as I was thinkine."
something must le dume.
"Yes, somethine mist be done, thats a face and quickly dome, too." day?"
"ioh, yes, easy. I know where they meet to phay "heckirs." then them all twema round to my house at \& beclock this evening.
"To hell pray tur rain."
An important Distinction.-" Miriah, I am shacked that you should er +an think of having those Simpkins girls as bridesmaids at your weld ding.
-. Why, mamma, they are two of the sweetest, nicest, most highly-cultivatel young ladics in the eity. They have traveled all over the globe, and receivel every where," "Bat jost think, Miriah, of the stigma which attaches to them. Befire the war, their father, who afterwarls got rich on an army eometract, lived on a farm, and actually made and sold butter. Just think of it !
"But does not my father make and sell butter "to? "No indeed. Why four shock me! How could you think of such a thing? Your father is a manufacturer, and the product he manufactures is not valgar butter, but oleomargarine, a highly prized and very important article of commerce.

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 thtronze them if yon want ang hing in their line.



I. 'f: Letwiq, of fiatskill, Nuw I'ork, makis pumpe and




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 I






 *wis clamanale for it.

 Fair, at Philadelphia, (1)

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The mame of janjel F*, Beaty, of Whashinetun, Next Jersey, is tolloratuly well known the the nathordty of the
 fortespread alvertisius and by hentos. By liberal atril porchaser , ment with ther organs and pianow. It was lisambition to erat ami uwn

 disastrons fire in lach, and the want of anlequato catpital
 entanglement in his aftairs. Allhough be matle ambl sold over seventeen thousand (hamn) organs last year, dis embarrassments, which dated their origin years h fure, became so serious that be finally sold his business tl a corporation ennuposed of bis creditors. It is under stom that the company, with anphe capital, has underdaken to make good as far as possible all the obligations of Mr. Bontty, siclag preference the phrilasers of orgaus and pismes whosp goods artestill madelivered, anl to wham it is shipping daty their instrumants. The company is mader the prositancy of Mr. I W. Enciamel,

 hosinesa men tro the countrs, All new ordurs we a assuret, are filleal on rew ipt with Instrumenta of the best quality : whille arcearages are being manutacturnd and shlpped at the rate of not less than 100 at wetk. On sucha basic. sumplying asuperiur artipip at at manarate price, frew of mgents commansions, the dew concern onght io achieve a great succes.


#### Abstract

bettor results than to trant to the brewd under all "tocmmatances. We often receivo inguirien askine Whieh is the best loreed fior market and which the lust tor egg pronduction. If we were living in at state sumth of Masum's and Lixon's linn, we whald take utlr chancos for seturiner beres from the Lemhoras, Hobulans, or any of the mom-sitting hretels on wresses form them. Korth of that liat  andhors, sturh as thee liochins, brathmas, amol Ilymanth lineks. Tha reavon is that the ennad re bot sor eisily frosted in the sumtls and the aetive Leghorn is vory suitable to that section While the cuntented larger liremls are nore easily antinel within dourn, during the long Nurtherin wint"r. Then, again, some suctions pussuras a numid atmmplate, while in uther lomalities tho -limatu in iry Extremes uf eoblel anel heat art   promertion of maisture F'has, we mity satily raise laghorns in acold elimate, if it in ilry, amil mesy raina the daiatife in at warm alimate it ha "hatuge from emol to warm temperatheres are hat fow suddera and variahle: The beow fowl is the und man nulahle tot the "limate


## DESIRABLE CROSSES

So "hiolin may ho. hatwherl with jrotit thi
 Fine ahbe, acourdinet the the purposes chesired.
 liruwn lathorn eakk with l'artilis. (ochan



 lark laralmait homa, illul lhe prombort is the most


 Prablinat or Cinchin hents, amel the nuxt seasme mate the pallets from the crose with a wyandute
J゙ur yrombeiny a very larev fowl, cross a JlanHan mork wn light Brahma hems, amo mate the priblets of tha erose the mext seasun with a


Furnarly maturity, erass a White Leghorn cock Fith Liegtit Brahma heons, wo a Blatek Jimbore uk with l, meshan henn
F゙ur fowl that fluinkly fatten, erose any two of
 other larese hrextes on the problues.
For winter laters, cosse a Jominick eock with light larahma hions, or a Homban wok with Iang ban homs. Nixt seasm aross the progeny with 1 Wyamdote ur ly jommula hack cack.

## SCRATCHINGS

Nesis. The choap slaving baskets make excellem


Fattening Geese. - There is nu hetler food for fatfonimg Faw llan turnms. ('hop them has and feed in the raw

Sclecting Young Leghorns, - Sue that the comb is parfectly warh at even dintanc win low other, the earlohes whilo, smonth and larb

## September Work. -Now is tha time to lay in a supply

 fine lry dirt for winter uce, as well as a quantity of veg tables. If the preparations are mot made at the time when the seasom is moderately warm, many lnconven
## Malima

## Mating Oucks,-1t is uschesu to kerp ducks in pairs,

 wo or mone durtis may he allowed with folleh drake Hereby permittille of the sale of anrplus stock. Duck shombly be allowed to foritet, is they whit not dowell in onthrment, expecially when the itakes are mumerous
## Langshan Chicks. - It may be notiopd that sometimes

 the fept are yellow, lut hia passes off as they grow harger. The true lanmabin, whon matured, has park ealor hetween the toes, dark legs, and monberate femboring to the nuter toes. When first hatched they are black amilEggs At This Season-The monlting hen may he lmulucal Cay occanomally hy givint them a stimalating diot hit dunt alluw thrm thombeh fat-producine materiat


## 

Grass Seeds lor Chicks
 Grik ation armalal al cht lasy the yarl gives lle hons gond exurelse serablibug for seeds Hongurian eriss sped in asu excellom, as weth as tha
 tver value.

Roup Medlcine


## tirnt pich fowl.

 smath pheth of the maxitre is muntinged wibl timothte
## Temperature for Incubators. Tlate great diffictilte with it

 (omprature neи was mathatint in blat the first wotk, har the secon

## The Turkeys. - bla mot atwont to fattell yomr turkey

 t. The best place for tham is on the ransen, and lhes will then only newd an Hlewance of food when they


Plymouth Rockt. - A larbe number of persons whe ked

 Fir cronsmg on fanmanon latis, only the pure-bred. clean


## Prepare for winter Laying, - Espry juilet shomlat he lust



 Gason is evor. difer plenty of bone matal and meat
 arly for the rance an tha best place lior pullets

A Cheap and Nutritious food,-One wf the clteapest and







The Wyandotes.allhmegh this traed Is now emasidered
 ath froblomed silver mpangled lataburg and Dark
 fow loes will hase a linee of testherng, and the youn thek give indiontons of the Brahma. If howl from a
 harg, and llat lireder may condider himaself fortunate If

Feeding Laying Pultets.rider io be wall cartet abor whel indiates that she is ahont los hegit aymis. At this porion slat will boenme too fat it for on und matin, ablif very fitt she will mot lag. After she
 maturity of tha pullet aml the teginuing of egg produc Llun.

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OCTOBER, 1884.
No. II.

TO ALL WHO RECEIVE THIS NUMBER - Aubseriplions mas huin with any momber, bant we

 Noticr is atways semt of pxpiration of enhscription.
 Bemittumeconaty
iRemittunces maty lee made at our risk by Post Office Cantilizh Money are takenstrat if sumt jn ordinary thand arw it your risk
paper is itprown that we that yon rective the paper promptly, Write us, that we may see the Addriesses.-No matter how orten yon have post ollice, and state. W'; haye no way lo that Nourname Gept from the addrese
in full. If nfady, ul warse write it the them plainly and
 If you tho" not write Miss or Mrs. bufope your signature do not beoffended it we make a mistake on this point wirrors.-We make them ; so does exery one, and wo write us good natoredly, bnt if win cammot, then writ. at pags. We want an parly opporthalty on else ur led any injuntice we may do.
AIIVERTISINGRATEN, From inwhen of Fer-
 cosita per Agate line chrbinsertion. Gubweripfions to this payer an cents a yemr, payable

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## FAREWELL TO THE GARDEN FOR 1884

A few weeks more at the most, and Jack Frost puts in his appearance tu stop all fur(her operations in the garden by adecisive veto We must finish up our work alld prepare to leate nature's gramn' workshum hend whicignod to us in nature's granil work hap, and which has becorue endeared to us during a long vectrpane:
$+$
A light covering of straw, paper, , ilamkets or sheets during the firnt fronty mikhte of the seasinn,
 such as tonatues, cuemmeres, melons, etce, for some weeks after the first heary frost.

The hoisting of a cautionary signal fily, meaning "the cold wave is coming," at post whie" and stations, as pruposed ly onr natimal weathermakers, is a step in the right diretion, and may be the means of aroiding much loss to the farmer anll gardener. it is well to know when to put on a little more bed clothing.

When you sec the white in centre, and you have mo means to protect yur vines, pull up the tomato plants and hang them amler shelter. They will continne to ripen their fruit. Or pick the half matured fruit, and spreat on the flow or a shelt in the garret, and have ripe. tomatues for many days

Last spring, I. A. Fyeritt called my attention

sems to be all that arial be salid against it.
 unless they are hetter than wur ild standards.
Vpegetahle oysters (sidwify), are morly immdant. It is offon reommonded tor lidatly coser

SPECIAL OFFERS FOR OCTOBER. 1884.

## 撆

 You (andevery other subscribur modrequented, as favor, to send us Foor New Subseribers. If ron will only do this for un it will brisg us arir ane II undred thousand subseribers. make those affers:-


 Four fiac surn
Four finc, wrifrooted Livir-dhoomina Rost Ibavites of diftrent varie

orm date obir wow matma "hry


To store celery in your cellar or root monse, take uf the plants with the ruts. trimuling the ends of roots to within on inch or so from center, remowi all decayed learis, and set the plants upright, in atows not luss than right inchos aport, in moint sumd or soil, the deeper the luettet. New rootlets will form.

## GARDENING IN FLORIDA Corticued.

 reapen the subject jum where oleft it, without renpenthe forbether



 per iscre.

 the homben of doblar. per ache bint beins not sol latery plate in mome nthers. I has heard of when who has centrivel a system of irrigation ley meane of which he hat mate the
 They are supported on [motc, at almat twa
 troush ranning atong the side of the pateh, which is fillow as newled by pmpine wator tom
 soil always monist.
 early un suitable suil, and abon erob is wimp
 proftable, as the price is
always high. But dit lowing acconnt of a jurtan crojr, a related to me he the grower, bums the dio eourascments often met in this lusiness here A piece of nes land, jung eleared, was phanted to hath potators. The sed and fernizers cont until the conp was realy to dig. When marrketed the potateres hroucht sh.s. Thas it is cern that the " (inden "pportmities" do not alway gield a golden harsent.

Ithough swe pertatoe are ote of the princi pal erne of Florida, yet they are not shiphed to
 (do not sell reablly at the North. The reawn probaly is that there is a prepudice arainst any ofor ellow variaty has heen tomed that wil snceeed as well in ene soil and elimate the the white. As the white is fully ental to the yollow in quality, and mperior in sizare, it is only it yo... tion of time when Fhorida sweet potatoes will he some tor buston last fill. The fire lot conld hardy be sold at all, and many were totually given away to set enstomere po test them. lint after that there was 10 difficulty in divposing of all lee hat tor suml at onond puces.
In my accont I have not tried to to cover up the disalvantasc, whake hinss appar bette?
than they realis are. fhe fature will very pohably be better than the past, as the lant three rears have been unnsually dry, while last winter was the coldest for ten years. Flomba is not an earthly paralis", but it is a very bleasant place to live. I have lived in, or traveled over, more than a dozen states, extember from New' Hamshire to Wroming Teritory, and have seen mo place that stits me as well as this. The hundr peopue stay here, the better the are exceptionthere are some whotre never satisfital. Very tew Who have lived here for several years wombla the be willing togo North permanently on any term.
some think that the summors must be terribly hot, bat 1 do not find it son , and I have hemsl several people who have heen here for years, suy that they like the summers better than the winters. If a change of air seems necessary at any time. on accont of health, or for any other reat son, it is only a few miles to the sea-chast, where fresh ocean breezes and surf-bathing ran be hal, equal to any at Long Branch, Brighton, or Rockaway.
I sain in the beginuins that industry, patience, perseverance, de., de., were motsony to screns This is undoubtolly true, but at the same time it is also just as true of cny not country.
As a rule, it reguires plenty of money, or else lots of hard work, to acceed in Florida; but no more than is necessary in Kansas, Mebraska, or Dakota. I feel sure that a given amome of latwr Western plains. The soil is not so fertile, but you are not obliged to work har six monthe to get fuel and woolen clothing to keep from freez. ing the other six. You may be working in the soil every dar of the year, and have some crups
growing all the time frow Jauary 1st to December 31st.

After you hase phace widl wathiohed here,

See the lint, ariwherrics trom banary to Jame. hacthrerix from dpril to. . Lum, tisu in Mary, Mond erpl in Ansut, and mometmes athird


 Coptember tu Nay. Anlall thar in a "llmate where it addan freere at all, and where the lowent degres of cohl, in the mont severe wintar and that ondy lated at rery -hont tame carly in the momine of twod
Sany whol have , $r$ little strencth at the Vorth, sum fime that lua athe to for ath the
 when writus ajun this mapect, on 1 will chas with at wed if adsice th thane contemplating a
 Ins, and romember that vola can an in wall on
 ins one howstred and fifty miles tarther south.

## NO EXCELLENCE WITHOUT LABOR.

## The Erveriencerseil " lorqinia Fumer.

It serms from tha coudition of this place this Stem arather lack of any victom) was wh
 $t$ is romidered a "minhty wiot farm." 'The rilene imbinate and so left, which makes a rathe ronsh antace from which to cut the gran that hav taken persescein of it, making a fory ramk
 the hore and bow will enm" in nicely for muleh. The and beddinse, so it is all reut and raved. If one base not "make hat whils the sum shates" it will not ha male, or in other words, but once : make ap, onr wpurt throush the vear. Hare in the suath it is thonght that to make much hay $1-$ ott of nue questim. An here on thi firm, there are mang asalalle are on others, that if properly gut in conditum, wombly -ithl toms of the bea of hav vearly, with me exthans that is beft bey the gecasional werfon whirh moly makes it iach yarar rieher. To plow whe latid for any erop is sump wot proftable Mach of thea land can lot mown a acomal timu and very lare ame fine eross of hay ecoremp
 We want fertibizers for all our lamd, and where whe a chande existe to secore hay at only the
 carlies possible tine. Ey, yry rof lam wher Erase will grow realily is of more valat than two pode of lame that is eultivated. It certaimy will pay well to eloar unall lamp anto, if but a
 Winter fond for the stock will he realozed with "mparatively little labon
Atter a two monthe' drouth the rain come gently but platifully. Whare the ail has leen kept stirred and is in a lonse emontion, the rath
 vas "sil dre", mach of the water will run oft amel nat lo the plants the grome it would if a
 for stopped working his lamd locause he was aftraid tu disturb it while so dry. The creph treathal ly each of ax now show the recults of the two methoms. The neightor called in just He hat nothane he could do to proft he thaurht, at the day waw last to work. We were memling some troils, lowhine wer onions, de. He re marked that he han not thought of it raming quite so soon, and by forsettms ho need of lone before, lut wheh hand eome no nieely, the Water hat rum across the small pateliand dide not little harm.

## 100

[5 CTS. (V/2PRICE) 2 ANTI-RATTTERS (MAIL)

"Wenl," sain I !, " why forlyt when it is me easy to keep at memoratum of everything to be dome. even if werke in the fature When law anymaly that in to br done amll lammot on it ath withome. If but a leaf of juiper alut puenil in me's jucket, there can be bur wetne for forgeting neetsary work
This is a rule every one shoud adopt if time, latron, and lons in valum are dwired te low saved. When ane has the many items of work where they can lot reall at a moment' winh, that wheh
 in thinking of what to do. Italnit will umes make this an casy duty, am hy it w mans litthe umamed items will bir remonhtered in time, that Gmbit will he seen that there is exeedtrate in

That, that fell the strokes aron the wellfilled and arall--holled head ot grata. The
 anm the thenhine wabring done on the wromd. The grain had been drawn whon but jhas boneme
 mumb, and at oncerat up in mall shack- where
 fir the harn wa hat a rahle. A stark of hay


 ,f that stach was al semp phane to make a smowh phare the therh it "ut." Bry dirt was being gathered for the stahbe, un the tepr of the woil*al two ind he deap-wa- taken off with a hatr-

 and leaves had rieted here tif yors. That suit

This dma the tho was reddy, and when the time cance topelt wht the rer hat we preterred. (1) thrent with the hail, sh the stam eromb be

 Around the edere, on three silles, we lad hamdes, with the hosk junt ratching to the enge of the Woth, that all the grain that wias satured away womb nut tall wh the eromod, amb beside much of then bomber wond be well shelled ont by the walkins wre then, amd wearinathy pond not as we throshen. We hansernt rope alone the Whe of the stack berge stuck in the hat and rurtain, that prowned the gran holymy in its probathe we savel math of the litth harsest, cran was very dry, whobever we hat sten any inclination of the shock lealmines over, of a top
 Warkomb by lying on the erouml, nor showers soaking maciered urain. Even in our little harsest excellemee renmmitad thlahor.

## tobacco culture.

## 

The first requirement for a wementhal crop of tabaco is plenty of grom pand-, and to seoure thea I seleet a rich, rather samly lamin hotoms limul; at ur near water combes, is hest. Such lated
 pants. To manure the bets tow much wakes the phants tender, amd les likely to live when tramshanted. If brush is hamy lamke a heap and burn it at a hast, hut if branh is not comeenient atter raking oft the gromad, wren poles are haid five or six feet across the bed, to serve as matilators. Womd is piled on thase actoss one -ide of the hed, six or seven fert wide, of sutficient yuantity to born, amb then sot fire. After it has humed the sromed suticiently it is moved on the pole's another willt, and more wood
adred, and so on, watil the gronnd is hurned over. 1 an carefill not to bura the gremad too murh. As som as the cromal is cond enmugh it is dus unsome three inches depe, and the soil well pulverized, all rowtare carefally raked off: The bel is marked oll so as to sow the seed more recular. The secel is pout in aloout one quart of colle, sifted ashes, before sowing, about one ant a half sponfulls of seed to thirty feet sumare. After the seed is sown if the soil is tramped with the foot to firm the soil, the seed will germinate better. The bed should be covered with hrush

to keep ofl stoek, and to shield from keen frosts. This brush mant be removed after the plants ge The best sobl, aceording tor my exprimen, fir
 The grombel momald have a liberal dresmine at
 Mark oft three feve and a faill ench making hills begin at one sille and make a crome and then walk back; in this wity the litls arn
 I proter a mestimn season to a heary one, if tio
 it will nut give satiofation.
The endtivation shauld commemer as somen at lousencal aronad the plant witha home eare fanle be nsed not to freak the plant lome. Tulnaco
should be enltivated once every werk notil tos
 experiance in growing it I find thate is
 notice the first fonr ur tive leares grow smaller
 topled at ten leares ahmse, then we have the best part of the blant. Some growers ton
tobacon at sixtern lanys, hat from observation in this respect 1 find tohicer mot so heary or aleaves to work amd strij.
]he attention must be given to worming Destroy all emors that can be fomma. They are usually on top of the leaf. It is more tedious to ketp the small worns oft, but if they are left to Worm-caten tolatueo is nat unly injomal in lonkbut luses in weisht. Kerele the sumbern oft, that Tobacen will umally subker fobr times, but will
 the ruots die dary must be kept nifl until the
 tobaces to ripen earlier, amd they do nut draw as heavily as the first :

## A TOOL HOUSE.

Very few famers hare a place built and de signel expoly for the storing of forld, while it must he anmitted that there jospute a linge dase that do mut thanish any shelter at all for their firm implements. The moner, the hore zake, the harrows, phoses, and sechlers, are found along sure exposth the the sum, rain, and show, durint are expendears that the hat together when so treated.
The more prmbent and intelliestat, who lave learned he experience that tomes expmed to the wather winn not last mare than halt as boner as those that are k "pt homsed, either prect a lmildins
 be hat?

The latter methonl is ly far the most common We find farm tenos storital in all
places, -the wombl-shed, the com-crib, the barn
flowr, and even over the pis-pun, or in the the stable. This is much better than inlowing the tiols to remain eut dowre, hat stift a ver? meonveniant, amb often exponive mothom of
 while they are more or less in the way at ali

## time

## A builing desiened for the storine of tomb may

 be lmilt at very smatl cost. The eonstrnetion is so simple, that any furm+r who can hee a saw and hammer, may do the work himself. It may ho in the emrus of an melosed onterof shed, or a taste and purse of the builler. Whatever it is, it should be stom prom and ilry. I have sceen many tool sheds that were "peli on the itwat, for comning warons ami michinery in and out but they are very poor protection against driving storms, which in winter willotitenpipench sheds
half full of snow. Siringug or sliding doors should be provided in front for larce, heary machinery that the owner dues not wish to take of pitees for storing.





 ammally paring th tho: sor and harkmith,
and that tond durage wewase when lat cound mot Work in the fink.

From tro unavodable ciremostanme my ex-
 wet -pell the uraw ecot such a hold that I ham my phat plawed tor kill the graso white the boil thits
 Iny tarly cathate hat 40 pmomb of fertilizer radolast and well mixem with the suil. 'Tha'

 calbhencs were set out the secomb day of May Firat heals ued Iunt orth. The rimarkable feature of it is the market being rery dull the cathase have not all lwen whl, and thove yet et, and this the foth of septmmer. Ther are My leas:-The fanty sumbery chand comeds First ambleet dial mot give matiotaction. The unrise had a lare" homime did mot mature its
 ix days earlier, but "xeppthis, 1 saw hot little diftirence if any. Tha, vines were sune tho feet auk a halfhach, very rank. 1 dit not stick them Wut ther will (he butter with sticks. The pols
 moth eraced latring at the same time. Some of
 Smerican Womber thead of all others; of gond
 arly as Premium (inal. Thi peat is not as flavirel turd mon ponductive not yuite as large.
 ami White (iiant Kaca. The tops were dead liy the midnle "f Anent, with bothoms two to three
 My leams:- The Gandian onter was a very with large heans, hat with me they were" tomgh and mot very pratuctive. Lemon pord prosel to e a very heary vine, bean of exeedlent quatity ery politie. The Crestal White Ifiml twe one of the finest snap hearis I have met with, execed

## POTTED STRAWBERRY PLANTS





## 

 ORANBFis 18 P Ph, Nay for Fhis plant$\qquad$

expiess, and in splendid condition."

## HOWTHE FARM PAYS

William Crozier and Peter Menderson. Just issued. A new work of 400 pages, containlng Contents, showing seope of the work, imalled on apHencation. Agents wanted fur this the most compre-

PETER HENDERSON \& CO.


## 

I have often urend, in tha warions zarionticala
and grow mothing of inforing pality. I haveorrofurated by a narmation of theme ex.



ine garilater had, simmly ine garduer had simply enperior rarietr. whila his notighbor hald .ond antud himaclf with old variaties. Ile han lasen

 He had not heen ahde to fulle supply damands, while his neighlar hatd fomil it ilitionlt to at ris of hix at any fisure. Another man told me
 neishlore han told him the was fomlinh to do so, fir the kinds they introled th plant wore ju-t
 hise 11 onts of his neluhmon, and lie showed mo. with commendalan satidaction, a hare mamber of not taken arfor Me kmo it mill to get the best. I see this same thifur illastrated amones my neighturs in stock. Sume of them, a fin yemes "1, comelanded that it dind not buy to keep on with "serub" eattle. They satistien themelves that it way a gayine investment to get a luster that it would pay to whane breeds if they ino embled to raise cattle for mirket. They lumelt thoroughbreds at prices that mate them the
 What was the renalt? It bromght dallars into their probiets where they had only had shillings from the rill "serub" stinck. "Hey fomm that it cost nom mare to buop the butter grade than the anteror ondre, ant has follond that the returns in butar or beef trebled. They can sell a yarling for more, tomay, than their emservat

## hurs can soll ome of their lest cows for.

It is the same with horses, with hors, with Sheep, withanythitug you raise on the farm or in the garden, be it vagatable or animal. Bugers wime the host and arm whing topay goom prices he for they recurnize the fact that the besh is

## NEW STRAWBERRIES.

cultivation, Pot or injur plants now realy fir sum-

## STRAWBERRY P PANTANS

Ill the BE*T nul NEWEST IRIETLES grown in pots lor Summer and Fall planting PLANTS GROWH TO OROER AT LOWEST RATES

IRVING ALLEN, Springfield, Mass.

## POMONA 'NURSERIES.

PARRY STRAWBERRY

## A seedhng of lersey Queen, Vigorous


color, and firm BEST Iop MaRKEI or FAMLY use.

ORGHARD AND SMALIS FRUITS

## the wilson Jr. once more.



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 shown as. As our awn ays have seph it wo

## A Practical mode of planting

STRA WBERRIES,

The plants come treation then water, and so hetrimental when droppiner a long row aheat on the planter, a mond. which 1 most heratily com homo. Havine come wht in a fresh atate, the ir ante on to their fall matural alepth, in conl maint Hant, and immenatmy chacul asain, in a firm
 ant eashy uften brakins in two bofere it wilt ow way at the rose. I would operally recme phanting. With an asesistant, I have frequently phatod 5 , Mon strawberries in a day of tha home Thin mont.
Tha lont distance to set strawherry planita, is

Infare a plant is put in the aromn the phanter shond inform himelf as to the riblate ne stam-
inate eharacter of the varity he is unime. This is a matter of the gratest importance. Bintilate varicties are sumpol kinds whase flowers hear pistils only, amb hare nortamens. Many of omr ruquire the fresenor of a staminate surt tal fortil i\%r their bhesoms, and make them hear perten frotit. Staminate varieties are designated also male titles of partert, brmaphrodite, and botter "h" "r "s" to distineuish" hem fro markcol "pr fomale sorts, which
We usuatly nmmence a plan tation with from one to eight rows of a staminate sort, thrn an "qual number of the pistilate, then :
reputition of a staminate, and si on through the phantatim, are



## first were. This mule guaramtere

 the pintilate fertisization of all which will bear aloms, while the staminate sort will; hot itis always better that a pllantal tion should ermsitt of acorral mala. We plant them in seerows, so that gure phanthe"an Pistilates maty ber satidy as far as twenty-foner fent
from thes staminatio and copeallnecesary firtilizatiom. This beine fully maler
wersme to the filanting.

The most simples easy and foud to set smatherice and plants with small remes, is by use of the spadte, and the holp, of an asistant. In usimg the with the will is aroided, and though the gromel may be hard and ermbact, the plantiner is mot ohstructed. the line, its left conner lurine nearoxt to it. In this pmation the hande is sunk to the gararl, after whirh the handle moved hack and forth mome or twice, so that when the spade is withdrawn there will bean aperture, in the shap of a wedge. In making hem the line, and your assistant oceupies the oppusit. side, carryingin his foft land a burket of watar and plants; ning his right hand to grasp the phant at its entlar, with th, thmbs and toretinger. Giving the plant it subden tirs, while its ronts are wet these be places to their full extent in the apertur made by the spard, , etting the crown so that it will be just at the surface of the rpposite bank, in which pesition it must be held while yom force the nearer bank or side of the opening next to you thus enclosing the plant in the solinh rlasp of the vise-like enclosure. All this is very easily dome requiring but a few momonts practice to become an adnpt at it. If yom lave mo helper, it is a gond plan to go a slowr disance owor the line at
a time, makine the sum, then finduy a time, making the spaces, then follow with, the
bucket of phanta, haldink while clowher the earth with the font. We have set a great many thomsame of plants in this manner, and find it not only simple anl practical lut also the yery best and most sumeresofnl methoil we have erer iricd. A ffw of the advantages
gained by this manner of planting are as follows:-

She commened by picking ont all the canes which were wantei for the principal hearing hranches and pacing them tor her mind all else wh risidls rat atway. Aftor thic was done all the outgrowth from these ranes was eut elase to each "ant, latving not whe lad in ans case. After this extramerinary proceding, a farmer trimmed the grape vints. "I asid." was the reply. "Well," sain the neimbir "I twok you for a woman of gomel sense, hut a hmatic could has" home as well as this. "Come and are them "1 the fall," was the coml reply of Mrs. R.
When fall rame, Mr. K. hinponed to ment neighbor, who anked after the grape vines. "tome and sed thrm," satid Mr. Fe. The neighlor came and whan haw that fomerly barren ine luaded fown with frast, her astoriishment sas great. On her roturn bume she sent her hoshand (versed in the coultmere of the graje), to ae the reanlt of a whan's whom in trimming. Ae, alsu, was astoninhed, amd said hati he sofn the vinu when trimmed, he would have made So Mrs. Li. puceded wach $\begin{gathered}\text { par, with the same }\end{gathered}$ Knowine that it is the filmons roots that take Drourishment fir the vinc, Mrs. R., wach spring, Sraws away the earth from ahout these, and puts ain frem earth all about then, which she whtains gatas sod in a menghorine lot. done, dhe turns the send npside he ronts, this is in turn covered strength of her vinces is renew. from year to year, and show In anothar tas. (at Potsville. the grass cut from the phot which the vines burdered, was plared on whe The the yround alomet the these vines (the Concord), throve and bre fruit, while those of the ncighbors, of the same kind, wer either winter-killed, or harran of fruit.

## OLD CURRANT BUSHES, AND HOW

 TO IMPROVE THEM.By E. E. Retsford, Shiocton, Wis.
In many gardens rom will see a currant hunlos standing along the enre, with grass growing among them, and almant hiding them. The bushes have fisht for sin cxinternes, and it is often at ther for mot give up the
The worns take muat of the which, if it werr allowed to ripen, wouly le small and por. "I ymerday, "hout it dones mot pay to try turaise them, they do not amount to "mongh to make it worth while to luther with them." I looked at his
ckly. starvin hushes, and mentally concladed that he had never "botheredy, The currant is a healthy fruit, auel can be grown in harge puantities, with but little tromble. I know of no other small fruit which will pronince so well with monerate a mount of care. Three bushes in hand, and the results have heen most gratifyine. lle removed the grass from ahout them, and spated the soil up to about the depth of a toot, wroking in well-rotted manure ahont the pants. 'Then he went to work and cut out the wh wool from every bush, leaving only the groweh of that yoar. We kept the plants clean thronsh the summer, and thoy grew wonderfully. Ther said tu us as plainy is if in wouls that They sad tu us as plany as if in words, that the were willing all ander to grow, if they only
had a chance. Aa senn as the opportunity was
 "rime he put a lot of old motar from a romo which ham its plastering remowed for a new coat moner the hoshes, and this hefred to bere the aill licht and opren. We kept all werols down, Hith mor grase was allowed to grow. The result Wis al large crop of fruit, and the fruit was so large and fine that many of his neinh mos thought hu nunst have plantend a new variety, and asked for cuttinges. This proved what gocil cultivation will do, and that is simply this: That it will apparently work "womlers. There is, however, now wonder amd methere at all -tranger about it Give any jllant a fair chance and it will do well under proper treatment and conditions. While the currant hashes of our neightors ware cosered with worms, his had mone, and he feels sure that their exemption from this pest was atributanle solely to the fact that the ground was kept free
from weeds and grass in which the worm lays its the bushes．The matted grass ahout the rout affords it a goml larking place，and if yon take it away be will reek for mure consenial puatrers．
Last fear he cout out the growth of yhe yar before，leaving only the new growth for foture hearing．The bushes have a strang，healthy look， blants．lastead of having blants set along the
 hare them set where it would lie easy to work on
both sides of the row．P＇nt rarse litter alont them jn fall，and spold it in well in orrine．Kere the older growth eut out，and keep，the gromad clean and mellow，amd you can raise from a dozen bushes all the froit an averaged sized fanily will care to use in its season．

Who tells the truth and who does not．〔From The Farm and Gabiden fur Aumut，10m．） Perth Betuly proves to be Creacent sueding ampther source as the Jinmbet
［From the Fruit Ieronder for September，184．］


 The Jumbus atrawhery by any incorrere statembents Thit say in the alowe that the pulabiner of the Froit Romoter was the first to disominate the
Park banty．Num math hat has reter－
 pemped in regarl to the mattor．Nor ean the is mot the premen who gave the varifty popinarity． ITe elame to publish a handred thansand cata－
 arras the page shawing seven larries；besides
numerons＂putf＂＂of astrongordor in hicmonthly catalowe，otherwise known as the Fruit Recorder The animus on my part was simply warn others not to bay high priwes for these wh varieties and nothing more．＂lestrikw me that the inten－ tion on his lart is solmod that one does not have
to know math to be able tosse it．Parhans whon writing his retort this moble knight of thi，quill each othe

## 1．T．LoNett

## A DISH OF GRAPES

At trequent intervals through the year we have reated of the gripe vine its importamm，and ha to grow it；and it is fitting and preper that w
shond sit down to a dish of the froit of the vin as the season is closing．It is nut sown to leegin with the best．There is the＂Ives，＂the bunch In some loealities this varicty is comsildered guod but in many other places it is not worthy of th name it oecupies in the wineyarls．The＂Irving＂ seems to be too late for bomy places along the fortieth degree of latitude
The＂Taylor＂is more noted as a follage grape than for ita fruit．The clusters are small amb generally sour．It is gool for wine and has bern the parent of some fine Southern seedlings．if You wish to grow a grape vine for a fine shatle， ry the Taylor．
Some clusters of the＂Herbement，＂erown in Northern vineyard，are belore ns，and will remain there as far as the eating goes；they would be safe even in the midst of a group of grape－hungry class，and thourh it does not slo well at the North， it is one of the best in the Sonthern States，where it furnishes the basis of a fine wine．
The＂Delaware＂is mneh enjoyed by many but we do not find that it satisties like sume others．It does well in many localities，especially the East．
Here is a eluster of the＂Catawla，＂and all who have tasted a well－grown and properly ripened berry of this sort know how fine it eall
be．The superiority of＂catawha＂is only equalled by its unareliability ；it does its best only In the most favored placer．By jts side is a clu ter of the＂Conemril＂This is the best known of all grapes，anl is truly＂the grape for the mil－ lon．－It is a hardy sort，rampant grower，suc－ ceeding wherever any grape will grow，and yields au abondance of show fruit．The quality is not
as high as many，bui this lack is balaneed by other importiant qualities．


|  |  native grape，try the＂lerkins．＂Thae skin is toneh and a pate eal color．The plant in strons， poolitic，amt the berri＂market well．While in？ the Amber livision let ma liok at the＂rialem．＂ <br> Br．Furers consilerel this me of his bent，aml Wan the first me of the Jyhridstoreceive a namm． The bund is compact and the berries latge．The ＂Agawan，＂＂Jissex，＂and＂Lindley＂all rusin－ ble tach other and the＂Salem＂in collor ame peneral appearance．They are all of the leners Erour，and valuable additione to the Amber clas． <br> The＂Clintan＂is ot the Cordifotion elass，and like the＂Taylor，＂a rampant grower and time for shate．It the season is probongen the frut is grom，otherwise sour，thoneh proluced abmal－ antly in＂lose clusters．The＂＂linton＂has leem the jurent to hetter grapes，and like the＂Tay－ lor＂which has heen the progenitor of white wine grape，it shoulid he hell in grateful remembrance． <br> The＂Enmelan＂is goome enomgh for any ane when the soil and seamon have done what they condid to perfect it．The clunters are not partien－ larly shows，vither in form ur siza of berry ；int therie in real merit within the dark comats． <br> Tha．＂lomat＂is a seelliner of the＂atawba， and where grawn to perfectim，is even better than its Amber parent．This in saying a great leal tor a sripe，and is alnut the same as sayme． fir our taste，that it is the best of all native may low pertiect． The clusters are loose，and every berry |
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Rovermisemenrs

Marlboro $\qquad$ BMOMER \＆BOsCIIERT PIRESS



## BULBS！BULBS！ ALSO SEEDS FOR FALL SOWING <br> And Plants for Winter Blooming．

 pricu－lint FREE．a．e．spaloing，ainsworth，Iowa．TUCKAHOE NURSERY AND FRUIT FARM，


PEACH TREES．We fact TRADE

 quanity matur tominera Peachacent fathered ex DAVID BAIED \＆SON．Manulapau．N．f．

40


PEAR AND OTHER TREES． NEW BERRIES（PRLLEFS may KING STRAMBERPRY．
Marlboro Raspberry． EARLY CLUSTER BLACKBERRY，

## NEW STRAWBERRIES． <br> JAMIES VICIE FINCIIS＇PIROLIFIC．HANCIIEATEIR，JER－ SEY CVEFN，AND PHEDO． <br> －GEO．L，MILLER，Ridgewood Nurseries，



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## PEACH TREES

 HANSELENHETM， SMALL FRUITS

Emhracing allvariefis：aten



## Rifin Mcill CHESTER WHITE PIGS

##  GRAPL

$\$ 39$ dew whek selling my Watches．Nocionss


S．W．STERRETT，Barnitz，Pa．


## BLUEBERRY，



## TREE SEEDS AND SEEDLINGS．

## GRAPE vines and SMALL froits．




THE LARGEST EARIY PEAR Rupening in Ceatral New York eariy In

earn dARHY Mrawberries． MAKLAURO Ranpbrritos，nid dRAPEA．

OUR $\qquad$ LOMEP GARDEN.

Wowher is the very hoct munth firf lianting yownor the bloming in the honse We have



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 non ene

 than in the carten, lint heit when seen in bold mater. Thi culture of the Rammenlus is generally converew ownewhat difticult, though it simple if a few ewential barticnbars are olnis loma, themblhy mixel with a thirit of its
 ation shand be ipen, hut not expensed. The prepareil scil should occury alout fitteen inches in luth of the luet, and hanlu he put in a mouther on before phanting. This take glare tuwat har en? of Fornary "r begmine of



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franted in sumly ain :anl

 faetury for this purpme. They will allo, flower Irell in uranes of water, lik "the lyat

## Mo

These are very prety bullo, usphat of the tily family, all of the easiat colture and flewerny in spring and early numur. Ther can lu. 1 danted
out in the garden where they widd din very niedy, or be grown as window plants in pott or hoxcio: loam, and are satily multiplioll le separation it the honlhsevery thre years. M. Botryines ie a well-know and heservedly farorite linh, whiph teeth on its bhe globoseclusters. It grows ahont

nine indle in hericht, and is therefore wery cuitat hime fur a trom lint in a luriler. The varietien lallidmand andman are wery distmet and wem more

 rowny onc fint or mane in height; its tlower,

Commenly knewn as Antumb rompar The
 phrple chlor and riw two ir the iuchatane the curfare, in chatere of almout ix. It flowers

 lase Lilac, striped with white; lallidme pala. rave ; Allum, pure white : and Atropurpuremu, 4explourn.
Is a mant divemet and mathiful phat, Hifincuithed readily tromany ut the foregoing hy the

 and ite foliage in -prins. . 11 the conchicums Tre well witpol fur apprpriate haces in the row

 mmmer, here they will fuxuriate and enjog the autum, winter, and early vringrains.
 and require tratment mider glas, then charmos they ousht to low. They yould an atommanct forioht bloon in summer for cuttine. For cul
 pughy lramell, ant with a due sumblatact, llant from Seprember to January at a depth "

 arepre froms, and this nosy be acemmplishent ly






 Tarkinh, and laxench. Eiach of these represent
 Mant. are unn mpo.d fir variety and richness

 not panter in worn "rember. For
 five-inh fort. Eut the pots in a cold frame or thar wond tination matil the rum are started, after whinh they maly le romenet at fleasure to Thare are mame billerent rariptios of Ane-

 Fulseth actarlat Wind Flawer, which in of the ficheot carlot, alld how from March wutil Hay. Xo have fring thwer can compere with


## Staniopea Octlata.

lighted up be bright um-hine, bemmes perfectly
 ral supply of manure juw werated with the mil. which -hould he mulohed with statne manner hefore frost sets in. The flowers of $O$. Fuleens win he found to expand leantifully in water, and lant fira wepk or more it abt whin jut comine into brogin and kept in a momerately wamm rown.


The Dotble Stwflower.
Winter Acorite (Eryunthes Myemulis.) A valuable small find, with yellow thowers,
surrounded by a whorl of shining treen lividea leares, and a short hackiwh phulerurnum stom resembling a tuber; three to eirlit inche high: dowerins from, January to llarels. It grows in grass, and is wry beantiful when the flowers perp in early spring, looking like gollen huttons. A few roots scattered here and there, will som form
a earpet glowing into sheets of vellow in winter a earpet glowing into sheets of yellow in winter
ar spring. We iuay so chioy it withont giving it povitions suited for rarer and more fiastidions planto, or taking any tronble abont it

Tritelerd Uniflord
This is another bulbons pant that deserves more attention than has hitherto bern paill to it It is lelicately enhered, frec-flowerinur and hardy
The thers are of an iridecent white with blue. ish reflections, and marked on the outsinte through the midlle of the divisions with a virlet streak which is eontimed down the thlie. They open With the morning sum, are comspicuonsly heanti-
ful on brirht lays, and close in dull and sumbess ful on brirht lays, and cluse in dull and sunkess Seilla sitheriea, and remain during the bast days of April still in effective bloom, when the vivid blue of the Aquil has heen long replaced by ureen leaves. It fowers profinely in pots, and will forer boldly in the most nufarorable position. There are several forma which ditler in the slatle of their flowers. For roekwork borders or edseing they may well lee recommenderl. When glanted for house culture four or six lulbs may
with some sam!, and this may be done during autumn, keeling then first in an phace. pant them an the open promm. The huble are very cheap and cat thereme lee bochared in

## Of all the known quecie=of tulip this is fortape

 the most showe ant devirable as a carden plant. It blowms fretely in April or May, it- laren gothleshapat Howera heine gonerally of a vivir how flowned forms. The lallos arrene atremely hardy that they will withatame with inmpuity freseine and thatwing, and eren whon the bave are half-rewn they wiil endure a temprature a is as zero witmat amy pation. The plam nine to tiftem inelom, and bearine thewers from four to six inches in diameter, when folly ex panded; and three or far lance-4hapel glatent ur chocolate hrown. Varieties onedr witheint spots; ambuthors with yelhow and sumbess thowers. It grows freety in any lisht rich suil in an "pati
 not fail to get at least a halt doan hulbs.

## 

In the neishburhome of Phaladiphia, sunduw. ers have hern yrown this yar in enamons quantities, and went plant they are of mach valut, the ir
 le quite lowt. The laren doulde variptw, of whitl we sive an illuntration, is expenably desirable ant growing neer five foet in hooisht, ind prombe ing dozens of flowers on a plant.

## 

Thes spectes haveren rise to ateatitul rat

 ruild, it will live for two or three years. The rarieties looth single and domble
numernus and heautifit ; the
 forms of lleddewisi, the lamme variety, are dwarf and very haddome, while thers are alo liadematus which are bury doulde and larme The laninaterd seotion have the petale very feeply cut into fint frinu", and of thic clans there art with very little ur no lentom licat; wive air freely during bpen wather and phat cout in April in well cultivated suil, wheh nexel not he rioh Place the funte from nine to twelve inches apart tach way and they will form compact tuts which will her cowern with hlesemas.

This is the mont curinus of trehids amd one wasy to mande. It is alway grown in haskets
through the bothom of wheli the fower stem will
 some kind of an animal the color is creany waite, opoted with widet erimon. The fragrane of the thowerw is sostrons that some people call it sickening. lieing of the easewt culture, we would recommond it to thase wha love rare flowers. something that ceryloudy has not.

## Dicentia.

There are about half a dozen cultirateri specie "wheh the following are the finest:-
Dicentra Chrysantha. A fine plant, forming a Grealing tuit of clacou* rigid forlage, from which arises a stiff leaty stom, threa fiet to fom

WILD FLOWERS, For fortivation EDWARD CILLETTE, southwich, Mun.
NIGHT-BLOOMING CEREUS.
Our offer of this altractive plant in July has attracteol Hapir semp math fine pant of Night Btoom
 FARM ANII (AIRDEX, I'tilndelphia, d'a

## CACTI <br> Rare ind EXAN MEXICAN <br> PLANTS Andereman memer

 of dellghed Xorthern custamera Free Th youm in wit

TROUPENURSERIES, TROUPE,TEXAS.

The FLORAL WORLD


It sureerela hout in warm, lisht, rioh soila, in
 yatespring front.. There is a "white" varity, hy momen momunental, now oftered by a worth urowing
 ill hecured at wry low foures, and nothme保

## Thitusid dufes

Thongl nsually erown as a greenhouse phant, it is a valuable "len air flower. The humbs as moscible. Thpy are nut antirely harly aud therefore require a smond protection. The brilliant color of the flowers make them rery desirable.

On the npmoite page wo present a small wat of this heantiful warlian camplant, to show its habit of growth. We have deseribeti it before.

Is alwara welenme in winter. Few preptipknote how realily plants tan ke forced into bown by 'luristmas or Sew lear Look over our fomer HARDY PLANTS AND BULBS,

VTOOISOIV \& CO.

smpern inhastaten sl.0n monthr free 1 ypar to



## Foliage plants CREENHOUSE PLANTS, <br> BEDDING PLANTS.

GTALOGUE MAILED ON APPIICATION. DAVID FERGUSSON \& SONS.

Ridge and Lehigh Avenues, Phladetphia, Pa

LIVE STOGK

## FEEDING SWINE

The ye:arly shanghter of hoge in the Thiterl


 yery liey mothok and thane ouly farly gond, A elame at the rewipte noted in the marker
 Marelo, imelanive. This in hurance it is most eom
 and for the packer to hiapuse of, the hore at thim ther Aml white summer packing is makine rape fall and waty winter, that I Aball comsider



 are known ac" "the fall raine," whoh, thourh not heary fall moshaly and find the genand in auch wondition that they make a creat mas. Io mot whe farmer int ten hat a fowding flome of atry increased by the manore of the how and thoir
 142.000 Majarity. - lomt. Ifter the hoom have lome After the hogn have
hand fell all they will att (the wommen practioe in fattening) for : "romple at weeks, they homons sated that minere. it is lowt. I have world here fed matar at than When fully hald of the fend wa lest. Not whly cibematatiees is sure to immair their health and wancor forther low.

Cho eakiat way (as make profitalno pork is t"
 No, fimmation ot any wert is med. This in apder and they 小i ant ruf fatare than when late "h


 quickly, and the barak are at
some saly that it in better top pat the bormencer the hoge than muler thom, and in whan "anol am sure it is. "The grmand under an shed will wom
become so harl and smonth that no srain will ho lost, and it can la kept chan as anily an a band Howr, while the how hase the absantage of at shelter from rain and smow while emting a and
 gasty. furpe : and a shed of atraw or aty wher muhstance that will shed rain and sumw is just as good as baris, and often much lase expensive

The prodits may be farther incerased by saving the manure. It is estinated that as hogs are generally fed by farmers while fattening, chle boshal, or fifty-six phomls of corn, makes ton poands of pork, From my "xperine and observation 1 know that this is a liberal allowance of only teo pounds of matter away in its body, must void forty six punds tor every hashe of corn consmod. It the farmer will make a little caleulation on this basis, he will be surprised, I am sure, at the amount of manure he can save if he will. In the case of hogs, a litle more that
half of the manure he weight is liquid: and in nine cases out of ten thin is wasted in tolo.

Fortonately, hags always have a particolar place in which to depmit their vaidings. Adrantage ean he taken of this. If ther are eonflmed in a pen with a tight flow (and the floor should be tight), the liguid mamore can easily be drained into the compost heap, for it will be deposited, like the solid exerment in one corner. ally the ease in the woat purk producing states, as soon as they hate selected the spot for their
droppings it can lo liftered with straw, which will absorb most of the urine. But little straw should be used, and it should he ehanged every the better. In this way the solin and jiguial
 tengether. lt the hars are provided with comat tahb, sheltered secping quatrer, they will mot lie ma the stratw or sabduat, which would prove

1 ann edearly monvincel that hoge are best fat
in the lall or wen in the carly wintor. As long ath the wather is platiant thay wand be fed in a

 will her loft up, in the fiedes. There mant be shet tured a dumed of straw or womething elat, to feed under in had weathe
A curvermmant of a western agricultural
 an manedthy form and perse the emomy of the






Tho hoalth uf amimal dematho a variitl this wa. Feed wrn, hat alon other food. Lat mern be the prine ins ingeediant of the ration, hat not the only ane. Turnipe are a comblentitute for
 known with "orn ind other eration drow of hagn to be fattend an haided thrnipand whon mal. The throipe must ho lexilal fot or of math value : hag will mot "at
 amble of later iran kuthex are pham now the


 Whomeh there is mot mond sutriment or tat cimely to ernw then to man with the finef of tate whint hata ('urn, "armially if olld. has an loumbiln are
 I nequ hardly remind the roshor that tho lant
 what purt

## Sheep on enclosed areas

Shwo will hot har contimement, which makn






 nables tarmare to hurdlo -hem profitably. lit Vided they will domendet atrae that cat he rasily remineal, or mate in woh manmor an ter he
 f:ll or hatior part of summer, after the ammal drought is wrer, shem may lac hurded upwit until the culd naann is well adramad. A later rop of ree may ano be put down far parly armg fined within limit+al areas unil the frowited masturage is gome. To the sping the early rye will keep the sheep well provided until a crop of pras are grown. Then, by waing Hungarian grase and kerping it down with the nheep ly the
of hurdec, a complete and plentiful pasture may he provided from early sping intil late m the seasom. (If comrse, durines the winter the sheep mat be fed, but they will do well on eut traw and sliced ronts, if given a small quantity of mats nisht and morning
ly thas hurdling the sheep the grass has a chance to grow on the locations not pastured and hy fremently changing them the fiom is of a better quidity, while less land is required for the amment af woul and mitton promenetd, to say nothing of the fact that the sheer will alwas be under observation, and therefore proteeted from
dogs. A movable shelter may le given them if necesary, bont during the Marm season, if the
 the gutera for shate. Whenharding shope from the mutton hrects rather than from those hred prineipally fur woul.

## STOCK NOTES

Cleanisg the stables Ayi Pens.-A plenaftal we of compont, in the shate of man, ary lirt. or sorl, will mot only prevent final idore perye ele notter quality, bat it will sace labor at the time of :1phlication, "th say mothing of the health of the ammals being promated.
Conken Foon for llogs.-An excellent mess or hose may be prepard ly cotting choser, beet "the eablage leaver, or young yrass, and builing meal, not mbly will the fencl be vory mutritions, lietary, and highly relished, but will cost very little.
 dhawance of corn meal at leant bure a day from anw until spring, in orther that they mat not be
 aldangh the voune ctack mas le well provided ith haty enf grain, vet the neal shonlal not ly mitted. (Gats are hest fed when gromal, and the haty shand be "ut and mastement
Fisitis Leambe-This is not the month for arly lamba, lat it is not tow somb for loreding he ewes, whold any rome in, as the earlier the octar. Berfore detamining to allow the "wes to
 Aropold during the mast critical period of the inter. The high priow for early lamls, how
 ars makerox cellent fornd for homes, but an some farmare awins to proure of work on ather
 (1) the when pertating tha sed, rembering the talks hare and womly. The ned are not easis ierstible, and mometimes mat into halk, catwing drath. Humsarian eras whinh has been fre monty mowesl, howerer, and not allowed to
 thonsh as prolific ath thone that are smaller Clally smother me-half, if wot all, wf the litter Indirte the fies are alde to kerp mat of the way I lanard is no pratedian for the first two or three hays. If tha litter is a valnalil. one the laterer Han in bhace an atmodant wake them awas after they have fell, beeping them in a warm flater Thay may be returmed to the son erer
 will he strang anomsh toj rotect themselves
Fali, colts.-Dlares hird in the fall will enAner gand servict withont injury, and the foal, leingelrophed in the tall allat, will be old enough y spmat to allow of heing exparated from the lam when the luse wanoll arrivek. Colts will "at erain when abuit two monthend, and may be turned on the pasture wheo six monthe old provided grain is allowed them at night. Fall colts, hawerer, will he ingured in growth if not provided with gond warm quarters ill winterDuring the day an pren shed facing the south with a large vard for exercise, will be found an advantag
The chapacity of the Chider.-It is not the large whder that indieates the guantity of milk hat may he experted, as there are many cows with miders which are apparently large, but omposed of thick shin, and are decepure in form. The udder shonld be soft and retvety, with pominent reins, and milk ducts extedding well forward, while the teats shenld stand well apart, be bniform in size, and well shaped. The apmety dows not depend so moch upon the size as upon the shape, and if the cow is a good feeder, yields largety, and is milked regularly, there need be no fear of over-distension of the udiler, as nature has adapted it to suit the requirements.

## бHE DOULTRY GARD.

## diseases at this season

There arw but few chicks hatched durime this month, as a rille, and consequently wo yards are trubled with gapes ; wor is the cholera sorevalent as during the smmer months. The romp, however, is with us all the year, and expecially during the fall months. of course, where fow are well fed and honsed, they are meither so
mueh subject to the disease nor ton enfiehled to overcome it, hat nevertheless the roup often exists, noknown the poultryman. l'o detect its presence, wo into the hen house after the finsls are on the rowst, with a candle or limutum the light, and wherve it any of thom are hrathines hoarsely. The dinagreable owlor from rompy
fowls is also wily anticeable. A sick fowl will fowls is alswnily noticeable. A sick fowl will
show a disclaner from the mostrils, and if the throat is sore the beak will be "proll. The aromb will also appear pale or blark. Take the sick fowl and phace it in at warm location, and give a sponatil of castor ail. The next morning erive two drope eath of tincture of iron, tincture of red pepper, first mixing with it a small pinch uf sulphur and assafeteda. IRepeat this morning and night until the fowl is better, washing the nostrils also with a dilute solution of copperas.

## the poultry house.

If the ponltry house has been well ventilated with large eracks, the time hat arrived for clowng
them and remering the interior as warm is pos. sible. On damplays, which are more tryine to fowls than culal weather, there shombly be plenty of light admittel, as fiowls detest a larts and glowny place, prefrring to remain outsite rather than stay where it is mot chereful. The nests shoulal be so arranged as to permit of heine vasily removed and 'heaned, and the rumets shmuld aill be of the same height. The ofl-fiahomed manner of arranging the ronsts in the shape of steps with the back higher than the fromt, dons not ac commendete the fowls, as emp one will chaterom to get on the highest perohec, thorshy crowiling each other off; eausiny falle and loseand feet. The first consideration is to maki the conps ing
and warm. A cement tlom is better than ans: thing else, as it can buswopt ont, amb arrance ments shontd be math for ravily feeding and watering the fowls in cold weather withont anm pelling them to come ontside. It is not moreesary to haind an expensive comp, hat it should have al
goom ronf and a dry flow, with no chances for goom ronf and a

## LAYING in october.

We know of a brectior whe kieps a flock of pure White Leghorns, and although the loresel is not famons for winter laying, yet he has mement, since the tirst of last Janumery to the first of October, nearly twelve dazen of wers from each lock, the besi recorls: being in the monthe of January, Felmaary, and March (three very cold months). Ilis hene are on better than thise of
his neighbors, but he feeds for eggs. He has always manared to got phonty of egys in winter, even when eges were scarce, and his secret is only that which we have malle known many fimes here. It is to allow plenty of meat, vegetables, and puonded bones, with wotrm guatrers, which should be kept clean. He once received sixty cents a dozen for eggs, during season when they were scaree, and stated that be fomm a profit m feeding his hens at that time on we would not advise such expensive food, yet we are satisfied that a cheaper form of meat would more than repay its cost when fed to poultry in winter. 1t should be accompanied, however with other food of a desirahle quality, and as every condition must be gond, strict attention should be given to all the details.

## showing at the poultry fairs.

As some of our readers may wish to enter into competition at the poultry shows, we will endeavor to post them a little in order that they may be able to select the proper fowls for exhibition, and will also outline the method of judging the fowls: Suppose yon have some particular breed, the Light Brahmas for instance (though the same course is pursord with all breeds), the judge will first examine the head, in orter to observe if the plumage is white and the beak yellow. Then the comb, will be noticed, and if it is not pea-shaped and even, with a bright rell "olor, he will cut it a point or so. This is called "scoring." He then examines the watles, ear-
lobes, neek, back, sadille feathers, breast, body, wings, tail, Huff, legs, and toes. Ile will require
the colurs of each particular part to be what are requirel in a pare hred fowl, not omitting the
heeary featherine of the leme. When he is lume leaty feathering of the leese. When he is thate he may have cut (or deprived) the then an a cere tain number of peints from the possible f(n) per hous total, sives the sorre at ede juints. Thas when hirwh are "xhibited, the priza are nom awarded to the laresest or stronest, but to those that sense the higheot number of points.
We have, fron time to time, given descriptions of the broedx in these collumas, and trust oner friende have imprew their oppertunites. What we wish tomprem num them in the alvantase of exhibiting at poltry shows. A heximer may mot be able to take inamy prizes, hat he will
 hofects exint alld what chanese in breediue best. If not fatorahle to exhibitine fowlo, $l^{\text {ras }}$ a visit to the shows and make close ohservation. but the mest information is leriveld when the Visitur is an exhibitor, as then the greater interes is taken, riperially in the lreed to whioh the attention of the vinitor has been bestowed. In
 attained, and more can be gaberl hy in-pertion than hy study. It would be well if every breeder eould be an exhibitor.

## EGG FOOD AND CONDITION POWDERS

Notunic or condition frowler fusustes value in the matter of foring ege probuctin, unless deficiener in the natural find of the fow wh a mat to he implem that natume fond is lacking in quality, bat as we, in our julgnomt, allow them that which we suppose tu le mos matural, wam otten "cour, even wh the part of thowe who are experiemed. Thnise are insigurating, becanse
they are stimulation, hat if the riving of tonices is int followed by al fill supply of all that tha
 tated than before receiving toniex. The hat tonic is tincture of "hlamide of from, or a montion
 iner thas addat the lonit to the drinkine water it
 provering diserase
Eese dienls are compmods romioned of thense
 the materials that serve to make an erere. They
 and corthen (for the yolk). Wi" "an furnish lim in two firms-from ground "gister shells
eromon bune. The first is carlmbite nf lime, and the sectom phosphate of lime. The principal comstiturnt of albumen is nitrogen, whin maty the derived from lean meat, milk, linmed meal, and many of the graim. C'arbon is flutiful in the grains, and execially in com. Nearly ald the substances named, however, contain proper tions of nitroges, lime, and carlom. 'To ambline an egg forol and condition lwwide, therfore, we
 meat, and ground oyster shells. Then alld half bound of linsurd meal, whequarter pond of sulpur, one-guarte piond of cornerece, abd an
 pomm of salt may also be added. Here we have
tive pmonds of mot very expensive articles, whieh are stmanating, melgorating, and nomrishing, twasponfal to each hen every other day being sutficient. A betur mixture :nay be given, but more expronsive. The five phonds mentioned Wove should not cost wer free cents a phand. With warm quarters, and regular feeding, the alowe, with the use of the tonic, will induce the
hens to lay, and is equal if not better, than hens to lay, and is equal, if not better, than many compounds wild at a high rate.

## POULTRY SCRATCHINGS.

Milk tor Orink.-If pleuty of skim milk or buttermilk be placed where the hens can get it there will be no
necessity for allowing water, and it will assist materially in increasing the number of egys.
Adyantages of Coal Tar. - A quart of coal tirr in half a barrel of water should always be kept on hand. Stir it op well, and sprinkle the water wer the thons of the eoops or agalnst the sides, and it will kill lice and purify the coop.

Use Wholesome Grain. -A busbel of good, monuld whean is hetter than a two bushels of screenings. Musty grain, then when eggs are desirnd the pure wheat and natured corn is better than a surleit of inferior grain.

Changing feed. - If fowls are $\left.k{ }^{2}\right]$ on a single diet they ill out always actept at hew kibe to whibh they are bot acoustomed. They should then be deprived of all ther food until they eat up that which was placed be fore them, when they will afterwards show noobjection, but eat the new as well as the old.






 able to the liee shmuld they aldear.


 Whend plated betore them, the best plan lo purstae on 10 hlow thron mothing else. Ilumger will milatt theme
 11"al atherwarda.

The Incubators. - As progress is bermg mate in every Howthot, artherat hatching has progitoned at a rapm
 aty atr forlag owersme. The that sill atrive whery

 Jarseby le: hatilled.
Utilizing Old Fruit Cans.-IBy couttius an whl fruit can int


 wherf tha fowls may at letart eat what they demite from thems. It they are trimmod off at hie top, a horlt



The Breeds of Duck. - There we ten vinutath recog





 offarions is mernle. The others are more monamental 1 hath undful.
Fences. - Fondes are more exjensive than coops, and


 but prophly thate. la a lormor artiole we suggestat
 at the foblom and full-length whes at the top. ExperiThe dorme the past vear temonsirates that a tence so *omirnolod is sery durable und cheap, compared with

Breeding Dorkiags.-In Eneland no fuwl is as himhly appreciated as the Ihorking, wheh, like the Homdan, has fiyt bats. It is a very rompactly built, time boned fons thoumb hol su mach at lavorite here as in England.
 White. The siluergray maty have fither a rose or simate conb, the ('olured has a single combl, while the White hats u rose comb. The Colornd I orkings, when crossud on Dark Rrahom hoons, produce the largest abs lent "apons, and they are also used dor kiving (ompact arse of form no other breedas.

Games. - I'it Games are difterent from those bred for batuty, bollg etronger, harger, atmi more vagurous. In breeding games for the table the Pit ganes should Horefore the peferred, as the cocks ast savagr. and quickly attat hanks, while the bens make the most cureful of mothers. Plt Games tre not phre brat fonvis. In one kethse, as they are sommetimes promuced by erossing several bretdo of games legether, but no block that kame is prrmitied. A liame cock crossed on Parninge Cochin hous produces an excellent fowl, one that is hardy and large, and which is splendid tor the table.

Turkeyz. - The twa largest breeds are the Bronze and. Naragansett. Tha former is of a dark bronze color, with a lustre approaching gold, whith dark or fiesh-colwred legs. The Narragansett is of a metallic black plumage, with sabmoncolored legs. No adolt gobbler of either variety shonld weigh less than 25 pounds, and the bens should exreed 15 proniss. These weights, howften reach 40 pounds in welght. October is the berst. ime for selectiog the gubbler, an the prices will soun beligher. One gobbler will be sumeient for at least four hens, and sometimes more

Partidge Cochina. - We have the pea comb and simgle comblitrtridge Cochins, but the latter is the more popuLur. The plumage of the cork is very different from that of the hen. The cock is bright red in mumage, the breast being a rich demp black. The hen is brown, and distinctly penciled wilh a darker brown. The flesh and regs are yellow, and hurey feallafring runs down the shanks to the end of the outer tow. The Cochin fambly are noted for possessing large, heavy, compact botits, and hardy conslitutions. Thaty make admirable cronses wheo the hans an matal with either Giante or Brown 1, aghoras. As they feather slowly they are wat fery atractuve in appearathe nutil mearly six monthm wh aud then they are as handsome as may be desired.

## бHE ЂOUSEHOLD.

## BETTER THAN FANCY WGRE.

I haver never tlone any of the so richtly-mamed


 kitlebiosechme fur a few minates brimes mot to my

 fanlorethins, will, 1 ath afrimd, be romandal to the earret, it few yetry from hond, what the era\% to pay the smallent retturns in beaty'y for the
 Perhape if mir yount lation whindeive mure time be heathirer in minind aum hondy and I kniww the would he ten-fold happier. If only ammenemp fanhion tarten, it wruld en of itelf, Any thins can beat crazy patila-wart, thanta even that i Expedially is tlower colture acoull work for tha little girls, and at vince or a shruh that grow

 spot, komothing that bant lav a joy amd a llase Hothere in allere va:ar
forwatrd to purchase, mothine will t to yout all, or enlance its value ak prophr than these little improvamonte of your jreminn
 peeplef live on year atter year.


## A NEW SOALE.

Among new inventions for dusel cepres the Porfection Seale manufin tured hr the Amurican Machine Company, Phila delphia. The special claims for the seale are the self-acting weithts, which enable, you to weirs accurately without giving down wedght, and are never 1
them.
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THE FARM AND GARDEN RECIPES
 meal half "up of tontr, half enp of monanes, hatif
 salt. Eake quinckly nutil it lails, then stowly fir three houre. shovild be like whet when dithed
 matal, 1 cup uf thur, quarter cup of sugar, 1 Hes. 1 wif of milk, 1 heaping teaspouful of baking powder, a little salt.
boconstes.- limat first 2 pags, ame then add
 with flour and roll thin.



 winm, or a little vinesar. the surat of umews. Pake in quick oven. Whirtecske-Grem, 1 pup cuzar amd half
 furr
$\square$ arn Ho or Jelly wake. I niee recipe for chowedat tilling it- White of 1 we. 1 rap usar 3 tea
$\qquad$ duanwo. half cup wur milk for - wout with
 at !"rk
 tir the whald wentlv to equalize the pwrinas

Lo, af Cakz-Thow mpo of four 1 ? cup.

 Thaters of : "up of we-water, salt.



 Galf eup of larl, I teatounntal soda, diowlsen in eacm, boiling water, tahlownonful gimer, valt, iftel flome emoneh to thicken. (annot here chlol cither fir grombess or economy.
 1t pint of flome, it teaumonful bakiner lwower, 1

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## 

## SOMETHING UNEXPECTED

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NATIONAL WOOL-GROWERS' QUARTERLY, PITTSBURG, Pa.
'HEAP liLaCK PaINT.-Take equal portions of phat vamioh in whioh has heen mixed a small pantity of spirit uf tur]entine) and vintear athind mor* of coal ail, mix with some the Mーinteno! of jaint.

 melted land, put thi in the cup with the eese, fill np, with sucar, (eramalatal is hest), 1 teaspoonful bakine forwler, mix stitl and rall thin.

FRENCH \$ltstarn.-slice an onion in a botel


 nilmataril enounh tor thicken, set on stove until


Viseraferes.-stir a pint of hot watpr on the
 "ram in matw, adla atho of sustar, half eup of hiok lastu of Homr and witer, 1 tablespontul of ratur bul ibto a ride erust und bake. Then hoat tha whifes to a stifl froth,
in with half eup of susar, spram on top of pies


 roll thin. ('int in remnd prewo and try in hot lami. Fill the vahes with jelly or preserves.
 Ahar, adh a littla whlr. roll thin, ent in marmow -ifs, throw in luilinerwatro, and hoil imimutes. hut with huttor. hlack pryper, amd hard

 ator", amal wash the hair thornarlaly twiee a




 at with sance, froit or flain sugar.

Poreteneen-ime fint bottle best porters, $\boldsymbol{2}^{2}$ lawn falt* shorry, 1 lamm, preled and sliced, half pint ioe-water, bor sombloat sugtr, half erated nutmes. pannded iee. This mixture has Theen used witincturily hy insalids for whom the pure porter was tom heary, causiner biliousness athd learthara.

 half a teappubfinl ot wola, half a teaculp full of milk, a little hramly, mul a e̛t! of ratsins.
WEAN CIKE.-OM, Cup uf milk, 2 eups of Ear, half a elle of hatter, the whitex of 5 egg,

 chp of butter. 1 :12] at mulases, half cup of mat? cofler, 2 tealspomfuls ot soma, 1 teasjmonful


FOR SICK HOGS AND POULTRY

## AGENTS WANTED

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## OdDs And Gnds.

## THINK FOR YOURSELF.

## By Jif. D. Berryhill, Wushturn. Mo.

In the Fabmand Garden, and among other articles of gowl hiterature, 1 timl many useful and anteresting essays of yarious kinds, by ditterent rathors, some of which have cansed me to think mure profoundly than any thing else with which I Jave met. Dy dear reader, you may be pong, and have not had time to think minch, or have had some one to think for yon, lint knowime that you will not always have this, my ohjeet is to start yon to think for yourself, siclecting your mbects, and laying your phans to acompilish them. True, you are here, and must go through life somebow ; but there is a better and easion way than that.

The turtle climbs uron the floating loge, and sems to ride very pleasimbly down the river, he dues not know, nim dows he semen to care, where he is going." Althoush many men s. through
life in this way, it sems to me rather an aimbon and unuanly voyage, it may do for turtles, but it is surely not hest for meth. I'sfalness, ehar arter, knowledge, a gond conscience, and a good name, are not accidents, they are bom of homest Pfint. If you have your mind on any, or all ot these, Fou must he up and dring, you hate ons
time to lose. If your eiramstantes ane of shath nature that your fiture prospects Jomme blighted, be not diseonragen, but think out other pans, and emdeavor the excoute them ; this is manly but to spend all your yome liti in shothfin and thoushtless indolence, and at the same time hope for the fruite of wedl directedeftort, is worse than absurdity and foolishmes; this is the blossom ot finture discontent and wreteloedness, and will not fial to "yied its full harvest in due season."

## ORIGIN OF THE TURKS.

Like Romolus, the fisumber wh that martial people was preserved by a she wolf, and the repTurke, surgevted the inda of a falble which was invented withont any motnal interromre, hy the shepherds of Latiun and those of Ser thia. It the equal distance of two thonamal miles from the Cappian, the loy, the Chinese, and the Bongal seas, a ridue of manntains is conspicums, the eentre and perhajs the summit of Asia, which, 10 the languag of difterent hations, has heen stylen Iuane, Caf, Altai, the Cobluen Mombtains, and the Girdle of the larth. Accorling to the relicions philosophy ot the Mahommerlans, the basis of Mt. Caf is an emerall whove reflection produces the azure of the sky, and the momitain is endowed with a sensitive action in its roots or nerve, ans their vabiation, at the commam of
God, is the eanse of airthquakes.
The sides of the hills were productive of min-
rals, and the iron formes for the purpose of war,
 purtion of the slaves of the great Khan Geongen. But their servitude comblaly last untila leader, bohl and elogutent, should arise to jersuade his combtromen that the same arms which they forsed for their masters might become, in their own hands, instruments of freedom and victury,
Ther sallind from the momotain. I sceptre tra- the reward of his advice, and the ammal ceremony in which a picee of iron was hoated in the fire, and a smith's hanmer was successively hamed by the prine and his nobles, recomed of the Turish nation. Bertezena, their first bealer, signalized their valor and his own in successful enmbats against the neighboring tribes, but when he presumed to ask morriage the af a slave and mechanic was contomptously re. fected. The disgrace was expliated by a more noble alliance with a prinecss of china, and the derisive battle whichalmost extirpated the nation of the Geongen, established in Tartary the new
and more powertul empire of the Turks. Gibhom

## trees of ceylon.

For sixty miles along the shore of Ceylon there are emammon groves, and the sweet scent may be percoivel far off upon the seas. The cimamon tres are never allowed to grow tall,
becane it is only the muer loranches whith are math prized for their bark. The little chitdren of Ceylon may often be seen cutting in the shade, peeling off the bark with their knives. There are allso groves of cocoanut trees on the shores of Ceylon. A few of these trees are a dittle furtunc honse with the whol, roof it with the leaves make cups of the shell, and nse the oil of the
kproel instemb of cambles, The lack tre temars a froit as large as a hove's hand. This larese truit does not hames on the tree by a stalk. lon The outsile of the frat is like a horst , whestant, green and prickly, the inside is vellow, and i
full of kernels, like beans, The wowl is lik maderany-hart and hambome. Fut there in tree in (eylonstill more curnome than the find tree. It is the Talpot trex. Thin in a very tall ree, and its top in comord by a clater of romm cones, each leaf su large that it womld do for a ammon sized rom, and one cindtataf, cut in ut up the leaves are used for fans and lanok. Thin tree hears no fruit until just before it dies hat is until it is fifty yeare oll, then an com mons bol is reen raising its huse head in tha milst of the crown of leaves. The bul horet with a lomd moise, and a yollow fower apmarsa thwar on large that it whuld fill a remon. The lower turns into fruit, and the same year tho tree dies.

## THE GREAT WALL OF CHINA.

It was with a viow of semoring his Empir Eainat future atacks from varion furmidabl trilow, that chewarte (E. C. $21+1$, momertom) the completion of this great wall, a superman
 haman lalor in other conntrita and uron whind twanty centurits have exarted bot litule ettore The laresest of the pramile of Egyt contain lout a small protion of the mater in thi wall, the suld econtente uf which, nat implading the prow jowting mase of stone and hriek, which contains as much masonry as all London; are suppeomed to "xceed in halk the material of all the dwellins hames in lingland and siotland. The vantme
 rine that it is mow than sufticient to surnan the "irematirenee of the Earth on two of its eir. rlas, with two walls, eath six teet high and two some of the peoty prineos in the north, to exclude the barlarians from their states. Thar bemperar

 curvey the walls huilt he then prineps to com plete the mion, emb to emonne this ere bit birrier from Kat-yuh-kivan to the plape where at a sub soguent prion Wing-hal-how was bilt, fro the humdred mils, over deal valler s, and momataion of great devation. Enormas nambers of men, ome say millions, being a third of the inhabitant of a certainage, wore millactul.

## the coast survex

The real work of the Coast surver commencen
 hampered and embarassed continually be limited Wprepriations. Ilis "parations wap mot of a character "asily sern ; Consres womered contin tising methuly amd training ascistants, congres was shrugging its shonders and elamoring be ause results were inadequate to the expembiture Hasslar was an cecentric man, of iracible dispo sition and great indepenlenere of character. On one oecavion a eommittee from Congress waiten ame to 'spect my rork, eh? Yat you know bout my vork? Vat you going to 'spect"," The wenthmen, conscions of their ighorance, trieal to smooth his ruftied temper ly an explanation, which only made matters worse. "You knows speet my vork yere you knows noting? fet out of here; you in my var ; concress he nome his yool to semi yom t"speet my vork. I 'ave no time to vaste vith such as knows motime vat lam bout. Tro baek to Coneress and tell lem vat I say." The eommittee did "go back to Comgress," of their inspecting interview.

## KHARUB PODS.

The husks upon which the Proligal Son, fed are not, as the American reader is apt in imagine the husk of maize, that is, of ladian enom. They are the fruit of the Kharuh tree, and are, from their shape, called, in the Greek, lithe horns. From the popalar notion that they were the foond of John the Baptiot, they are called St. John' bread. Dr. Thomson descrihes them as Heshy pois, somewhat like those of the homey locnst ree, from six to ten inthes lons, and me broad, med inside with a gelatinous substance, uot wholly unpeasant to the taste when thoroughty
ripe. I have seen large orchards of the Kharub in Cyprus, where it is still the food which the swine do eat.

Whan Mutu- was men tw wear a sorrowful villin+hance, jr wan vail: "Either some groat (w) anthor." bithar etform him in the same Uay. Il, was but alone on bering this ferling he did bont. It is curprivine to what small mean.
 noseme. A fung whan rentend a honve, with loe abligen for lowe it. Iler little sarlen was frowing well what the place was onld. She hat Ho datrel with there wh, bousht it, hat forthwith she fowerded to foll up all the erawing thinge in her caran, dewtroving it as far as

 misht rand the frat of lar labors. wen if she rind nut. $\because$ it mindit min lee a tutal luss, whe would have labored apen that as the romaing calamity. Chat a hese- Clevend and unad-


 Hot tully expectines tu that the fruit whemense af alons an the tras semil, what a light fromt hareex wo should hate.
 man namot . Fnathan flabman, who went all thrmash sumbern ohin, in pioneer days, plantins apple nets, wherever he exnld timi anamprofriate -put, with a reanuable hop of them beine umbinarbed. Ile gathered him hat of seed at the cider mill in lemuryvania, and set ont wh an his travelo, he highwaysam ly-ways, and
 they emme to the resion. It was a trange homb, hut it fill in the line of a most useful acrevee to tellow men. lle acenired the name of dohnoy Appowed, hat ho was beloved and woldomed in lomian troated him with rexpect, anal songht to notioe his little trees, a facor for which he was alway delly amaful.

## KDVERTISEMENTS.

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wullam panay
 , PARRYP.

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## By a pecial arrangument with the pmblisher  

Octubre. Whan we see two graat pulitical parties willine, nay, anxious on "saye tha "ombtry,
we meed mot alamm: yet there is one ate
 feeling of alsuinte sowurity-the koenl senter of the farmer, the firmer who constitutes a majority of the voters.

Octolere indecen, is more a than of saving than

 bear in mint that the eromand their sation in w Mant awn man ha pur the wothotrys propprity
 compared with the former, will sink intornimini ficance. SThe beswing derived from hia mon efforts in this savine hainew romb home to every farmer; he e:m rewh and te.ll then with his hands; thome roultime from the sumawn fathere of one or the other of the pulitioal partios, ha" ran neither feel wor see. If we want light, let its strike a match, rather thatn try tor reach for the stars. Help tosave the comatry ly saving your own promutions and by turning them the best account.
Store photatses and row arop in collar, root house or pits. Every firmer abmald have a root house near his dwelling lanse and avoin storing large quantities of verretaliles right under the rooms usid by himand his fandy
Piek and harrel your aplles. There is hardly a better way to promere aptles sound and frob and of goxi thaver until sprines, than ly pittine them. Cover very lightly at first :mbleventilation at the top. Put on more seril as the weather gets eolder. A seconl wopering of four or six inehes of straw and a few inches of soil is far preferable to on of coarse harnyarl manure, safer, on account of the dead air pace, amed eer tain!y eleaner. Apples in pits Hecd less winter protection than potatoes.

Husk eorn in the fied when the weather permits. It is a saving of time. Kerp a few londis of shoeks in the barn or under a shed for a ruiny day.
Dran the corn-fodder and put it under shelter as soon as husked and dry enough. Jo not wait peated rains
peated rans.
Put your
Put your tools under shelter, paint the wood and oil the steel parts,
Examine yourstalks and tix them, if necessary, so they will shed water. The rany season i appreaching.
Thresh all erops as soon as possible and sell the surplus. Have granaries tigit.
Save mundessary suffering to your stock by
giving shelter in colld storms.
Save the fow of milk in your cows by liberal feeding.

Utilize warm fall weather. Hogs fatten quicker and with lesi grain at such time, while the heat, in coll weather, has to be supplied by a larger allowance of corn.

Corn, burnt or scorched on the eoh, and fed liberally to hogs, is a sure preventive as well as remedy fur the cholera. It is also good for laying fowls or fatteniug turkeys.

Save fewl by setting pour turkeys, ote., ready for market hy Thanksgiving. It does mot pay to feed fowls all the winter to sel! them in spring excelp with "winter chickens." 'Th
han they are worth in the spring
Jany wher ways of saving will suggest themselces to the thinkine tarmer. If he attends t them carefully he will save his equilibriam momally, mentally and phrsically, and often ha chuanimity, whieh is endangerd ly the indul anine m unneresay plitical

We have seen it recommended to put a larer of $^{\text {mo }}$ ats umber the sand of the propagating bed $\begin{gathered}\text { re the }\end{gathered}$ rrenhouse. What say our Hierists?

We have taken not a little bins to ascertain, the real ralue of the "Martin Amber Whatat." He saw the rerginator, W. J. slartin, of Columhia, Pa, at the Granger's pie-nie at Milliam's (irnex, Pa.. during the last wet of Angmst, and have talked with a laree momber of farmers wha had grown this wheat for ont or two easome. There was mot one disantine wice. All agread that the Martio Amber has proved to be the beat Yieldar and the beat for flour. Millars, hawever, Mr. Martin anerts that there pecks of seed per arre are andoly snfficient with him on common sul, and that fwo pecks on soil good for twentyfise bublel- per acre, have siven goorl results. It was lorne wat in this stathonemt by may ather farmore, hat one of them repertell that in an experiment malle by him on common whl, Where ditherent guantiten of sod from thred th "ren perk der anere
From all we embla larn about the "Martin Amber." we are justition 111 rewommendiner it th very farmer fire trial. The question an to the penier quantity ot seed to the arre arems to 1 "Martin" doen requir. low than other whats.

Many farmare in the valley of Virginat at thi writing ard ellime their what wopat armat
 probahle what price in ande of the thrmer iown




 the wheat reng, and they are ohlied to serlo.
That the eacessive pratue tom and the low prion St what in a blowime, an friend Alkinsen of the Furm Jonernol asorts, we gratly drolnt, am that
 a* well as the erountri and "ity morehant, sufter fig malur a stagnation of huibuss which is : deast partly date to thi canse, dombta it alon.
On the whor ham it is quite true that the fu"tion is one of axtual proft rather than of attual prick, and it makn wit much difterence whether wheat sells for sion (eonting it rente to probluec it), or 75 cents (combing 50 cents to pro haw it). la either ease the real profit to the
promber is 25 ants per bishel. But to reduce
 When friend Atkinson surgests the use of less sod as the proper remedy, he is blundering again. The remely like other homerpathic ones, is too thin. ?lt is applicable wosmils in a high state of cultivation, mal then is insignifieant as eompare with the general result, lout it would be folly to apply it on porer and partioularly hurriedlyprepared snis, where such a saving might be of some acomot. We again, and implieity trust in the geord sunse of the farmer to find more effective way of reducing the cost of prometuction, or of reducing the latter itself, should it prove ao unprofitible one
We will not put much confidence in political measures. Thes cannot reculate the price of what, which is determined by the lather than mand and suplly in the ohd work, $\begin{aligned} & \text { Btill we cannot suppress our conviction }\end{aligned}$ here. still we cannot he as effective and powerful in reducing the cost of proluction of wheat (and all other bread-stuffis, as a reasonable reduetion of our tariff rates.

Scheming demagogues have tried hard and persistently to veil the trne issue of the tariff question. It was neeessary fir them tor draw the farmers' attention away from the faet that hundreds of millions of dollars, extorted from the weat of the poor, are aremmulating in the treasury, as a fund of corruption and a perpetual temptation to hingry politicians.

The average price paid to the wool-grower for his wowl in 1854 , has been 27 cents, against $36^{\circ}$ or 37 cents in 1881 . This is equal to a falling off of about 25 per centum. Prices of all articles, nectesinties as well as laxuries of life, have declined in about the same ration ; and no reasonable firmer expects that his products alone eould hold heir price up to former rates. A pound of wool now, has about the stome purchest velue as it had three years ago. Still a relluction of the tariff on wom without a corresponing reduction of the whole tariff, mast be consinared at discrimination against the farmer, and eross injostice. Legixlators should hesitate before trubling anv of the very few protected articles produceil on the farm, like woul and sugar. On the other hand we "ant no towlinhoes alsut it. The chillish demand of many of our contemporaries for "a tariff on worl as near as pusible to the prohibition mint, " and their attemps to make a 11 per cent. ariff reduction, remunable for a 25 per eent. hecline in price (they wond try to thame the tarifi reduction for the law price of wheat in 1884 ,
 vilener, that they forget the farmor's best interest in their desire jor popuarity, or that they hatce ont ertered the intricacias of the tamf question very deeply. Justio we drmand for the farmer, but no Chineve walls. A tariff on wool neter the prohibition puint, means prohibition primen wolen goobs, and por woolen chothing or nome for the masm. We camot see " proteetion for Ameriean labor" in that.

A fow dozen celery phant mar be niely kept for we laring winter by anding them, after buing deanel, wahed, and the eods of ronts trimmed, in a tab whel containing a few buhes of water. "r park them in a box in wet moss, and ketp atambing uprisht.

After repeated trials ut salt as a top-dressing, on loth cariden and fitlds, we bave not seen positwe dfects, one way or the other, which wonld funtify the to recomment or disapprove its use. It 1 sheer nonmense to expect that weeds, or weed and can be killed by the application of a little alt. Pentables arr tenderer than weeds and wodal bo dentruyd firnt.

Sucaking of nalt, we are reminded of a comical notion of the Furm . Jommal. Friend A. is comtantly telling his rember that milk cows shand mot hame salt. Why? leyame he does mot heliteve that they nend it. Yet, with sinembar wonistome he abla "posibly nters may lay on fat tantro, when riven salt." Well, what is samee for the gamber is sance for the goose. But in urifer to be sure on the point, and believine that if salt is hurtfin to am amimal, it is so to man, let the experiment be made with friend A., rather than with damb hrutes. Perhaps he will not like his viotuals without salt and pelper aud mongar, but never mind his depraved appetite; let tante give way to rason. (romd senae tells him that seasoning is mot necessary. But in hehalt' of the poor cow, with a strong, natural appetite fir salt, an alpetite that is also the hest rite guard against hor over-indnlgence, if regularly provided, we anpal to the farmer to stick ta the old habit of feeding salt at least once a week. Parion the disgression.

Clanliness is next to Godliness," not less in the garlen than with ourselves. Cleanliness is conducive to health and comfort. Children should be washed before they are sent to bed, and the garden needs cleaning before the long nisht of winter. Gather up all the weeds and rines and other rubbish, and burn them, if for no wher reason than for the destruction of insects and their eggs. A thorough eleaning can be given by means of the phow. Bury the past with six or eight inches of soil, the past with al! its errors and blunders and mishaps, then leave the carden tu the tender mereies of winter. One more look back "over the garden wall", and adieu, my love. Au revoir in 1885.

Old dead or deeaying fruit trees shond be removed at once from vour fields and orchards, and burnt up without drlay. Many injurious inseets will thereby be dextroyed.

It hardly ever pays to "fill im" vacant spaces in old orehards with young trees. These latter c:mant reeeive the proper attention and calivation, struggle along tor a while under the disadrantages of sod and shade, and at last sucemmb (") thi attacks of insects, which are always mmurons in oll orchards, and ready to pounce njon everything "young and teader.
Rather select a piece of new ground, prepare it well as you wonld for corn, and set out a new orchard. Proper cultivation will then insure success

## G̈LIPPINGS

##  

 -
## From"Our cruntry Home," thermatit, Mus.

## CONGRESSIONAL FARMERS

After ihe adjourmment of coneress, thon representafives ban have rural conblatuenems whin rethall to their
 uny , villence of this, wacelt by voting harge aupron riat tions which will give "trly me of them a few thonsamb papers of seeds and five handred appies of the Agricultural Ibport for distribution amoner ther favored constituents. They havin introuluradularged the enactment of bills calculated to funefit the railroad speculator, the merchant, the bankיr, the manaficturer, and the lawyer, hut not one in twenty has propnsed any lagislation calculated to benefit the farmer. Yet they will go to cattle shows, masiurerating as the "Frieud of the Farmer," and they wall make eloqnont sperches at din-
ner tables atront the dignity and respectability o! rurat life. The farmers shoulil not be deceived by thest politionl bucksters, but shonld ask them what they have chome, m a session which has lasted seven memtha, to ant vance the agricultural interests. As election time approdeches, I shall not be surprised if some of these soft-
handed pollticiaus go abont dixguispd in brorans ant olue overalls, singlne, like I'etroleun V. Nashy's morkaitringers.

Ben Pertey Jonre.

## 

## POULTRY IN ENGLAND.

"I will now take another case-lhat of eggs; that is a very gool illustration, for it is la everybody"s $I^{\text {mower }}$ io gear poultry, and, if I may say, grow eggs. In tenis,
chough that was a time when freedom of trable hand advanced largely in the combtry, and when thare was, consequently, a very great insteasp in the comsmantion
 ted from abrom, which representel a tonsunintion of an average of $3^{2}$ foreign esga to every man, woman, and chath. Youmight have satid, if asketl tor sthal eges: 'Ot, no: there are alrenty plenty, wr more than mioush
in the marken.' But that is not the fact, for in man the
 countriss. It is hardly eredible, sus vast and so molit. plied is the ifomand for these little but very usetinl come moditios, every onte of them belping tor ferd somebrody. The ronsmmption per brad has incrased from By to no fewer than $26^{\prime}: 4$ gigg. That illustrates what I hay said to yon shbut the enmmous, insatiable cavaclly
the human stomath. Inepend upon it, that in it be your power to turn your attention-I do net say at tirse on a very large but on a monderate scale-t, the prodncforts, or even comparative loxnries, for popular consumption. you will had that the market will gradually operi and adjost lisulf for their recepthon. I thank tha figares I have quoted are a distinet proof of the truth aud reabity of what I have suil.

Froma " Vick's Monthty," Jourhester. N. I:<br>THE CACTUS.

It nany seematrance to those persons, not admirars of the ractus, that any one can see any beanty in surh plant, of eu cuvered with homs which pierce us, and in its best estate, destitute of that easy grace which herlps win urr regard for our favorites. But there are emhat-

 in time, for manalature, eacti colluators will incorase in numbers indefinitely. If, as stated, it will tabe only seven years at the present rate of waste to imminilat only a question of time.
A Buston paper stutes that the "Mexinan govermment fibrics from cactus, and has recently granterl iupuntan concessions to the individuals who propose engiging in the new industry. They are given the exclusiv right to gather the eactus for ten years, from the government lands. The grant farther provides that fon each the manufacture of pater from the cactus leaf, the governoment shall give a preminm of $\$ 30$, , xo,
Puper, it would solim, fat be made from almost anything, but what about the textile fabrles? One of the most beantiful bonnets I ever saw was nade from the cactus tibre, sts it was suid. It had a silyery sheen mbliki any other material. Now, if the bomet and hat manufacturers take holl of this industry, and make their goouls of it, they will not be long in diminishing the sup) ply of planta Bonnets ate shoftiliveld. Only a few machine, and one man can whess nibuty tozen a day, on an dovrage, by machiners. On lamds well adipted to vate the plants, and raise them on a grand scate, as to gather the wild plants when they berome scarce. That liey could he prolnced at as luw cust, if there should be sufficient demand, there is little doubt.

Q Thes, Jrouming in "Rural Were Forter," Newe Iork:
THE MARLBORO RASPBERRY.
 -tates that ha matw "the Marlboro Itapibery in all its ghory or at least all the glory it will over attanin in No Jerseg." It was on the lout of soll and given tha lo posabis treatment, hut the canes worp fidterint, ami world not bring ont their lirst crop, ete., "te, "und my firm convicturn is," contimus thic anong mons assailant "from what I have soun of the Mathere, it wint wht ded
for New Jersey and locitions subibward. I can sed aothing in it lat Idatus blems."
Hawhare examined the Marlboro Rasplyory catrefobly I think otherwise, and doubt if at has vary anom, il ans Idans or formign bloud in it (excapt its mather b+ibes) Sut I beljevo it to the an impored sepdling of the Amer (all red (Italus strigosus) or it may be tha result of a anccession of improvemunts or crusses, ell. Tha ir owth he strong. vigurous, upright callas, branching at lithe towarl the top, nearly smooth, with a few short scatter mg spines; the poruliar reddinh mior of the young

 greatly to its markel valum fite mood size, quite firm flesh, whirla retains its firm and eolor bell, and keeps Well, are all quatities which make the Marliouro prowas ing axatuarket berry. 'This is what I aws believe, but araction expromen with the froit lats wot bern suflicient to warrant nay giving an more devided opinion.

## 

The big han still "pursues the ceventemor of har waty,"
 several more in thiv locatity, all workilu fithatilly, os their owners' anthatasthonlegt. We have a hrouder, or artificial muther, that in as purfeet In lis whe at the hatcher. Ours hats a glatsu run, an extra attabhment,
 warme them, alal hat peasant wouther thes chicke art allowed to phse from the "rom" "n the grass, and th wambly at will. It is fumby to sor how they kemblerer
 in, they tup at the wine emi, or exit, just hke a pate of they grt themselves or thatir clathes, only that they may go out and play, rata wr shase.
fwo weeks ayo a hen hateited ont a bione withicks.
 paced in the hataber in pity to the fortheren mother, time the dimironar in the frowth, batwern the lient
 is way of sitting on her thicke that was detrimemtat, athl

 asve, all the world over
My poultry yard boststs of two ather vory impurtant
 Gouthern sections. We grind com coarse of tian: und Whll the dry or grath bones we con bick upget turnall into bone meal for our little ones, from their first day on "urth, right along. It woblat he a costly itom if wo hath am! it is too important a food for their heallh abli grovith, and egg production, to go withont. So we aro
grond of our aills, and do not see how we could to frown of our a
withont the:tu.

## THE LATEST KNOWLEDGE ABOUT GAPES.

The gape worm luay be termed the bte otir
 farmer or fander. It is true thern are some who dectare that it is unknown in their poultry-yarels-that they hive never been troubled with it at all. These are apt to lay it down, as I saw a correspondent did in a recent number of the COUNTRY GENTIEMAN, that the cause is Want of clemmlimess, or neglect in some way. But I can
vond that that is not so. I have bern in garda where vond that that is not so. I have been in gardh where
everything was first-rate-where no finlt in the way of nershat could be fonnd-and yet the ganns were there: and on the other hand, I have known blaces where
every condith seemtd fivorable to the develoment every condithon seemed fivorable to the development
of such a distase, and there it was absent-this mot in of such a distase, and there it was absent-this mot in
i solated cases, but fumang. No, we unst look elsewhere for the cause.
Wharvations leat me to the belief that gapes are more than usoaly troublesome daring a wet spring or shomers following at mild winter. Thas wonm ten in itsif the disease) emerges, is commaniated from the gromal, from the forbl fates, or the water armok, in the first fastanes, hat it lis more than possible that the insects themstlows may gass from one fowl to another description of expect as a setled fret, and also any description of the way in which the purasitic worms the permliar gaping of the mouth, which gives the name to the disease.
 Liver at vanty of methutc, so that in (Whe rase of the









 o the heals nuraly, would hot kill the végs.

## 

 THE TARIFF ON LUMBER.The necusity of preserving and even wxteading our

 tion of forests. It woulal serem tor be a matter of plain
 ar as the tirnff hits the slightat protective effert, it
 the ronsumption of fomestie lamber ame the continued lestromion ofl Anmastic forests. Murla ham been and may still fairly he suit in fisor of the probective system Lempally, on the ground that. it tombs to develup our the wry onmosite effod. Instend of developine oner re sharees, it destroys them. It puts a premitum on the de struetiom of atmond farests, whinh can hever ber replaced y artiticial chlture and the removal of which tends to "hatag onf chmate sud desolate our comatry. There Was at timb la whath no larey a purtion of the country was covered with forests that immernse tracte hal to be chasmin ordar to make romm for homan residents and cultivalfon. Rot that state of things has lomg since passual away. It still exisu, howerer, in litge purtiona of Chatula: ame thus the lumaty of Nature has provided
 and injury tonettosb. Isut a tarin wall la interposed to
 bonis after wath a eoursp has tedsed to be dosirable or

That anly whe whisfare made in defense of this duty Fe (1) that it is horessary to cut down one forests in

 We ancwor
I. The repmat of the lambur tarff womd mot put an



 Whidityer anting wilt be diminished, dor those which are romone fronn busy setthements and where the only daber of fires arimes frum the pesence or the Jumbermen thematwes.
II. The wares of lamberman will not be cut down, be canse nathy thoumathis of then now come from Canada Who wouk requrn ut once if (ithathan lmaber were ablonited daty fres. It is the impurtation of Canadian lethoters uncl not Chandian bumber which reduces the wanp of Amplican lmmbermen. There are onany other retsons why wag's could mot be redued ; but this singlo fact wonld suflice to protuce an absulute advance of The lamin"r bumanss of the United States would suffe no injurs whattrer. If we rapaled our tax on im. ported lumber, the Conablan governoment would repeal its expurt tax on logg. Canketian logs would then come in freely, and our saw-mills would be as fully occupied as wer. The profits of mannfacturers and dealers wonld be just nas large as brfore, and their means of paywho would suffer frumeresed. There it is from that elase that all the opposition comes. That uriners of timber lands kuew that their "blumpage" which is only
 tition of coundian timber tunde- The rent of timber lauds bas buen a sumere at vast income ur asmall clese wo are vary puartul luy reaul of Utir coureutrate weath. They have made yast fortunes by purclasing land from the government at very low prlets, and selling the prisilege of cutting timber from those lands at thite or follr times the whole cost of the lathd. Although many of thom have mate great forthmes in this way, they naturally desire to increase thege fortubes still more, and sultong as a single pine tree remains in this
 on "stumpare" will still remahs. Hany of theste gentlemen are worth !riera milhong of homrs each. and thes are still strugyling to obtain "a mondest rompa tency." We sympathize with their anxify toavore perils of star vation, but the people of thu tuitenl states can hardly aflard tos have their climate changed, thens the sike of nddinis to the puosperity of the men who already millionaires.-Thus. G. shecoman.

|  |  valnalde; and it may he a seedlung worthy it |
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 grown. Ketay themdry durine winter.

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 betow the -utitere of the eotrols.

Mrs.W. C. Iratel, wf (lympia, W゙achineton Ter
 aplen hadd their orjgitl iu the cratmatble er Farope, and will, when grown from sered, whbat more of less to the old stw. k . Imonlothes your setdline is of that alas. and may be a vialnatho fruit. The diftorence betwon arab amd othe apples is but wroll manked, and they mun torether so chosely it is hardly persible to tell whether




 ar. thrown inf liy fhe cigar tuskera, stap them, have the mation arnes I prink it wer the






If J :an nom mitakenin my idea that a farmer

 (II prowhet of the farm and garlen, at th the




 wha wodld be bleased for hear from their brothei
 thentris the winter: learoribtions of homer-made hivos, where the frames alle easy of atevoss, and H10h othor itume of intorest and belleft that may
 tarmera as we are fat upan this earth to belp W" anotler, throw your mite into the contrilaFonl lmx uf IIE FARM AND GARDEX: EAld I danbt not that onv worthy aliturs will give it an
(1arks by dagk Frosr.

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|  it may appear, the eatanuy baning one of tive mailhines. |
| When a man and hie wife engreal in a d.hntry to be let sut of the wayn, iley cour luted it wat ame to stull the di |
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Fovermisemenrs.

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PATENTS. Hos, Re, simpsom washinatoni


## CARDS



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MONSTER BRONZE TUKKEYS,



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We will sent oue gine bull of Litium It", rissiti (see "ut mp puyr 1), importel by us. fram trovers in Bormudn, oar Intche Hypenth, Fize Tulips, six Crocks fime
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He will seren Tico bulbs of IThium Iherrissii, One N'illla Sibrrich, Four summish Iris, Two Inias, Oue whomlrap, There Sculis, Neren Single Nurcissus Portions, one Jonquil. One tulip, Five Crophs With these ue will intude oy year's subscription to The Farm und ciurden.

F Gollegrton．
BROUGHT BY UNCLE SAM＇S

 Fool tirwer＇s Associanhe Fiwry mo shated so as
 withdiagrans showing the
 nursepyman，with abundint capital and several hundred arres of hand in orchards and small frnits．With these excel in nurelties，it is no wromer that he bringe chm no terest．Containhe a list of a new phar．a laree plate of th duath it hail we net seen the bunch of fruit with our own eyes）the Parry strawberry and other new thinge．
$\qquad$ sith his trate list for the fall，comprising grapue vinos，

John B．Moore \＆Simi，Concord，Masa，catalaghe of
$\qquad$ －${ }^{n}$ dhurry up that club．Fromp the far off Arkancas Messrs．Little \＆McClendon spnal．ne thwir annal mur sery catalogue，Nushyille，Arkibas，is their adilreag
Messrs．S．H．Monre © Co．．of No，2i Park Place，Nom York，whose adyertisement appeara in another column are well known to our readers．thelr adyertisement hay ing heek before the public for mang years．Allomat suret that they have an almondace of cupital，and also the disposition to fill all orders．
A mong the paried and interesthge catalngues offored to
our readera who whl write for them，wo minice：－ Benson，Maule \＆Cu＇s．＂ 1 in ine for the Fall，
 It contains a complete llat of speds for spring fhathug so that thir frimen in the sonth und Calif．rma，whe have to buy early，can hateligenty
and we prophesy an abutant crop of ordmara，prwiled well，provided they advertise nongh in ThE Fabm Asid （atrien．

The prospectus of the Ammican sordsman，a monthly
 La Plame．Pemasylwama，is hefire hat we＂in the ethor wht conscientionsly ruth the fapmor in the hateres of the whole trate．There arw phenty of adseristing aheets，mut an independent trale jonram is wanted．
 describing nesy market stanber ry，the＂dankerms．＂ fity years，and am acquanuol wh1 and lase trifed Bay＂ 1 know of he varrety that berrs
Grape binca，etc．
N．W．Ayer \＆－sin，Phindelpha，and their＂A meriosun
 estimated circulathon，adserthing ratm，and mach of he

$\qquad$ ${ }^{*}$ Hand Bow for Remly Reference for Advertisers， It is a valuable publicetion．
Hate Bros．，Buth Giastmbary，Connectiont，are
 interesting．
We have recelved from the Zimmerman Manufintur Ing con．of cincmatio a landemane cataloghe
 recelve the catalouve free by writung for it．It combans valuable hinformstion．
T．Walters \＆Soma，of West Chesier，Penna．，have sold over wo pigy from their thatitat the Pennsylyma
state Fair．Thay made an intereathy display and we trust were thany repaht．W＂，suy this 10 encourage other enterprising stuck men to come out strang at next Johnson \＆stokes，Plitatuphia，sond ne sampes of sew Gulden Prollic What Marthos Amher（ster Eilhto rial comment，Fume whable valetien ulleped by chean in this number．

W．H．Smith，1h4 Market strepl，Pluladelphifa，cata logue of bulbe anal fall gooms．send lor it．
We are fieasplat to mote that a number of fone rathers


 will do well to refer the the ardureticement，on aromul coner pape．spmember mimber．All whor hase wed


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## ＊The Farm and Garden．

## Vol．IV．

TO ALL WHO RECEIVE THIS NUMBER

 subseriphth the subserphthon is already conthled．
Notice is alwats sent of expiration of subseription．
 sent for extra manduers
Remitrancen may bemate at mar risk by Past other
 Canmian Munty are takon，but if stat in urdmary lather ase at your risk
 li you do not recolve the ptot promply，writa is thyou what may ste that sume abtrens is correci．
Addrewsex－No matter how oftell yon have writtry

Nnmes rannot be shesed，so writu hom platinly ：and In full．If a lady，al waty wrate it the sinne－met Mix


 write us good haturedts，but if you cannot，hion wit， to us any way．Do not complain to any mes＂lise dr it it pass Wuse want an ear


subarribitona to this paper 50 cents it year，jaydabe pa advance．

 Phthadelphla，1＇s

## Who murmurs at his iot to edoty

Itho scorns his matime frmit shel blumm
Or sighs for dhintics fur analy，
Beside the bounteons hourel of homs：
Thenk Mouren，instrud，thut Fropteme＇s mom． Gian chanepp＂t rosky soil fo emld． That brabe amb traternes lias com antrm A clime with Jorthern iops collh．

Whittien

GOLDEN OPPORTUNITIES IN THE SOUTH． Continued From Ahrif．Nember．

## By Jtwrith

The Brekerper＇s Chances．I suason in the North ass coul as the one just passal，slourtamed hy heayy frosts on hoth ends，（one on May 2oth or 30th，which spoiled the fino prosprets for hig erops of apples，petwhes，plans，＂herries amm grapes，ami one on Angust 25 hh，almos as do－ structive in the regotable gadon），could lardly be expected to make me forget the charms on the beautiful＂sonny sumth．＂Remembrance and lonefiner proved inseparable in this instance，and those charma irresistible．

Aftor a sojourn of a little over six months in the eool North， 1 yielded to the temptation to make another visit to the great valley of the Shemamonh．The inpressome which I hat received on Virumia＇s soil in $1 \times 53$ ，wore in a fow instances moditiod，lant generally，stremythened． It is abont a yearateo，when 1 adrised the lalmere withont means，seking amployment on the farm， to stay away from the sonth．That alvier was correct，is far as East Virginia is enneermod； ciremmstanees are different in the monntain regions，motalsly in the northern part of the great valley，where but few nowrus cross the path of the white man．Thomsande of laborers and their families might liere find employment under exceelingly profitable conditums．

During looth visits

NOVEMBER， 1884.
No． $\boldsymbol{\text { II }}$ ．
 I：ham taken wry ritte or 10＂molict Whe fir，ywt，in tion thomsiluld
 ber－ke＂pmes．

Sratmifie bee krpping is a very ore hramely an will allmit Velding in many partact the lombei Nithe，以゙ゃy hamd Erhat retirus tor the＂apitaland billop invemted in the business；and it apiculture pays nywhre in the world，it is in the blave－mentioned tates，In fact，it Ammremumative， that some of these conthorn bree－kee－ firs winh to hide their yind am profite trom the Find the worla and tomeretart an imonvenient in． ＂rase＂if prolue
 profits am？kep， still，instemal of rumptime their yiakineverylee 13iner of the cinn－ try，＂silil a War reql cimaty apiar int tor mu last Feh－ mary．It may not invite armpati－ tion；on the othar hami，no momep－ aly homad bio jer mitter toret a fouthoh in any of the lran lies of ：urrixhture；also，both the production and the comonmption of homey is capable of a growth to tan－find its present extent．
When we consider the long duration of lope pasture in the Sonth，－fruit tree amd herry hlos－ soms in April，white elover and an abondance of lochat in May，blue thistle，aster，goblen ronl，and mmerms othar wild fowers from June until tall；the small number of colonies in any ont apiary，and the distance，generally miles，botwen the aparice，last but not last，the fine climate with short winters，－we will see ma reasin to wond rabont the emomons yielfs of honer，nor alont the ease，with which bees are safely carrial through tha winter，that great problem for the Nopthern and Western apiarnst．Suceesciul win thrine solves itsolf without trouble in the conth． Last winter when in Waren Connty，Virminia， I male a list of the yiedds of the most prominent apiarists in that neighborboud during 14．3．1hav－ ing mislail the list，I will at least mention one item which 1 distinctly remember ： 23, ，hon pounds from 150 colonies．A failure is almost mknown， and scientific treatment will insure an average yied of upwards of 10 pands per colony．
A skillfal beakeper in the sonth，however，is

We are very minxious that
every one who rumath his shoulaf help us to harrease our hist uf subneribers， $1 t^{2}$ very ont
send us fonr inc wames at
an acnis ench，it will ermat of
The Farm and Garden．

## BEAUTIFUL WINTER－BLOOMING ROSES．

## 

 many kplenifid roatco his winter．We make his offir for son to accept to our（ormsi）That the order is mailed on or lefore November 29th，148，and nimmes are filled un blank enclosed．
＂rura avis，＂swareer than honesty in pulities or truth in a cobrt romm．The wajority of colonies arekejt in anoient hox hives．The ownergener ally puts a romeh bux on toly for surplas homey， and predanss replates it liy an mapty one long altur the first has has been fllenl，and in this unskillful mamer often realizes ifty or more pmonds of fair honey from each colony．Some formers have the Langstroth hive，hat derive lit－ he lemetit from it，as they do not umbarstand the managrment．T＇lie few specialists that do，reap a rich reward for their labor．There is romm for thonsamds st aprarists in the sumb： 1 alvise Fonner ber men to investigate this feld fire them－ selves．Iler＂are golden olmortuaities；do mot let them slip from your grasp．
The price of homey has been low in 1853 ，and in spite of a partial failure of the crop in the Northemstates this year，we can hardly low for a material improvement in that direction，with the present prices of sagar，and with general staghation in business．Bat even at ten cents a ponal for homey in septions，or eight cents for extracter，the frudnetion of it is a highly reman－ rative hosiness in favorable boralities in the North，and moch more su in the South．
Spraking from experience，I can well aftiom， that 7 krous．I have that $/$ krou＇．I have had an mutry of about one hundred enlonies right under my very eyes daring the last eind or ten years，and kept track of the manisrement aud the procerals．

## THE FARM AND GARDEN.

beans in place of meat

The honswife whil this morning: " We will



 Why is it that the lwanc, malik. mont fame "f
 hread [ablld any form it misht hereruat. In like manme

 fommething that make the loans valuabla for form must he the vame as on - imilar that which

 question of forms. Shimal mathere fo math the
 remading the diftwores wow wen home The wheat, they will fand manat band hand chemist, bey wh of and ant anamity of water albumons, tat, rarla.herdrate, fithe and ath These are the chate int: what and



 another fumb "thmen and the what erain ravalate ablm-



 etc., which ate matre bp of why the ther way and alsuthe fate contatio no nitruget. The tithe is woody substano, and make up a larear part
 and contains a laretr nomber of anstand sump as potad, lime, phophuricatid, and many wher-
 life of an animal "annot he lones sixtabel with out a supply of thene shbtane The The athamin-
 all contain the dment nitrurati, and nowd to he constantly supplind with it, and the sontere to the albuinisoils. If the croature the be fell is carnivoroms; that is foode upmern the it rat obtain its supply of allumimol from ite amimal diet. The nitrogembering compumd have been termsent the thah formers, while the tarehy heat pronlacers. 'lhe twa axpresings semp:

 not strietly serientitio
DFonde are takur into the animal ustem to nourish that system, to supply the abstant day wate. Wonk is slone it the expuse of the substance of the body, and it is the finnetion on fonds to supply the lose. The animal machine so to spak, is run at a certain temprature, anm fuel is needed to keep up this animal heat. The carbo-hylrates, the starch, surar, whe, have thi nace in the horse or cow, lant the reonlte of the show burning of the fiom, muth the same when subtances are burned in a firmares. If the husse on cow is kept warm hy a furnace heat in sevre winter weather, the animal tha faverd
will mot need to eat sommen fonl to krop warm. The albominoms are the most *xpmate elemente of any ford. In the howsthat wombur they eome to the table in the most concemtrater
 bread and ather propertios of stareh. Snara is a fool, but it contains mone of the albmminoils. Wheat rontains about eleven pro cont of alm of mats, perathe om. nearly all starch. It is a heat former, and not a rich fund in the semse of containing much allaminoids of proteine. Peans contain orer ont quarter of their whole weight of alhuminoids, like lean meat, and therefore very hearty. Bread or other starch products to he eaten with beans to make the ration cheap and wholesome

It is hard work th lua. and mot me man in a



 he the lew wath hovery eratly redurnd. At time













 the labur -avitl in sowine amd in rattivatime
 redarine the work of the how to roly what
 fuetwera the plants intheraw. And hero another


 oramsplanting and diexilus arobmd plathlv will br



 amd rapidly. A fews sake tharfoned and rualy

 On* paint is very impurtant, whothor tho tonls
 hond with brieht, sharl forlw, lubre than sutti
 hrisht and sharn. Whatavor work is dome in




 whan thronely with tha
pont away ingond shapu

## GATHERING CORN

## By John M. ज木几ht, š. Jomis, Mo.

One corn erop is so larise amd the work of Luthering the ears consequently se ereat, that fany way of redaring that lahar mant mote with facor. leet me say that one of the ways to make
 ill all la this. Sow don motholl wpyour hand in holy horror. I do not propose to atbo mata :ay wacte. out in this auriculturally ainfol
 corn. That is, the swint are hrmod into a fiode or part of a fiold, and mado to do their own haskThis may or may not hat a wastefal pratice ail dapendsin rireimstathes. Of enorse whe eircumstances make it :1 wastectill practred should not be conntenanced. Jitt when it oceafons no waste it is to be reeonmmended, as it aves considerable labor and reducts the nltimate cont of the conp by just su murh. 1 have seen humdrats ot arru of corn "hagerd down" when there was a ereat waste ; the grommel was muldy and the corn was lost in the math, or the hoge were ereedy amd lulled down mueh whidh was not comsumed, and was laft lying on the gromma antil untit to be eaten. Then, arain. I have sern mans acres "hogem down withont waste

## CHORTHAND

Writing fhoroughly taug
by minn or perwomall 'ult for circular. W. (d. ('IlAFFEE, Oswego,


swine not urewdy. Only hogs which have been fed to bur put in marketalhle condition, that is, armal the will "at for wome time, shablat be down an tar, take a hite or two from it, and pass mother and there iv danger or previouly hishly ted, wereating. If the eromad wot, the hage Shond lu kept ant of the fiedt. Fat hem in a dry fiell will hake ma wate as they are su bumbent they will phall down (ally what ther pat at the time It the tirn oneonhes madly, fake the hers mut. It is alduathe to
 all ansumb in a few das. Whan thay have bumed of that, fince then and another path. bull :he corn withent romosine the lawks In
 the fall ame wintor, ase the weather ind other work ammit. If the stalks stamel up well, this an la will hane hownwards and the hank will whon aft man or nuw. However, if the stalk have fallen or been boken down, themen whald be gathered as som lumible. an the care lyine on the gramat will
 ar and Montumitr. There is no need of huskine what woll is fod idurinu this time. Tho hows will not eramble al partiol it thay are complobled to hask
 fonk are cut me for them along with the ears The huge are worally tattoning for markot at his time amb entuidnathe corn may le dixpesed
them. mak ine the arine not ine maderable. ta hay have hern ted ald fer a romple of watk of the fortanine promi. If the wherine of the





 arinus. It sapo all the latur of removing the burks, as an war can luo jurked from the stak as

 mittons whon the wather in end amil the honks
 and ars thas fol in better comblition than if 1astared low the coutl.
I have siden mon fording follof from which the ar hat been hanked, and husked com at the ame time. They wore perainly doing annecesairy labur. When taking the ears from the toddor, they might at last have allowet the small nes (" mathons") to remain. Amf there was no ureal of homking thase rars taken off the stalk; the mirht haw hom fulled ofl and the husks fedwith the erain atul wh

## FARM AND GARDEN NOTES.

By. J. W: IT, CYuthum, N. I:
Cows like eabbagr latases, hat it is hetter to ford them just after milking, otherwise they may flavor the milk.
A goond way to store cabbage for winter use is monke a dimile row on a whlldrained spot in the garden, setting the heads close together, ronts op. Bank np with dre earth.

One of the julges on stock at connty fairs slomhl he a ben-resilent. There is a general frojudier against julgos who are or are thought to lev, arcpuatinted with the exhilitors, and know their stock

While you think of it, thateh up the inside of that cow stall with long straw, so that the snow cannot blow in upon the cattle, as it did last winter. Cattle are not partial to snow blankets.

The wihd farrot is nue of the worst weeds known to eradicate. Whole fichls in this section have heen, and are, woverl with it. Mowiny dows not seem to kill it, and it comes in again

THE GREAT NEW. QIINGE: "MEECNS PRO. HANCE A BOROEN., Rumbon Nurseries. RED BAMK, W. S.

BULBS AND ROSES For Fill

 timothy or other grawnend and the erop next sea-
smath will bo munh increated.

Underiman the lowlanis amb mulch expmeal knobls. Thess are practical romedies againat If yon want your grape vince to bear finit do not mamme them! suin fior erapes mont not be
 lime abont tha ronts.

 do not have all the sum mint at the mats and the
worthless batwern. You will make mon money to sort into two gradm
wather the falling leaves. bank the erplar wase them for boddine this whitur. They are sume aberrbents.

FACTS AND FIGURES in REGARD TO TENANTS IN THE SOUTH.

## 

Long continned drouth, extembing wer many Southron States, has dombetess reduced estimates of the yields ot cotton one-third, and will hring
 somewhat every year, even during the mont monfavorable seasmes, simply became there is a comStantly increasing aterege, whwilly in the
 traced directly to emigratinn, whil" in Missiseing and Lousiana the increaso is mone directly traed to the steady improvement amone platere, who eapacity of their jlantations. In this comnty the
 which adds 3 , own bales woteni to the expurts of this eroll from this country alome. With this, generally, you will parceive that tha entton crop of the Cnited States is eartain of shisht incrense the introchection of a suce cesful waston-pieking mathine, the ermp would double itself in a year madine, the crop would doulde itself in a pear
or two, and could be produen! at a cont of abont thrie cents per pound. The princibal experne in this erop is the picking, whirh isdone entimely by hand at a cost rancing from fifte to sevaty five "ents per landreel punds seed cotton. Thispounds lint cotton. Sonthe cost womld he at difty eents per humared pounds seed conton, tho conts. per pound tor the lint. This eost onte 1 romowed and the erop, will soon double itself, for the same labor now engaged can whltivate twice the acrease that is now done. Plantre uswally make their land, tuls and team, and tienl for the te:uns so employed; ako fromishing the tenant with homse and garten free of all rent. In retum the tenant gives "ne half of all the eutton and curn he may make. No elaim is ever mate by plantors for half the pumpkins, potatoes, w other crops grown by tenants. Fued is fumished fres. The crop of eotton is divided at the gin after hing haled for market, and thase settrments are, I helieve, strietly honest to the terant. If he prodnces
5,000 pounds lint coton, 5,000 porands lint cottom, he receives exactly $2,5,50$ pounds. He is regurred to pay all exprenses of the picking, if he neglects to pick his crop ; but the ginning charges, usually so. 010 per bile, are paid by eaeh; that is, the janter pays for ginning, pressing and wrapping his half, and the tenant the same on his interest. The tenants is at no expense it he does his duty as jer contract except for his own family suphlies, and thr ex. pense on his half of the crup for giming worar Gencral Butler, in some of his senches late that the negro lalmo of the south, was the paraest paid of any in the Enited states'; that the latorers of the South were panpers, and as surb are brought into cumpetition with the labor of the North, to the great injury of the latter. This is an error, and reflects nor somuch mun the white ject of his remarks is uph the negro; the subindustry and economy. Let us see how hatar correct the General is.
We will preface our remarks by saying if a man's free is blaek, his recommendation is sulfi. cient to a Southern phanter. No capital is thought of applieant ; no certificate of eharater to the thief the situanon or partuership is open eharged eriminals are taken into partmerships to make crops, as quickly as any other. All that

NO EXCELLENCE W'ITHOUT LABOR.

























 think, and ly timely thmont davelop that halhit of systematizing in ald the mover wor maka, amd


 Thamilkman is surato loarav the forx or stoml
 the tow. I latve shasental to hime ofions that at littpreare might be of severies to hinn. It is nost
 hown to rest, and lowide it is mod a pleasant
 anythines that is uned." J 'and E.t but one answer
 everythine innl puttine erorything in its flace." have no timu for detals. When for details; I using a tow ] amb whlyed to drop it and wo for something जse, anm then whan I am thonorn at that I rettron and take up the wark lasere. If I mhonld attemal in all the detalis youl speak ot
 am nos cletail man, I aint.
ined for want of letaidet erets porar ar are resstond, the hamess unon the work aninulal, or the sharp-edgeel instrument or other dangerons thine neat or over whirl they are tel pass of stand.

## TUCKAHOE NURSERY AND FRUIT FARM, 

PEACH TREES, We have road for



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## 40

S. W. STERRETT, Barnitz, Pa.
frow ond rotione sep ats rons. wheat




Gluce at chang" in the
the ollation.

## of that. "muisan

farmurs, y
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that is hripert



riner alreary

## ne this " unisat

hlema
keen the sail la
the eulturests werk Get your excellence hy libor

## WINTER WORK.

| It generally happens that the plough or the arrow, in common with most mowhery used |
| :---: |
| the farm or in the simelen, wors into wintor |
| that is broken or worn, and needs reprair. |
|  |
| and gardeners and |
| ne should le devoted to patting tow in proper der for the next seasmu's work. If this is dome |
|  |  |
|  |
|  |
|  |
| mavoilable delar in making the necessary repairs, and in the haste with which they are don |
|  |  |
|  |
| the consequarme will be a lorpak-bown in the |
| lonsiest part of the work, perhajs. I have known |
| such things to hapmen, amd 1 presume most farmers' experience has been similar. <br> Take ronl by tond and go nver it carefully |
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| ce. By lomer this youlwill have |
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## Orghard and Small Frpums

## PLANNING FOR A young orchard.

## 

The present is an "pportme time to inaumate plans for the setting of an oreharl, and for th guired for the trees to come into bearing and the will in a great measure depmoll on their tarly training. Leaving out the mattor of chorin arieties, there are questions relatine to forme of planting, and to detaik of enltivation which will bear carthl diseaswon. For all the larger grow be allowed betwoen the rows. Fobung tr tered over the fiell at a listance of forty feet aprart each waty, present a diwnurasingly thin appear ance for a fow fears, to be sure, but no nther memmerative results. The onfect of coltivating be tree is to procure profit from it two or twent years honce, and twards that distant juint w moner fanlt among "rehards than clove plantine There are fow variotios of apples which ran be or firty feet. One of the finest orchards I knew ten years ago, is mow a tansle of interlapping branches, althoush the trees are but twenty years
old and they were set two rods apart. Forts feet each way is a p"pular and properdintance fir trees to be separated. To the case of Bahlwin Greenings, Kines, and other strong varietime i grown onstrobes soil, I shomble preter
If the orcharil is to inchule several varietios, i is nsually better to set each variety in a black on square by itarlf, than in rows, ceperobaldy if the in preking and packine the froit. The nearer together trees of the same variety are net, the les wiln herate sizul ardharls it is hetter but to set manderate sizud oreharls it is hetter wot to set
more than four or five varieties, if the orchard i planted for profit. It an equal momber of each variety be set, the gromm hal better be partered, me cariety. If there aro widely diflerent kind of suil amil iseation in lifferent jorts of the fiela whinh is to be plabtet, it will he neressary to
make some colenlatim as to what varieties will luhnst in ectain parto of the field. The warmest gromul should be set torarly apples in preference to winter alplles. Winter aples shuld ripen shomll be set on the highent and best liainm suil. What kind of erop to raise in young orcharl is a matter tho little consudered. In the firt
plate, the younge trees must be cultivated. Grain creps and therefore always to he discouraged.
The most detrimental reant 1 ever knew to follow crophis, was the dreme ont of trees in an nat fich. I have several times observer that oats are hart on young trew. They smow during the Whale ory season, and the tress get no cultivation
whatever. After the cron is barvested it is tou late to plow mp the orchard. I believe that som is minch less injurions to young trees than wheat or oats. Trees most not he cultivated late in the fall, cansine them to grow late and not mature heir wood before winter. Puttine winter whea in a young orchard is therefore equecially hazand young trees, because it protects them trom winds When the corn is removed, however, the young
trees are exposed sundenly to the most severe Timls of the year, aml they are apt to suffer The best cop, for a yound orchard is one which requires constant coltivation, a rich woil, and une whith is harvested early in the seaven. Som crop, which recpires deep culture is also to be re
commenden. Nlost vegetables are grod erops commenden. Nost vegetables are good erops After the crop is removed, the gromind shonld be harrowell down smonth. Level colture is in the great majority of enses best fin the oreham. Ris]
Tand depressions shmuld he leveled and fillen The yofng orehard will meed manur', es upon which apples to the best. If the whol orchard cannot be manmed in ohe season, it is : good plan to manure the lishtest part the first year, and to make a roumd of the orchard, man uring as much each year as can he done with little expense. Clayey soils shombla be mate porous by freguent cultivatoon in lry weather and by a copions application of coarse manur sawdust, or straw. The lumps of clay sboulid be broken with a hoe in any weather. I have known the most induratell clay to become gond apple land in four or fise years by thorough under-draining and proper care.

## SOME QUESTIONS FROM NEW ZEALAND.

We are emoreine from a dismal smi ummally rany winter, aud whe tas it is pusibibe to julge it prespht, we are gning to have an carly hume as are a few lums and cherries, and the nom
berry bud is farly doted with thow fow lribh peach apple trees in a sheltered poni mat the sencral run of aphes have not yet hequa (1) how any shus of lite. A few hars ags I fin-
 Some fimorite phm upa seelliner parhwa Which in this comatry are considered the mor Mrathe stonks for pilums.
1 have been reading with the greatest interest the letters in wour colamma repertine the adsiea
 and cultivated amand
promed the phan of kreping the eromme blean with the result that the trees have malle alleal, Woskl, but mofruit. But tomy mind this was no mater of surprise, as with my Englinh indas, w have no ridht to expert ban- ${ }^{\text {sind }}$ the pear stock
 flante prears, plants for his heirs." Thoush camot say that such were my intentions in pant
 (arly returne from that purton of my werard. May, I have determineal tu:al upmothe hotrime therein promalcaten, and as an exproment I :an
 ] do bot quite lake the idea, as I lublere in mat

 has to deal with is iner rich, whereace that whieh I have is quite the conarary. Again, 1 do mot guite know what desseriptiad of blight is retifred the exmmonest bight on prams here, thourh the sably or anker in the bark attacks sume kimis

$\qquad$ hear. Pears on quince stome not mifrighently

## ACHANCE RWW THE EST TMME TO A CHANCE. COMMENCE SIK CULTUNE aEAd this through and be a ploneeb in a new industry.

## Whar here the thind year form the graft, hat imel them bry uncerain in their growtin, and I dn the wore well cultivatom. liading on mand in

 an manceticole, I thaneht to try tha e Alicet of a
 them of their lowes bot to my disiplomintmont 1 timel anlers conld infom me if a dilute sentima
 lamaniar the tras. I whate hos wory rad tear of know if:ay of yonr rembers have hail any experiane with a disuase that carries rof immantrable wrongly, $I$ banot say): "Iomot Fumens," "1 brlieve it to bu a lact pian mevelopment, attack. ber the rants at trut tres mader ecertan andatine 'onditions, and I have known it to aray sut' tifty orr cent of the trims in an sung plantation. It lenly droments and they for, and the tree sud denly drombamd tien

## PRESERVING FRUIT.

Whe of the ehinf wanes of dreay, when aplles
 at a cuntarima firm, and spread from one apple (1) the wher unil all armatroyed. This is more !artioularly moticel with puachesam! phoms, and it reminds as that mote dare shomld bee exeraisend In pracrving frnts wer winter. Lemons and in ]rap-10 and jacked on!y in amall luts. li has bed demontratm that apples, when phaten on a shelt, anh beiner maraten from the other, keep well, and why rammet a lesson le tak on trom the foren methom, which nathe traite erowa in sarm "limaten to he sately mamertind to lone lintane When frut is wriphed it is partly potpeded from cold, and the dithionty from therefore be seded finstorace. Nobdond many may ohenet to the propmition of unines so moh

 hos richita in

##  <br> RUSSIAN MULBERRY. <br> 

## 

$\qquad$


## For fruit the silk the trues shath be planted siveen

##  So frum ripening is in June wh the eatly part of Jnly

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 Hyacinth the IIratiot
（H），motnerally What the
 to haye t
3．
thin
 that i rather dark，and kolp the sil in the the mbli，and in si

Show what can he Jone with at fanitel amman of lobla，say
 oroloned．A vory fibe arrancemont wombly

 Tulipe two rawe of lympinths and Xarofone
 the exat quantity an omly be aalabatad be it diameter or the ditanere at whin the ballo：an Wimted．Thesmendros and Crand may bo





 pear have al patch of emple here and ouse of





帾 De







 vy ire io tiow min lust sprive．thay will theink

## 1，1．nis．




 that how latis，withont ereat leaving any earth
th the romes，and pank them rlacly together， tamding them in a flate where the trmperature

 the dace kep quite mont．If parple libacs are bare quite dark．This in all there is to be dune cimene pabonjes．
They are wery valuable manemen of their barse fowers，beatiful colninus，and delightal fraw－ janc－＇and so cotirely hardy and vienms that cery one sland dhant them．Ther newer antio from the cold and will nepernd in any wil whloss
 ther may ：han he phantell in the spring．A lithe catra care in the way uf manare will induce a Conations and rapind erowth．Fur large doral le－

 blay without anythine eheap and rambe in that idflearable．

Paying Palme
For amateme and breimer in the foral busi－ We，there in money in raing young patm－
 dozen，ant in ios than whe yeur they and

 hia Dlewanc is and ther cquek son ing kint，hat


 ferime ta brow that fir a mombe of yere and get



> Wintel: hiommini lionts.

Any whe having the convomione of at creen－
 lould make a membindmo of the following flats，whing ate all desirable for winter－ hooming．biorvilamas．
They are anome the mont＂emed of winter
 aphted，thaty are desirable for thefir profucion of flower．They repure more heat than derani－

 Wramberemunitions．

## 13Eriovias

 linhra，whand has Jarge，dark green heaves，and
 Greattor quantity．＇Tlate lax variety are necessary
tablallinh any ennorvatury．Their varions colors and markimes，and the metallic bastre of （tr leavm make them sery elhative．The foliage shondel not lie waslaed or watered．

Whes gomb stroner lublhs can he procurtal， Crelam＋n are indu＊d a priz．fur window cultare， and will give morn flower，with lass tronhle， fon many wther flante berowing much more bitere．The coblur is mathlly white tipped at the
 the latras art wall grown，jelace pretty elase to the ghan，and ser that the latrex are kept free firom thrib or mealy bom．The flowers are very ald amd attrative fo ams oble who has mot seen botn．After thow rine，wraduatly withhold water， int，y＂t give suffabent tokew the roots jlamp． （＇HRオMASTHEM1゚Ms．
＂l＇hare aro tix frants that from now watil


A BED OF HYACINTHS AxN TRIIPS．
anthenmmas．Thicseaman they have beengrown in quantities lay the trade，amd no doubt many Hew varjetim will bu brounht fimward．The only 1 A：whatek is their liahility of heina attacked by

 so ofton alsuththane that no donlit any ome who has a surden has mot failed to plant sume，which thas aro retdy to lift and lime in the bouse to ghabler the creapants．

SCHLI．I ILTUMXAIIs．（Autumn Squils．）
Recoived from IIalland Soptember 15 th，were日andman the satme day，amd were in hoom ten diss afrerwarls．The dowers are small，on long bember stems and last for guite a lons while： survirl flower spikes being produced from one bull．
midnight; but this tall we disenverel that in cool weather thry will krep uncon until narly 10 oelock wh the momines Mhis makes thi plant still more valuable. It is satid that at temperature of $60^{\circ}$ is repuired to keep it monsurs during winter, hat with us it has illreatry with stoul a temperature of $40^{\circ}$, without any injury

## Hyanivifos Watel.

See that the water in your Hyacintly ${ }^{\text {clasisec}}$ is up to the right height ; and renew it if it should smell offensiy

Hyacinths and Tulip in prits shouk he lirnught in the hoase towarth thr end of this month. Keep on planting them at intervals so as to jrolong the season or blum.

Shomld now be driwl oft, shaken out of their pots, and kept in saml or sawdust in a warm place.

## Amaryblis.

We heliese they will blam hetter if not completely dried off durines winter. by placing them in a cellar where frost will mot thinch them, and giving them water jut nime a week, the romis will keep fresh and jhum, and strong flower spikes assured.

Should at this season of the year be gradually dried off. Just sive thon water once a week until January, and then stop :ilteserther. Place them in the sumbest place at hand, so that the
wood may be well ripencel; this. is essential to insure towering.
Young plants of Nipht-1 homing Cerens may ho kept srowing as lons an they want ; so bons as they do, give them water regularly

## Gebanticm

That have stomi outinde, and have lweru kept dry, may be brought in, and if the the soil the serapeel ofti, and sume cow manure put in the place of it, they will hoom finely all winter.

Spireala Japonica. (Astilbu Jup.)
Is a splemid phant for foreing in the greenhouse, where it will prolum nemutifil spays of silvery white flowers during February and Mareh. It is jerfectly hardy, and while it would be desirable to leare soni phats in the beds to brom
in summer, we would alw rowmend the liftines in summer, we would alw rec
poly.intia liones.
The Polyantla Ruse anue uriginally from Japan, but sume expuiste new varietips are introduced from Enrpus. They are exceerlingly beautiful, delicionsly sweret, and amons the ment constant and protuse blomers we have. The plants are of luw, cumpact grewth, ani , puit" hardy. Our illustration cangive but a faint idsut of their charming beauty, we cordially ruwnmend them to all lovirs of rare and bematina roses, and besides they are capital winter bloomers.

## Eupionbia splentens.

A plant that al ways attracts attention by reasm of its peculiar growth. The lranches ire of a light gray color and profuselye covered with shary
 contrasts beautifnly with the clasters of wrmilion colored flowers. It blown abmandy; commencing now, and lastins until next day. Some people train it on a vins in the form of a crown, and call it "Crown of Thorns." Trainel in halloon firm, it makes, at nice ornament. Althurgh sume may tind it ohjectionable un account of the spines, they
tive feature. In the surini readily if allowed tor dry f

## primroses.

To keep a sitting rom cheerful, nothing is required hut a few plams of simele and lhable primenes. If kept near the wlase, where it generally sumwhat copl, they will keep on blooming firt ang while. It is too late now to raise them, but your nearest florist will no doubt have nice young plants coming in bloom, which will just answer your jurpose. Be careful not to over water them, or they will surely rot at the neck.

## Heliotrope.

Is always necessary to make np a perfect bunch of flowers. th pertume nothing equats it; and the case with which one can grow it, should be an encuraragement to lovers of flowers. A goorl rich spil. plenty of sun and not too warm a place is desirable. In the house it is often affected with green fly, from which it should be kept free by dipping in, or syringing the plant with tobacco water, or fumigating it.


Mahernia Odorata.
 hat wif permone a whole romm. The thowers, shown in our illowertion, are lewl whaper, and his, with its driejous tragrabes, have wond he name of Joney bril whirh it righty
 hag profosely dming winter. Waterine mas
 la mind lomalition the are lardy, and are waly grown in gome turfy loam, with a little mantio hild :and.

THE HORTICULTURAL SOCIETY'S SECOND EX hibition.
Thas Pumsymania Iforticultural suciety will five its second ammal Chrysanthemum show in IIntioultural $1 l_{\text {all }}$, in the first weck of Nowmhar. hast year's show, which was given experimentilly, froved such a sucress that it was letermind tor make it an ammal atfair. It will be
 and fane collection of the popmar pant is assured, and ammas the outside contrilutors is the larem

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714 Chestnut Strect, Pbitadtiluit. IPenat.

## THE MTSTERY OF FLOWERS




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 The fitmaliar " Balmof tibloght" is the matme of a plant




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 fir tren, alld sheld was the respect that it exerted that What ('hrinflanity sprbal into Eurntwill conrls, the Balm wif riblatl cimas to be mangled in the oil uned at the Gomation of monarchs. 'Jho Coptid' ('hristians had a ralition that what the 1laly Finnly were leaving



 shery hation the tre water amil rested.
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 be envatal, lint remain onn, in wrder that the
air may have free aem. Any particles of milk remanims in the pans tom previns atting seald the pans well, but fullan them to air onit
of doors also.

Feen Fon sheer.-It dues not rpquire mbly graing fir sheep. f mixtur, of wht traw, hay and com tops, with wate at hight, will kety th
 shexp. The eres neal erain, and unless pro rand beath it will

- The Fimhat IIoese. - Ittention bonld a


 new, A hom that cansot afty le med hy any
momber of the fanity hombl no be therated on
 many such fanlto as biting, kipkines ano stuh borness, are the fruite of imprower training and horse is also of lens valne when uftered for sale, horse is also of lems value when oftered for sale,
 thrmuch a cutter, make the hat fami. Hay honald be well shaken hetire wed, we what i
hettor, it shombly thenehty mointened. the diftionty may be leaded ley atroiding the

Tife Texas Feyer.-This disease alwaysorig when the natire cattle cerne in proximity to thi with urnative stock than with Texas catthe, and
 dune othorwise in the shape of medicines.

$\qquad$the common stow, the whall breed being aetisHecemen mothy partares, and hemally mith
orm, and commands a ready sale at all times.

- dien he THE Calver-The casicht amd bet
prive ex+ry alternate cow of her calf and competh" cons in the stanchans she will not le
low hint feet for a few days when the walvec ar
Thrmad in, and after a time she will berme ac
liettish the lfurs Fat-Corn is the beet
rende when fid in connertion with gromm oats
Sirarly all farmer-kerp the hoge moteded for

SABTHESTMK.-Salt ionpephary fir namals



1,r. rimkled

familar. which orathe ascint them in firm
marits and value of sumbsurk - in.fill of torce. l'oularitite of form are
triking in eflet. and are alwas rememberd.
Milk Fever.-This dinease reems almost anepidemic amons the "fancy" cons at present,
and it in not eredatable to the breeders, ats it indi-
ancern rom his cols with the chances if
does ont fampuse the lireed, and dom ambelyprejuline the arerage fammer asainst the pareherts
Faxir phel 1 S .-It is 10 adsantage to a breed

netrit alone - lomlal be the quide, and any bepart ure from such rule is sure 10 सnd in disalpointment, as well as injuring the salles uf stew in the future. Reactions in price for stome, like that of other tranactions, are sure to mene, until finally a leved will be tomal where ralues will rest, and the samer this takes date the better fir um dairy inturests. Gur breeds are tir useful purpuse and mot for ammement.
Tine late colus. - As but little serviee will 1a. requiral of the loromb mares, they shonld arar the whatand from the wils. The common praction of feedling such mare on limited rations
 ardud in easily a thriftr condition tha dame mat be fell liberally. Gise the marew all the hay they will eat, with a good ford morninge and night, of two parts eroumd nats and one jart corn meal, with a ittle linsetel meal.

Mutton Ann Winl.- We attach tor much
 hat hecanse the production of matton is manle a econdiry matter. It eamot be anonied that in smo lanatims it is ranier tor raise sheep fire wool rather than fir muttom, wing to the facil.ty with "hich it can lee tranowreat to market, mut leeing probinalde. lint it in datotiul if worl is more froftable than muthom in thone sections of the -"untry that are hat a few days trayel by rail to market. To raise hep that weiph abonit seven-ty-fire pounts, is mot profitahle, undon early lambsare sumed. Jlow wasily a floek of sheep may be made to bay a profit may lue illustrated fy tating that amme the "xturd bums, are me sear ohl. While such weight is, of eonrse, exempional, ret it indicates the great size of a pure breed as comparel with the bent members of anmon flack. Not mily the Oxforda, hat the Shmphires, Cutnwobs, Lincolns, Hamshires, amd Lememters, all attain heavy weights, and really improve a common tlock in weight and quality uf then. The elip, of wood is also heavier, and as a single male will improve all the sheep of a whate neighborhocol, there is no reason why matton shoult men be more profitable than wool.
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tures, road, track. and racing pretures;
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## ЖНE POULMRY YAPD. <br> 

## providing a supply of green food.

One of the greatest difhenalti"s in the way of kepping fosls in winter in that of procuring is
 up fur winter, it is in wremlent time tir makine
 it conveniently for use, smon letter mothom than bury ing the heads under gromel munt he aldopted. and this may he dome hy pawing then clume together, with the rowith under spomed and the cablage covered with stran and corn-staks which may be remown whemper a supy
desired. As poultry are not partial to frizen cablage, they may lee "hopped and left over night in cold water. In fact, loy placing turnipIn enld water to thaw, they mas be thy phed amb fed raw alsio A propurtim of raw vesetalbes at times is hichly relished lof the fowle, thomgh a mess of comked finnt is alson we cellent.
We can cut rye this mon:h fir ureen foom. The rye will not be very tall, mut on moch the better. When cut, bet it be driad enonsh t" prevent fermay wilt; but it will h. tendir when matitened with warm water. It reguirw hut bery little labor to chop, a few handstull into short leusthes once a day and it fed in cenneetim with cablage, a goond dixh of green furnd may lwe supplied. Wh:
 procured, and also fed with less lalmor. We ars not stating what shouhth te fell, fint what may bee done in November. Of comest, if whe has lettome in eolld frames it may be fend, lint lettuce is time valuable at this seatim, whils callmate is alway cheap, especially as a cincle heme furnishec quit. a large meal for a flow. The liay from th. seend growth of clower may be cut up in winter also, and a portion shumblue phered atide now fir that purpose, white the small where potathen maty be used advantageously, when buited and mixut
 every day, as a rult, bit if nllawod
week will be fonul very buneficial.

## BREEDING STANDARD FOWLS.

Of hate rears there has been a tembmey in the part of some to hreed pwaltry fir market thme ilhe, to standard requirem, nte. This cannot h., thone. for the reason that two muel attention is devuteni to the undesirable prints, when breeding to the standari, such as cumb, wattles, earluhee, and legs, which compels alreeder tudiscard all imembers of the flock that may not come ur, to the points demanded. This necessitates the rejection of the stronqest and mont vigorous fowle, shomis. the comb be meven or the face a little font of color. Tor reject al Lugherio of vigornos constitution becanse the eardhe may have a dark spot on it is a suicilal methen, which must in the end result in dpsibity. The majority of thome whe are interested in poultry are desirous of derivinge a profit from the sale of cags, chicks and andrlt fowls in the market, as linyer jay mo attention to color marks; and yet it is not to he mulertiond that a forl is not pure because it his a sperk of black on a white \&ruml, on heeause the ("oml, is deficient in a paint or leans to one side. We believe in breedins, or crossing, from the pres breeds, for they are hred fur certain characturistics, but there is uo reasin for making selections entirely from cullor th the exclusion of that which is more important.
Breeding poultry for market purposes should be done with a view of sacrificing everything to vigor. Health and activity are important factors in successful poultry raisius, and this can be host obtainel br judicinus matine of thove forts that will give the sreat west return for the care and labor bestowed. The liack spanish fowls are among our best layers, lynt nearly one-third of the total number of p ,nints required by the standard are given to the hemellole, a course which is destroving their usurim qualities. If a hem is a gond layer, is carctial with her chicks, and pos. sesses a strong convetitution, she will prove more
valuable to one who trivels fir usefulness than aluable to oue who tryelle firn weffilness than
the best hens that arn hrell for standard require. the hest hens that ari hred for standard requirements alone.

## breeds of geese.

There are six brecds of geese, and seven, if we include the wild varietr. They consist of the African, Brown Chinese, White Chinese, Egyptian, Embden, and Toulouse.
The African is dark gray in plumage, with a large knob on the head and lieavy dewlap under the throat. The Egyptian is black and gray in

Ahmage, the monder parto ot the buly a pale lomtf, pendiled with hate lines. The Whate 'himse has an urame collored knob at the hase of the bills, the lowly being white, no enlowl bathos heins on ang jart of the phange. The formo Chime is sumber the White in shape, the on the hark and winge than on the mulur mets, while the kien at the have of the beak shomble he benw or hata. Tha Emiden is one of the lar.

 larwo gonse alw, in con or light gray, and liku the
 Erombed. (rf the abwe varietin, the best : me the he mation a Tomlonee wamder with an limbeden female, so larger than either of the parnats.

## EeEping the droppings in winter

Wr have siven several metholk for saving bunloy mambe, lant as the volatile matter is when the weather is wam, the manme may lee kept in a more compact fomm. Pry earla is ant "anily obtanable when the cromm is frozen, and tow bumb dampore in the guarter does no facilitate the prones of cleamme. Why may mot two valablle fertilizerw he combined while atving the manura? If suhbate of fortan kamin) le wal
 anbers an a dininfectabt as well an andornat, bat should the manure hervin to terment, the qusenne ammonia will be converted inth at alphate, and remain in a sultil form. The portanh ithelf is a valualde ingerelient, and als the kainit alos contaim traces of magnewia and lime, it is till hether, lt is charap if premerel in the crude tate, which answres all practical purpuses, and is -uperior taplater. One part of the kainit th cue of the droppinge will he sufficient, thongh : larer mowrim of kainit may he wed if hu-
ferred. will cive it a trial.
the growth of young chicess.
Comblaralh, diserussion as to the crowth of ymur fowl having reached us, we give here the Halt of "aroful experiments.
The trowth of chicks, as asertainem hy us Murine the past three months, was in folliows,


Stale Bread tor Chicks.-Thmo in mothing hetter for young Willk hetorste feriling
The Wild Birds. - Nowattempllit biven cuccessfully mande hern tamed and croned with the comanom tratedn
Governing the Sexes. - It madamen that by matheg hiree

 Dieling for Bowel Disease - Whan the chicks are atfleted




Brahmas and Common Fowls. - 1nardor t, increase the size

 Dure Brahma, and make bettor bursere for chacks.
Dats ior feed. -They shomblatways be ground, if passiand and mixed whth the whind fomermes the hens hey ill lit eaten rethly, as well as bemg mare digestifle.
Leghorns and Plymouth Rocks. - In croming thene breeds. hot humbick Lerhern and Plymonh Ruck hen should while the colara are nomply the same., It is a more cumpatible eross than that of the White or Brown varieties with the Plymuntl Ruok
Ducks in the Poultry Yard. - ihncks shomid be allowed as monch herty an powhe aw brey are not partal to confinement montry vard with hentw they hecmene quarrelsome, and son shombld be kept meparate.
The mites. - The muat tronherome pecta are the small
 grat their fowle th be fipe of verman while they ane fall
 the fathers, is exadlemt, and the duat math mar be made

Rules for Dhservance. - Kerp the roups wirmand dry.
 batehing as mobu as lath. Hath your pallets fur dext veat an sum an fumble. lise only marehred mates.




Breeds of Bantams.-simbe brembers hateb hantams as



 rather than unflumos, but wh belteva thay will praduce
 her bre+eds

The Rare Breeds.-Imonis the rare beets with which forathers
 Which bave a beard molde thw lwak, rachone aromat in the shape of a curve to the batk of the eyos, the silkies,
 of the bark ill a silky maxs, am lhos Eultanc, which posspes a beard and corst, hap phonage being white.
The Best Condition for Laying. - White it is suggested that the ponltry be will fed, 11 is mot bast tokerp the laying hens too fat. Twide a day is oftem enongh to feral the fowls. and they shomblateriven only as moch as they whll at ap emtirts, lationg mothing on the gromd.

 dapriving them of exercise. Lat lhan thathe bungry betwen meats. Fivercian is the hest montedy for pre-
 porlud 16 sfrateh and hom for their tood, to a certain evient, it will be beneficial.
A Cheap Cholera Medicine. - Tike of bypo-sulphite uf soda
 wowl ontequartat of a poman, red pepper onequarter of a jrand. solphur one-rparter of a pomnd: rosin, sat.
 fine ant thatim, and as the mand During the first quantily shondrlathas be on for in corn meal dongh mising two tablesponatios of the mixture to each pint of meal. shonld the fow is be very sick give each a lea sponful of the mixture in water. It is it harmless medibtue, and may be given as a tonic once a week, by mixing a tahlemporoful to a quart of ment.

## ©HE 万OMSEHOLD.

## ALMOST THANKSGIVING

| - lman mate to |
| :---: |
|  |  |
|  |
|  |
| e $m$ all point urped, hat that, witls mia |
|  |



 chen", to be weleanel with upen arms aml ylan? smilia, amd a burs, bustling eatre for arr romiturt? Ext the sirit ul the thou
This is fexiliarly an old-ta*himmat Smoristat
 father amd arambanthur, ind very pusibly tatho







lurkey, with its eranherry allure it tho whar the




 catchups and samees. The sile table filll of pion





 well.

If fither amd mither cimbut mome to yrus, it i
 pare atul responcibility, and Joaving thom
 their own hasce.

It is a hard heart, indenen, that abamentand un
 moller certainly fails in her duty wher dom mat

 But : Jug assootated with this dag, which
 for whom nothing is lrepared." "lhin is it service most acepetaind ta llim whon has aid
 better store than full huras. : Thote is mo
 Wave ayrant ms, that is the jrutyr of tme

The time has come when the lawns, aml cam and light callenes mont be tolloud in and

 a what equmbe burment for half a year in a ilathes
 iny them. I like Ju*i fo have all hut the white dresses neatly starcholl and irmmen, amd fulter aspay in a harge clust. Then when the warm reather comes down smblably nown ms sume spring marning, it is lome tho work of a few min. tles tofreshen a druss with it lut imon, amd thore it is ready to wear. White dreses will need boiling and blewhiner probathy, when their time fo be worn comes around. Su it is mot warth while wastime time shang them mbe They may be rolled up rombl dry, de winl as any way. It will he a grathelp havt prinz, if wolloe to see at, t. Have these laid away dresses ald in order,
nuwed, and mixamer buttons expecially, reblatid.



 11] -



 al then qumbting themin flan mont laherious t:anhim, -hw mont have it full haker's dozell
 hrol thry lowk likn at tulip, li.d on

 frlis. I was mat fratht when the dian
lint the puint [ wiNh tomake ic, voll rammot la


 jut- - Hit than.

READY FOR A CRANGE OF WEATHER









Thane which waye stsalable for cutting dhan


 robltal allay for the ar-wing machana





Ifter the thoroberh invistimatims, it was deriohel fire whon new girmand mand la hatazt. and th



 The next fiew diss were piven to similar


 their time whre taken arofolly apher waslad,






 and rath gon aluout than with twiee the monfort, sime the odd are all in the ben orater we cith put
them, -ready for any change of the weather."

## THANKKSGIVING TUREEY.


 olname it intulmiliner water, and then into cobld Prain :HAd wju" it flry. Jrapare stafing by akine dry how
 motil soft. Then armat, wrol] with the hamls.

 hat it maye nut lee toon maist. Jinlsimsile of tur


 Jown tirmly, Juon the wings clant to the sile
 is lettor to stam it two bornes. This may be asiby drum 1 y atombins a couble of busins in Fonr wah twidev and sutine tho driplang jan

 with turkey tor roma, after momming. Them a fork ent+rs the lorean ennily it is donce. Baste tom amm seee that it is a rich brown. Make an homblance of eravy of tho drighumer by adming satur and : sumonfal of flenr ribibed smoothly in waral water. Plaane da but ad the giblets.





 is builinir water, tour, rasins. Stoin 3 hours.
 enar huter lwaten sumothly, 3 weres beaten

 lried eurriat
1.AHY L.n.dVF.-With 1 quart of daur mix 3

 fuint of mitk, molt : 2 wh hutter, ind add (a) the flamr, tacether with milk, and proceed to knwialiom, roll $\frac{1}{2}$ an imeh thick anll cat into small
 ('HIMKEN l'IE-( (ot mp) and boil motil tender
 wor milk. lioll very thin and line a fourynart binn. Put in a bisur uf the chicken, well

 fando jn whiof tha chinkyon wis lmited. Roll a fin twporn-t. cont ont therentre with a cup, and thromerl this aldel mome wh the grave from time to


## 

 fin shumbterinu hors, we call attontion to the

 cxcellent plan reqommerndiol seraral month ago,


 the majority of tornors kerp san-ing in the same


l trical at lome time to make goot pie that wonld
 ur bes. Then I reand that it two tumblers of endd watro wore dillad to the som junt liftore the rust wal fat in, the dou?l mambl latie time to rise lofture it bearan tu bwil. I friml it, and ean herad every timm nuw. hationg the erust as
 Ahurh, wet with milli, but not s. short as for herait. It is rxeedlent rathed thin smed latid over lwifml lueft and eablage, alomit filteen minutes
 it when they rash in, famishend, on of winter day.

## F'ree to Ally A Gill WATCH

 Hanting

ODDS AND ENDS.
Amone the Jewhin it was a stambine ruluot the Order, that aftor an appliration tustuly tur two hour, the mind a' the student somble be ubbent by some relaxation however tritling

1n lapan wheat is swn in row, with win. Grace between throm, whirh are istized fir than cucumbere or some other veretahbe takiits phace, as the lame, undur tarefinl till:as : an crops in a year.

Perpetial let Watra - 1 sendman in Brandon, Vermont, han al curiolle will which mazales evert than wioe mon, the riontist. It is zabut forty-fime fert deeple, and at tha dopth of
 to doiso to the lontoma. Numatter how high the themomuter runs the i... beror malt, thongh it grews thicker in the wintir.

In the-biography of sammel J. Mars, he staten
 tery, where he oherved the ild tomit of one John otio nenet. Curiosity indured hime to low in and open the lin of the crumblage cotth. It ${ }^{\text {en }}$ fonme it entirely filled with the filmone ront- of the eln, and stepping out he saw the nuhbe with-
 reprecented all that was material of dohn chio

A Pome (mande, When 1)r. Framkin mother-in-law fomed out that the gonos man hat at hankering after her dathere, that enewl lady said she did not know so well ahout givine her daushter to aprinter. There wope ahready
two printing ofliee in the (ondobe, and an
 question whe ther the eountry combld apport -
 it would be rather discomagine for printer nial wife hamting.

Alone the Tisris the villagers in bot wather bathe it the river before retiring for the nisht and if the hat is farticulary yppocion, the repeat the bath several timos harine the bisht, The lutat and the varmin of the hats make mall children restless and trouldesontr. Henere the villagers make baskets, whith thry line with some soft material, and hams inmong the reed Which yrow in the shallows of the river bank The halies of the village are stownlat niehtial in these bankets, tied mader a comer of hacket work, ind remain among the reeds to shap in peace until mornins.

Gitave labrems.- Whan the buly of Renger William was remored to at hew reatior hiane it was fimbed that an apple tree which had stome at his hemd, hatd struek ite ronts down deep into the very aftin itself; which hall timally moldered away. 'The main stem had enrvell hack of the skull, then bramehed at the shoulders and ren
 ran down the lack bome abain dividime matil reached the feet, where the fibres chrven urward The whole ratime of the frmalor of lihnts Island lay ontlined in appe tree reote, which fad literally alsournd the man, The the had


On the 3d of luly, 1sim, a matre white mak
 three feet from the eronml, darimes a hish crile of wind was uprooted. A shomt time atherward the immense stump was removed preparatory th leveling the grombl. The hole that thar extrated root left measuredseren feet in theth amm thirty three in circumference. Foner fert bolow tha botem of this hole, or cheren feet frem the surface of the ground, was fonnal a rar rade stom ase entangled in a mase of filsons runts that had been ant off from the main roots of the tree. In this eave the ase mus have buen burieal in the earth before this old tree was an arom. Now an
to the age of the tree: Ther wore not best than to the ange of the tree: There whe mot bes than
five humdred ringe elarly to be trated on a see five humbtred ringe elarly
tion of the tree afterwards.

## JOHN HOWARD.

John Howard, the philanthropist, married his Landlady, Mrs. Sarah Loiton, an elderly widow and although she remonstrated with limm nom the impropriety of the step, considering the great disparity of their ages-he being in his twenty-fifth, and she in her fifty-second year-

 Patimate for hor kthanes and atemation haring Hr. Howarl's lite. The land, it anotare, was
 ckly, and that m, ranobl of intrent cath latye are that she was pour in comparion with hime
 makine owr the whole of hor lithe fromery to

 on the many intano of swimblice amone armer, because they sign thair hanm unghand-
 of a wity stramer. But the eomutry has mot the manombly of caralon ignero. A man in a

 matare of the l'redyturian wheli hane in the
 andel vathers to "sign a potition tavoring tho









 thatew all mus lifelones motioni about the stability if the "arah: The cromilese ran from the rive


 The sext thonght was to ruin to the monntains: but they realed like dramken ment. I then lonherd toward the sean, hat, los! it hasel inel. Shif, whim a tew minutes hefere were in depp water, rowked on the samd. beins then at my
witn-end, baveron alone were valm and mandiaken" The mild "ittholtake whith hattly visited
atted the beluls of man witl resel to the tability of things in moll the same way

1) THE PINE KNOT LAMP-Th Tate distin Mixhol molithian, and man of hareehearted


 sucar makines are mot comsidered favorable to literary parcoit, lut yume Weed manareal t set throush with a good many valoahly bakes in Che sugar wamp, "During the lay." he sais "I would lay in a sumb supply of fat pime, bo ful mofte in the sugar eamp rathis. I remen her in thic way to have reald a hintory of the Fremblewhition, and to have abtained from it - betcer and more aluriner kmowedge of it whts and hormas, than I have received trom all

 he the men of tank in the noxt seneration.

## miniature machinert

Armill, the Lombon watehmaker, eonstructed Watche fir ficorse II I, whidh was set in a tinger ins: hot this vas nothins uncommon, for the Emprom 'harlas V., as well as James 1., of Cherand, hand similar ornamente in the jewels of heir rines, and this speries of mechaniom is amptimes witnessed, in a large seale, in the inracelets of Jadies. In Ilaby's Insman notice is taken of an exhibition at the laname of ome Boyerick, a watchmater in the Strand (1745), at which were shown, amoms other thinss, the Collowing curionities: t-t.-The farniture of a Ciningerom, with two persons seated at dimher nomb a fooman in watitur, the whole eapable of beine refored in at eherry stone. 24.- 1 lamdan " ivary, with for persons insibe, two postillions a dricer and six hores, the whole fally manated and habited, and drawn by a tea. 3il-A fror

 illlert - 1 .fll.

## URNAMENTAL GARDENING IN JAPAN

Exemp in the wadene of the Jowhhit Monatry ot hangine in 'hina, I hate neseq wen
 more barine than tho mank- linluce and truix, art into tha lifewize resemblames of
 fainten wom ur paper, the elothes, bince or
 Anlishttialla harmonized palore lu unt of
 mbler, wats a hap pawime maternath it, then


 by this -incolar art. seane from well-known play- are the bume embarindy formbar of all these somes :and whe of tha insthin herens of liphat, shown in eomalait with in cicht healed mumetur, while the lally, for whem he is fiehting, cits aphart, elnthed in red, fellow, and white chrsandhemmas, the " hole formine a lamdseape ower thirty feret lons, is alwas the rentre of jogand the air in at:ll.-I"bonten Trucks in Jopen.

## DARWIN.

Ir. Charlw li. Dirwin, Erambon of the anthor "f "Th" Botanic Garlen," thal "Lomomia," was loin in lata. H1, showed at ath early are
 solection: the lresurvation at the Fiverad lame in the strusele of Lifi.". Thin hork had hidrlly 1 een publoben when it was foum that a suat ericis han bern reached in the history of cinueq and of thousht. Mr. Darwin's etentral deal wan that the varinu ywins of pants and
 monlifiction amal chane throngh a process of inliphation, ly virtue of wharla such varieties of tho spmites as are in any way boter fitted for the minst work of the strussio tor axistenew, are pathed to -urvis and multiply, at the exprense of the whers. Mr. larwin considers this pria"iphe, with, inlowl, whe other and has inportant rallu- "apahle of explaining the manner in Which all existine types may have denembed trom man or a vary few low furms of life. Alk

 number of pouspition, athl her holds that a a malugy poinn to the lolief that all animal and plamts, Whaterer, have dewodrded from whe

## the Peach

 and in clandy allied tor the almon!. It is arner ally resarleit as a short-livel tree, hut in at geniad soil and climate it lives to a gowd ase, there boine in Viruinia tros that wereplanted serenty ears ago, and in Frame a vigorous tree that is knewn th he ninety-five yearsold. There are a manher of amamental rarieties of the pach amone the bent known of whied are sereral Auble wats, whish prome a profusion of thowers as donlab as roser; me of the e, the Camollia Flowrond, is apercially beautiful. Some of them hear fruit of an imlifferent yudity. The dwarf varietice are chrions prombeing fruit when ane or Wo tect high; one of these, the Golden Dwarf riginated in Comeia, another is Italian, and others are dutralian. The Weeping Peach Mcinated with the late William Hedd, of Elizaheth. New Jormer, and bears his name. When grafted on a phom stork six feet high, the hanches hang town like thome of the Werping Willow. It probuces an abmanne of frait, Which, howner, is fit only for cookine. A blomed leaved, wr furp-leaved varioty of the prach is rary show in the spring, but the leaves do not Then their dark purple during the summer.
Peento or flat leach of Chima has its frnit so singularly eompressed that the ends of the stome are only covered by the skin, the flesh leing all at the side.-Appleton's Encyelopedia.

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## EDITORIAL GOMMENT.

By a inecial arransement with the fublishers of the hoone and Furm we art emabled to oftor it
 very ally edited. Try it for the year.

Nomember. The earth, during the season just passed, hasbeen a true frieml and faithful servant to man. It has latoreal harl and proluce heavily. Now contes a season of rat, to which it is justly enthten. Trees and shruls hase de nuled themselves of their summer chaments. Sombre hues elothe the picture fonmerly brichtened by ghosey verlure drowsintes hats take the place of froshnes and sprightlinss.
Earth, after a lones strugeste and mixhtrexer thons, neents recuperation as well as man, amb will find it in the lomar and deep slap of wiater. Bat the farmer is mot ready to take his calst. Ih muct wake while mature slems. Gom him ha fallen the eare for the domostic anmials, the tank of providins their ferel and comfort as woll as his own. He mast ketip the wheele of the tarm clock-work intat, the learines oilenl, ami mak, erery necesmary preparation fir the carth or awakening in sprins.

The elontion this month will abonth a deal ot interest, naturally amel promily eo, hat all the excitement and turmoil matly attembing such an necasion, whomlal mot cans' you to los cect your legitimate work.
Secare your corn crop. LIak and draw the golden ears to your cribs, and the foblder to your barn or sheols. Such work is profitahle; pioliti cal disenssions are not.
Fix up and repair your stablus and hom patch leaky roofs. Nake the dowrs and wimhan in your dwelling tight. The cold wind amb
Torms are gollon care of your stock, and give them a proper coat of fat tor winter protection. Plenty of good bedding satres and makes grom manne Animal heat can be kept up much chouper hy warn stalles and warm heding than merely liy feeding srain. Corn is more costly than strais or a few hoarts.
We have allways seen the hest eflects of manare When applied mear the surface. Vee ine mamare, barnyard scrapin
Duaw a few loads of muck, ary soil, or roal dust, to hre used as ahsorbents in privies and stables.
The hen honse flowr ought to be corered with a few inches of fresh luan or muck, the incitu whitewashed once more, the romsts painted with a solution of carbolic acid or with kerosene
Gather and store a quantity of dry furest leaves for bedinter, and especially for the hen house floor through the winter. It gives the homs a chance to scratch, not only among the leaven, butalso in the smanl leheis it, which this eos ering protects from freezing.

A large manure pile is the beginning of a gollen harvest. Propare a compust heap and a heap of cumpot. Eupty the privy and mix it contents with the stable manure

Plaster is a gowl aborbent.
The dropmons of fattening hags are nearly as valuable as poultry manure save them carefully. Mixed with the hen manure and with muck or loam, they make one of the best fertilizers for the garden. Apmly as a top-dressing in spring, after plowing.

Fret the pough going in fair weather
l'wevile the necusary surfae dranage for your plowed feld, and thas prevent walde huring irechets or flowds in surines.
Th, bot meshect your youne mehards. A mat f whitewah or of fresh hand will photect thent from the attadk of rathit.

## as the greand is frezell hat

('lown and timothy are tamtarl hays, ant whon used together make exerlint feedhes. A Gmin i- amally allownd to stock daty, advantage may low takn of the comeentrated $\leq$ rain fimn to Whltemate the goml gality of hay with othe kind that may nof hos highly relishod when feel alone. IFay not only is in itwlf motritions
lont aloo bulky and diatends the stomach, which
 Withom hay or somp other halky matter would
 the to川 uf cornstalks, or evon the whole stalk, Ghonld het he mixel with the here hay, and thu matw wotal. Stock will pick fom the foom the trond and rejoet the had, fot math heporms on the prowe preparation. We have callon atten fon to the importane of cutting all coinse mia terial into short lemethe he wasing it throush fomber and have dutter, our that has a contrivame fir enting and eruhime as a matter of eronomy If temed is thas preparel, then manatuent, slighty altent, and yrimkled with meal and hran, th coret will rat upe eleat anythime that ean he
 "ill not sive ont before soring, as is oftom that "ate. Sotar as the labor ot preparation is an rerned, this is the time to utilize it, and a lare
 ting the :utual fember value. it if sate to saly better than feeding stork exclusively on a sime kimul.

Let as portert the purity of our and homos Whach in dearer th us than all party athliatiom If by apportas a partwan abontry band w have ahohered un our hasom a viper, whase penotura herath hav jelluten the fure atmon phere ot our homes, and endansent the hlatiol


 wit a deady panan in small hat offontive mails or woskly than erlar faniliarize the minh a the goniz with lim, slamdro, and filh. Giom forbid that we bexome a nation of lans: hat the
 B:atrome remedien arn necessary in extromperil If yon dalle or wewly papers are of that chat that you wond not have your chilitren read it,

 fimily abl resent the imalt. Write to the jubl-
 ant want yome lice, now reme tilth. Your the is coaked in rank paison," lieform for the prese

- rateretion to innmence

There is no better time for ditching amo umicr leanine gour fields than autum, when th Weather is emb emonsh to formit a solid day's work whon the grouml is comparatively dry and halmer theap. Fint we would pmphasize that, nomluss such work is dome moll. it is hardly worth doing at all. The majomy of mana are ser. viceable maly for a wery few var. Slightine important work is highty muprofitald
Tile is perhap the best. Aext romex stone
 there shond be a gernd srade and an und fommat tion in the hotom of the diteh. Boarh are gend for this purpore. The tile thomble laid with sreateare, so as to have the "prompe combet and every ditch filled up with small wones, pethface, and protected with straw or weets against staplage by lowse suil.

Keep your sham. The low price of wool calusen by a general stagnation of business, is merely accidental and not a permanent institu tion. By crowdins your sheep on an unwilling market, you only disuble your loss. Wool and how, will rise in price again. There is no reasmon fur panic ur stampele. Anover production on wom is not th be teated. The bow mice of wool and woblen sunls, however, should be a stimulas toconsmmption, and if it were to lead to a general adpution of the habit of wearing wonlen milerwar, the loss to the wonl producer health of the population generally.

It is a pomar eror that the dranage is al It a prphar erme that the dranage is al are dus. Where a thin stratum of fertile surface soil, say not more thon 12 or 18 inehes deep, is anderlain hey a clay sulnail impervious to water, it is moly hecessary th lay the drain down into the "hard pan," and a dopth of $2 \frac{1}{2}$ or 3 feet wonl abwer the same purpmes as one of 4 feet. The formor depth means a savine of labor ant The former depil mean anand do service for a sum many years, but mach depents on the way it is cometructed. Newlert there is ruinons.
"When Le Thac's successor, Loring, isn't hrawing his salary be is makingstumpspeches, Thbludetphin Times.
The abue eriticiom is rather devoid of charity. The commasioners warls can have no pason to find fand, if he would give them, in addition to the reliahle pumpkin and squash reeds, necasimally a little reliahle information, though farmers might like it still hetter if that intormation were more of an agricultural and less of a pritital charater.

People in the simath are unw setting fruit trees. We winh to remind them that thrifty trees, two, ir at most, three year whare the best, and far preforable to ahler ones. Plant them as carefinly a rou would set abbage or tomato pants. Trees himh be set exatly as ther stam in the mursery, as well in resarl toilepth is to the points of the compas. In wor Eastern states the tols of young treenare senerally inclined towards the east, and should be replanted in the same way.

Suedman ant nurserymon are preparing their atalusus for sprine ilistribution. Let them remember our alvice to be moderate in their statements. In giving their lists they should alwars desinuate which variety is early, which medium, and whid, late. As a rule, the langnage wat in demribing rarieties is anything hat conofise. bet ne know in plain worls what kimbare considerel the bast amb most reliable.

Ottings of currants and gooseberries ean now the marle. Take this year's wowl, cut in jieces six of eight inches long, and plant in nursery rows, a few inches apart, with all hut one eye efoch atove wrouml. lack the soil tight aromod the cutrincs and muleh, or tie then in handlas and hary them in sand in your collat matil spring.

The" Eeonomical Fruit and Vegetahle Drier," mannfactured in Xechaniexhmer, Pa., consist of a hot uf trays or sieves hedidy a metal frame to he phaceal in the oyen of a cammon kitchen rance. Much otherwise watad heat may thereby be milized in the mandacture of evapmated fruits and regetables.

In acernlance with the custom of the puhlishers of this paper, a special wlituon and premium lint of 3 gh, inh casios of The Farm and Gar1, E will be matifer in lheember of this year. A number of our sulneribers whose time expires with becember, will receive this preniam num ber free.

Tife Faim axi Garinex has emsistently rethas all doubtful or hombuy alvertisements. This has mate it one of the mast valuable medinums fin alvertisers conducting a legitimate husiness.

In a frw lays after the receipt of this paper the farmers of this combtry will he called upon to take part in a presilential election. THE Faimi axd garien has no views as to the murits of the cambilates and prarties in contest but desires that every one of its realers should have. It is the duty of every honest man to take an active part in fihtios and make bimself felt. Vore, and vote intellisently on November th.

The interest of manufacturess and farmers in this comatry are the same, anl it is a mistake to think that any chance on the taritl which wrull injure manufacturers would hel! the far mers. What both farmer and manufacturer need is a proning from the tariff lists of all eluties not montective to American industries The ininstice and ondities of the present tarifl are the chief reasmable argments against it.

## Fich vear as the fal! months come around our

 suburiptions show a satisfactory increase. In Decomber of this rear a larse number of our subcriptions expire. Let us ask each one who reads this to look up the date his subseription ends, and rener it with a few new names.
## GIIPPINGS.





## From" Ow Comtry Homs," trimenfield, Mfiss.

MANURE FOR NOTHING.
We will not discass the merit.; or demerits of the so calle phosphates. They haw in wite in agriculture. We want to point ont how bablure may be had fith nothing, and thin hatstances ahmont entirely those which are purchased under the different brands as hosphates, known in the mark+t it " whellhics," some people call
 ton. It will mot only pronsete hife when ted to inmmals, but it will make growlla, and recent experiments by Prof. Sanborn have shos in that th whl make growth equal to, if mot better than com. It is first class to make milk when fed to cows, and it is smertur to make pigs grow; ins liket, it is one of the sery leat of fumbs for them. It the getaral purpene foen more than any other, onless it is onts. After heing fed, and doing its part to increase the innmbe of the farmer in prombting growth-as rextement, manore-it is worth all it cost.
 Plenty of cows and lots of milolhags for them, means free manure am better cras.

## A. G. Lewis in "Guritners' Amombly" Philatica. CULTURE OF AMARYLLIS

I have bren very sticcessfin in the culture of amaryllis, and offer my experienct for the benetit of the readers of the Gerithers' Monthiy. I have sume almust in bloom through the whole summer unathes.
In Octuber I put the futs on a hanging shaf in the cellar, and water about once a month mint Fehrary, when I shake out of the pots, and reset in the same pots with fresh earth. It rarely requires a burge pot to het a good blooming bulb. Foor inches is large fnongh fin most Emils, After repoting I put throm on the shelf again, and water onre a week ontil about the enth of May, when I place the pots out of durs in sun or shade as most convenient. In a tew days they hegin to bloom, aud some of them than nowers seypral times during the season. I have n momber thater I grow. As the flowers open I take the puts iuto the hoose, where the flowers are always admired. For day or night isecoration nothing can be grander, and they always pexcte admiration. For those who have no gremhotses they are just the thing.

## From "American Cultivator," Boston, Mass.

Farmers are often deceived in regard to the values of crops, fuols, aud other articles, by the tabulated state ments an their chemical constituents. Thesp statement. may be correct, bot the prevalence of a great quantity of one element or another does not prove that the article is soperior, although that element may be of all others the nust valuable. There are fither matters ru-. lating to fools and fertilizers of more importance than the mere superahudance of certain valuable flements.
The mechanical natore of the material which affeets cost of transpurtation and of handling on the farm, adaptability to certain soils and exposures, the readiness with which foods are eaten and digested by man or animals, and nomerous other arcessory conditions, have usoally more to do with the real ralue than simple cbemical composition, We have hornd the potato de cried as an article of food because a large percentage of It is made up of water, and in its stead was recm mendin the starch and othar valuable elements which it contains in a comdensed and ixolated form. This adFice overlouks the fact that water in exsential to homan food, and the more important fact that the stmach wust cont

## From "Fruit Reforder," Palmim, N. Y: all setting of raspberries, etc.

There are many things that favor fall setting o raspherries and blackberries.
First.-There has been and will be for two or three years to come an immense demand for plants, and the planters at the north not eetting ready to plant before the latter part of April and birst of May, have found it impossible to find plants, while if sucl had set in the Gull they woold have hall a fine plantation growing, and not been disappuinted in getting plants,
Seconl. - There is more time tolloit and do it well in the fall than spring, and by being done then the work is off from one's hands.
Third.-By heing set in the fall they are more apt to all grow, and make uniform rows, than if set in the spring, and to make a much larger growth the flrst season.
Fourth.-The sproot starts early in the spring, and by being bandled is easily broken of, while if set in the fall this is not done.
We are most deeided in doing our setting hereafter in
the fall, and wheo set at that season we advise elther
thating over each hat ir phant a fork foll of manare, ordawing up a bank
Wr, hke ath aloer frun growers, are not particularly drisell in the rall, whle in the sprug we art hadly worked, hartly knowheg which juh to der tirat, and homee the nore we ran dow the fall the hatter shathe our work is in in the sphlig, amblantly, fall spt phats will make a mach, better growth than thise ot in the sprins, and yeld a much better crop the hern in the fall on ne durally wet groumd

## From "Amencun" Hztrnura

## THE DEADLX TEAPOT.

While good temprance pophle are decrying liquar," said one of the leading whystians of the aty, as he came into his ofthe, eraseld the information of his previous whereatruats from his slate, and hped back in his easy chair, "they srldm stoptor hank how mach harin is being done by the abose of a huvpage to which many if them are devoted. I just came from athenhing the cant of a âve-vear old babe whon rumen tur life by the pato rents infulging it in teaflrinkho. The chald becant ery nerwos and dy pephic, abll they sent for me. I


 trajut stand on the stove and day. Thus the tannic acid is +xtramed, which serves to thrn the liniugs of the stomach moto leather, and brmane on dyspersia and kindrel disutses. yes, there are humireds of women, yongg girls and ayd womm, and whationaly a man, Who have conultetely rumed thrir urs vous systenmeng Hif fressine do temprancp crusade can spare wind from its attack on alcoluol to assail tea. Prominent Christian powple and all classes of people are addeten
 (1) what in the same way. But 1 bolleve the greater general exil lurks in the tpa, hecanse it happens to be in furut
 but among the worst from a medial point of vew.

## Fhom "Erfming Tast," win Yort.

Fonr millint lettors fail to the deliwred every year

 whaterer:
From sin tu fo per cent. of all letters forwarded to the In ad-Letter thice tim their way to the person for whom they are mimendel, or are sent back to the sember. The , thers, if of no value, are destroyad. That simany let t-ra, which to the ordinary ohefrer would weth litaly unintelligible, find their way the the adressen is dith th the ware which is taken to +Nhatst ermy means hara Gwing up the chase. Whath have bell forwaribul irum postmasters who whre unable tor rath the wring che the avelope, or becanse some part of the adrares was missIng. Sometimes a writhe will forget to bint the name of be thwn on the letur he sends; again he fails to desig nate the state. Then the system of phometie spelling adoptod by letter writers is extraurdinary. Virgmia was spelled by one anxions swan "Fursenar," whle an EnGish writer having a friem in oswego, oswego county, . Y addressed the letter "Ihorse Wiggar springs, Horse Wiggar County
Ocasionally, of course, a letter reaches the Dead-Let ter Olfice owing to the incaparity or the stupility of the pristmaster. Thes are readily forwarded to the proper undress, and the careltss official is reprimanled. Ir. iregory; of the Civil survice Commission, who is contantly on the lorkont for imormation that wonld be aseful to him in lus duties, yesterday visited the uflle aul was shown its workings
One of these errors on the part of a coontry post mas ter was pointed out to him. "Tinat man," said Dr. Gregory, "shomld have been compelly to pass a civi-service examination, and he would not have made such a mistake." "That pustmaster," replied the official condacting the Commissioner, " has an ayerage salary of so per quarter, and would probably make some very farcefol, if inmegant, remarks if notithed Drat Gregory thonght it would he difficolt to hind a successor among the applica tions on bile with the Cummission.
Letters having comtents of any character whatever are carefully rectrded, and can be reterred to at any time, Money found in these letters, which cannot he the livered to the proper prrsons, is turned into the Treas bry, where it can be obtained by the owner within fous gears, after which time it is coswed into the Treasury and can only be secured by act of Congeess.

## Brom "Brefders Gazette," Chicagn, Itl.

## THE HEREFORD PROPOSITION.

We notice in your journal of the 11th a propositiom from James Gaines \& Son, of Ridge Farm, Vermillim County, Ill, to test the merits of t
le. the Shorthorns and IVereforls
We will accept the challenge il the conditlons on which
from thirty th mxty mows, and they may select a lake number and hatel thom to oborthorn bulls amb we wat

 hrith and thes baty shate the quantity of lamel to be so



 brombare if yatue as they are atle to tramonit their







 We the serad dianing ateribaty unth the division shall be matho

सtarting with owh horols, the raws shall have service chmmenting wha the lat of Jue 111 path year, and the enumblumek produce slall ber shown at the Fatmbek Show in the ball of each year atter they are two years
 ketpl th the same time, and these shat be from the orisinal herd or from their prohnce as each party may stlect, and in the land improves and becomes capratle of carrying a gruater mmber of cattle the cows may be increased. if wither purty shall so elect.
The expmes of working the land and handing the and sball be bept correcty, and a report shall be made
 carriod on tor ten years from mext spmeng, to wit.: from Aprin, 1 has.
should the mamer of selpeting the rows seem objectumalle to the Mpars, cames, we will endeavor to accommodate ourselves to their riews, the hog we would like the experiment to be male for each breed to te as like as possible.
T. L. Miller cimpany.

Frome "American Atmenculturst," Now Jork.

## OUR SLEEPING ROOMS.

A physician of mote says, "We hear a gipat talk alout matian mow-days, bat there is more malaria to be finm in most madern bedchamhery than anywhere elise." Persons who are monlerately mitelligent on other mics, appar to have small thonght, or that very per vertel on the salject of hygiene in thair slepring rowms and espuidly those ocenited by childran. The ventila thon of a bedchamber cammat be ton earelully attembed 10: und, as says 1Forace Mann, "seeiny the atmosphere Gforty milea deopr all aromm the slate, it is a oseless Hiere of ermomy to treathe it more than once." Yet nithe monhers ont of ten will careflally rlase all the windonvs, "for fuar of colds and night nir "and leave two or three chithron to slo+p in a stititig atmosphereand see mannertion lutwern the rehds and thriat truble hey have, and the ritiated air she compers them to nreathe nifht att+i might. Let the morning air and sumshine into the hedroom as siven as possible after the uccuphts lave risent; and if there is no sumshine, and it is not raiming, let in the air. Lo mat make up leats too suon affer they are vacated. You may get ymu house inied sommer, int it is neither cleanly nor healthful to snuply pack mithind clothing until the exhalations of the sleapers' bodits have been rewoved by "xposuce to the slery.
Lonk carefolly after the washstand and the various uthoils behonging thereto. The soap dishes and tooth brush mags camot be kept too scruphlonsly elman. All shops and fonl water should be emptied very prompuly, Wash ont am sun all pitcbers, glasses, amd whatere rossels are nsed in the slemping rom. Nofer athow water or stale houquets of flowers to stand for days in the spare chamber alter the departure of a guest. Towels that have been uned should be promptly removed, and no soiled clothiug allowed to hang or accumulate about the rom. Clonts opening finto a slpeping apartment are uften the $\mathbf{r}$ teptacles of suiled clothes, shoes etc.. ambl hecome fruitful sturces of hal air, particularly where thetre are suatl children. After sheh phaces the bousewife should thok with a keen eyw fur "ijuectionable articles, and remove them with an unsparing hatat. have theountered such closets, ill which one might himl all the culors trantionally belonging to the city of Colarne any one of which wns amomi tor sugrest ideas of hisease germs
Exan so inmocent a piece of furniture as the bureau may byrabsupss bechne the recipient of articles which may taint the air of yur bedclamber. Vamp and suladed woms and brushes are not only unsightly and diswusting, but lying soited and maired from day to day, will certanly contribute to ewil air and odors, as will aloo greacy and and highy-sented hair riblons, tc. Suver lay freshly laundried elothes onn in the bed, nor uir the same in your bedrom, if pussihle to do so elsewhere. Da nut hesitute to light a bire on cool mornings and eveninys: and if so lortunate as tu have an open fireplace, you pussess a yrand means of comfort and rentilation in tre ledchamber.

GORRESPONDENGE.

|  | A HAPPY CHILDHOOD. |
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|  | the firt dozen years of one's life in it, is lutter than to be the lisit of milliom withont th is hem |
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|  | hosm which he never firent. He bad buntht tha <br>  |
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|  | which han hanl taken thronth the villame 1 moln |
|  |  an whl hors: When the animal was half ermwn, it was sold with the ofher bomberathe, and that |
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|  | sessims. L'un may satisfy yenr own minul by |
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|  | the little fellow who satu mont somentinly , hat |
|  |  sibly think "my father whats." lt in mot seme |
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|  | for father, wr chill wither, to haye wheh wati- |
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blossomm of the "rawent heine fomales they re-
quire a male pantur and them. We waint a
good, strong staminat, variety fir the purpose of
 is as large as the C'rument in when it hest comes and whe that will hold wht in problactivence Wo kinds shomblab and shmewnat manar in marketed together as one suit. I desire to inform you that I have fomm the dowired mate fur the
 here, not do 1 propme to say it will wot, as there he in order now to tell you juse exactly what the Lacon strawbery is, and I shangive a true and I stan preprared to prowe by undisputen evidence its success has heen of twou kinda, a samdy ui and a dark, meh, hack lonn it has been in time has mever failed to har its anmal crop of
berries, exoputins in two inntaness, and that was when its blowntms were destroyed by frost, ather valeties sutioring equally. buring its lifetime of fritase, the plants hawe nuser receized sha on what an eastern writer salls the "slip-show" the serthe did the matrifating if pands wher werds providet the muleh. and their af the bery is a dark, rieh crimson, and attractive in shape, size, and color, while as to flavor. it has the true strawlorry aroma.
1ts shape is somewhat similar to ('rescent, and its color also, except it may be a little darker. As to its productive qualities it is just a trifte behind the crescent in that respect, but ahead of

| it in Havor and size. It bloms varly, like the ('remont, ripens with that variety and sometimes |
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FDwermisements

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$\$ 65$MARLBORO!
BULBS ANOROSES fprafinc ..... 
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PEAR AND OTHER TREES. NEW BERRIES ( $\left.\begin{array}{c}\text { POITEO } \\ \text { PLASTS }\end{array}\right)$
MAY KING STRAWBERRY!
Marlboro Raspberry. EARLY CLUSTER BLACKBERRY. JOHN S. COLLINS. MODRESTJWI. N. J

## PRINT ${ }^{\text {ING }}$



Experienges wimh frauds

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## Fine Quality. Low Prices. <br>  <br> GUNS wwork han hepast canthe

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 5 kample Jook, illacrated lremium Listsc.sent FREE
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## NEW STRAWBERRIES.

JAMMIFRS TTGCTEZ, FINCIE PIOLIFIC MANCHESTELR JERhoice 2 OLTEEN, AND PRIMO.

CEO. L. IILLERR. Ridgewood Nurserips

## Hipsm Signs on đoinner

Nature combs the ronster's heal, but man has to "omblye hwn
Why is the sum like a gom loaf? Because it is light when it risets.
" lress dows not mak the man," lmat it makes the wrmen-anurembly hamp
"1 tell yon it's histerims in the womb-shen," saitl Johmy as he mandend with hic father, aml be didn't refer to the weather, "ither.
"Will you have salt on your cags?" asked the the hotel "waiter of the enem. "Oh, mo, thanks they are not at all firmb." Then the waiter went out to connont the lamblord to see if the hated han been insulterl.
"What do yout think of ipy moustachu:", askel a Young man of his carl. "( $\mathrm{H}_{\text {! }}$ ! it rominds me of a Westrm truntier ity," "wis the amwer. "In what rupert, pray "" "lamane the sure"
"Is the earta found in fato" asked a member
 timn of teachar. "Well, Y'm net partioular alonet
 ways." "
 the Tined yirl-"sta:ik ur" "hop?" Tho tramp
 this way," sall the wirl
there's the womd-pile."

Without made toward the liehtning-ral math, we munt still recite the fact that a Naw binglamb insurance mompany that has mato mallions and is doing in great busintse, will not montre a honsw with riml of any kind on it. When their jombe goes ont the row comme off:

A little danghter of a minister, aftore silemty watehing her father write his sarmom, askod:
 eal sentleman rephenl in the altimative. "Thum, paja, why lo you scrateh it nut again

A cookery book says:-" Always smell a mall codtish betare buying it." We always da, amil after laying it, tha-for three or fome lays aftor. The fact is, you can smell a salsed condrish without haying it at all if youget wathin ten rods of where it is. The otor of a saltad coulfish is lib, the darkness that once sethal om Egypt; it i something that can be felt.

Mariy me, dalifint, th-sifillt. Mestarlint, irs axin' fhey are An' come take wht thilligaht khair, Thay affers promation th thase Who die ha folinse of the right X'll be chf in the 10 minn-suphs There's nothin' so rais,s a man, Ferninst the onld thas in the wain
 An' whin $I$ am kilt ye can wear Jist himk han the womm is with bltare Oh. Mwhat a prond widely yell he Whut they brine giny carime home, The fact we catis live
All he west of our lives on me phi
The Crmury

## BILL NYE ANT THE COMMISSIONER OF

I saw William G. Le lone the other day at Itasting, Minn. The used to lex at the head of the Agricultural Departurent, imil ased to ofle +r him suggestions almat rasibis bed tea liy grafting an old-fashimed tea put on some lanily kind of refrigerator. Mr. Le Das clamed to be ignorant of my glowine wareer. I bition him, and asked
 'Willimm, yen are mot so wrll informed as $I$ have been leal to suppmon', ] knew that yon hat almost foudcrul your temming brain tryiner to de vise a means hy whinh yom could inhreed tho milkweed with the enmmon lrish putato in such a way as to prombuce perled potato with been in jubluc life so long without knowing one who has done somuch to bring the literature of the present day up to a lofty standard and rescue it from the hangry maw uf ablivion. Gou maty know how to luwer the ruand of the shirt-stud or at what season we should shear the hydranlie ram, but I'd advise you, betore you go any farther with your agrieultural experiments, to real up on the eminent men of the age in which you live.

SEETCHES OF CHINA AND JAPAN.

## (HAITEA:

 Chinese comber, whon were rnsagel in what known as the "Cayolti Mystery." The inver gation turk flace at Iakodadi, amb resulted fillows:-

Wetuber, 1stia, fortyone monlies were taken om
 Ther were sonveral to (allat, whorn ahmot thirif-pight ware iramatered (1) the " ('ayalti."
 Callaw. Thery claaral from that pilt an tha 1 tith

 all put inta the main land, and knt them Fond was dirnwn them by a thinme cank thress wif thw hatches, and awimbtiol the men wil Witels ftime in mumbere, with hathlets, spation

 then mortalls womatal twonf them aitha kite


 sommed. It was stated thail the wher fow mom who wree on drek, alon jumped overlmand, amd
That the equlios lowered at lwat and diapathed

 cansway. The ather fome man wern dariner this
 hat returned were fatemed to the amolore and
 fim the capman, whe wast then told that an an wik a very gend man, the would spare his lite. if ha Wrath one (hinaman fill from aloft and wat killal, and eight whore wer killed in the firtht Ather this they had worre wemther and when bront four monthe whe the wome the isam -nrrounded hev ion. where the jnhahitants wire Iresseel in firs, ani rodac on shats drawn by durs 110 re they lowt their anchor dorint a gath, and
driven lafore the wind. They remaineld here three or fiour wakk. The eaptain went on
 carch of some provisions, but neither the (al tain nor the cook ever returned
trear lowing their anchor, and being driwen noth of Ilakudad, where they waitud than





 Thner time, with his firenes (a suall paty),


 he, Jinka, rablly infonded to mirrember, amd was not livelie a trap for thon, thery answoral: "hy

 then amd thom apmon then. The romaning linzu.




 Was take t" Yoddo, or, is it is now realdom, (or that Fatwon (apital, as at miname of war, and

The ('hiness are at ereat proble. On" of the fat whitets yon lwhold, whon yon land in a "hinere town, that will attrant yoinr attontmon, is
 arnd ine woman panaloms. The shaliers, 1 ,

 Hyine pare kitws, white a eromp of luys are
 cerngations with the mont serom and gratition atcolith. Wher wh men ary chirpheg and chackling to shenge himb, which ther carry in
 we catching thins to feed the birds. Their howk commence where ours and. They write from top to lattom, and from risht to left. Their lande are made by turnine the keys from left to risht. White is the color of their numming dress, They suat a guest on their loft, whinh is the suat of hamor. The stamach is considerent the ketat of understandines. When frionds meret, they shake their won lamds, insteat of shakimer eath other hy the hand; and so 1 m, from Alphat Onega, evory thiner is contrary to our style.


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## f. Gollagerom



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 Phlladelphia, Pa.And when the siluer habit of the clowits
Comes dou'n upon the antumth sun, and with A suber ghaduess the oll your tukes " $n$
His bright inheritance of gotelen firuits
A pomep and pmoment fill the splemtive sefue.
Lintifellow.
GOLDEN OPPORTUNITIES IN THE SOUTH

> ('ontinued.)

## By Jusejh.

## GENERAL FARMING.

In my several articles treating on Southern subjects, I have really mot answorel the question which is acked oftenest, and which serms to lie of interest to the greatest number of individuals in this matter, the question: "What chances are there in the South for the general farmer? Is the promuction of cereals, hay, and other firm crops ware profitable, does eapital investell in farms pay a larger percentage of interest in the South than in the North?
I have just traveled through Jefferson "ounty, West Virgima, the garden spot of the Virginias Here land is worth from $\% 40$ to sian acre. The average yield of wheat in the eounty is very nrar twenty bushels per acre, while gooil farmirs ars raising from twenty-five to forty bunhele, and oecasionally fifty. All this is done with much less commereial manires (not aver 150 poumls per acre), than the farmers in other sections of Vircinia are in the lahit of nsing. In Jefferson, Bercley, Clark, Warran, aml other connties of the Virginias, I passed reeently through oorn fields, which will hardly vield less than 15 harrels of corm, that is 150 Imshels of shelled, to the acte. No extra culturo was given in any instance. "I average twenty-five buchels of wheat io the acre, one year with another, "'says J.V. Wratr, of Clark's county, wherethe average $y$ ield is only fifteen bushels. Its lanid

[^1]
 never till lami without inf poving it," he frnmlly adils. This Ghms what management will do. I thomyht that 1 cobld diseover the whole setolet. at hi suecess in the way he know -how tomaintain the lumper relation hetweet wieat-growing and swek-kerepilit. Mr. Wrir has abuat einghty beal of "attle on lita 4 4o-acre farm, is till tenines thirty sterers and as many hurs, pays attention to the prombe tion of gond mathur* anml 11 stas phospliate lihurally
Whatit is ame of the stapla articl心 uf pro. draction in the Great Valley, bont the arear levoned to it is, ly fir in "xeeson of lhe proper propurtions, a< ce"lloparal with urhar tirnu
 comatice it serome to be the aim of that hasbamlman to mennforfure whest huerely 0 but of phosphates. Clover and barnyard mannre -honded hio the fommlartion of the "rol", and
 merely जlipllammont loge commurial fertilizerts, as fitr in Hederssary. Murse stavli, more
 momures, mal a mander averine in wheat,


- Bucheme Roses. wondal hetter many of the cundition that
seem th be disadrantageons to lie firmor at rresent.
Let, the Sonthern farmer, oftun with rather indifferent manarement, is makiner money, ant mproses his land, which hal luen an recuntly imporeriwhel amd devastated, while many of the high priced farms in the densely popmlated Sorth, do not pasy 5 per cent. interest on the invextment.

The Northern man, when les gets possexion of a farm in the South, at onee imanurates a materially different system uf forming. Ine will do his share of the work, jercmandly, and not like many of the " lamblhaless" in Virginia, leave "verything to the "servants" and "hamds." He will pay special attiation to the qreat "nomey crops," wheat, corn, heef pork, and so furth, ywt. not neglecting the "ninetr-nine" things that bring a small amount eaeh, things which thw Southerner eonsiders not worth the tronble ot aving
The new comer uses all the means in his power mincrease the crop and get their fnll value. But having done that lue eultivates ame trims but
long motectad orehamal, he turns his hoge mand makes protk of the handrets of bushols of atplyes now rolling molar the trees, he ntilizes has frome in sume way, for eiter or otherwise, sells what he fan timl market for ; he pays for his groceries and dry eromes with bitter and exes, while the Sontheril farmer runs in deht for them and is charged twenty-five or fifty per "ent. extra for "time." Thas former tries to kw, 11 , the fow of milk, ethor to le dispomed of in a paying loeal market, or to make the largest prssible amount of giltedge: while the latter milks only a part of his cows and lots the calles that he wants to raise, milk the rest. Ohe las he money "all hisown," when he sells his what or heef, the other finds it half gone, after squarine up those long and large acennnts with the merchants. The Northerner, in short, graspe for every ehance which offers itself tohim, of increasing his income, be it evet su litt:s. In consequence he makes money.

The general managenent of the Southern farmor, withont the alvantave of their congenial elimate, would ru

## HOW WE RAISED BEETS

Our beete or manchla-, did but cost me moch
 an asere of ony ben cirained, lightest, and richent plowel wadar a comil hatry cuat-sma thirty
 and the gramed dot te warm of a few days butore putting in the wed. It wian then thmomghly put in alnat the 2oth. Ife wwod it with an
 should be fir this "rob, mothing wan litat the garden sem sown tor this work. Wr suwed stand. Solong ac we have to thin wot anyhow, we may as well pull ont a fow more. is the land was plowed ouly a fow days hedne weding. beets were protty well mader way. Had the ground been plowed the fall hofore it would have been a bed of weols hy the time we were ready to put in the coltivators and harross to prepare the seed bed. Whaterer may be the henseme of fall plowing this is rertanly a what and atan with a large plow-which sarrifices the eain by the action of the frost-the surface is shre to be filled with fine wed rowts that no amount not put hand or hoe into the patell until the latter part of July. We run thromsh several times with an orlinary one-morse contivor, buried with earth in rammine elowe up to the row To be sure we comlid mot take out all the
in this way lant there were mot dombh fedt to very materially injure the chances of the llantop to that time. The plants sere now larse canch to pull ur and ferd ont top pigs and cans porpose. taking out the weats at the same ther large tops that were math reliched by miluh Tre cahblate that the serera the labor of thimine and weoting. Such feed comes very opmotumely in dry, hot weather when the pasture is whort. We do not toy wor beets this year; we find hind loft on the rrumad they have or three days. The tops will shrivel w! to almost nothing. If cat uff when green, as many do, they will bled the root commiderably. Wi leave the roots in small heaps on the ground for a few days to sweat out.

## tobacco culture.

## By Thas. D. Butird, Grefmrille, Fhy

Tobaceo should get ripe before it is cut, it makes better tobacen, and is heavier. In general, when the leaf will break by pressine it between the thumb and finger, in the double, it is rije. In cutting great care shoulal be usel in the handling, for the quality will he pretty much accord. iner to this. After the dew is tiried off, cut as much as can he handled with care, hefor

Hang it on the stick before it wilts murh, and it will not braise so easily, and will yellow better and cure up nieer. Hang eisht to ten plants on a four-foot stick, accorling to the size of the tor bacco. If you seafold the tobacen, hang as close as you can press the sticks together. When ronvenient 1 prefer to hang up in the barn at onee. placing the stick eisht inches apart on the tirrs. The first tier should he seven feet from the ground, and all ahove shond be far enough apart that the tails and butts will not lap ton much they should lay some to keep the wiul from flapping the tails off on the butts of the lower tiers. The air shonld have free circulation ower thers. tobacoo can cure. In firine it make fo that the tobaceo can eure, slow, regular fre is best. As soon as it is well cured it shonld be stripped. I always found it profitable to sell fors a dollar less per hundred if by so doing 1 conld get it off by Christmas rather than wait until spring.
In stripping, a small crop should be sorted into three grades. In large crops make as many grades as you have distinct classes and qualities
in your crop. This is verv important, as manufacturers cannot use mixed tohacess in kinds and qualities without pains and expense in sorting, that the planter ought to take and save to himself, the better prices he obtains. In sorting a
small crop put the gronnd, ragged, badly wormsmall crop put the gronnd, ragged, badly wrom-
eaten, or otberwise damaged leaves, on the plant.
intorne clase. The bricht and beet leaf is next pusable and put in a clas, and what remains is lewhright: thin is tiod in a clase and store it back on the tiors. When it comes n
 Inerer halk down when wan help it. I prefr l’alking tubacon in sate kretping urder requires judgment and care, as all past wom bare may finishing operation.

## NO EXCELLENCE WTTHOUT LABOR

## The Erpericness of at Irginia Furmer.

A baree hole was to bee filled sumetime luring the summer, on a farm bear-beg Juring the fime until the work was to be done, all rublich (1) helpe till it heside. Sime the lmy have really ope mattor, as well as piline up dry dirt for uat in the stallew, they were rery much exproised in
seeing invite a lare quantity of leares, erase, and the yaril, that had just been clearral up. "What wate!" sald they. "such nice belliner it Fmuld have male for the mare, all veretable stat too. that would make she ha gon mames," they have patil to hare taken wot, as at ennatable quantity of Jeasus and uther rnhbivh had heeti diant food. but people will conver uf uch raln. alde accumulations, amil draw from town, hand is so mallend manure, at consillatalle expmane, huy almont worthess emmmercial fertilizere that of phat fowd that is at hand hand mot onceur on tarms that need all that an he ohtainal. The barin was clow at hand when the laye mane the remark that thix Iry, soft, Lrany anm loafy pile
 hey wert answered that find tags I were only remark that it was the "old way of denge, asier to spenal a half day tor"to the wowl- with
 thrown in thin hole. The riticulambate of the idea had not erme to the surface then, "f the nam, who, in carrying grist tw the mill, put a swate in
the onponite cout on the has tor lalance the enrn on the horse's havk, wot thinking that another grist of gratin coula for for place of the stone and are an extra trif, and at sane time get two insteal of one. Sil in the cane of the bedding. use the load thrown into the hals, ame tet another
from the wowls, and ham two "t the sume cost of the one, that thrown away is of duable or fer-
haps more ralue than the piue leaves. As lone ac wonde will not think, and save lonth in time and material that is at haml,
Through the varions phases of pon manarement the lam is robled of immonme quantition of the best of phant fomd at the very gites at the farm. Noextellence can be wen in saving hy lator. be big nak trese, the chiden wanted to know whe their plaveround was to be spoiled be that great pile uf tirt. The boys tod them that their great pile uftirt. Mak bourtar, then that seemed to annoy and frot them; but when the boys had drisen the tean away to the barn, l calleil them them to me and showed them othat it mas there for. I had ont a bundle of celar and pine tongh as 1 came thruurt the wonds from the sand-pit T asked them to bring out all their tors. What a pile there was of them. Many were old gifts that hatl been untonched for years perhaps, and almost forgotten. When the green boughs were cut up and pointed to sticks, being of rarious lengthe to represent trees and bushes in miniature 1 made the pile of sand into forms of hills and valles, with roads and supposed streams, feaced the boards, split for the purpose, made bridges of pieces of lward, and used the logs to represent tock of various sorts. Crandall's bunding binck were now just the thing, making really life-like honses castles, barns, de., that were husely njored by the greatly pleased children. This haff hour flew by faster than any ever experiencd

## CHORTHAND

itnatione procured frir pughis when competent
Fiorat, WOR ID. superb. ilst st 1 monthly, fre
 Pure seeds chapa. Plantshy thousands. Cat
to them, bringing ont all the ingemity they possesen. The hours that had luang sin heavily un thir mothanging young lives, now were so heasautly passed that the and the tuse an lum in almast natess bins in wore fong woth as a surce of pastimu and developing some (ond to protir their maturer rears. They comlat roll and tumble here, hour atter hour, with no danger of setting their elothes woverel with dirt. The heretotire tired mother, aftel worn almost out by the clamor for "sumething to do" or to somewher "," was now pleased to find time
casionally aid the little ones to so change their attemptsiat lamscape making as to continue the interest they had in their new phays, and tean them hy real example in their play-work, that there are no excellent forms or patterns of real life work, as wel! as the real work through life, without careful, continuous, and patient labor

## egyptian or rice corn

By N. J. Shoherw, Etdon, Mo
This really betonce to the sorghum family. It has hem contally praisad lay several seeilsmen and asricnltaral papers.

After giving it a thorough trial, I am unable so. where it has any special clams oyer other arietien of sorghm. In some respects jerhaps notter, while it falls to conse up to them in other

When first introluced 1. was praised or being worth far more than its read value, and many who purchased the seed were disappointed. It :homld lee planted and cultivated about the ame as wher sorghum. The soll shour this reloan as lusible If pains are taken in the revatine. 1 prefer to plant in drills; the rows
 should stame a few inches apart in the row. Good sill and gexs contixation are nocessary to raise a profitable crop. It is the carly contivation that really makes the crol : after it has reached a hoight of three and it half or four feet it will pencrally take care of itwelf, As with eommon Gorghuni, I prefer to cultivate repatedly with the cultivator so as to keep the surface level. Ket clear of weels at the start.

It resemblus the wh-fashitued Gooseneck cane on its manner of growine, as it turos fown and the seed ripens hanging downtard. The seed is almant the same siga as the orange ran, bat is whiter in colar. My experience with it is that it will mot risbl. 1 ban mot see that ic inespecially valnable for general rultivation, like a great purtion of new thins termert movelties. From leeen considerathy overestimated.

## GATHERING CORN--Continued from November

## By John M. Stahl, st. Louis, Mo.

Corn which is to lie stured up for some time should be husket and silked both. A silk adhering to the ear will domore damage than half a dozen husis. It will ahsurb more noisture and prove a greater attraction to mice. To remove the silk in gathering, it is necessary to catch the tip of the ear in the left hand, holling the silk in that hand; with the right hand strip back the upper hosks; then catch the ear in the right hand, with the left strip back the silk and the under husks, and grasping the hutt of the ear in the left hand, break it ont with the right. This reuuires more movements than to remove the husks noly; for then the ear can be grasped firmly at the butt with left hand, the upper hasks tripped back with the right hand, and then the ear be lifted out of the lower husks and broken off with the right hand. It will almost invariably come out clear of husks, but very often the silk will remain. By this method corn can be sathed somewhat faster than when the silks gatheredoved, but when the corn is to be stored for some time, 1 would recommend the removal of the silk.

When corn is to be fed immediately or within a reasonable time, however, there is no need of husking silks adhere, they will occasion no damage until the corn is fed.

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 corn with much grater "are than will hin Mindis or NAmaka hother, When a New Enyland
man wome West and hexins thesther his com in baskets, which he eupties in the wamo whon full, he is sure to be laushed it ly his neiphlores, and the next spatan he drivis hic two.bome wason wer a rew white he husk two rowe at
one side and his hand two ruws at the ofther, and one side and his hum two ruwn at the sither, and the stalks knowkel flown by the wasom. To on not aceuxtomen to it, this appears to le a wast
ful way of sathering corn: hut not neressarily When the lirrses are allowed to eat an thuy along, corn is wated, fief they will shell oft much which falls to the gromul and is spuiled betione the hogs are turnmi intor the field. l?at if the horses are muzzlet, there is no waste, and
other way can corn lo. sathered so rapintly. other way can corn le gatleered so rapislly
of sathering corn than in the moles of ermer stover. How careffly is this gatlered aull samed in some localitiex, and yet the corn-srower of the West does not consider the stower to be corn at all. 0 short sighted men! when will yon learn
that Yon are wisting wid? The Western firmer raise"ं curn for the ears; the stover he consilers to be a neceessary evil. In some sections a fodder shock is almost, if not yuite, a curinsity. Aftur the corn in gathered the cattle and luysa arm turned into the field to paxtare the stover ; and as the work of gathering is centinnom notil late, and the stock cannot le almitted until the field is don e often all the auimals find are damasel stalks. Long before the blalles have bercon bown to the ground by the windsur dashold down by the rainc; the hasks have brownel, then bleached, and now are almost rotten; even the upher parts of the stalks, which the cattle would have eaton, are hroken off and rotten, covered with mud on the grounl. The injury to the lum ly the trampine of the stock over it when soft, fregurntly mern. than destroys the profits from the Iry, ind mestihle, damagel feed. Find with clover or callnwseed meal, a pound of wrumbler foraks in feengreat is the waste? "Take, for instance, Illinoiv, great st the waste? Take, for instance, Mrinnis, the state that wam in the promuction "t curn. . shelted corn ; lout nothing is satil of the $16,0(0)$ $000,(400$ pounts, or $8,0(9),(604)$ tons of stover pruif. uced along with it, for that is almost altowether wasted. This stover, rishtly fend, would winter 4,000, 000 steers, weighing one thousaml poumle. No womler we say the times are hard and that the profits of our firming are small. It will her happy day for us when "gathering clodes gathering the stover, and when the fodler is as carefinly saved as the cars are now.

## NUTS FOR WINTER EVENINGS.

The title suggesta something much enjoyed by boys and older persons. We wonder how many unt trees are growing mpon the reader's farmif he is fortunate to own one, or upon his father's farm, should the reader chance to be of the masculine gender, and has a father who has a farm. But the girls and women folk nerd not stop reading at this paint with the thought that these lines are written only for men and boys Nut trees grow for all, and if we mistake not this idea is in the minds of the village lats when they, bags in hand, moke their pilgrimages to the neighboring forests, and even the trees in the open ficlds. By their nut trees many a firmer learns to know the village boys.
This all goes to show one important fact, viz. That nuts are much sought after, and are highly prized when once obtainet. How many kinds of nut trees have we in the United States? Where do they grow? How can thry be more abundantly produced? The leading gronp, of nut bearing trees is the hicknries, which eom prise the genus Curyt. The name Carya is from the Greek, meaning walnot. All the members of this genus have compoand leaves, with an ord leaflet. The flowers are of two kinls: kind, the male, is in long, pendent clasters, and the other, the female, which remain and develop into nuts. Mr. Faller, in his recent book on 'Practical Forestry," describes eight species of Caryas, The Shell-bark, or Shag-hark, hickory (Caryn Albu) has the upper three leatlets of each leaf larger than the others. The nut is white, four-angled, with a sharp point at the apex. The kernel within the thin shell is very sweet and excellent. This is a favorite nut among boys and other persons. The eommon name, Shas-bark, s given to this tree because the onter bark i hard, and separates into strips that remain attached only by the middle portion. This tree furnishes a snperior timber, used in making various implements where strength and dura
 sontl) to Jortharn Cenrera. There ix a Mestern
 west of the dheqhenie than tast of thems. The mate ara large lat the kumals are small in pere portion to the cize of the shell.
has the low or artare of the your Iurmer Noms The muts are varialla, these from onme trees wins sweet, while others are wothbew. This tree is aill and slember, with bark not plittine
off; it grows in most parts of the trecebaring The of one Cnital otatos.
The Peean nut ( $(:$ ollouformms) is a menst mutresting trew, highly jpized for thoir size and unally avomme the slive shatuc, ak inlicatol in
 Westem tra, homp partial th the river botmoms lanalitios where it hat not bewintmbued. The

The lpig nut ( ( 1. P'minn) has a prar-shaped or oval mut, with a thin book amb a filter kermel It is a large tree. with momoth hard, in many rexperts it is similar to the White-heart llickner
and in common th the sanu resions. We cimmo recommend the enltivation of thin for its nute The bitter nut (C. Amume) has a glabular ment, with a thin hask, and intensely hitter kernel This is a small tree, common in low land from Ganada to the finlf states.
The Water-hickury ( $\left(\begin{array}{l}\text {. Aquatica }) \text { is clasely }\end{array}\right.$ relateal to the last, with nearly the same elatacitrristic
The Nutmey Ilickury ( ('. Myristiceformus) haa mint shayed like the nutmeg, and is found i the low lands of the sonthern states.
The 'hastunt beloners to another genus from the hiskory muts, viz.: Cinstoncen whieh is representeni in this comutry ly the chetont proper ( $\because$ Fexp, variety Americama), and the The excellence of the chestnut as a nut cannot be too highly prizeld, and the tree is a most valuable one for timber. The wood is comars grained, strong, and durahle, and is extensively used in furniture making. Tha chestnut is fonnil from Maine to Nichipan, am? somth and west to
Arkansas. It is a fine tree, which grows tall and straight in the forest, and low wath a mond branched top in the open field. The Chinguapin has roaminuts, ony one in a hurr, and is a small to the Gulfs.
The genus Juglans contains two important nut bearing sereies, viz: The Butter nut
(J. (ineria), and the Black Walnut ( $J$. Nigra). The oblone, clammy nuts of the Butter mut ar familiar to most country people in all the North ern states. The woof is light and durable. The fruit of the Black Walnut is large and mprorical, with a thick shell and strong flavered kemel. The wood is of a rich brown color, harol, जweeptible of a fine polish, and largely enuphow in cabinet work. This is a fine tree, worthy of vastly more attention than it now receives. It is widely distributed throughout the ['nited States. We hope to follow this briof summary of our mut-heariner trees, with methose of their propagation and enlture. If we had more nut trees it tarm.

NOTES ON FARM AND GARDEN FOR NOVEMBER.

## By W. C. Stele, Suitzerland, Furida.

I am sure there are Golden Opportunities for bee keepers in Florida; yet there are often serious drawbacks. Sometimes a druath in summer and fall will ent the honey crop so short that instead of there being a surplus to sell, the bees will require feeting to save their lives. (Our winters are so warm that bees fly all through the season, and there are very few honey-prolucing flowers in blom at fliat time, they
require a large stock of honey in their hives require a large stock of honey in their hives

Joins anythine in that line in the state, and hine who rasilly molerstomt how kerping are

In makine hot hats for "Early G:atening,"
if you have plenty of manmer, it is a great builal up a sipure pile ul manure two foet larene careful to tramp it well and ke yon it level an that it will settle down "ronly. Make the depth to suit the seamin uf bar and the crap will he the wh way. Than bank up the outhido of the tram to the top with more manure. This is not themy, but the renult if yatars of experienow, and has been tentod during some of the collest
winters of morhern Indiana. If more beds are wanted they ean le male along sibe, leaving a for ur afteen inches lretwath the trames. A Great deal of nonsonse has laten writum about "to conse, if the manme "fire tomgs," as it is rallod, or hurus dry ant lork white and mouldy when forkednere, there has lyentin wate. But if thew is plenty of lither (straw, oh? hay on leaves,
mixed with the manure, and the winge mass voaked with water as it is trampend down, there will be very little loss. When the manure is handod away it will la fomm to be haek and yenly ruttel with sellom any riuns of horning. If in makins at hod in cotd weather, it is tomed What the mome is mot heatims salisfartorily, by hee hastemed wery mach.
l have foumb early whons quite as pumfable as louts amd more wo than radishem. lat tiat the latter ate very apt to be so wormy, in many phaces, as to be unprofitalde. I have grown arops
of them where not one in half a tozen would be salable. The easiast way to wet very early mions is to plant out whe mons in the tall. Eats ond will make two or more young onions Which will manally he large emomgl to sell befire the sead talk starte. If mot, then the seed
talk shonlal be broken ont as soon as they aplear.
think that if 1 wern going to baild a green romor or a propagatine hollate in this state, I houh arrange for heating it artificially. There are often times when it worlin lat letter than this phace, wen in Orange anh Volusia counties. It is often cold enough tu stop the growith "f tender plants when there is nus firoct, and Gen hot-bed pants are once stuntod by eold should build the honse 10 fiet wibl with a fonrfimit bench on earh side and a twofnt path in the middle ur elsesix teet winle with a fiur-foot bench on the uppere side and at wo-font path on the lower. 'The length of the house would be regulated lyy eireumstances. The benches should be two feet and a half above the path. They must he male very strong to support the weight of earth necessary to grow good plants. The best way is to bave $2 \times 4$ seantlings run the long way of the bed, supproded on prits and lay the boards, for the buttom, across, then if one rots off it is moch easior to replace it than if they were lone and ran the other way of the bed. The front and back boards should le six or eight inches wide, as a depth of five to six inches of earth is necessary to prevent the plants from drying too casily. If I were not going to have
any artificial heat in the house I should not make benches, but wonld dir out a path two feet wide by two ar two and a half dedp, boarding up the sides to prevent them from eaving in. Suen bels coull be made mach more easily and cheaply than benches. They would not require sn much
waturing and the plants would thrive better than watiring and the plants would thrive better than
on benches. lin case of cold weather these beds would not cool off as rapidly as those set up on posts.


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 each hill w
row runnine thronmh the malle, in this raw no dust was nsent. When all

When the mand ware ripe, this row was helimid Thi lat sprine l panted my medons on intor half of the Eronod. Fone terad on the hill and worked in the wald. Whther other halt, ond wallon stadbe manure and fiour
 an equal quantity of hen manare wach brmadeast
 melons, while obl the halle that homponluat way nsed the
saleable
hane-last, I urge the reathes to arail themselves of this chaife fertilizer for their melons and cucumbres. Now, the season for hilling beeves is at hamd, cart fully save all the bones. ©ollont all the old bones that are lying
about the promises, giving it a enleothat appear ance. Do mot be atrail to take lowh of them A farmer mast be boll and dearless in such thine of he want:] shemert.

ORGHARD AND SMALL FRUIMS
selecting varieties of fruit By L, Ih. Buitey, Ji., Cumbrialge, Nass.

## Whether or an ath orchard returns a profit to

 the owners will depemb in areat measure mon which it ontains. 'There is pobably no greater mistake mong orebardists than that of neglecting to give much thonsht to the kinds at varieties to be planted. Care in the selection of varietios, is the first stone in the foundation, the first sterpt tion of the breed is to the stoek-raiser.There are several things to be taken into con sideration in the sulection of variptios. For profit, an apple most combine these three quali ties and preferally in the order mament; hardiness, prodectiventss, ind good quality. These terms are all relative. An aplab which is harly in one part of the whatry, may mot be haty in another part ; the ame is true of productiveness, and to a

apple is more apt to nimivel up than rot. A rot. ten one in seldom seen. It is the best koceping
 Che amf of drompine habit, but the trute is a roud trawer, a youns and an abmalat bearer, and hangs well late on the tree. This apple suceeeds well m wet soils and dry vald, and in the south is a valuahle monntain apple, and a good kueper everubure. It is mae of al list of southern sotalline that will pruve one of the most valuahe keepers where loner ketoing apples are

## FRUIT NOTES.

For the information of nur realers who wish to tent the Comet amd hawoul par, we would say they are clamed to lon the same patar, omly the
 had lut the ont name, as two names will land to
 duldie it will be dithonlt to make chauge. Why

The frnit erepe this year has been musually latwe and price haw ruled low. It is mot probaHe that the crom will be to heary mext year.
Thuh lisembinn has taken phee in regard to the ralture of fand trees, and allowing the land tu lie in urase without cultivation. The iden acme to grow that the blight is in a measure as som an thie patar trate bre wall rowted. The
 ( mulush.
Strawherries should mot bee mulehed with Sarse manure and litter matil atter the gromed trozen. If monerd ratler the monde often not in a domant molitime. After a hatrd freeze Potimh salts are still fomat useful in peach
 found wery lemethial. Ahles and lime are also good fir peach urchards.
While in mos sections of the comntry the apple (rop is larse, yot in some suctions where the May front infurel them the crop is light, as $\pm$
If not alrealy done "nt sabins fur spring gratime No matter if thes and frogn' when thathed wit rapislly they will ary out and die.
and dur when wanted for
hoot thew the kinds yon



Muchlas been said in the Mississippi Vialley
 Tohnom, of lllinois, ifems lows eroumb letter
 is very injurious, but not all varieties will
 will not dourith in a wot nil, while others will do well. He winh sme of our readers wonld giwe their experience. $\pm$
The Wealthy apple still spems as popular as ever for cold recions whre the tram mat lee an iron-clad. The Wealthy is a fine apple in wegand to size, color, ardy prometivenes, gonl for cooking, and dessert. Dur Sorthern friends honld try the Wealthy. The Wealthy is too Parly to le valualle for the Mindle states, earlier, perthap, than the Ballwim, but mach hardier.
-PEACH TREES suilus to all sectinns. APPLE trees, ey


TREE SEEDS AND SEEDLINGS. GRAPE VINES and SMALL ERUITS. licavy Stock, Erent Varlety, Iow Pricen, Free Gata-
ogue. JENKINS, Winonn, Columblana Co., Dhio.


THE LARGEST EARLY PEAR. Fipening in comtral New York early in
july, and sells at highent prices. Send for history ol orizingitrec. 100 sre old.
 HIRLROLO R:apherrinwo nid dishipe Wilhiam ParRy, l’arry P. O., New Jersey.

$\qquad$

| Our reander have hall an dphrtunity th sen how well the ohd varietio of small truite hawe done with you as well athentw inso. Yonare |
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 misht finl worthy of a trial. Yin now have the make ont a list fur sprimg plantine of 1085

## as gra kn snc era rel I wh sel m nut thi the mo co air Su on Th tre fro how

## 

$\square$

 making: is selection of tanlard, The tempting thenry that dwarf will hear fonit in a comple
years from the time of plantiles, is a danuren ant hat theny to practice. A par tree shomh
 Winter Vafieties of Thees-icending to the Amorictit Furmer, B. G. Buthl, a well-k now orchardist, of Michican, thes whe raftel tre" on
 cold wintore much beder than row - grafted treces: Spy nearly "scaped in the mprecentented cold in 155 and 150 , when others, web as the Batwin
 and the trumk were cplit and many of the larem hraneles killed. Wharew the trees thas in jured were seserny prumed and shortemed in, thu
trees were savel thase nut pruned died in a fiow years, the showing the injurr a trees suffers
from neglect in removing dead ìmbs.


POTTED CTRAWBERRY PLANTS





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S. W. STERRETT, Barnitz, Pa.,


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Locust Grove Nurseries.

IRON
0 S Scalders:
ant ine ind in
STRAWBERRIES.
 Marliono

## $\$ 1$

FRUIT NOTES
100
aIT NEVER FAILS.
Siberia Bush Powder; an ansect $\begin{gathered}\text { desirover } \\ \text { dit }\end{gathered}$
PEACH TREES. WALL HRDOE


CTRAWBERRIES CHOICE SMALL FRUUTS. GREENHOUSE AND BEDDING PLANTS.
see hanctrated catalome free.



Wre imatine that by thin time many of our bow subseribers who recuived loulle from is ate enjen
 of their nelghturs of ronrse an how wind next seamon. The roots that irw mons showiner flower spikes must mew he brought intor atamer plare, and elose to the Ehas. Waterine mast be attomed to resularly, and a bithe mamure water now and then win wive them strencth and harge
flower spikes. In not bring them all in at one hower spikes. ble. Crocus, if phand in pats or laxes, will need a madh coder flame and will require more air as well, or elac thay will not bloms.

LILIES,
If phaed in the mollar, may also be hrought formard and forced a little, abimate be this time the pots are fall of ronts. small pots :are best for Lilies to hexin with, and whon the leaf salk is well abwe tha wil hery may shifterl inter a larger pot, actting libe hall of marth way down, ble, rums engerally form firct alave the arown of the bubb, ime ther helf the flowering very mueh.

It is mot everyone who has the siaen or mean to provide and winter a borqe momber of Gera-
 keephug of arge stink of such phants involves a gook dral of tromble, and take up space that might be mote profitably wetupical. Noreover,
it is quita practianble to maki a gatden very gay
 and a eomparatively shath amomat will hay the sedelv pedplited. There will, of enorve, in sume




 seal than few flath whath whate trate from


rat un the collfation if meghented for a week. Bat, starting with thoramphly clean lomes, if an amatent, or loouses and frames, if a florist, and fond riliable seeds, whe cannot fail to be nuecessaling For matay ratisobs, the raising of bedding gants froms seal is preferithle to prowing from Homas, ame yet tho latter way is bunst desirable when buly a limited momber of plants is necesplants from worls: lont, the varly thinniner, the perfect expmore to lieht, the mindy growth, the amoberked enlture that seedlimes reauire are stldam given them, wwims to the little space ime litale thought they uswally seeuper
tereral of theme are very letantiful phants as rexamb to folinge, amd interosting when in thown They are mostly from topsicial conntries, while harrs, The foliage of A. lableat in yeve hand--rne indexd in winter amd spriner, and rivals mans of the Marantas and uther fants that are raisel ondy for the heamty of their foliage. When sotural rumts are planami in a fot at suld, com[nmal af turfy peat mixed with a little fresh moms. they will som fill it with monemifient
 enaly. If phated out, they form a very attrace
 when the letoves have died away, the groups of sairlet horrios, stlpurted an fonit stalks, ten or (welve inchav long haver a very attrative arpearWhieli they retain for a comsudwable time.



 sion hoinu much bramber than the whars, and

 The tratmont of this plant is similar to that given for . I. Jracmandus, bont it is rather more dholece in wintur ; a milal mithation will suit it Isest. The allwirance uf thw tlower is rather ropmbire the disiturabibe ator beine strong condeh to attrat the latrove flits in fucst of a -- lljucto, of lulline its hoswoms from out a mass of low dirulos.


## Tulips

The varieties of Tulifsare so valuable that no arlen or window sill shombl be without them, as indalal very fey arr, partionarly as their culture, deseribed before in these pages, is so simple. The bhoming neasorn is not so short as is generally suppmand, for between the earliest and the latest flowring kinds a considerable time intervenes. Beds of Tulips may be earpe. tal with tuftin aml clumps of small creeping plonts suited for the phonse. The White Roek ress (Arabis slbicte), twether with it yariegatel form, the Aubrietas, Llepaticas, Primroses, Cowships, Pansims, carly flowering Violas, Sedum Aere Aureum, the protty cretping Ajuga Leptams Lubra, and many athors make pretty earpets fur berls of bulbs. When a collection of Tulips is sufficiently large to admit of its berng done, it is anem lhan to rest the halts every third year, ly preventing them from laoming. They oecopy hat at small space in the reserve garden, and can be phanted guite thickly. In order to grow Talipes to pertection, a light, rich, well-arained suil is required, yet almost any soll will give astonishing results. They should be phanted with from three bof four inches of soll ahove the erowns of the bull, ; if phanted nearer the smafe aml a severe winter follows they are liable to injury.

The late flowering Tulips are chiefly descendant from T. Gesmeriam, itself a vory handsome plant in the wild state, particularly its yariety ers of a glossy, deep crinson. For ecentaries
this chass of Talips has been entivated, and at one time, and even still, are classed among thorists Howers. They are now divided into four sections, viz: Breeters, or seffowers; Beizar-
res, Byblomens, and foses. When a seelling Talip flowers for the first time, it is uswally a self, and in the course of a few years (hint oreat-
sionally as long as thirty years) they will hreak into the flamed or feathered state. A frathered Tulip has the colors faty pencilled aromm the margin of the petals, the base of the flower boing pure; in the Bizarre it shmald be clear yollow,
and in the Bose or Bybloemens, white. Fin the flamed tower, stripes of color alescend from the top of the petals towarls the have of the eup The colors in the Bizarrs are red, brownibh-red, chestnut, and marman; in the Bybloemons, batck
and vatious shanles of purple are the prevaling and vations shatles uf purple are the prevation varions shales, and leep red
can be planted ats lum as the soil is in eomdition for it, amd need a lithle protertion, viz, Somb
coverine of hay or straw, la planting the balth, it is usual to prot a little saml around thom. Althonerh many varieties are of a tall habit, anm the fowers are heavy, the stems are usualy
strong enough to support them without sticks. The time of lifting the hulths should he fixed by the emdition of the thower stoms; whin these
will bend withont hreaking they may be taken up, dried, and stored away until junting time.


Pareot Tulip.
People are beciming to appreciate the beaty of Thlipand Hyacinths more am more every year. There is so hethe tronde in binging them Anl yon have to do in top lant them in a $\mathrm{p}^{\text {net }}$ in good soil, set them in a collar, wover them up, ashes and lpave them there until the leaves anpear, then lang them in and they will at conce come in homm. Wheo plating Tudips in ports, to the edge of the pot. They will not intertere at all, and make a charming adlition, as they will be in Hower some days before the Tulips besides it will save a gond deal of room. Our illustration shows a fill-size flower of single Tulip, and aloo a spike of duble llyacinths, althomgh the latter is not done justice, as the flower spikes are gencrally much larger and
fuller. fulle

## Tclipa Greigi (Turkestien Tulip)

Is umbontemp one of the finest, must showy and most desirable. Its large goblet-shaped flowers are generally of a vivid orblese-sarlet
color, but there are also purple and yellow-dow. ered forms. The bulbs are so extremely hardy that they will withitand freezing and thawing with impmity, and even when the leaves are half grown they will endure a temperature as low as zerowithout any proch prime compared with the trithing cost at which other Tulips may be procuref, such as the Parrot and single Tulip, shown here.

[^2]$\qquad$ chicken, ur pigrom namure niay he placerel in thit
 this berive the hull it pint in, so as not the lave
$\qquad$
$\qquad$



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| whinary bewm, fixw mel |
| :---: |

onumh for mint Amarylix hulles, lint for extra
 eight or twininch lout is needel. When requet iny
 nuee tir wiee a year or tiqnin manue may
 liquid ber mixed with lailf the quant ity of water. Then : bud hewomes chillen, the water given hunuld be as warm as the hame will lyear, and be 1nt into the saveer and aronud the inspue eqyee the pot. If the water is not alsortyed froin

## WILD FLOWERS ${ }^{\text {For Gutivalion }}$ EDWARDCILLETTE, southwlek, IIAs, <br> The FLORAL WORLD

## NIGHT BLOOMING CEREUS.

 Cureustic or mail fitic plant of Night [3loominz
## BULBS ! <br> BULBS ! ALSO SEEDS FOR FALL SOWING <br> And Plants for Winter Blooming

ice-list pred.e a e. spaloing. answorti, owa.

##  <br> HARDY PLANTS AND BULBS,

## CACT <br> 5 Eme iexan mexican PLANTS


 and hlomen sumer than if lett in pats. lt is luent

 ment thay may require from thro to five years The fall-hhominam Yarietiesol Amaryllis shond be potton in the sprimg imh rested during the "anace them tw bhom near (hristmats. They re-



WINTER CARE OF FLOWERS.
I bonatitul wimbuw of thowers in winter is
 esperially in dull waither. Air as uften as posible when mot too colld. 1oo net allow the eold air to blow on thom, but lower the tol of the WV choth, smoh as am ald tahle raver, over the plants and nupport it ly light sticks. Plape pribls of Whatere they are injurem. lif the plants are frozen momerse tha whole of it in cald water loy tuming the fort upside down, taking eare uot to allow the flant to fiall out. The leaves are much improved by taking a small syringe and spray the naves well, which will make fresh, green foliage.

## formm Flowerm or er rumite beauty nuil trugrunec.

 TRROUPE NURSERIES.TROUPE, TEXAS.

## FOLIAGE PREANTS <br> GREENHOUSE PLANTS, BEDDING PLANTS.

Ridge and Lehigh Aymues. Philadelphia, Pa.

## LIVE STOGK

## scrubs.

## By Elien $F$ Ro cifurth, shiuction. Wis.

I pallew at the hame of the neighbor, the other day, and tummi him a contentel man. But his
 They say that a "contentef mind is a continnal teast; but 1 am mure and mente convinced thit
if very many men had less of this man's kimi of contentment, they could aftiond a much better feast than they partake of at present. This neighore is comont to jor along thengeh life precisely as his father did. But his wit. is not ; she believes in improvem.nt, and seow that the old Ways are not always the bust nnts to follow. She
is ambitions to get along in tha world. She does not helieve in merely "holdiner vour own,"principle governing ton many men todity: but rathar in sutting ahead. Nut becalse she is help har ibhidren to get a start in the world, and hfl Pher chideren to get a start in the world, and
becanse whe atps that it coxte as much to live in a becanse she seps that it cowts as much to live in
"wedl-conom " farbion, as it dow to live in progressive one,-ilt whet, that shifthes, caredm manas"ment requires the ontlay of quite as much lathor and money, as is monded in a goonday wa of doing husiness, and hringe in little herond livines while the "horedte, prosessime fame lves buter, and laye In, a lithe for a comin artime whing yon bom ; that it pays to get rid on anythites yon hater lispose of it tom cean ge something bettor to take it a plate. This she com-
 probably as gom an the averase. They wion eight or dan quarta of milk pur day, for som monthe in the gear, ant this milk gives an arer cows have the run of ofne of the last pasmeres in the medighorhomed. They haw all that is necessary for cows to have, anildoweld. athll I supmosi the for as well as yon an expret them to, but that does mot satisfy my friants entorprising witi
I want . Tohn to get in Jerey or an dyrhire, she said to me. "If I "era a man, I womlan't b satisfiel with 'scrabs.' But he vars we cant afforl it. $I$ know he san, and that hri is workin aganst his own interests in kerping the n+w have, when it wonld cost no more to keep a kiat "hich would brine us in ats muel arain." shat "level-hewhed." She sede that monge used in purchasing good stank, is Wed invented. The would be so mach more, that hefore the farmer realized it, the extra first mat wonld be matee un to him. If he ponld be contimean that it emathen more to kerp a good mow thath at "swruly" ath be induced to purchate. Fut hat sote frimhtomed at the enst, and resolutely refose bo low eonvinced Such farmers are short-hishted, and rob them selves by their mon-prostenive iflest. Thes hame only to read the parer to find sut how murh better it pays to keap wowl strek. Fint the trombly read, they are skeptical. bat them fimi nit 1 goine into a neig
things of the past.

THE HOLSTEINS AND AIRSHIRES
enese two lmeeds are the only true dairy rattle. Not that cows of other lreads may not prose ex cellent for the dairy, for there are axeption in
 improvine the native cows. The Ayrshires at earlier in maturine, as they are smaller than the Holsteins, and are able to subsist on porer mas turage, but if the best matult are to he experted both broeds of eows shombl be allowed upon the most faroralile pastures only. It is a mjotak. dairying to select atork for the reasom that it i adapted to inferior pasturage, as no brech of eat the will give satisfaction wher the ormbitions are not faporable for lare rields. The Ifolatems have the adrantage of making emol andmak for the linteher when no lonerer required at the datey owing to their large framec, ngon whith heaty weights of thesh may hr hared, hat they are mit equal in onality in that rumet to the llereturn on lural patires hat the active habite if the Ayruhires cmalle them to utilize rich hillwid pastures, amt in that respeet they have no supe rior. For maty purpmes in milk, and thond often good hintter cows are found amoner thom, tha milk is not equal in richuess to that if the Jorseys or Guernse:

THE BARNYARD IN WINTER
How often ho we witness the catale stamdine in the haynearl with manure up th their kne-s, and nos signs of cendore or warm th in any form. This with plenty if almorlont material. It is wasteful (") allow the straw and finder to be pieked wer and trampled for the sake of asing it in the manure hean. Kothine in gamed by the procese, for
 will not only serve as fomb, Fut the manare in the yard will be in a finer cemdition. To whiate
the ilificulty of mudy yards, plenty of sawellut numbl be added to the ram, and as som in the pring as possible, the minure should be hatulet? ont, and the yard again cuvered librally with sar-tlust. Insteal of compelling the stiok to remain in the stalls on wet cold dars, they homd have a large dry open shed ontaide, with a thow higher that the yard, and taeing the math. They ean then exercise themselves a little, and will keep in better health. An oreasimal eleanwif of the form of the shed, and liberal lise of awhas, will kwp the amming places clean. ridust also maken exerllent beddines in the alls.

## hog Killing

one of the notalle day in the good uld fath ioned farmerv life was the ammal here killine The enzy firmer who hant the hilline was hares. Mis pen, which was the prite of the newishlur-
 were too fit and lazy walk ; but whe alway
 Wi. well ramember those hays, and the busy Wamen folks twe, whe with bustling ativity prepared the day hafore, porhap long eontinued that were fond the tarla laxarie of the tarm-
The fons antiopated day arrived, and with it for netghere whe wate to asont in the hag kilfins, with ther wive and ehilhen. There was an day we childon whll have to do juat an we basy to bay any athation tos us. What rampe fashinned hors kitlinem. lint the fashome is
 do the work, sal wne of the eratat lays of the oldfalabiof farmer is pasing away. Thase genal all chatum ot the comatry darmer are passing, and muntry life is lommine rite life, and the Al country watherimes and country hog killings

## STOCE NOTES.

Huttu fir thenken:-Feed well, water well, W:arm the water tir your animals to drink in Fhl weather. Cobl ire water is a pew drink for mon, expmed, hivering mamal. A lithelahor merciful to his beast. Pl"ans sut to it

BOSS PRIZE-BRED MAMMOIH BRGNEE TURTEXS from our old kiNG ColbBLAER-, whinher from
 pounds each CL.OIID B110S., Kennen Square, Peona.


COUNTRY PRODUCE.




ARTEAS FDI SIIEEP.-In oren whed, facing the math, with a elose romf, is bettor than it closed
 boarls, and kept "lears. Wamp sleeping places onduec to distemper, while mudly yards pro mote foom-rut

Gtable wrll all stork, in good, dry, warm, well entilaterd stalbes. Water regolarly, ant? if the weather be cold, draw tresh water, iand do not We lece colld water, as it chills animals ton much Lat them out eade day for fexereise, and you will

The Holveins are coming into prommence as luttor and dairy cow. The breed are remarkahe for large size, eonpled with eroat milking fualins. They are "the cattle" of ltollimel for an pmopers. The milk, while mot as rich in ream as the olerser, is more in quantidy, and makes a fine gilt-edired butter.

Claveland bays, an English lreed of coach hurses, aro attracting a great deal of attention among suckmen. They are if a beantiful bay ealur, and all the eolts lired from them are all so ne ear the same style and ation that they will narly all a asily mate. They make fine road and tarriage horses, and are excellent for the tiarm.

A drypen is, to a pig, of more consequence than miny surfone. ft jass to keep the pig dry
 He raised a finst wr sas above fround, and allow tu atir to freely cireulate under tha aen, to dry
bend. The cold dases nost lant is piar if the bed cond amd dry; but wet pens are one of the

Turnips, Ruta Pagas, and the like are good feed for eows and horses. (ut them into thin strins, if cut thick, animals choke with them) spreal a little meal aver them, ansl give mileh
 ostrone in the milk if fed while, or after, milkins. (iervots are better to feed, and make, when fed, a beantiful yellow colored butter, even in

The Pig Pex in Winter.-The pigs are ex-

 fal - 1 beply of absorbent litter, mud and dampeness candut be avoided. The sleeping quarters, law ver, may be kupt dry. liy seraping the floor lan with a hoe every morning, and soattering aw-tust or chatf over it, the pigs will have a emmonrtable place in damp weather. Gin cold lays, a bed of straw shond lie provided, which can be changed whenever it beromes damp.

Changing the Cows to Itay.-The smblen chanco from green to dry fool is mot favorable, ln the pring the whane to grown fomb is done gradnally, and in winter the loss of arcen fond is arrioncile felt at tlrat. Is thes coms must now lired upon hay, a warm mess of couked roots in the morning witl preatly promote the flow of milk, whinh is erathally falline nh; while a few
 (elishod. [ry hay shoulat be varind with other

## 



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GHE POULTRY GARD.

## FATTEN THE FOWLS FOR MAREET

A great many farmers who have large flocks, are in the hatio of bulding on to the extra fuwls until Christmat, as tha priees are then chat. They will fim it a great dyvantage to coop, them up for ten days before selling. Turkers fatten vary rapidy when cooped, but after they reach a certain stase, they hegin to cleciine, and fall off in weicht. This is due of the fact that they begin to worry and fret from the continement. To tatten them, theretire, the work shatull be done quickly. It is much better to feed them a little at a time, five or six times a day, than to feed them thll meals two or three times, the whject being to induce them to eat as murh as possible. Thif can be done by giving theth a mixture of ground nats aud corn meal, warmed with hot water, early in the morning. Then manhed potatoen or turnips, thickened with bran or shijr
stuff. Conked clover hay, mixed with corn meal stuff. Cooked eluver hay, mixed with corn meal
should tollow, and milk, to which a little rice or beans haw been addel, shomblemstitute one foed ins. At nirht, wive them a full meal, as much as they will eat, of wheat and corn. Ke+l plenty of erivel, charesal, and cloan water in the coop, amp keep it elean and warm. A thrkey fattened in that maner, will he all that can he ilevired in ten days, and the ferh will be temder and the careas phap, bringing at enow price for quality and iacreasine in vilue from the extrat weight. Coop eath turkey alna.

Hens may be comped in late of three or fonar, and may be fed the same way, only they may be
 put coneks and hens tugether when heing fatterl. and feed nothing motil atter they are killed, except to give a litale milk to driak. Durine the time they are coopel the meals shombl be ted warm, and a pinch of red pepper and salt shouhd be given at least once a day. Pick tham while the bolins are warm, throwing the carcass in colll water as soon as picked. For fimily use, scald the fowls, which is the easiest and cleanest method.

## WATER-PROOF RUNS FOR CHICKS.

In winter there is always ditheolty in securing watm, dry run for early hatehed chicks. Ghass is too expensibe, besides, it is not every one who understands glazinus. A cheal, substitite may be used insteal of slass in the shape of maslin. For twenty-fuve youns chicks, matie a run four feet wide and twelve fert lons, by nailing laths to upright strips. Now tark the prepared mushin all around the silus of the yarls, in orler to shiels the charke from the wiads, The yard may be as deep as preferred, hat shond be high enough to allow the attendant to move abnut in the yard. Make a top tor the yarl, of lath, nailed be the +nds to two rannines strijs, and cover it with prepared mo-lin. Do, not nail the top on, but plase it su that it may be remosel whenever desired. The yard will then be protected on the top and sides, and the heat of the sua can enter, while hawks, cats, and rain ar
prevented.

To make the prepared muslin, soak muslin (bleatebed or untbianched), in astrong solution of somp fire twenty-fur homs. Then hang it in the shade to dry. withont wringing. When dry, suat it in a ctrmus a
dry frithont wringing, as before. The mushin will then bo water-prof. To stition the muslin, and render it still hetter, brash it over with a mixture of fred blomi and lime, or lime and white of egus. Milk and lim. is also excellent. Ma-lin so prepared will make a light and warm run, and can bo prepared with very little expense.

## to make hens lay in winter.

We often receive letters from our readers stating that they provile their fowls with warm quarters, ind feed regnlarly and on a variety. but, yet they gat no egrs. Such cases are mumerons, and we will endeavor to point ant a remedy for the difficulty. We well know that it we kerp a horse in a stable, and feed him well, that be becones restless and unhappy, and in order th keep him in gom health he must he exercisen Witin fowls, the winter prevents forasing, aull our kind readtry an to the coops in the morning and give the hens a heavy gond feeding. The hens, being full, are sutisfied, and have no inducement to ramble, consequently, do not take any exercise, and hecome too fat, The better plain i. to ect some chaff, cut straw, Jeaves, or evell dirt, and phare it where the hens can scratch in it. In the morning rive the hens a mess of warm iood, but ouly a lithl. Sow throw some grain

Ithto the wratching heal, and make then um tor the hatame of their meal. Feed nothing but What they will have to rook firr. At night ficed them all they will cat. The abpect in to keter the hens bay dheng the day, but let them go an the roost fuld. Hens that are comprelled to work will lay better, and kee], in goom hoalth, while the esge will promber stronger chicks. They shomb alwas have a warm mase taly in the moming especially in the winter, but the meal shomla be agiven as to leave them somewhat hungry. In not feed them at noon, except by putting their fuod in the scratehing heap, and never give sof fund in the seratehing heap. In wther words kepp them scratehing tor gats, whent, seets, and even for sromm shells. Give no corn except at nipht, and give them their nightx meal withont making them scratch for it.

## POULTRY FOR EGGS.

We will say nothine in this article about the alvantares if hatchang chicks, as we whin tu sive a fow hints to thome who wish to keep hen for eggs onlr. The beat hreed is the White $L_{1}+\cdots-$ hom, and they shmul be hatched in March, is
 (a) lay in Anstas, and with womd manarement will lay all throngh the winter. Another plan os to hatch them in Inerns or sentember, allowing them to grow durine the winter. Thes will begin to lay in Febrnary and continue layin mutil the next Augns, when they may be sold. Sum hens, of comree, maly prombe engs when exge are chaty, hat atand finathager will ket far cocks, but path his eges away for high price Deres from hens that are now inmpany of erek Will keep thice as lone the those that are fertile To prove this we will state that when such erg are placed in an incubator, and sulpected to hut of $103^{\circ}$ for two or throw weeks, they offem aro taken out in a soumd condition, while fortile "ngs cammot endure surl heat at all without change. To keel such evge, pack them ent downwards in a barrel, placiner a layer ot wowl ashes (fintly sifter), wh the bothon of the harrel
 other), and som, antil the barmb is full, filline all the sabes between the exse with anher. I'ack and fress the equs, head nu the harrel, lay it on to side, and roll it half rmaderery day, and the egge will ket'p nearly, if mot quite, a year.

## POULTRY POWUER.

One of our reathis inguires for the more xpensive Condition Powaler for chich smantinnet in a biant mombre. Widl, here it is: (irmumbaft


 sulphar, $\frac{1}{2}$ penmi; salt, $\frac{1}{}$ [amad; carbonate of ron, 2 1 munds; hypowiphite of sorla, 1 wombOpons.


## POULTRY SCRATCHINGS.

Frosted fompo-Try :unt prevent thas, as the liens will mot lay matl the minurel membler is healew.
Hay tefo-This is chent and is ofteng given away It is mot only an moplient food for a change. hut just the bing tor wime chicks.
Perims sfatbatme-Three wheks are required (or incubation of the egts of a heth, and fimer weeks for lunse of thaturker, coone duck, athe guineth
Winter Intritiers.-This in the wamon when the minks and hawk are mumally humpy, amp erecy pre caution shonda to takin to prevent hanage from them. Shouha a pair of makn effeet an ethranee in the poultry honse they will not leave mutil they hatre killo ath.
 more eges, in promertion to mombers, thath 1un, for the reasm that the smaller nmber have more rom and a
grater variety. To kpel mor than twolve requires hat the fiock be divided, in order top prevent cruwding and compertition.
Bantam Decks.-It is , iftum denirable to kef Pan fams, and in conneetion with them, Rantan Inwe The Grey ant Whitw Call lan-ks atre the Bantans of the duck fanily and are very attractive and pretty They derive their name from the fiet that they were at times 12sefi to decoy
hin symortinan.
Jedeino Pocitry at the Fans.- It woud be a good plan to bave an expert to act as jouge at tha State and county fairs instead of leaving the awarding of prizes to a committce who sive the preminms for size only. The form, rombition. color, marks, ant peculiur character istics, which are very important, are seldom considered except when au expert is selected to do the work.
 ground may he covered with mow, or le hataland fiozent

 ahb, allal whl thenw all the better from lumg provided whith such.
Meat in Wreter-a aball pieme of beffor liver.


 piene of natat will provide a large guantity on sur ha foms. ama such additions a potatoms or thrnipg wht be wryathwhle atsonstance.
Pramisu.-Pigeons are mot troublesome, and aford muln intwrist to thise whon have the tine to atteral to

 by contimine at mix lugather, away form the whers.
 dastanet hown mixing.
The French Brafis.-Every attempt to intrabre the Fronch lireeds, with ofan wefption, in thin colntity,




 the breed is unexcelled.


 fagenti a rone combry In ming the breeds for rossing on
 arl

 (0nlolm winter.

WHITEWA-H IN WINTER-Theremay lw liow promellt

 season, whitits, that it remders the iusila of a poultry
 in forence to the inside, it the horser They lete tha hathe and will thature mhl rather thatn darknens, A \&um whitewabing brightena up tho intarour and fromothe duanlintas.



 herst mellowl is dullse a lares rommy hemse with tho crates


 fow hour The diftentey an winter is to kfop the cold Ont, 2mot tollot it itn

 frimbla, it is not ther chis that you buy, lat the breed Take a turk wrtaroty turbere and sappose they aver agt fiftern imands each, at fifietn prats a puand. We

 war will woigh from five (ot toll pounds more, ant if com mond until tho turkeys aro threw-quartors Bronze, the
 4of forty prombs. It requres no calentation to show the



 suldom lays ofer two dozen eges, a guose threa dozn at


 have lail as many ace forty. A thek of turkeys often will not average twenty, but hems may $\mathrm{l}_{\mathrm{w}}$ imlncel to : (y) mor- by takine away the egers. Goineas are prolific, and it athrivel of their egge, somutimes excel the hens dutk will lay anywher from firty to one hanared

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## THE GREAT GIFT DAY

## Irs. J. E. M

Christmas is pre-eminently "children's day," the Christian world all over; and there is mieh left ont of the landseape where there are nompeet
momories of the day to reall in bater years momories of the day to recald in later years.
Sain a little sirl, whone parents han met with sat reverses, as whe spoke of their present tronblas:soond times we have had.
When happiness is ‥ cheat, it sumb at pity that smen should be so saving of the hetle mothay
 work at the eake bord; a small ham inyerted in with such fruit as it hears only at © 'larintman fime. And, wh! the difterence to the chilthon! I have trimmel a Christmas tree for nimeteen eucescive wars, and the wifte have been many
amparid, hoth as to expense and size, but oftem If have frimt that the simpleat gave the mont long-lived rajoment. I remember unou, os will filled tree with many handmame thr humbt in a city bazas, which wat almont whiphal ly a pait which sat under the trese. They were cand at as
 beantiful ohjouts. Somothing whth whin at child can really phay, in of tar more intweat than mold


 art critios. It is phesant to have ammethine left hold of, and thase fiteoltion may both lo larend tramed by the toys they rempor. I haw :lasag
 her homse to he littired np, "ith suath thitg-
 of tha mare depertations hase may hat mate
 whatever is tamenen, watil a pretty sonl pratern board, and cosper with athy hits of hrisht patmo
 paper, in all colore, may be lomoht fir at fing

 bright eard hore and there ic wery effective, an are red aphes, $2 n d$ rakes in fanditul shape
IFaving the treq decoratol, it is caty to turnibh by alking the wifts yom promen to sive then you the little tolks to "one bere of hri-tma know it is hard to keop such socrets, but it lises
 gooll deal from her dage minument. Shut and lock the warm garlor, and let some rusty permon trim the tree and lack it upsecurely until 'hrintmat mornine. Then make an unbrandine lay that rith muse dress eompletely to the lant shot button, before they go down to ibe well-wamet, well-lithtel romb. Fim if you do nut sue that
dressiner is done beformand, yon will find it a dressing is done beforemam, yon will hom it dressine will go on with a rindidity and a chatter and haghter that will be masual on a cohn win ter morainer. Fou will not med to "hurry up" even your laziest boy.
Eyen simple presents look twice aq valuable coming from the brathes of a well-trimmed Christmas tree, and the associations are better even mon matns be forgotern. And it is well to teach each of the chindran to be thoughtful with regard to domestics; especially the little danghbers of the house. Presents slie will hest appreciate, will be of a substantial, practical kind. and a little tact and discretion on the part of the mother ean contrive something acceptable. The domestic machinery will run far more smoothly if she is in good spirits for the day, to say mothing of the moral duty of kimdness "to "the stranger that is within thy gates." Try to fix the weod lesson of giving as well as getting on the hearts of all the dear children.

HOME MADE.

## By Ruth.

The little connvers were apt to come in with feet all showy amb wet, making a-change of stockings necessary at mure. That homg dobe,
the schoml shose were placed in a row by the the shoml shoes were flaced in a row ly the
kitchen stove to dry, and the little folks trotted armind stow kine-foten for the remamime of the
 remel deal of knittine and who had sat up night ath erompy whilurn, many timestin her life
Thath we m stonking-feet all ont
thia, and "atch their danth of eod hesides," she
salif. "They undit tow arspers in the even meg." " 1 know it." said mother, looking troublod, "hat it whald take five dollars to slipper them all aromm, and I have mot the money to spare" "thh" sid anntie. "I will see tha
they all have slimers, and it shatl nut eont na five conts." Motber was rather inmomblous, but cheertully brousht ont hor wh rolls of thick

 The bark of the slinger was a strathet strip. iont, anll thiek cloth when weres sewed in, and tha tup lamme with at stip, if silk. They proved an
 wall bathe them, all were abon supphat, ant dewsin their teet. Tumt Esther assured thent
 thwe simple wnasins for fur children wo.
 Moth, ad dackily withend up on the sewing from andy from lithle thacer They are epe-



$\qquad$
 VENTILATION IN WINTER.



 bomor. shept in it rown with at numbre of lee gufferaton for a breath of air. Ite awakmand his The man reluctanly atore, and whine to al kont Gole in the side of the honse, pulleil out a cork and held is in his band a minute or two, thet
 and returned to his pillows. rinter Cow warm sleering deapite the ah prejuliere some athll hald against them There is mothing health-giving in children shay wang half the minit in cond heds trying to get grave be sueh a barduniner process. No donbt one sreat came for the imerased longevity of the race in our lam is fow of warmer house in winter. Ity chillren have slept in well buter roms ath heir lives, and are heter cars at a time, nower have to emonalt ome, an anemmon thing among village chikiren of my acqualitance. Hepend upon it, there in a fallacy in this theory of tollghening children, and harH. William 1lall, vays le "would ins som think of improvine a new hat log banging it around." The only way to harden the constitution, is by aking good care of it
Well-warmed slequing roms in winter, are a blessing inteed, and an sove in an upure hall can often seeure this. But the rnoms should also be will airm smetime during the day, and all the blemed smaline of the short winter day lut in

Roant Beff.-Ahmont tremy Christmas table ill be suppliel with a tenerous roatt of beef, and even so common a dish needs to be well preared to he a suceres. Po insure this, it should re well Amared to kienp in the juictan, shondd be masted often, and thand trequmty, and the oven
 dripping fan, with the lany side up, at first, and finish with the other sidu manermst jut as you wish to serve it wat the talle. A seneral rule is twenty minutes time for cach puind.
OYATER Sote - Wost Christmats dimers begin With sump, and probally nine out of ten have yater somp. To make it, take 2 quarts of water 1 talnde-pmonful of salt, ? If hutter, half teaspoon-
finl of peryrer. Heat to a boiling pant. Add
 raan hemore tha moment it halls ups and erve immediately. So mone asks for unap twice secoml time for any divh, on Christmas dav pecially, is it unwe, if one desimes to live and int another day.
Tine Hessert.-Tha deseert on ('hrintmas day The fuature of the ulimer to which the little Shepoperially lonk forward. It shombla be made © hemate areshle, so it may gratify the
 erapus, and hanamas, uracefthly arramseri. On
 racins, wh the wher, nu of "andio. lloma pud-

 that his "mother" mine" pes" were the best
 erperer them: all know how. The order of rrith, nuts, ratim, bundmen, and then small cups


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lased dealer ariety of styles and prices, Solth hy in

ODDS AND GNDS


## Pbockandition

Beine now etablinled in my reign, and in the Government wer all people, wof band,
have taken into consideration that leddo is wedl adapted for the sat of lowermment, hammath as it is the greatest, the most ppphous, and the
 Govermment, allod the city shall hewedorth be
 body, and thanotur, 1 am anxinus th how mo parti

Let all my subiects le informed that $-110 h_{1}$ is my
 the people of Jipan are furthor notifled that since the establinhment of the Govermment at the eity has attamed a state of cummons prosperity but throush the recont change in the form on Gwemment, it has been fearem that the wonhd fifl intu llecar. The thomelte of such calamity camsen sreat grier whin Majesty of our foreign interecuree, it is desirable that the whale of the Japanme military torem hoold be so proportionately diatribut
the interest ont min Empire

## Hia Majesty thempire

cumstanem into consideration, hats determined visit altemately, his Eastern and Weatern hominions, and thus he will be ahde to lown, trem personal observation, the extent of hin ferble
 sometimes at hio Westeris, ( Kioto)

 understond by all, sa that his peophl" hy apprem ating it, may be abte te wapess their eratitnee

Fet, let their be no reawn to fear that mut people shall become promb beabue they ar prosperons: and let them not nestect their urdinary emphaments. A state mi luxurams ahemper Should this loe wo with our people, they will embanger their prosperity, and "wan cripple their resomes. With due regand therefore, to thei future welfare, lot them attend stuhnomly to the development of their arts amd manutactures By such wise action our people will beet preserve their Country's prosperity.
[Printed by order of the Japanes. Governmant, and published by Suwataya Mohe, livinu at Nihon bashi Dari Jehoomi, in Yedd
There certainly is a very prominent mark of civilization in the Mikado's proclamation, esw sometimes one thinks it goes a step farther than
ordinary ivilization. Where is the Amerisan Goveran who feels for hix people as this Mikalo dit? Wrlling to incobrenience himself hy that "the inhabitants would not lose their wealth, and the city fall into lecay." It shows hmuanity; and now that Tul farm and Garden is the first of the dmerican Press to recosnize thid
faet, it is well worthy of our jeende to comsider the find sugirentoms of this rular, whom it is natural tor us to lowk upon as a heathen Prince;
but back of it all, mow ithstanding, there is the brightest example of a "hrintian carecr. The last paragraph, extorting the peophte not to "neglect their ordinary enployments," and engage in "a state of laximome idlemess, -a natural eomsequence of prosperity ard wealth," is well worthy of a sermon; and the Prines's prestietion that such "will endanger their properity ant even goes to show what great minds these lieathens

Exefalse Fur The ditrls.-Dr. H. F. Fiamfiton says, that at least once a laty, girla shomld
 thenids may be wry geoted, and rompins may
ha very ungented, hat one is the shadow and the other the cubetance of hetalthful

Ion. Tavid Havis likes to do akindly
his "wn way, and is moch annoged hy beins the reportery Gne holinliy time, a little ragget moming paper, appeares before bimat the a-aal
 they returned, he directal his bander to cut his


 rechunized ham is nut strames, hat methery will be lifele to dorget that day, or the kimd man who had so genermaly provided tior them.

## ASTHETIC FOWLS.

A gentleman wwhed some duck whirh nased th stand for homre about amper vers brolliant (hinat They did nort peet at then an it dram at there by
 and hy, whe rich purphe flawerv of another surt

 phan for company, and when the ceame the
 thed out from hader the orla, ann quackm


 fable of orphem- hat sume finmation in tant

DREAMS
An Ensliah aciontint hold the ofthinn that ond





 pat he dreatume ot whale tivhinse, with mans thellines alventurn, from which hre awokn in tequr. Hi Palar hear experiment wata failne But he wat puzaled to trace the comberton to Prinally, her remmbered that in ante of the bum ha had reat, there was in mo morner of a lares pate, a tins pioture repmentine whal fi-lanes and upen this his rye rated maly fin an intant But unt of sud mbacre matarial the dram hat Inen mamafactured. Ha tried a imilar texeri
 an the whe har hand manted, and than it was mixed with other sulijecte on which he hat ner thourht f.r week

## female thumbs.

The female thumb is said to be an important mdex to the fimale character. Nomen with large thmos are held hy phrenolnemats, phy:

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Hident-what are rallod whithe women; "hile women with mall thambe are regardal as

 under thi control of temperary fonctions, or "f
 ley. Wimen with - puare hands and mall hamber are nam Thinath ort women will make any man haple who is firtumate "mush of win then They are but at all mamatie, lut they are what hone thumb have tempers of theip onn and with rally a lome thnule. the firn that he seiza hold rif hio mistrese hand,

 man find that hiv lady luse han a large palm,

 taltanl into on ont of inythins. and readily



 woman whow will dицい him.

A clom- have by a cantom hall in hattle froduce anm quer ranation in thene whe hatpen to have had the expreremer in surb matters. The

 N゙ambeno army and was protht at many ansacementa. At the hatth, of Wagram, in 1ata, he" "a in the hoat of the fray : the rank around him harl hom torribly thimed leve and at hi-musket he was dhot down be al ramon ball. Hin impmation was that the lall hand paracd thoneth his legs betow hir know, completely avering thema, for he modenly ank down, shorto
 Thekwam on the ermmod, and the man's sernes


 be fatally itmetatel. That he felt no pain he


 loy one wh the matical walt, who came romed to hal! the womban. "What's the matter with tond ma tumberly, dower", replied M. Buatihonse: "at tamm hall ham carried uft my less:" The suremon examinel the limbs referreil to, and then, giving lim a gerl shake, eaid with a loud lansh: "(iet up with you; there's mothing the
 pron anminment, aml surmbly on the lege which be hat thought lat tirever. "I felt more thankful," sald he "than I had ever felt in the" whole eomene of my life lefores. I had mot a thend anout me. I had impest been shot down hy an ambense camon hat, hat insteat of pasthe ball hat jramed under my feet and had plomeled a holle in the farth beneath at least a fint in depth, into which me loet suddenly sank, giving me the jolea that I had been thus shortened y the hos ir my legs.


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## VOI．IV．，NVO．IV

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## GDIRORIAL GOMMENT．

Ther pappex ar．whewinll wrommended ton and deardere forthe tullowing mice．e：
Rural New لorker anal Seed Distribution．
Farmer＇s 1 fevirw．




 second Himer，within turo sthures it Thiluthphint Post－u！tice，＂uml we hopw＂ll witi firiulls will vist us．

##  

In urder ter iterernse the whlswiptem list of the

 thase who will tet up，clmbse．The pureminm live

 some munthe，aml it is vur himpt hat it will arel





 and sond it twh wills ！！rms rewrowl．

Docember．The ware chi is mear．Dl］nature


 ing the winter handu he primeigally hain＂ark Though the smas－thak＋心 maty fill thiok abla tast，envelupher the lamba： we know that a kind lrovilemen intembed them as a protection for the whers what and ry，
 the＂quicksilvar in the thermmmare may sink down to gers．we eannot forbet that we need iow to cond the fiery buath of the smmmar ta come though a cold moth－wiotar may werp thragh the leaflese tree tom，we cat berl wombirtahly and sechre in our cazy homes，where ar bish tim in the stove and the hafer faco of wife and rhil－
 waroth amb sumbine
The days are short ：ferding and arine for the stocis in the stahbes is the mest improntht work． and a duty，whing the sund farmer diohater

 farmers attentimather the bed part of the diy
 wood just emourd to kerp your mander in prow tiee and to sharpen your ablerite．

Many an lome of theme lons avenines will bo spent in hamaless gossif．Heware of the von＂ mons kind．
Give the mack mumbers of yum ardientmal peromical a thoroush orer handing ann reviens ing，wot to forget Falsy AND Gialnax．

Spend an hour or two necasimally withy your neighbor，and tatk over the prohtom or asponk－ turs and the prosperte for the finture．Two hands know more than one

Chaw him the baten numbers of TaE rata Kindurse to us，which we alwats ampereiate
lalk with your shidren about their stumes， amblow user their lown with them an when an praticable．They will take greater interest in them and leam them fanter．
（ hatistmas is drawing bear，the thme when wr hear asatn the happe tidinge of the rentomption amb of＂pate amd gonl will th man．＂Hay

 ammenting grip of note－sharers，wind wrs，and
 of him own mitht，bedint of hand work and areat
 will of his tellowmen．Let us dutorthers what we wohd wish to have them do ly ws．This
 will tw men！
It is hardly in searib tol talk abmat urehatel
 the thllent anvantue in the month of Werember， ther Chinimatrer．Guthte of hts had ot swerd
 mel antivara the trmberent tmaname in their
 Mla，the oll rour tathe wh the osth．It is worth all the trinble and ：xpant
 homen in the jerpure combition the fate the risors Are your stable and whe comfortahle and ：arm：
lone your han hansat k．eplout chilling wind？

bin gon provide then with enom drinking
1．your corn and arain well menorel？Your tark－promented？
 Wend han dark
 all tha゙ゅ（qut－tintm．

Wh many farm in the pxtrone N゙orth，it takm
 to kial the family and the tonk thenthe the

 how we＂all atmal all wath and make the mant






 wall a irrombarity in budine．Emoneh in a


 amomat of fecl．
 fhar saw thronaly a hig low

 hambla be the ormer of the day
 theis arine cataloges．We，the firmers，who



 amd w．will have it．

Pown labor may lue chatu，lout it is not jurfit
 fing of what darime tha lan harvent．A aropod



 anlt tofind a market fior it at werab aront－fer hashol folow matkot prioc．The statking was


Wroknow a peath onthard in the citr of Rich．
 we are marertain whother the fact that it desernd towarle north－w．い．it c．levation，or geod enlti vathon，i－the real cause of its prodactiveness．

Th．Granger＇s pie－nic，in William＇s Grave， f＋blly lyania，certainly was a great surcess．Yet， prhap evon the Grangers，an organization firmad for the purpuse of solforfense actamst monnmlier，Me．，allow themselves to be used as turls hy their beaters．
＂I want ewry famar to have his fowl in the ketthe earh fmolay．＂was the facorite expressinn of the Manarch of France who wancalled＂le bon （the stand king
There iv nuthine to himbor a realization of such a what this brosed mumtry．Chok＋ns are a ereat whany and yet．wery farmer in able to Mine it．Make it a ruly toration plenty of pomb－ try and tu have a dicken or duck or turkey for giar－umbly dinner．

In lolyine mamery tock，farmers eamme lie tho arafinl．In lave we planted fifty belaware Hrap：＂un tom lam，and save them the very
 or thith claw，and in spite of all faroralife combi－
 arnwth，amd will crintime to be inferior and muluraized fir their age for all time to come． Stork mur stuntod．duen not rem to recuperate bery rasily．It alon shows that vigornas one wair ald vine are better than two yar olds， Which are wen．rally grown from the second and thind erate of the previnus year．
The indivilual visor is destreyed and irrepara－ bly lon．
Wi．hall welenne all war uhd suberibers，and as many new mas as pmelle for the new year． The umall price at which we iswe this journal lorings it whthin the rach of every one．If in
 take a＂His for some whe else ：it would make a whal $\quad$ Oristmas premat，whose coming，twelre Timo：falr，wald he a reminder for the whole year，of your friomdhip fior them．We believe bul conlal make marent more appropriate


The pribe of farm prowlucts，such as wool and train，is very low，and there is a general stagna－ dion in buximess，and an monettel state of the warkets，＇The fortign production of wheat has ben yery large as well as the home production． Ghould the proseres of winter wheat continue as enorl in they art，there can be but litule change in priess firir the better．Goun（ropse as a rule， have bestu erown all wier the gran jrolueing p：irts of the wind．The yeir if 1885 has been Cule of a bomotens harsest，and with the present price of erain，otwk fectling ofters a prod home markt for erain．

The wosl marke shows that the price of wool mal likely t＂：watu reteh the former high priees．The g＂phlation of the wordi has not
 Wrath，the romamption has not kipe pace with prondmetion，lifiore Su＊ralia，Texa，Colorade， ［alifurnia，amb the plams began whe wool pro－ doners，the sught of wom was erown on dearer lurer and wh wint flow es，：s a hatheh of farm
 of wo．．growine has asumed yant prowrtions and hav incoond a rexular hacinese，and flocks that thatlly wor counted as hundreds，are now

 aml hrowl morn for muthon than for wool，and the pripe of matton will pay for the lase of price in M，ml．

When partaking of four chrismas dinner， which ma whe domerses lecter than the farmer， amd while gan tablew are baded with plemty， and fruparity has rowned your labors，we hope
 wh．That sum，hew，wend ant of yours may in：ke hapley sum other beo fortunate home．A
 if delivered at the itwir of she deserving pon fimily，will madn yom an at aw

We fird that we have dome our daty hy our nhouriow and that we have giren yon the tuld
 DEX．Hace we mot？It will not le nowe than fair．Wat you shmold uxert your infloenae and work a litite in cur twhalf．We are entitled to yont tinw，yet，we ark mothing without compen－ atmos．S．e our litural spoial oftors cerery mothth．Whabe tried to please and asaist you． fon the same ly us．We deserve a much larger －nberijetiom list．

Nion roll up a rousing majority for The Farm and ciarleu．

## GLIPPINGS.


 the tratiany publications.

## From "Poulliry Frrper," Chicago, Ill.

## IS IT MEAT OR FEATHERS?

What good are feathers or a scate of points to a happy family gathered around a dinner tahe? This is a drect question to those who carcy their "gonnel " m their hip pockets. We will picture a large family enjoying a hnge pooltry dinner. It is sunday, and the mand is well umber way. The fowls were hrought in from our coops: when alive they were excellent in build, healthy, and sermig: they were two-thirds Brahman and one-third Leghman. The swoking fowls swon parted company, ame the rx. pressions of satisfaction, the crumbling of the thathr brmes, and the smils of contentment erossing the far of
 fowls who would seon fillow in the smoke, all catit a charm over the scene, sif that we conlf mot help claming, "Who would not be a pobltarer of the troifimate sehool? We now tura our thoughts to the man raising fowls in wire cags and spendine the Holy day in scaling-up" hin jatis and feeding his tamily off of stew
 fancier. but there is moflecsurf or proft in the matlual he rears his tusk. The legitimate breeder is ome whose effect is Howh and izy.

## 

## THE THRESHERS AND THE FOWL.

In goine from bouse to homet the threcilatre texperet to meet with some pretty old pombtry, at they arw the easiest cablat; but at one pare owar in hamp Pale
 For three sume suve mornings they hurlal their limedes
 out getting besont the "pleket lines." At theveretared the lady heard the fellow that drives the horse-rmwor and wipes thr lard padiles on his haots, say: "I tell yer what, bogs. I've struck it.
The lady sisid ahe moticel from an adjoining rom that the next marning they ato their break fast, one at a time, and as there wat mon one flew at the table, the following conversation seembintrange to her at the timb.




2d. Thresher, " W:all, my friem (abldreming the finwl).
Low goes it? How do yon staml the "wear allal tar"?
 room.) Wall, good day, I'll swa yec litur.
But they never met again, the thraliers say, for some

## Brom "Live Stock" Mmuly," Itotlant, Mr.

## BREED SYSTEMATICALLY.

Thw only way to real und lavting bentits from improsing oness fleck or heril is tos atiek to the work if breding
 What is gamed in ons suar by the introdnetion of a Well-bred hreether or two is often lost in the next hy thanding the fam stoek witb the grade progens of fonlblomed sires. The tronble is that a great many farmatis
 can he bred out as fasily as it ran bu bred in, abd that it
can only be beld by the process by when it in birst intro-
 this year, amm his plane is takell attor a while by his hatifthen progeny, a mistak. wheld is mate in erery stork-ratinng neighborhood in the liand. The gemuine proess of improvement on the hreting up plan tha grade of the latter thos improvingwith eu-h genaration. The nse uf grade sires, hwwever, shond never he tolerated, as it estatiadly reduces the percentace of good blamalreany secured. It is a waste of money to hegin to improve. ame then stop just where it is must important that the conrse of improvement should he steadily lield. Ont had bulter not hegin at all than begin without the fixed intantion of carrying the enterprise through toa successinl outcome. A temporary saving of a few
dollars just when the froits of goud breeding are beginning to crop out is frequently the most expensive economy in which the farmer can indmere. The thoughtfal stockraser shomld pond orer thes+ things, and allow nothing to stand in the way of carrying out a well-chosen plan of improvement.

## From "Brefders Guzette." Chirngo Ill. <br> FROM SHEEP TO CATTLE

An observant gentleman, racently returned from a somewhat "xtendrd stay in Texas, mentions the fact that the rather discouraging conditions surrounding sheep lushandry for the past fow gears have operated to cheek the rapid increasp th the numbar of whep which bas for some lilly last characterized the history of the
wool-growing industry in that state. Thia may possibly prove good polies, but the ritzellt does mot so consider it For the that there may be fonma in Texas and surroumat ma territories conditions whimh lend amore encouraging nutlouk to cattle-raining than is just now to bet seent from the shapherds standpant. Catte prices are ex
 There can be mo doum an wo which in the mare prolitabin now: but condtions of the markti for thock and berel praducts atr liable la change bethre the majority Shmonmaters can ehange thar busintess from woolgrons ing to beet pronluation. Io fart, a change of any ronsiderable proportion of sheep-owners to cattleraisers-
 Tasaing the yearly outmit of heti carthe-will mor ond hasten bit insure in the market for the bater just the chme discouragina combitions that now render shetu minhandry less protitable than formerly. Flock prot dacts are now low because of full markite and limited imuiry. Any marbed increase in the annual prombetion of bew will, in time bring dosn the prise wit that atti-
 hasiness is duite likely to timd his adyent as a serler in

 a future marknt to aseape his motict, will be ready to advance his offoring as the "visible supply" of woul

 [talize that whitw beaping from that tryburpan of low



## WALES AND TALKS ON THE FARM

an Exglish centiteman wberame over on the "Oregon" in less than six and a half days, was lookhing ut my Vorthern -fy applas. "If you wond put them tur sman
 Wh thrin for you at a food price. Feorle do not want th buy a whole harrel at a thme. Pat they would glady luy a pailful. Your barrela are worth little or nothing alter the froit is out, but the palla would be worth with be more that they cost you hore, I saw a path toflay bued fir shipling tobacco that is just the thang.
"I am afrobel it wonld not work:" said the Deacon, "The atppes would have to the pressed, just as we now propurtion of anpus injured in pressing would he mueh fur aiter than in barrelo of the present size. Amb besidnew they twll us that and Western Naw York apples will not



They mast be freat dutfers," suid the Englishanan. " burr imple crop is a failare this ywar, and your anmbus will he wanterl. Wre have hasd the grandest crop '




 -l markrotime.
"That is true," sald I, "mal whife at tirst thourht Was inclined to agree with the Itwom, that we could not une small pails for shipping apllas. I am not sure that the plan will not work. We conld atod the crusbing the Deacon spuraks of thy using a fille-hend for fressing duwn the apples. Thia fuldoleat conlat bu covertal on the inside with sume soft, flastice material that would not bruise the apples in pressing. We could fill the pail, as new we till the burrel. Put on this faks-head with the soft lining, press the apples down firoly, and then take off the mressure, remove the false-head, and prt on the regular worden head and nat it down or use a linger strap to holf it in place."
"But," said the deracon. "could they be sent on the cars and sternmes?" "Why not?" said the Englind man, " you send your lard over lu pails, and I do not see why you cammot send aprles. And, as I said before, proplo wonld by them becanse they are easily handlent, and because the pails would be useful after the fruit was removel.'

## Hom "Farm Jowrnul," Philutelphia.

## FAMILLAR TALKS.

May, in this section of the country is very high, and it has buthered me what to winter. We bave to look aheal anl go slow sometimes. I believe in manore mure than I do in the new notion about "phosphates. "Phosphates" are the god-fathers to laziness, and the death-knell to good farming. Thety will do very well as an expentent, hut that is not the way to mantain a good from ally mure than good religion. There must be a substantial fonmlition to hoth. My foundation for grass call "barn-yard manure." This is according to the call "barn-yard manure." This is according to the working of nature, to put back to tbe earth that which
is taken from ir. I can see from my door a monntain sill- that was once covered with huge pine trees and other forest, but which is now almust barren. It was first robbed of the trees, and then by eropping, of all vegetable substance, until it has become impurerished.

The soil was sandy und it conld not stand the drais as long as strumber litnul.
I like blatep, and an I have startal amother fiow alung

 When they aro combun two years old I shatl cross them

 netarls sina ton: hat my batanere comm nut of a paying thock of sheep in two years and more namure. I could have bonght oha sheep for less that balf the money, but In the long run the lambs are best. I had to cooppete with the butcher, who wonld baste pand the same price. [ haty had a kind of revolatum. It dud not cometo me in uny dreans, or fin the night, but whik I wats watking oner the fithe whort I wanted to sow something which womh pay the best. IIy wife is a litthe tasty abont somb things. she dines not like the thone the conntry nails grinal, so we do not ratse wheat to eat. Ihad six acres to sued hown, and wanter erain is the thing to do it with.
 Clawson wheat and feed it to the amimals ou the farm." It will field more than rye, the straw is hetter for forlder, and tha grain more nutritious. Now what grand form it will make for the homs, the rows, and the horias. A litthe will rat groat ways. Instem of worving as a
 iean fiarnors make it intu bepf, mutton. and pork, and Supply the world with their meat. Whoat is the mast
 part, we can ketp on rafsing wheat always, so tar as the soil is emerrned. Feed wheat.

John Treker.

## From " Chuntry (temltemon,", Alluny, F: : ABSURI) POULTRY STATISTICS

For many months filit some figures, whicb athy reasonahle inan must know at a glance to he perfectly absurd, have been in circulation in the papers, as regaris the enormous value of the poultry products of this coundr:. Avveral times as they have atracted our notice it has occurred to as as only matter at duty to prit'k the muble, but other smbjects of more moportane lave intorvened, and this has han dropped. Who was the discoverter of the statistics referred to, or trom what oricin they were derized-unless irom some publication of the Chited States D"parthent of Agriculture-we
canmot tell. In the latest pubheation of then they are

'Accorlinit to the statisties of late the value of ponltry promuced in the C'nited states +xtoeds ther ralue of either haty, what, sutton, or dairy producta, as the following higures will show


The only Jutht rubly accessible on the antueat must bu from the C'mated states Census of Inow, and in the whorial summary of the statistics of agriculture in that "ork, part 3, paye ? 1 , We find the following, whel ja sintifly a condensation of atetailed tables published later on:

- Probably few persons approfate the importance wf the eqntribution th the ammal frometaction of wealth by the common harm-yard fowl. 'The statistica of poultry and eggs were gatheren, fur the tirst time, by the cemsus of lan). This is a smbject to which the limitations of popular statistical emmaration, alrendy noted in these remarks, ablly with suechal strictuess: yet there is no reason to dollbt that the figures approach the facts of the case for the country as a whole, and exhihit with great accuracy the relative importance of"this interest in the severill sections unil staters."

The number of barn-yard fuwl reported in the census, fxelusive of sprige hatehing, was 102,2-2,135: of other fowl, $23,-25,157$ : the number of dozens of egits, tox, 414,416 . At twelve cents a doz + n, certainly a monlerate estimate, the annoal valaw of the egg product to the farmer would reach neariy sto (0n0,010; while we may
 ammally out of the stock of fuwls remorted."
Hert we have the estimated value of the egg product in dultars, and if wa "suppose" the meat product to he
 total:

> Vahe of Fer Product,
$\qquad$

Showing an amount about onf-gfeenth of that stated in the table quoted. In fact the aggregate vatue of the entire stock of barnyard fiswle in the couotry, as it stood in the spring of 1859 , if we call it bifty cents a lead,
 Whatever tive reader planes for the " other fowl."
In the census of lwo the return of money values of farms and farm products as enumerated in previous censuses, were onitlet. But, on turning to the c\&nsus of 1870 , we find that in that gear the entire value of "animals slaughternd or sold for slamehter," ineluding
 What some enthusiast wishas as to belleve is the present annual product of our poultry only.


 NEWYOMAER
FARMERS, STOCKMEN, FRUIT-GROWERS, Raral people YOU CANNOT AFFGIRI) TO DO WHTHOET IT Ask thosewhoknow, if you do not. TEE RURAL NEW. YOREREEXIETETODOGUQD It IS PURE, TIUUSTdiffers from other rural journels in that it is awned nnd eanNO OTHER FARM PAPER TO COMPARE WITH IT. so a日y thousands of the BEN'T PEOPLE In America. THE BEST WRITEBS in the world-over 600 contributers. 500 LLUSTRATIONS FROM NATERE-the BEST ARTLSTS. 880 ACBES OF EXPEBLMENT GROUXDS.
Whests? These and hundrcis al others have been

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INDUGEMENTS RO MRNEW.
The coming rage in hair is an sumb trmber red, like that of at tomato whinh bat erown wh and lont usefinfuess.
It is hardy probalide that there are any tele phowe in heavery hat
The esil thinge that mpa den live after thent the tatal instrument lwhiml.
you call the meal wius ent in the "Oatmeal!" class.
 yoursmit, my duar hir," rephowl the "'optain, "w have a large insurame on the cars, Way to make the hardint woice soft and sweet. is prebably to jump on it until it hemese flesible.
An ege farm is to be started near liminington Ala, and all the durkies within a humbel male of it have sumbeuly eome to the conchasimg tha wanted fir years.
If there is any eirs who doesn't like tu pom the question, even if it is yet lap rar, sho can pet ar, nud it hy akine her young man if he'd he
willing to fill in his name om her marriage certi. ficate
A book just pablishec, is entitel " llow ", During the fast fiew years, some perons have asked wheh a hiuph prive for eure, that an imprest sion prevailed that they wantel to make a profit of $\$ 500$ a year with one hen.
A little girl areompanying her mother on a Fisit to an olld lady, the latter showed the child her parrot, in hin care hy the window, waruing should bite her, "Why sheuld he bite lue" she avked. "Becance my dear, he dorsilt knuy gon." ", "Then pleave tell him that 1 am Mary

Will rou kindly tell me what is goine on in that church?" askol a tramp of a gentleman who had juet descendend the steps.
"They are hoding a chareh fair.'
I im very sury.
Why are you sorry, my friem?"
有 A lady-a Frach lady-is showing a pisitor the family portraits in the picture wallery.
"That officer there in the unifurm." "he says "was my great-rreat-gramlfather. H. was as brave as a lina; but one of the most untirtmate of men-he never fonght a tattle in which liedid Then she adds promilly. "He took part in twenty four engavements.

A Montpelier five-vear-ollof our acquaintance vas once invited, with the rest of the tamily, to take tea at the home of a friend. The heal of the fanily had taken pains twprepare a tempting supper fir his garst, and, when all were seatet at the table, and it came tise yearpolds turn to
be helpell, the host said: "Well brill you thave?" Johnny looked over the what a minute, and then male this erushing roply: "When I nom at home and inn't see anything gooll to eat on the table, I have crackers and milk, and I guess I'll hive erackers and milk

IIe was telling them in the village store that his son in Chieage had failed, and when they asked for particulars he explainel :

Why, he writes me that he bought wheat for July delivery and got left."

IIow left?"
I dunno, but I guess he couldn't deliver it. Mehbs teams was awfil skeeree, and mebbe the ronds wat bal."

Well," said one of the crowd as he brought his hand down on the eounter: "If I had a knowed that your son Bill was pinched to deliver wheat, I'd gii him the use of my team a whole fortnight for nuthin', fur bill was ane of the best boys who ever left this town."

And me, too!" added every man in the crowd, while the ol. 1 man olserverl

It'll probably be a warning to William, and mebbe he'll set in and buy watermelons for January delivery and get on his feet again."

Your rencwal is now solicited. Seeour Annuat Premium List.

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Gurden, will eoutain One pine Jhateh My acinth, Tu口 G © enpe Ifyccinths, Turo Tulips, Five Crocus (fuch of "litforent colur), One Scilla Nibrrica, One Single Namisens Poeticus, muking in all, when quality is considered, as fine a colle, lion of winterblooming bulls as coutd be usually bansht for $\$ 1.00$

For. 51.00
We will send one fine bulb of Lilium Har. rissil (see cut on purfe 1), imported bul us from growers in Birmude, one Dutch Hyncinth, Five Tulips, six Chums (four colors), Thrce Npanish Iris, There Stome drops: incluthol with this is a yrur's subscription to Thif Firm and Gurden.

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Vol. IV.
JANUARY, 1885.




 wht hiph withza'al, for this will sion and read it

 ordor him in an artltrary mannmer to go and do thek, or wornd do that, like a man of authorlty,
 and tralled like it dog. Should he work with m
plow, pive him the pioricit one, and teich him that he is an underling, hut expeet of him the Narna work as the man who hist the good plow Fivthe and helf the hat, give hlm any poor, old and it the luty rammot ketp up, "till fimm lde lazy, gemb-for-inathjng, or indy choje "hame of the kind you can think of This mathey him feel the untice of gome firmurs ldea of a hoy to do ${ }^{n}$ man": daty 's Mork whth the pooret truitio on the Todiscourage thin the niont. : hlfow him is plg or lambind tyll him that it js lis and take good When the that will therourdge him to work. When and put the nofisy in your pocked lambor cati and put the nobing in your pocked. thould
 have no latience
you are injured, mintinent and ln justlce helps wean him trom the farma. shonid sour boy still love the firm, do not tie discouraved, but growl a little wore, and try again in some other way. Should there be a pienle or an pleasint school enlet him go, but tell

large slze and depth of gratine. The abore illustration 18 an exact pho tograph of one hill grown on the chanicssille, Bucks county, Pa three stalks and each stalk two large full eare. (which is a great peculiarjty of this valuable variety
of son at the Pennsylvanta state Fair in Septemher, J8st, and re more than onte hundred samples Beauty corn is a strong, healthy Beauty corn is a strong, healthy,
vigorous grower stalks miedum helight, very dark, broad, green leat, large ears-10to 14 Inches long. ory bnall cob; deep, broad grain, medhumeary. Maken the rrehest and best corn mend, and is asid to
ontylelu any other variety 10 cultiyation. We have reparts or over
it bushels of khelled corn to the acre the past

## MORE ABOUT FLORIDA.

BU H. ©: steflf, Sutizerland, Florida. Since the publication of my , let ters on "tardening in Florida," in ThE FARM AND GARDEN, $\quad$ have recelved several lettern of inquiry from roaders of the paper.
le that outhers would be interested
to know something more about the There 18 very little difference of Pinion as to the decirability of
Forida as a Winter resort. That nent home is not mo fenerally ac knowledged. I cannot with in the knowiedged. cannot with in the ments which prove this to be a fach
The best way fo to come end sec. For the bencfit of thone who may de cide to do so, J Wish to ctate a rew frets that should he considered by any one who thinks of locating in It is not generally known at the North, that there is a strip of ter-
ritory along the cast side of the aritory nlong the east side of the s to thirty milea of Jacknonville
where orangea and lemons are where oranges and emons are
muccesfully grown as they are 189 , miles rart her mouth. Thls ta owine and nort protection on the com.. with cold north-went winds. A the polnts 1 apeak of, the river rrom two to four milles wide.
At thls place the coure of tha river hasuch that e north-west wind
nuthe cross from ten to $t w e l y e$ mukt crose from ten to $t w e l y e$
milus of water, which is quite milfe of water, which is quite
warm, fowing as it does, from wain, fowing af it does, from points looto
Insit winter was the coldest that has winter was the coldest that many years. Orange tread from six to elght years old, many of
them jarge eaough to have borne
make nown the whli. But this fa about as far Ra tho chemint can go. He cannot, for example, informi us, with certainty, where the nitrogen Bince from Hia cannat tell ur why it is that a elover crop, requiring a hundred pomuds of nitro號 A Proliflo, Ear
ly Sead Corn. If heen po outragraunly
of thin paper bavemudy
ruth alwitt the Golden

 ,

## PLANTING



BEAUTY CORN,
 12 screr on It in the heat of mony
eurly feld corn. Why he heat of mony
feld corn. cal crum rethilring halr $\frac{1}{6}$ much nitrogen. Nuch agues then prraon who hus made a
study withe differences of gruwth mind fireding power if the varloun planta, It is know the composition of a crop, but there are things to l.e considered th
supplying the soll with tho I' vou phant worthlenn need corn.
GENDINE GOLDEN
BEATY woud effil Offen!
 compare made

A NEW VARIETY OF FIELD

The most noticeable difference fonnd in the next group, represented by clower and beans, is the greatly increased amount or the nitrogen, which in the first kroup; this fact is easy to remember. The potash is nearly three times as much, and the phosphorie
than that in the graine and grasces.
The'first thing io be ohsurved in the ront crop 18 the larger welght of tha kreen ropp, which When compred whin the hyures of dry keight is efen to be very largely waler, The amonnt or ash is greatly in excess of tat of the prefeding erops in the table reaching as inghentas. The ammant of nitrogen is aiso lange, averaging considerably above that for large, averaging considerabis is remarkably high in the turnips, and expecially thithe mangela, When it is neary ten times that of the wheat. The phosphorio acid is also abundant in the mangel crap. From this table the reader gets ageneral
meto the demands which the various carm crops

CORN,
BEAUTY
As corn $\overline{\text { Is }}$ the most im-
nohmeriberast 25 ants
friteht pail hy u. ONE CORN.
in the Cnited Statep, and probabiy is of nior value to the furmer, in a general wity, than any other, it certainiy in of the highest linportance to obtan that kind Which will make the awnt, and the of the kreatest value for feading purpospe freat improvemants hat edech mad ejph1-rowed and thick-cob, shallow-arnined, gund-and varlatles. This haw not been hrrugh cions bybridizing and careful selections of the best, earliest, and most productive stalks year after year until the orignal type has become en* obtained that will produce nearly twice as much per acre as our old-fashioned sorts.
The best and moat productive of any we have Fet seen or heard of to the "Golden Beauty" Which wan introduced a tew years aga rad bids productiveness, beautiful appearance of the ear,
fruit this year, Were killed to the ground on the west side of the river. On the cuat rees were killed, and only a very few young trees were injured at all. At onr place, the only shins of frobt were that here and there a twig was louched a little, and dropjed its leares. Afew eltron trees, the tendercst of all the orange tumally, lont thelr leaves. Lemons, though more enongh to drop their leares. A gentleminn from the west side of the river Who vibited our place after the rold snap, asid the house for sisfety the coldest nikit, and vet they troze to death. My nelghbul, whom be was visiting then took him out and showed him soveral boxes onntalning haudreds of little seed ling orange trees that had been out of doors unprotected through all the cold weather, yet, only one of the whole lot was ingured.

One of the liest iningu a farmer can do to to take a good practical pajut in inrming, not on. much for his eapecta. lirer yonv uill too Ald your boys or pirts co got up a elus We would tike to have a club from them.

## NSURE IN THE TRAYELERS,

Gnarer harty with princlpal agit in case of degit 8 triging coes Apply to may of our countlers cogents, or thent.

GRAPE VINES, and
SMALL FRUITS by


## MAULE'S GARDEN <br> CAnnot at sunpassca. tro to Peat publiahed. Fot



THE FARM AND GARDEN.

The cold wave of January 6th, Jst, killed more ecedlings and young orange trees in Orange County, 150 miles south of us, than it did within the territory I have been describing.
Guava bushes lost their leares, and many ware killed to the ground in Urange Connty, and they were no worse with us, in fact, a few bushet, near the river, under the shelter of sonie live ouk trees, escaped whthout any injury whatever. There have been very few bananas set out in switzer Iand yet. Of these, however, a few ripened Iruit
In 1833 , though too niveh injured to frult this Year, none of them were killed, and thiy give Year, none of them were killed,
Whlle in Orange County, a year ago, 1 found that they did not expect to be surcexisitul in srowing pineapples, unless they gave them some pro-
toction during the winter. Pineapples lived through the winter hit our place without any protection whatever. They werebadls hurt, but the same bluount of protection necessiary to eccure a erop io Orange County, would innure one
here. statements may seem exupgerated to These statements may sem tapgerated to
eome. 1 do not ask any one to tate my word onsupporter,
to orar water priptection, is proved by the fact the
BEAUTIFUL EVER-BLOOMING ROSES.




## as you go back froat increaser

## baok from the

## while in the gr

tonohed at all. Uniunir the river,
oan be bought for about onwhalr the price paked ther poorer land further south. The reasoni for Fhorida, what to grow oranges. They have hea that to do so su
the river. The "whents for all the transportation lines encourase thas dada, burause the farthor gouth the people go, the more money they get for fare and frelght.
It costs imore
It costs more to go from Jarksonville to Orange County oneq, than tomake a dozen trips to Hwith erland and back. There is also a very yriat diffrom the two points I am compuring.
Trom the two points am compringe.
for many years. It is said, that at one tin it wed mor many years, Ie by rall fenee, but thle fornce whe burned by one of our forest fires, and slnce that time $n$ one has been ablo to find it agtuln. Siriously, there is a great dual of nons+nse writt $+\cdots$ un won to settle in Fiorida, to look about him well befor deolding.
I have no land for sale, nor any internit in the sale of that belonging
ago In the plne woods, and am trvink to make
mywotf a home th the "I Iand of Flowers." My mytroti a bome in the chand good neighbors, If posisible. To that and I woll glady answer all inquirles from parties who onelowe stamp to pay postare.

## GOLDEN OPPORTUNITIES IN THE SOUTH

## GRAPESANT, 9 RAPE WINE

The United states openg a ofde turrltory for
succetsful grape culture irapes are grown with proft in miany of the Nirithern states, but their
home is further south. In Virginia, in the Carolinizs, and in other southern territorles we find the vine in its natural eonditlon, unimproved and deultivated, and yet the fruit is often very
aceoptable to anot tou fastidlous tumte. This cir-
 ellmate and soll is naturally manted to the grape. the Goorgia lline, evinently uetipves that grape growing there is profttable, elat he woull hardly planting
 market malnly. I have vicitad the latter gentle man's vineyard. IIA Comoords, Catawban, Ives and other varletios aro growing luxuriantly, sield abundantly, and bring very falr ratarns. The Delaware there doew not seem to the quite so re
Whise writing this arthele I find myself rlght upon between North and south, on top of the Blue Ridge, which divides the griat valley and


## has proned th

| Union. Althouqh it patuila upun u" work, whirh others would perkwps not. |
| :---: |
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$\qquad$
advice and infuernation.


Pledmont. Roil and climate seem to be allth favurable to grape growing, and on

Mrk:ay, at Belmont nuar Front Royal, the liorsing
 Hartford Iroliffe, and Norton"s Virginias Ridge section is plentlful and chath, from $\&$ son
to $\$ 20.00$ per acre. Thervfore grape growers, t make a start here on a nuoderate scale, need but
mithe capltal, nad have numy other th inga in their faror. There is ilttle danger from injury fidl. Catawbas husve a chance to mature every The trult rlpens early, and maty he mat 1 do not see any reason why growers should buy higis-priced land in the North for griper erowing whenstuld advantages ar* offered itlittw furthe south.
aseap where wine here, hin tharamatively rare the grander weale, which charberterlans almositat
 whato of planther one. Noduce, than an Northener hor are great preparations conslderend necencary The land is plowed, the grapes planted, rather s, keven, or ejght feet is the usunal dis the stakens, or, as in the cuse of the P. M., and


AGENT- WiNTED fov wo new fast gelling artl



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But littlo, rin he dump ln the gioriop ict this pardi. Hog ben manme is very gomd for farden In ti that it will mak, a vigurobs growth of vine, and is very valuable fir turumbers, pole beans
wad running vin+s, hul Is aut tomake tho plants on yigorous for un textra carly truiting. Fresh
 he roots of rarly ntuffor
1arn up the rtufl" Put
the hill.
The season may not allow it this mom, to mak garden rence, if yuu hithe nont, by ati mean and plan for a good farden the comilus spring. If you what anearly wider. s.lecet a plot doping tight on the north side al the gurden ichd white wash it on the soathside. Should your girales onl he heaty and cold, look up sonne sand bank well with it. If you do the job well, it will not require to be done again in a lifitinue. One hundred loads of sand, carted lis \&arden, will make a clay loam a handy one. Tiv it eornar of tho
garden.with gand, any way, and see if you ure not pleased with it

When se ask the rendires of this paper to sond us a club, we mean you, of course. It is easily dome.

## PMEBEANC. ENGRANER EEf 

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A \＆what the tlisy bug
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Cn acconnt of the masni

fi me flower gives
of when a single plant is covered what must
man as Altyardener near germantosn had

from their days work is another dequante feature
Hve thein an arreeatbe surprlse
Geddom indeed，will a plant blomm the first year
the secont．Those．Who have greenhouses may
ant it in the ground without fear，for，althougb

BLOOMING CEREUS
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hit tone plant
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Best Roses are the Cheapest

 ROSES
wi Qualits onlst ＂qual Co．，Manland．
BULBS BULBS ？ ALSO SEEDS ᄃOR FALL SOWING

And Plants for Winter Blooming Price－lint FTREE．A．E，SPALOIMG，AIMSW？RTH．IOWA． 10，000 STRAWBERRY PI．ANTTS FOR SI5． AlI，TIIE NEUCVARIDTIES，Send for priculi EABLIEST OF ALL FULTON MARKET YOMATO．

## It smooth solld medinm size bricht red color an

 very prolific Far market gardiners use，it has no riva 89 and 81 FULTON STREET，NEW YORK
## Fornamental

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Ridne aed Lehliah Aveaves，Philidedilatia，Pa．


HybRID CLEMATIS．
The minst Benutiful of nil IJARDY CLIMBING mail．Gend for our Illustrated Culalugue．
JOSEPM KIFT，West Chester．Pa．

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## SEEDS

 TUSES By MAIL. 4 for 50c. wh. b. reed. chamberibitrg. penni.100 beat variatlas cheill by mail or exprevs.
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## price of The Fapar Asd Gikiden. <br> $\qquad$

thingu to kenp bausage in this manner, are ebsen the situsure thrht and not. 3d.-Kec.p the sausage coverel with the grease. When tho cana ar cold, lour thattle mot greane aphan over the kauthe alr out. Eirthern jars, when used, will allow the sausare to mold. To open tho tin cans, set in be withour melted off and as soone the cans with top Invert over a dish, and the arnsage wh. 3llde out. The above reclpes are worth to ans man or

1-For Bohford, Pridgeport, Connertleut, aske beef catth. 2.-The address of some of those engread in $1 t$. Answer $1-$ Henry $k$ thwart has ${ }^{2 t}$
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## PARSONS' PROLIFIC POTATO.


under whteh he labors, be ean only know how te will pay by a careful practical trial. The manure is always allowed to pay for the labor.

One of the most successful pork raisers we know, fay's the secret of his success is his feeding he begins on an elght weeks plg and feeds it ust slope, reguliarly, threw times a dav. The feed is never increlsid as the pig growis oluer, but remains the same always. The pig makes a regular growth and is never over-fed or under-fed, bat atways remains healtlay and in a good growides condition. When ready to fatten, be feede all the mes the hog will eat, but does not at once begin the fall feed, but increases the feed gradually for a week or two, before a rull feed is allowed. His hogs, al one year old, often weigh 00 to 609 Founds, and the cowt is mush lese than the usual find opme. His harare alwase kept ary, hog. In thelleves kindness is cheaper and pays aus मell as so much corn

Rnotif for Moramb- Horbee will eat all kinds of roots IU huithr, fapectally if they are sliced and a little salt. them. Roots are dietary In action, keeping the bewnla opeo, and take the phace of green food A niess of carrota ts highly rellshed by horses, and hotwes fol fid, ace cleaner and in beqter order than when fuod ulont. Mnrax that hare colts hy thair sides, e a much larger quantity of milk when allowe rontm, and the colts will be liws llable to constipation.
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דैHE ROULTRY GARD.

| The early third whthes the worm, and the early <br>  <br> "Wiukene, like men, get re lininy by seratehina: but make wed hatere it the grarden. <br> SOME FACTS ABOUT POULTRY DROPPINGS. <br> Bu P. II. Jurobev, Bieumer, Ilt. <br> There have laten many valuable hinte citen in this and ether fournals in facked to punltry <br>  <br>  <br>  <br>  <br>  <br>  depends upon the fiwn alal mut noman that <br>  nitrown and phosphatto than das mathry "onsed <br>  <br>  Fowble ferl on gratio do do not give a-riebs manmre <br>  |
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## GLIPPINGS.




## THE MARLBOFO FASPBERRY





















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 pructical men und counrn to icrite for it in theicabexperience in everyduydife. Especialittontion will atways be qien thetries, and pardening. M
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FUNNY бHings.
Foricty is what mokes life a pleasure. A vari-ty - readeng is the asant reading. This to out aim to $0^{3}$ the maler
"Won b y a bare scratch !" as the hen nbserved "Do take some more of the pegetatles. Mr. Joha Gough says that after he has delivered a sature he has to reat minseff to slepp. Bings tares him to sleet.

LOW COST HOUSES.
Wo postend to build? HOW to BUILD THEM


"Bally," sald a fellow to agirl who had red bair, "keep away from mer or yen'th tht mat on tire." too green to burn.
"At a college examination, a proforsor asked: ar," replied the student, "hot at all. It is yuit
A Parliar mother-in-lawnaid to her son-in-law, "Ao you were at the ball lant evening, and it in
not a moath since you lowt your wife, "That's not a month since youlont your wife." "That's
wroe " sngwered the culprit, "with a contrite air, "brae" " answered the culprit," with a contrite air, cadly."
A demotee of Paccbus wis overheard the nther that thus addreksing bis hat which had fallon
 (wor prody a wa
"Well, my daughter, your mother and I hace been consulting recent y abont the windows for our new house. What kInd would you like in the parior. "Wh, thank yoa, papa, for eveklag
my edvice. i whould prefer beau window, by all means.
The New York Tribune rays that a country clergyman who has heen visiting in that city clergymen, that it in differit to ten them apart He stould 'be able to tell "t' other "from "which" by their manaer of preying.
A remarkably wonk-minded dude sajs that When he haves thly world be wants lo die of

He thould be cheerful, if passible, at all times: What is uhat the FARM AND GARDEN tries to be on does a good aricultural paper like the FARM A
GABDEN. Hill you not agree to it, and take it.

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 Eod, all tha partare self-threading, lowe pulley to wind the iribbin withont ronning the machina, nickel-plated It to you on two works trialingmaly reacered whith frearh walagt panels. Oar raprecedeated offer to seud

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 ood rery low priesd." The FirNzserays, "A Ne\# York pabilishlog house has past ofered to the pablic su engraving obe pleanad with thelr parchase." Cugistian tinion eaye, "Every readar wantsil Fine wort of art, ond eold ai a OW Priceing to sell amililon coples of thit Prayer, and we make this Speclal Offer to the renders of thla paper.





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 Renewalm can be seat how uo mastirs whu the uhbriptinu

Notlee is alway sent of expir．unn ut nubsenpitiun．If not renewed









 linav，to buecernber，

CHID Hitas，A CO．Dublishera，

Tht resthes semse of wastorl inower，
Thatiresome round ut little thing． Are hatd to bear，us home hy hour
Whs tedions iteration orinss，


## HOW TO KEEP BOYS ON THE FARM

A poet is sald to le lorn，mot mande，and the same ram tur said of the farmar，whose lifi＊shonla combine all the tallents of the poet and jhileso bure．A life that ln its pursuit pives daily exprowien tos the beinutemas ohances that nature
 das，are nu less strikiner thath tho ehaneses that oreur in growth of flowers and fruite，wrought by nature with the farmores care and tail．Ne one pation mall for a wither information or a alas uf more intelligunt mon than that of thatiaral．In the wide feld of tha firm，science，literature，ame ut have a plate and all the branches of seland
 nation to purame the intelligent rallimer of it fartorer．The timue has wone by ：tho date tas passed，when the thonght that that lant ram bre i farluer，and that the intullignont must seek othor oceupations for their powers int talents；leavine behind them the broad ficud of atriculture．The true murit of the farmer＇s life is heimer reoognizud bis true position is nuw taken in the front ranks of swelety，and att the heitd of the most nohle in all whings．and not at tho foot as he was placed ： few renturies ago．The widespreat intelligener the inmate nobleness of the calling，the depth and bradth of his investigations give him a foremont bace in the seientific world and render his life a pleasure，not a hurdern．Yet，the duestion is asked so often，＂how shall we keep hur boys on the farm？＂that we mas fear from its frequency， that the farmer was in dinger of losing bis sons， and the ohd homesteid must patse intoid stranger hatolm ur full into decity ant ruin，of which evils， hu．fumer is as or reat as the latter
With proner ware there is no danger：the same firm that gave a birth－phace to the grandiather should give a place of birth to the grandson， whose zeal in his calling
a long inheritamed and family possession，not lie amnual change of ocupants．It is useleso lof fotter nature or coerce luer against her will，and whem nature plants into
the varly being of a blitid an imesistible gowire for al particular kind of lift，we aro puwerlest th provent those desires from growing in tha mimb of the rhild，whether the pormont lise king or


 in lifeshows jt－longinge for thu saw and batme
 （1）make that low a firmuer in to spmil ：t ermml cat







 Tu keep hows at hombe，mak＇lommelifu phas ont，and athom tha bumbe with avery cometort that







 homar，whose bhatle eath retar will srons sume
 ＂inmat kien our boys on tha farm whore waing
 jogs is crushed with cruel strite alad bitter sum robndings．
The farm oreupied hy the writel haw foen in but two fimilies，in carh ease descending irom
 colyars．All fimms shmuld arow old as the tam
 elltivation．How shall we dr this？
Make ond homes more attractive，war farming more profitable，our tibles at home filled with quad reading matter on farm and household atatr－ （rets，ind keep all rhbal，tranhy story papers
fiftimar can ratilate．Make the fownorgarden bututiful，femr gatelen at treasure，and vour farm a puradise．Yumi bhildren will ris．up and call ron blessed，and will eluster，like al fine to an artur，onthe dear ohd hombe，and when age and infirmity art yurs，you will lw surrounded by
 lug．Whas liku yon，will rejoiter to till motber ＊uth mutil called by a higher fuwer to rest in His lı心のカノ

## OUR IILUSTRATION

WV．orfe at＂ut of a prembun Holstein buth， di
 priza at tha N゙・W lark Statt．Fair in 1881，and
 won the gellemerlal in lake：and won tirst yrize an





 and shakr when watntat the it，large weights of

 firmore amd darymon．Tha milk of the Hol－
 rry valuabla for rheestmaking．The yield of bilk fomn the host wow hats reanhed the large
 mailk per dis．＇The yieled of huttor has rearhal Werr © permads prer wook．TVe helieve it will armely bat farmers to colnh tosether and get
 ＊attle．The impromment will bu mo rreat that the mones wient will for whe wf the best－paying meostmunts that firmer an find for their rap （al．They should embrate every obpertumity to imphove thoir slack．The lien staxk allway pays ＂st．
 duction of a hincla hlowiterl animal will improve the valur of the stock of cattle in a few years，if proberly brat apon commom stork．The editor


## 

 where a valuathe blowd



THE FARM AND GARDEN

since，five years agr，I autd travel mant miles now I go over ine samer rad，and the slath is quite different；on nearly every farm is a wind quite impossible for him to der without it，innd so ing with the engiue．Famners are just disonver of labor，and that they bay for themselves in a
short time．They cut fetd，pump，run fanning short time．They cut fetd，pump，run fanning
mills and grindstones，put in hay，and can be mills and grindstones，put in hay，and can be
made to dos many other things．All who ust made
them，
Without it．＂
portant fact．
 gines require watehing，there js the water－gatog
the stean－gause the pmon the oilerups，
 engine and lwiler are jeft alone，to tako dare wi
themselves，sumethiny in going to hapuen，and it is best toltave them entirely by themselves when this does happen．
We have used．
I hellievt wo would as much think isf rivim，and our horses ins our engine．
the limm the engine will borome as pomplat on I want all to thlak of this，and ket if an ene could be profitably of thi

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Ghers had larger blowe of flante dir salde thanhrie．Sill，if I had al mew fruit to orliar， 1 think

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If theretheir attention
interest to them
ofred hy a prominent muracryman in 1wil，withtbe list he offere this Fuar．I tind that in ksi his
to the list this Twar，hat wifthe fifty－
him in tha
 ..... found in the list first montionnel．Of these thirty
two，fifteen are still fombl in the catalogues of
total of twenty eisht varletios ther
three years ago which are nut off＂rod naw．Morn
and it usually cents nursergnonn mometorecpup
of their rewipts from all salok of thabr varieties ..... Were sent ont only a fow yous iun with womder
Many of them prowd uttrely worthese f proved
twenty thongh
will be knuwn ten ytars he
though the
offeren to thae publie th the last threws sears．An
so nearly alike that it puzzles an wxpret to detect
genemal cultivathon，and will mever be successfuhass by these statimanits，for there is sting wodof rown for improvement．We have，as yet，nistrawberry of geserd gumati／／that is so universallsuceessiul and protitabl＂as the Wilson．I thinkforverar，that mans exprimuntors are strivingfirst－clase tibleberey They are amming to getberry in the somery，and asolid，tough，shippingthis will exer be dupe ${ }^{\text {ser }}$ strawteryere hatfirm and solid as the Wrinson or filendale，andsall be very man swoeter and hetter favoredquantity of bue compariatively dry．A sulficienttable use，rendurs it tum shtit for shijping．
There is，however，a whe field open to experi－menters，whire theres are，at propentat work，and where the reward of sucess is surof murrant onfered for sale for mume new varicty Was of Americin orioln，and that ondors that proved a bonanza orion，and hat undoubtedly still great room for improvement in There is Reat we ueod is a Red Dateh，supario．to ir an productive as the White Duteh in fiavor，and as large as，the Gooseberries have been improved in England untll their size has become enormous，their quality exeellent，and thelr productions wouder ful．Every one there who grows frultat all has gooseberries．In this country they are very bcarce，and we have no varleties that will com－

selud for your boss deryfr．L．M．Finerakity
$\qquad$

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 I want io pavetbe tull valme of it at I thamk it one of

 J．W，Mis

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10400 whurwiberw fom cach state will make
 and rend 男品，clnt of 18．Let it be here by

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 Tif strak，to to feet high，heads by to $2 t$ inctios long i they ceed everywhere in the $U$ ，$S$ Our bupply to 75 stalks；suc隹uine Pricearters neod，sind guteranteed siriclly pure rend $\$ 1.50 ; 10$ bushels，$\$ 13 ; 25$ bushals，and over，$\$ 1.20$ per bushel bags included．American Trinmph（iatio a handsome new variety from V $\boldsymbol{l}$ Washington，hich we offer $\$ 1,000$ in diNiI PRIZEX forbest
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## FRUIT NOTES

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##  method. F'ree Catalogue describes all <br> TREES! SHRUBS! VINES! SMALL FRUITS, \&c., \&c.,



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 warranied pure stock and Ho. I Planis Minn Price-Lles

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OSCAR CLOSE, WHRCESTER, MAR

of thiv rose, Its color is a beautiful glowing crinumn, prubably a swade lighter than our fivurite fed. Jacquiminot, although mang sperimens bave shown themselves rully as dark as this rose. In fragrable it disputes the prombent plase so bong held liy Lat France; hat tha quality sueaks for itself. I bave nusur seen a plant so quick to resmond to judichous proming, nor intered, have I seen one better "ntitleal to the term "ever-blooming," than this. Topluote from an English pajur, "The William Frameis bonnett is the mos persistent of winter blomers. As with Wi-llington's soldiera at
 "tribkly take it- Hatere" I have steen no traderme whatevery to mbletr. In two

 that of reste of the Hybrid Remontant

10 Eur"In', this rose has taken pre minbus and firat chase reytifuaten wherever



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 tink. or winn, hat only the finwers firy a mark in covent farturn and nether markelt. nlany themsamis of it hewnu hads
 Whar thentro wir readers to know that It whil invorst wry readers to know that

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## aw Pometris

ther Introduction or: he doulle Pein-
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OUR FLOWER GARDEN

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Ridoe and Lehloh Avenues Philadelohia, Pa.
overtooked until towards the end of August they why then brought ap, it few stragglang rat
renoved, and placed in the greenhbuat, when they at once began to grow, and without any stinnalants whatever they flowered in Nopember and arestill in bloom.
The foct that the loyal Potanical son-juty of Fingland has considred the subjeet of suitalol bowes for transmitting Howers by post ol wht cont importance for the deliferation of a blumal committre, is an indidation that somus means a standlng complatant amolio thase who wisul and receive flowers throush the mails. That a sulta ble velifle for tramomitting forwers and fruit by post hats been at desmeratum is an watablished are, athe romgh usage far whith fragile boxe
 sion that a tin lux is lest ; hav have awarded prize to afirm who manufarture tin busen for the purpose, measuring $15 \times 9 \times 6$ forlotes, and swid hem at the rate of \& 1.87 por dozen. The husm are satid to be provided with mantio straps for keeping in proition damp moss, in which the etalks of the flowers are inserted. By thisplan, howtrs mas be kent as fresh as enthered for a couple of days or longer. Althonsh these howes are madfe to bold afont two pommson eut flowers wre think ther ealld be made for lese nuows in this eorantry.

Please wrid um a rlub of $1 \boldsymbol{2}$ whbmeribers, and for it receive the Farm nad datden ireefor 3

Though at this stianon of the gear there is little or no work of a presinge character to be dones, it shonld be rememberond that it husy timat is eam thg; prospectively, theretor, "very "paratinn Way of ralbeving the fuensure at dut ide insprime
 be done Wheneves the weathor is own, and can the planting of shrubs and trees. in all lout the most masuitable of sulls, and when such work
 perned, there is in the therwor gerdera, the rumbline of bences and walks, the digrting of grater, mant arts, milk. Aot tor whention the ebetrine tht at


 fing bat, as it were, all such jols, and doing them at this emmparatively leimare furiond of the year tall W" hatm to ki"p pare with the work at tha rolling athd swerping both turi allul walke,
 but ont the dat performanse of which, it mete laadly lie added, depmols so muxh the rent ent joymbent of at gation, Gat, as soon as possible, somte manmare prepared, robly fo be apthen to the dower beds and bordorin, as somse as minior flowering plants and bulls are lemoved. There Whill be penty to do in preparing stambs, boxe

 When dry, whare they can he kept froe rom dust. Liabels may las mader and phinted if reruired in Jowse nombers, othorwise, they may as well lo boumht, as they erst but about thirty vents $\mathrm{p}^{\text {mol }}$ hemalred. Stidks maty also be preprared aivarimas thicknesses; paint theme greem, and them doy them, and tie them np in bumdles ready for und
If von imbad to hate sombe climbers, yon rime If sou imatad th hatye nombe elimbet
readily maknsomb wirn tollime tor them



 Wree thrmght thess holes in smake timm. Absther good way is to take three or lome flower stake the sumes hefght, and bore holes through them
 tronn tha melat end plece of wir, torty inches loms, and pass it through exath nipur hole of the form stakes and arrange thenllitil"irele, fisteming the ends of the Wire together by at twlot. Thw wira to be Insertid in the second serits of homis, should be about thirty-four or thirty-six inches lome, and for tha. third and fourth, still less, so that. the circles or honps al' wire will be smaller helow than above. This will make a good, substantial, portable trellis for Clematis, Honeysuckle and cypress vines, and other elimbers. This sambe arrangement, made of stouter wire and of larger diameter, makes a capital support for Pimomies, Dahlas, ete., if set right over the plants aud the branches liastenod to it.
By the way, all fastening of plants to stakes etc., should be done with thin galvanized or conp-


THREE GEMS FROM MEXICO.
Minlly in pairs but komplimes only singly






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 tew sir a munury of yart, and arr, all Mexicans.
 wix grown hy the themaxand. The platht is hull

 man vien of phat. The Howers hank pelldiat. ikn so many starlet tells, wach of which is in inum
 mens arw of a purple blue. The ambinatim is at onde striking and "ffective heyond hesseriphtim.
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THIS WORLD HAS EVER SEEN VERYPROLIFGEXCELLENT QUALIIV

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## THE FARM AND GARDEN



## LEAKS IN THE STABLE










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## QUALITY DEPENDS UPON THE FEED

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## THE HORSE IN WINTER

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lint wn colla,

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lie: rich and cencentrathel the lonso whl -hivel








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 therefore he anal sparingly at tirst, bestinning with om, will a day the firwt wotk, and gratually


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## STOCK NOTES

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 cymial effort t" imineme ure doine mobly for us Comitum' the twent moik yen wre voing, and send

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## JERSEY

FRITITVADE FARM. ${ }^{8}$ Plymoult Rock Fowt 8 E
REDS.
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 horsemen, works on the Horse, horse pictures, road track, and racing peternary medicines and horse proods of every de-scrijtion. Price list of 600 articles needed scrijtion. Price list of 600 articles needed
by horpmen maled free.
J. II.TUTTLE, 28 Nomanst.,N.E

THE FARM AND GARDEN

ढ̈be Poulmpy gard


## OPEN SHEDS FOR POULTRY



## HEATING A POULTRY HOUSE

A cheni method winating a poultry house is answer, -and plate an iron rofil inside of it. om opening outside. whiln tha npper end of the coid品 (is
 werme he:nted inside the estil and emerge from thas pipe at towhed to the upper end of the coil. If pipe leuding through the poultry house may be
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## LEGHORNS AS WINTER LAYERS

## It is mbmitted by all that the Lexhems

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The expurimunts will be methur ermaluctidLemharn is the ereatost ubstiale to winter layine
FANCY POULTRY AND PET STOCK KOR
T. WALTER \& SONS,


## YEs,


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18ATES' $\frac{1}{\text { mppored }}$ the best. 6 cizes, 818
Whe 100 to 1000 egms. War ranted. All Them. Send for refcriptive circulars and testimonjal.
W. O. DAKIN, Toledo, 0 . $\begin{gathered}\text { Impror the } \\ \text { Nid }\end{gathered}$


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PERFECT HATCHER CO.
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C. W. savidge, 3524 Muntindion Si., phladta, Pa.


POULTRY SCRATCHINGS
lhilindel-


#### Abstract

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 the injertion, inns give a pill made of thron imops




## PLYMOUTH ROCKS.




The ponltry"ads" in this woper durios three
 people whom son induce tatake the paper, and
LANGSHANS Din bel in antat mio finest struing of this comptry
 INCUBATORS

AND POULTRY SUPPLIES
Mills for grinding Bones and Oyster Shells, Imperial Ege Fuod for Fowls, Drinking Fonntains, Feeding
rays, Wire Netting, Eges for Hatching, \&

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the hive of wisoom.
SEEDS GIVEN AWAY
Hybrid CLEMATIS.
JOSEPHKIFT, West Chester, Pa
SUNSET.RFfHRPRRose CrowersAND FLORISTS,
Hill
unlike any I had seen at bome. The broom was bearly as long as the hander, and was on the Clumsiest construction. It was really a lathor to
wheld one. The Uroom of the Enited stiates compared with these, shows a long sprico of intillectual development on the idea if a bromm existing in the normad state, as yet in the Frensh brain. Gur coarast brooms made for parement
ame are vers daints fratile thines, aptarentiv wo are wrs datints, fratile things, apharentiy, tut the bromin we used for earpet sweeping In Nice, and now other kind cosolat be had.
(wndresing with amaker of brooms, since
 chassest is made into what are eatled tavern

 That there i inther mited -taters, yet there many Mates that mans be bisebyswat, where a broom mald he weol fortrythe tefter of tirush, and it
 bhifl it wothd anower manth bettry than the anduatrobls. ur slint brushes used in Pbilat
-maill bromal or whisk is mitele In France porphses, is more eenvenient

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J.J. Reely,

## $\mathbf{S}_{\text {PLANTS }}^{\text {EERS }} \mathbf{S}$




thtions dir

## THE DINGEE \& CONARD CO'S ROSES <br> our ierfascipecialtvisgrowing and distributıng

 5 columlid Warietion, woum hum allabeled forOTHER VARIETES $2,3, \& 10$ FOR $\$ 1$


Addresy, TIJE, DJN(iEE N CONARD CO.,


Odds and Gnds.
 per for 3ti month.s b" rery met who will semtl les of

## A Helpful bor

A twelve-year old losy, of Famminutom, Maine, for five wetss, taking rare of thrmelitthe chilifurn all mere thabios. He made hatter, piss, bixeuit and "onked meals tior a party w threshers it



#### Abstract

\section*{GAPID MANUFACTURE}

Many voras agn the hate Sir John Throwkmom hat belonged to at shere in the murnine The animat, or rathow animats, wne hack and omi  finllots, shesardi, what dressed, and then hy the the dinnom with sir John an tharir chaimbith, womring the froduct of the andive daty.


## THE MISSING " G.

The rhald that buging the talk toy melng surh
 parsin, ant is wouphind in the high sthemel (and ond himasolf alatue to a habit of sumede val whe will sulbjoct him to : s.oncition on inforiority
 plate onta, be borguts it in the next, atal? ithe






Josh Billings xaly has will Hever purillawa


When Bundanin Franklin was tima Postmastor-


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## Mr, Pued <br>  he replitat llanion <br> ever did wats when mov fathal

 music athaYontstate has mat itw whate of *ubarriburato
 Notice onf afler wh phed 1 .

A latly wi Now lork, with more luisure amd
 her poodle's heatth. If is ixtionturars mal. and hak a bad comgh. Nike is rus andious that hu" shall live until ho is twonty-five. He is as tusly
 is what hat six- fo nther working hays: "Ther". is not an indiviluan in the comintry who bayan




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What phant Wr in this apples treato
Frujts that shatl modelen in smmay
Thu drop) Whan gernthe aire vomme
Wrate childrem ermat with orits on



A Panbsylvania timan' mase mberved at burge


 youngrerfas. Thashem monther was also surprixad



 "Hrourse he

## "Wall then Jil

The fultowing rather rurious piece of composi tion was rexthtly plated upon that blackboard a a twahers instituth, and a prize of at Wehster's
hintionary offered to any percon who ethald ratid
 benk was not carried ofr, however, als twolbo wat

## made

sarribrginus som of Bolial, whos sutherent rom lirmehitis, haviner "xhausted his fuamen





 Wefter of the mast unexorpiomal caligraply
ant, invitine the young laty to a matinnt. Sh


 mow forge fetter hameneal wita the gaten, went

 athomen. The dehris was remored by the corro-

Mistakns were made in the fonlowing words,有h ato the pronumiciation an

 Bronmitis (Rronhativ): Exhanstal Przhomwoth






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A gentleman unce chaserved a horse in New hork, stamding just behind a cart loadel\} with ranches of hilac yrays phat down his heat again alld again, as if smolling them. He did not attrinnt to tilt them, hat spemed to enjoy their ragrame. l'morhan it brought up the memory of hrighter days.

Teve Pexevolexce.- A gentleman gave a large sum to a windior for s.m. lownevolent -ntorprime, and whon the gratifiod tgent thanked him wambly, he remarkel, "perbafis you would like tuhay it publinhell in the prance." .. To ha mure I would," he rephiml. "What da you
"play are not all that way. Henry F. burant, Who fomman Wellesly Conlege, wall nut allow "tathet with his name on it, of a pieture of himadf, paren an the wall. He would not even bave me of the college buldings named atter him

As Oph Wityess- Dushave sometimes bum ant ima cenurt fo "rosify, whicls ther did
 ar hllosedt. Bill a hall is a rather hat his heighlur had smban his hean hy the bird eractit. She was brsmght into the court rom to the the small ammenarnt of thase pewent, which Was not diminished when her womer said: "Ambe, sing fur corn" Wherelom, Amie (10) a sollg, as well as she knew hoss, and ata soon handed user for hor owner, amidet james Mingenter. The kind harted judge thomght whe might perhaps have "strayed over" the thet
premines of the other man, sis lae was acquitted.

## He tornesty, hop that yow will think enough of 



NEW DESIGNS, NEW SCROLL SAWS,

HEW PREMIUM OFFERS.




EXCELSIOR GRASS SEED SOXVFR-Sows ald


## (1) 1  



## THE FARM AND GARDEN.

## VOI. IV., INO. VI.

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## GDIMORIAL GOMMENT















 ary have ant lu".



 $p^{\prime \prime}$ int it.




 buat, whike the work in bowornwding.


 ent inditha huraryman.
He matkes uph his mind to land abetter gionden than ever before [The readere of The Fatut
 wive 10 wet ahone without vegetables, untothey taise then themathey



He makes and sames all the mathor he can.
 hatrowses, de., ath repairs and mond whet noweded.
the titke goond are of his stok, abll som to it,
 curriod will and in poopromdition, the tormer
 flow of milk.
 There is chate now, bater he would have to tabe
what is ledt. what is hett.
$H_{0} \cdot$ has re:
He has retdy (ow will hate somb, a fall wat
 sheltor.
 the combine varam.

Also, to lighten him wites burden hy helpinge her in the homer, partioularly wheng and washing days.
The Form .fournol this momth says of the farmer: Theytry to make guin to mecting atone fur s.lling fifty-nine punds of wheat on a saturdas, for : bushel; or stuffing the centre of the
harrel with whmy athla, in the midule of tha weels." The Farmandialties doen not believe anything of the kind of the tarmer. We beljeve mocloss of men are more homest that the farmers, or will give more homest weight: ame we also beliove that thes are not the hyperitos to make


 it, amberan prose it, tem, that the hamer dow bat patk worms apples in the midula or the lateral: fint the aterot what bas the apho from the farmor thal patk therm higulf mually den it.
 masy lac cathon, but thes are homont. Tlat in
 matione it. 10me.





 What. ©

















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 and repair wew, while lather is phonty.







Thare are :bonit rebht millions of papple an-





 Pulitical wo.ekly.






 ratimes.
 a littiemissionary wark atomg theirnetighturn?
 rhl man subsoribe. Wi" will show him how th raine larger crops, do letter in futare, and tive mate comfortally hereafter.

It in our ahm to be uspful to you, but do not furs that we can give som a hettor paper with Iat, , й - ubacribere than with half that numbur.

 that wordashex on lime mixed with holl manurn
 HaNlor or muck i largaly added also.
That somethtur is ipt to turn up, umbers yon turn il up sommelf.
That the value of a farm depends entirely on the nomber of aceres.
That oreharel treve ned no manuringe.
That it is more protitable to buy and plant old
That a struw young, sman, but hrifty nes. for plants, is always better than one costing 50 cents per hundred.
 arntiat to sucess, or in the least better than platin movahle eomblater.
 tion, or at last hat little
That bans will hat cegs in cohl weather, whan the reot lakk :and wind and show bow through the erach on the buibting.
 left towhit fon themandyen
That you sate monay werting your hens late

That it in ripht to fimbidy your children phaying Cherker ir wher harmheng games, trmsionelly,


## til work and no phas


 of M:rwh.





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Rat the law has dome what our omming hesima-
 of the hatter preducer, hati is all. Thenommargarine bun :re nut hurt. At tha format thate,



The the othar hamb, and in ramsideration of the




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 -1bibllor. Shar intrlligent rembers khow it, and they linmw, tom. that ". A"s in they urnt.






 Arsamizations arr well am:ar- that tha fatare of


 ant hase sight aithat truth..

An fromit that plant- it woll pitekull it: moses,
 laring unf warm and dry shmmers, fritond Wm.


 L.thl:alsas, which reathed thoir aleatination on lho sid af the Gan, month, ware planted thare


 trawhoatl! fulns), and likewise for Incle Sam's mathing facilitien

Ton do atway with the dicatsantages of both the

 1). Lamideth athas have this year almonatere a
 oft at, are allowed to burs, at the clome of somant all patpers of semi but mold, :HAl Landrothe will furni-h than tha nathe momber of daterd learkits
 o thonsh this is : $\boldsymbol{f}$ mal sebeme for the buyer the metrelant and therernmang.

You want a dozen or two of farly pulhtes, so an to hatw them eonmmenco laring next fell. This armitu is the time to set obe armore hens. Early pollot- will pay you well for all the troulte of ralsing thent.

## Guippings.


 nowher p(x)er ran fitl

## 

## WINTER TREATMENT OF MILCH COWS

The aim in the treatment of mateln mas in watar should be to continut the emblands of simmer a gearly as pussible. This requites ambitable quarter not only against the inmpmence of the weather, bat u all else that relates to the well-hwhe of the dow-- the at warm stables, but not tow Warm: Ventalation to antras temperature and atmit freah air, hut hat diredtyon the animals; floor well littored with tine vegrtahto mathe rial, to absurt flonds and culors. aliled by fianter, that

 casional outdoor airiner and exemise, wathout rashe ex posure to cold and wet, getting as much smilysht as possible, and avoiding great changes of temperature kind treatment, making the cow ferl at home.
Give food te meret her requiremants. If in calf, lot the nitrogenoms flemont be well represiltad and let that



 phayed with slight feedy bets eth tha two principat thens, the night serving fur the rpst. Brogin the wintul
 weather, ant to rethize a hatre fill ind early wintev h

Juat bere is a gon place to mall the expromont ait
 histen stwers. Immors the two dats whine Inemember
 Whan well protertwal from the wetherr. buring the next teu days they were kept in an olen shed with ath attared yard, and guined fist poonds. The same quantity atod kiod of fred was romblomed in each perind. During the first tell days the wethatr wat moth athit sunny, the next t+al days it wan extrmuny cold.




 will rementer y yat

## CONDITION POWDER.

In answer to an ingmey for a comation powder cost ing atont five cants a pound, the st. Lous Drugrist plies an follows:-
 Q firout of that kind

The finluwing formala is of a powder that we have sold for suspral yetas. It always gave sationetion, am ean withe at ahont the proe mentionen, if manalim tored in large quantition

Powdered fenurreck.
Powdered pot. bitartrat..
Powdred black antimanis.
powdrred batck ther
I'eswlered pot nitrate
Pownered gentian
10sidered ginger.
powdered rasilı,

rix auld ram throurd a true will que tablecpoonful twice a day. Kecp in a tioht cat or thox.

## From "rmaction Hortirmiturist." St. Chtherines, ont

## HARDY ROSES.

The following list of the best hardy rosed as continnons bloomers, for out-door culture, and of the hest hardy roses adapted to general cultivation, is recommended hy the committee anmointel by the Massacbusetts Forticulturad society to prepare the same.
 Betuditela, Carolige due -absal, Fisher llolmes, Francois


 esw of Gxtorir *Dr. sewell, *Margmerite de st. Amante. * preadent Theirs.

Thr last five (marked wilh stars) are line, constant blommats, but liable to millew.
fowhy Roses for generat cuthation-Altred Calomb,
 Rarohess Rolhschidt, Charles Lefevt. lukt of Edinnurgh, Ftienne Level, Fisher Ifolmes, Francoris Mirhehom, Gph. Jacqueminot, John Hopper. Jules Margottin, La Rusiere, Marit Bamman, Marquise de Castillaut, Manrice Rernardin, Mme. Gahriel Luizet, Mate. HiphsGte Jamain, Mme. Vietor Verlier, Mons E. Y. Tea 1’and Neyron. Rev. J. P M. Camm, Thomas Mills, *Lous Van lloutie, *Mlle. Marie Rady, *Pierre Nutting.
The last three (marked with' stars) are diffirolt and uncertain, but so remarkably fine that the committee conld mot refrain from mentioniug them.

John B. Moore، Chairmut of Committe.

## 

Judge larry planted shmu Baytlett pear trees unda taller stamaral kieflers, so that the pollan from the lat er meght arat wh the pmolls of the fartatin The Jatge two thin rather bucertain mothem af raisim hytrat steat, Bat this year he was startal tor ohsem hat whte if the Baytitt prars in syan and shape the ime of ripung were Fientio, white in thear, analay amb colur they wore Bartletts Now want it stame






 It shawe a pluthre of the shaper farly manheres
 grew thwarl the branhes of a fuar tree. 'Tlap anple
 hat at "trithe if the Fame tet Hawn." Som that the




## ROUGH HANDLING OF CHILDREN


 barents or carelion manex has marly to do with the

 year-old dirl : shen is walking twice as fint an whe wound





 bathe, its whele wemght indenaling from one mpor stremity, and with at wind which twiste the rhild



13+7p
 port to its back. Thix womh be a hard whakh poxition
 ing rapiofy, and the little one hac tor sather the enthe


 hayward nurse. sumatimon duriay a when adrano yon will see a part of the babe al fint in admanee on in
 rral and sulden action of the buscolion the trink an brek.
 hambled.
 At the

## NEW AND STALE


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 shon as that tomber peredves that any mornd in ont be safely swallurd Xil time lum tion is slent ill


 1rofessor declares that nome of the se are atothally imbiLestible in thematyes. In with n+w betwh, it is the ease with which they ure swallowed Whuch makt them indigestilate
Stale bread amb hat bastat, on the bther hathe, are not of themselvas mherently so very digestuln ; but they sive the eater somurh troble to sutten them, that they
 fir combition for that proeress. Deme the stomath has wot that remble with them whirh it ahmes invariably bas with the softer and mure belieate fomb which hat nover recsived more than two or three turns with the terth. Raphd eating and insufficient chewing are the two worst fows of the majority of dyspeptics and hypochomlriacs, says our anthority, and he advises sweh per soms to transfer $t^{\sim}$ their usn carelnsmuss tum inleness line-tenths of the hame whild they are in the habit of laying upou their food or upon their cook


 long: every year aiter that hat phothen frack the tips



















 are pror-rifu what harceath have atready "ntered








 .17



## STRAWEERRIES IN SOUTHERN ILLINOIS.
















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## THE DOLL INDUSTRY OF GERMANY








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## CATALOGUES RECEIVEO

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Vol. IV.
MARCH, 1885
No. VII.


CHI1.D BROS. d CO., Publimhere

## FARMER'S HOME GARDEN



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THE BIGGEST THING OUT MUSTRATE пHOK



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By the way, we have a tholist and grower in our

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The foul for young rhicks shouha alwass but cookert，her if this is dene thare will he los biahil
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## A DISPLAY OF MARKET POULTRY．

Whathet the pualtry shows are civer，and the
 market poultry with that uf the fancy breds：
Farmers，as a chas，take hut litthe interest in
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## LET IN THE SUNSHINE

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heart that it will take. Horart-power is the reat poswern this world. It will give a suring to ath the act ivititex, hath of loolly :and minal.
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\begin{abstract}
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 that milk. Thare was very littu" "heking up'r

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## GDITORIAL GOMMMENM.




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Thix scramble after sucase and procherity is like hathene produre to marked ow lose to the


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Gur reallersmay ber cure that the ammant of hata work is of hese inaprothe thath duing the rizht thing :the ritht fime, and that a little intempgence (hatins) often outweighs a heap of hatily l:11\%r.
Wra do mot belleve that the farmer should selfort the roughost road, and kill himselt with hard work: and it we abtys our aim to show himt e:sisel hishaws or short rat-tosucess.
If hog rholicil. as now generally ronceded, is thansform hy hastoria, mether cire in feding nor cleantimes ean prevent, its spread. Bacteri-
cldes, such as carbolic acid ar chlorite or lime

 mont likely vern to be ath eftotiver ramely.
We dislike to admit that the primitive meqhems


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Luok is very gomd, hut platk is better. The firmor cannol always be depmoded upm; the bat pr helpe us ont of ivery difficulty watbout fail

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momends a peor thiny wew or old. That's the way we do ant our retiders like it.

## Gólppings.





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## ELACK WALNUT CULTURE


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## DR. JOHN VOELCKER ON ENSILAGE.



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## MANURES.

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## MISTAKES IN TREE PLANTING.





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 , if thes liad this nerglect mone than others-puthes the home eherge trew the lrast ; bat with all, this naterat

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Werentll eite bumprome instathes proving the truth


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GURPESPONDENGE.
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BURPEESSEEDS ARE MARRATEO EAE MARRRMTED FARM ANNUAL FOR 1885 W. ATLEE BURPEE \& CO., PHILADELPHIA, PA,

WANTED
J. F. Le Clare, Brighton, N. Y.
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 inverions things yon erer saiw, and only cost1 20 cenie

## Strawberry Plants For Sale

## Gnch na Jnmbo, Atlantic. Prince Pririex, Give 

 James Lippincott, Jr., Mt. Hoilt, N. J.
## $500^{\text {cainizs }}$


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Ronere 10 for Blis timan, reot tilall a prate of the Thed and Called tablished 33 years 15 large Greenhonzes


This Ring FREE!

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 quotations, 12 page Ilustrated Premium and for 15 cts . SNOW \& CO., Meriden
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 NEW RED RASPBERRY HEW EVER-BLOOMING DOUBLE NEW SILVER-EDGE GERANIUM NEW YELLOW COLEUS NEW EVER-BLDOMING CARNATION

## THEDINGEE \& CONARD CO'S

## ROSES <br> Ourgirentsipecialty akronving and dintributme

 9-plendar Yarmo OTHER VARIETIES $2,3, \& 10$ FOR $\$ 1$


THE DOLLAR SEED SOWER. Not Cloq. is Easily Adiusted, Durabre Sows in ${ }^{2}$ Orills. graname, whal franim, lum bids. Warranted 10 give satislac.



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## . <br> CARDEN? SEEDS

 And will want the Best at the lenst money. Then my new seel Catalogue will beendealing it $\quad$ ithFree to all, ought to
have it before buying anywhere.
MM. H. MAULE,

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SHORTHAND

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THE NEW RED TEA ROSE, WILLIAM FRANCIS BENNETT

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WHITE ROSE PERFUMED CHRDMD CAROS
90


SALEARD VIOLIN OUTFIT. THE BIGGEST B ARGAIN


Larige siedds of potatoe's om sulteen acres.

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$n$, and


## 60 <br> FUN ${ }^{\text {BRO }}$, JNathan's Jokes. EXCELSIOR PUBLISHING HOUSSE, 29 and 31 Beekman St.,N.Y.

## C.ARBGANC-ENGRAVER. WO FRSEEDSIMED. FLORISTS\&DURSERYMEN 10000 E <br> 




 READER Thin

 BLACKBERRY

Gonnlel A SPLENDID THING TWNOL Fhony

 NIAAARA WHITEGRAPE. MARLBORD Rasbbertv

FREE TO ANY LADY


## －The Farm and Garden． 7

Vol．IV

APRIL， 1885
No．VIII．

## INSTRUCTIONS TO CORRESPONDENTS．

Subscriptlone may begin with any number，but we firfict in dare
 expres，and the tore will be added to that to which the suberiber salr＂ady entided．


 Keeefote－We sen！a rervipt fur all miney amt us．If you do Addresacn－wis mother how often yoil haw writern to us，phease





 Hane to pecembty

No． $\mathfrak{z} \boldsymbol{z}$ Fllbert＊irect，Pblludelphia，Penna．

## OUR NEW READERS

This number will reath many who，perhaps， Gay not bave nitt The FARM AND（idilleN ls fore．To them we womld sily Tife FABM ANil GARDEs，as jts mame indidates，is a papor for the farm and garden．We have now almost complet ed four years of suceessful jowmalism atol plareet THE FARM ANHGARDEN in the front rank of the enterprising farmers papers．our papar is a eprightly monthly of twenty pagas，and gives practieal shggestions upon every sulijuct of inter est to the farmer and gapdener．Our inumiry columan is full anm prantical and we dosire to serve our readers in every brameh of the fimmer＇s oceupation and make his home pleasamt．We are asken how we can give sogmol a fapur an we dafor the mand simm that cour clatimes indieate． Gar answer in，we work hard lika the firmarr， early aod late，and，like the humest farmer，give full measure for the money we receive．Hard－ working farmers ：md all others who take an in－ ferest in this work，will vou not semel ws aldunf your friends as subecribers and laclp us in this way？

Remember a good kitchen－marden should be on every farm．Flant vomr gation in lang raws． Tend with a horse．save much lomeng，and have a good garden．The horse will work a gar－ den cheaper than you can．

A certain Scotrloman says that Amerieans boast of heing athean of every body in everythins． of having the finest soil，the finest elimate and the best ehances altorether，ando still wor afraid of evergborly．If the last observation be true，we ean see therein only the effect of the teachings of politieal demagogues，with their fanatical demands for a tarift＂＂as near as possi－ ble to the prohibition point．＂We can and do eompete with the world．We need not hide our－ selves behind Chinese walls．We want tor trade （buy and selt）with every nation on the globe．

We advise two new features in grafting，in our articles on that suhject，biz．：shaping the gratit at the but and ratting it with the white wrom above the stock．These two features we find，by the experience of thirty sears in all forms of grafting，to be valuable and new．We never saw them reommended before，and have tricel them for a long time，and would not grast any other Way．We have tried mazs experiments in graft－ lng，but these we claim to be original．The first feature of the bud form of grait will seldom fail to take，and the second will alwas make a wound heal over the somost．We have often had，in top－grafting，the graft to make a growth of six feet，be well－branched，and one and one－ half inehes in diameter．

We take manual pains to sow that onr adver－ tisers are retiathe men in thejor lime of lusiness． We belare that atl adrartion who doms what he agreses to do，shonlal le batronizal，and we give space chaly those whom we belbere to be hon－ orable．
We refose many adrartismenti fom partins whom we are mot whe are reliable．We believe the Jlan at just mome．

Wrought，severe wintur，and the Hessian fyy rem to have taken tha matter in hamat tostiflion the what market in the near future Vet it is bers unlikely that what will evore reath atan its formbr hiolt priare．Wre romsider it much



 wretty Well．
It may he asked how we can aftime to publish a monthly fajur sut timely illuntratud．wat．amed trimmed，ratly liar inatant ferumill．W＂＊mover
 reador mast dus what the pablialaer mambl－aut
 Gn，for a half finished pater．W゚゙ waht tharater

 tend he whall have to buy a hathr knilu，hombles and thread，athl hind and ant bic pirime luanm he
 ready fur market，we suy let the puldisher duthe same．

Popular errors：－－That any mivortiadr will dive Fou smothine lis mothinas，metery for the tur of glving：
That swimdling adrertisers dil very casy from

That sull tall ant the Work of two mirll ant of one man，who is provilual with me of the muth advertised mondern sawing machloes；
That farmots should he hashfal and over－more
 the great dimman juet．Lhant take a hack seat， geatlemma：von are just as good as ductors，law－ Fers，or pulitiolans
That it is a waste to feed what，youd niee wheat，to laying hens or growing ehblems．

Nut many atrioultural periondicats dare to take

 mends moxhriation，＂for Dracosiam laws cambot he enforeod in these modern days any more than in the diys of old．＂Gur readurs know that the
 fend the farmers interests to the last freath，as far as consistont with justice and farness．But farloss is hever a compariaon with fanatiociom， which is the matural ontegrowth ob ismorance or hyporsacy．We need not how into the＂prohili－ tion horn，to comvince our reaters of the sineer－ ity with which wreshe with the f：omer in every issue，nor simulate a fanatirdsul，ref whimh to be guilty，we are neither unfarmorigncomat enonef． What good shall we expect of all laws which must romain a dead letter We will not ques－ tion the matural or emotitutional right of ans person，to manufacture a wholesombin butter whlo－ stitute，out of wholesomematerials，like clean beed tallow，or to sell，hus or cat such an article under its proper desirnation．
When the Raral＂heartily eommends every iudicious retart turestrict the salo of all thetrari－ ons imitations of dairs produets，and to mrevent the sale of all imitations or adulterations or bat－ ter and chcesemmor the guise of trmuior articles， We can but respond with a hearts Amen．In our last February number we demandend laws which Wronld enforce＂cleanliness in the manafieture and homesty in the sale of butter sulsstitutes，＂ and now we have only to add that the pualties which the legislators of the different states may attach to the violation of such laws，will pleast us the more severe they are．

## SHALL WE BE ROBBED？

Whand by the＇harleston hetes and rimurer，that

 tlenton of Lathanhire，burland．Wh has also leased suveral ather rioh yhonphato properties in that sertion，amd yropustes tos prodince a large
 Whar at＂omplang is forminer to take all the

 bith farmar，formrich his athds athd promote ןuration．Thrs：whosphate lands arr rith and valuathi．and wnuld．if properly workod，onrich and render birtile therasands of our aleres and

 the investhanat of Fonglish raljital which is now

 ＂attlu lande to tha exclusion of the Americala lerdor．Thas are alsohuying vant blowkw of min－
 later merthons of timber lamul，ame mow purchase and hoan ontr most valuable therphatte lands． All the inconde fron these investmonts is at once
 trom the inoome．thondd we allow any ont to hand fandx in this country whod dow most make it a hombe：While The FARM ANif（iARHEN we］－
 country，whow home and intrrests are ours，yet F0 hollaro wo shomlal lake sumte steps to prevent a W゙anton wasto uf the（c）antry．

## NEW ORLEANS EXPOSITION

We werr of course at the Expmition，and had Gme of the most fuleanant mint－winter trips that could be taken．To sece，in Jamaary，trates laden with aranges．and flowers in hamm，while know and ine larling in winter＇s grass，the frozen North．The Expesition is a womberoul display of chir progites ha agriculture and the Arts．The boiblings are large；the main building alone cosers thatrethree acress，and the other buildings nearly an marla marta．We were plased with the Wamn whowna oxtended to us by the southern ferople and it seemed that to meet them was to ment rurclial amal obliging frionds．We received all all wides a hearty wefoomm．The exhibits are extensive and varieal，neiont e：n testribe them We rosulal not fial to witmess amomot the various fine state exhibits，the enormous produetive H＂wers of the Northwest．The display of their vast restolaces was looked ulw，with astomish－ munt by urory beholder．We houe all our reat re，who can，will visit the exposition and enjoy the same fleasure we did．

## cutting the seed．＊

Single Fibe Ime stmperront and Tervy．Fieds Resultint fom dipir＋m A mounts of sped．
Reliable Tests．
Yarious theories have been advanced and vari－ ous methorls of cutting the sevil recommended． One of the latest of these，and widely practiced beeanse the most ably deformad，is throntetyesys－ from，as andromeated by Dr．Sturterant，of the New Gork Experimental Station，and baptised，＂rut－ ting from North－axt to suoth－west，＂by B．F． Terry，its most enthusiastie champion．

Figure $]$ explains Dr．tiortuvants diseobers． Farh bud is the terminus of a brand eonnecting it with its source of nutriment in the middle ul the tuher．The dotted lincs intioati－how the tuber should the cut in order to suphly each eye with a share of this most important interior sub－ stance，in other words，to leave a reasonable amount or rat to eath earal mranch．

Ir．Sturterant＇s statement，to the effeet that merohantablu tubers cout in this manmer，have fielded him six times as much in cyes rut shal－ fow，four times as mueh as those cont in the ordi－ bary mannes，and twice as much as potatoes planted whole，and Tertys and other writer＇s reports，have done muth towards pomumaizing that methond．

Putatues．＂

THE FARM AND GARDEN


| 25 HOME | a day or two, then mixing with iry hator, th <br>  <br>  |  |
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| growth, and yietds heaty cropentarge fruit. + <br>  |  |  |
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|  |  | Million Cranberry Plants, planets potato <br>  |
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| Fare Prolitie still standsat the head of the list of currints. We want mublere. <br> The family sarden sthtuld tre free from stumps |  |  |
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| and lomblers. Denanito is now chat, and if shech stumpe, "to. are in your was, a few pands | THE BIGGEST THING OUT ILUsRareo rean |  |
| of the explonise will swoll war them ollt. Bat <br>  charges, fircd ofr on atior ancther, might ont |  |  |
|  | YOUNG MEN IINIIT, situations turnishent Senf tor 1. Th.i. (u,ille Ec. An Arbor, mich. |  |
| charges, fired ofr on ather ancthes, might mit <br>  <br>  atoms. It is essential tor the germamane or grond work to und that ammont of dymamite which is sumpent to bate the tesired whert at the first phl: otherwise, at leant in case of stamps, the whole job maty be mopiled. |  |  |
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| the whole job maty be owited. <br> By fit the graiter part iff tomato plants grown for sale :rre tith and owr-grown things. But tew |  |  |
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STRAWBERRIES.


This issur, buing mar Ammal st ratherry Num-
 thill walturo frertizers frization: Trans

## solls.

The strawhery ix mbere uniformily nompsufal in all mists than any otber fruit. It andears 1 and present, than any dant we eutivate Phe strawth fobld thas standing water. The wowns of the


 at weld caltivatod and friathe soil as mon an the
 so will tands tor light
timothy or onder ratsies.





 vions preparation of soil. The thoroush madia atso bo used not to apply any mamure or multh
 motash salts hath nsing, whinh will, if propery be useful ats a fertilizer

## BOTANY OF THE STRAWBERAY


to sobluc orf our remblers

H

 133 seeds. Stock warfanted. T. C. Barnes, Conxilinsville, Ct.

## STRAWBERRY PLANTS

E. BURROUGH, vile wivis



## SEE MY \$5.OO TAIST OF <br> SMALL FRUITS FAMilur



## 1 bill full

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FRU|T NOTES MONTRLY: Boc. a Year and PLANT Strawberry Plants For Sale

THE FARM AND GARDEN.

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MULCHING
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 alsu turnislas manure for the suil. The abulef

 The best maturial for milleh, is tine hay or fin

NEWRaspberry, MARLBORO. Gooseberry, INDUSTRY. Grape, NIAGARA

STRAWBERRIES
CHOICE SMALL FRUITS GREENHOUSE AND BEDDING PLANTS. GEO. L. MILLER, RHTOCKTONTKEHEN

STONE'S HARDY ill the leafine orra wber ricy

blackberry
"RANCOCAS"
THE MOST PRODUCTIVE, HARDY, EARLY RED RASPBERRY A GREAT MARKET BERRY.

## PICKING AND MARKETING.


 al the stan those the lierry with the thomb mat bingry sati, taking rare mot tor braise
 the plants will hand the matkot value, and buss for shipmant. INarion arry better when

 a hot sum, :HAd :t wha' put in a tirht hox, wht of dorty Vemalation will slways kurly the fruit in

 in the rratos tu joment shaking of moving marlintal. Never lome night of the home marke

## VARIETIES

W.0 will mot take op the subject of varieties.
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FIGURE 1:
$\qquad$ inn only be anmonts formi bo trial on the grombds co the !"ron who wishan to grow he hes fruit. No mbly, will decide it to the satisfaction of the
grower. $\theta$

## GRAPE Prolitic, Po'keepsie Red Uster, Blitand ner varieties Strawberties, ther Rappherries, Catalogue fres

Root air AFTx. Apple cerdlingw, and ImportESCRIPTIVE CTMWOUE of Uer-
 READING NURSERY, Established in 1854. JACOB W. MANNING, Reading, Mass.

BLUEBERRY. A VALPABHF FRHIT. al PRofitable ribit to ernw for market. Delos Staples, Weat webewn, innin Co...Nicho.


THE LARGEST EARLY PEAR. Bipening in Contral Naw yurk early tim history ol Origilinl Trec. Iodirw. old.
 WILLIAM PARRY, Harry I. O., New Jermes.

planten alone wate exechent in havor and peria



EARLIEST OFALL FULTON MARKET TOMATO.

## NOVELTIES

## POTATOES



any

 GRUM'S Lightning Fruit Evaporator.

MY IMPRINT is on semme of the Jimpst
this? tar. Best work, besi style. yataligntes uf Seadsmen



CRLSCEMT AMO SUCKLR STATE STrawberry Plant
TREES! SHRUBS! VINES! SMALL FRUITS, \&c., \&c.,




## WANTED

NERe: Romes. $\mathbb{C}$ e. Salary and Lxpenses or Liberai Commisions
 Hons -

## POTATOES FOR SEED.

W. E. WELD, Ingleside, N. Y.
"NUIM-BO."
THE BIGCHESTNUT
Enormousty Productive. 65 Nuts make One Quart


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## SMALL FRUIT PLANTS IRVING ALLEN, SPRMASS. <br> Locust Grove Nurseries.

Wanhester mawberrits Hansell Ragple ries, Kitter . 1s11.IV, Keal IFank N. J.

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## STRAWBERRIES!

fur hate. Gin for the best early, Conacorient dueen

## FIRE! FIRE! FIRE!


 cects. fais section, ind the totat cust of cultivathen vimes in
 The aboye sistem fres 10 every purehastir of ol planis and lurither particulat

TPRTRTGOIA.

GUP FHOWER GARDEN.

flowers that will grow in the shade.






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$\qquad$ temperature allal andy from the fisht.

解 Elendid lack in bluming tilles of the Vallity sithout any sperial colture or palion mothe then
 peat, and the batanew well rollow manne and
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of the roots they were placed in a ceelsit and eos red with fomy inshos of ashes. 'lhis was on ary listh when sebui at them were bronght apin(o) a warmer phace whare they gradmally 'ame ur
 that, thongh tha inumutation of remts bas promal ly tribled wuht yeate, the wive of the Howers is sthl gultens hath as when the forchng first begno of thls plant are due, majnly, to the use of im
 feertaln size wr dexplopment of the erown
 even with the most experienced, easyto deter


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Dwarf Tiatifghtan Cocksomb. known specles some inforesting kinds such
 Fagriths. stan Trisurirtals. Thas latter at sery rofuse blommer. the bult producing as man

## ROSESay Man WM. B. REED, CHAMEERBUUGGPA.   THE NEW RED TEA ROSE, WILLIAM FRANCIS SEINNETM!


Gut the opreration is so important that it can

hardy be too fremently advertal in. Trenehng purhans tho porner termand yot it searedy


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- Alling of pubtice parks. What the limthall lm, mast, of erourse, we left for the taste oftha condere, varigatal Pelargonitums wheh, if
$\qquad$ Thengand eftiocts that san be had with this class of plants and villugated and colbred-leaved plants of the tombersetion with graceful geaved blaty in rombination, ate infmatery greater
$\qquad$Hybrid CLEMATIS.
The most Beantiful of nll HARDY CLIMMINGmuil. And for olr Illustrated Catalugue.
$C^{\prime \prime}$
READER If rou lowe Rare Flo wers, chnirrs miy
HARDY PLANTS

 and the briyht orange and soarlet dternanitheras, being at Farisegated abation or some trupical plant. secculents.
Ry way of variety, succulents are a decirabl, clace of phats to employ in the flower garilen,
more paticularly indry positions and undre thi shade of tres. where some plants do not thom ish setisfactorily Perbaps the mane portheless

 of wind and rain ur eren dronth or coll, the are
alwars in good form; they should have a place in all summor gardens of any fextont. The ir set
 that serve aschasimacom which, as it were, todischades all phants of a theshys, fuise character, the cotyledons, Kleinas, Echevirias, Mgaves, and
 in bold groups, the form a time effect. For this
purpose they should be sown in pans in March
 they should be phatd hato sinall pots, grown
rapidy in gentle heat, mutil the crowns are formed. Then they may bet set out in Junce in Thas treated, thery will eontinur in ghex rombi-
 trated, celesia Cristata Varimgata urold and
 With rimson, orange yrect, shaded and stiped. most hrinliant hues. A fine rollerotion on ciox-
combls is one of the most interesting sights to behold.
another little cactus talk.
 mphertanity plasee themblowled with their large murh in their praks. True emongh, it is not nium, but that is where the meacure in grawing

 reatily
that the
${ }_{\text {frl }}^{\text {fla }}$ Mexinereas dexpitosus that was reccived from and had probably heonh pulled from the wil in not plant it: in tact, we fomsent all ahmit it antil We camb atres it on the shelt, and, on miking it plant is hanoming beautiouly and seweral mon cate purple, larme and duelightuly frimbint

 wher cartux but that with prond treatment the leaf kodde that the chetus requires gend ham-
 Then take them in hand and wive the Ma aren, gond
soaking and see how quickly they will begin to

WILD FLOWERS

EDWARDCILLETTE, SOUTHWIGK,MASS.

# DLANTS <br> free by mail 

tions, font toall parta of the TT \& : im Canada,


c
ARNATION PINKS 6 splendid varletles, sample plants, for 50 cts. roinduce new castomers we give away many valuabla aew plants. Our pricesarealways reasonable, our plants and seeds as good as the best. Our beautiful irstructive
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# ROSES 

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RCCHIDE

A. Brackenridge,

Batimore 5 a

## BEAUTIFUL FAIRY ROSES. <br> ROSA POL YANTHA The Many Flowering Rose.)




MIGNONETTE CECIL GRUNERHITE PET


## WE OFFER STRONG PLANTS

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olture on aceount of thelr ODD APPEARANCE, SWEET FLOWERS, and EASE OF CULTURE.
havt had collected for us in Mexto, a FINE LOT OF PLANTS,
Echinorecens Caespitomas.

| Mammillaria Apolimatat. |  |
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| and it will |  |
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| is tho brillant, coral- ike seed-pads, which appear even while bloomlng. |  |





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WOLF RIVER APPLE
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## A LETTER FROM NEW ZEALAND






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Thestork someraft on olatet la
fond to irraft-so that if at shomlal split, van and


Fig. 1. Fig. 2. Fig. 3. Nith the fer
te word and bark is sure to find it apol in fir
 condition for the unton when the grith innarerto In all pases sou manst have fho wond of the gock and that osi the gratt even, no matier if tho grat is thserted luyond the thirk lark of tha bark of both graff and stock were to be remombal they woull just be wen for the sup alway tiarts ind flows first bet ween the wood and lyart and the er atit shaulat be set so the silp-wand at that graft and stoek meet. This is fmpmotant, and mast never he mayterted. By anting the wrat surotol lat plith, as we show in the "ut, this is aldom fats, evern with a novie
1bunt busert the graft ton deeply ; no deeper onthegraft, in the rut, Where at spot wh whit is of the slope of the the stork. Figerne hathes at patt The graft sholalal moser the insertern wat that ibe the sionk. This is lmportant for if yeut erate en we ulver tho hew woul will
and so wore all hosh fruits, exrepting goose bed ras, whath here ill at must undmail matmater, the


















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Whe worso halplexs aquatuent tha rayares of these tlyngs, that i know ol oje
chardinta who are cutting duwn their pear treseln dospair. In other plabos whewe smaller trens onty ate grown, the propblators find that sprimkling the tree with a sulution of whitte
 a thaneficial offioct. Sirinkling the ree, or rather the lalvit. With atrelileked hmm ithd ishers will





STIND 10 CTS.




## Seeds! Seeds!

If you want the BEST EEEDS for the I.EAST MONFS, wur Catalogne will aid yon to procure them. us us. By shadiag us yunr ind mesis we will sebd youk a watalugue free by returu mail

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๔HE DOUHMRY GARD.

Thi Firm and darden contains more intorma -




APRIL THE BEST MONTH FOR EGGS
It is naturad with bird- tos buetin laying very
 sustaming lafore the cand soasm sots in; and,
 Whanget tho matural hathits of tho birds, that There is no uniformity in the manner amd timos



 efgs than when the season is excesivoly warm, as lhanthof fowls oftensumev fur shade and water. April than later in the seasm, wwing tor the

 thork, and insteatiof having therir sulphyof foot order to induce the hens to lay regularly. It is of nos advantage to ketp
hems that do, not hegin to lay well in Aprib. Hens that have lad regubarly during
during tine winter, maty merhaps, takn a jeriond of rest for a shor timbe bat
where the hens or pollets Whare thu hens or pallets
have passed through the winter without baylng, they
shonld he laying now, antion shomld the laying now, innit should lie sent to market of eourse, the pullots that Were hatehool ma late ats obtober maty tw "xeepterd, hut tho extase ean las mate for
thone that wern hatched bre fore the first af dume. In marketing egg avoid bommonn kupposition is that tarreled eggs arte sedondbotter, while hatokits are indications of fresh artickes. intl in nice eomblition, and tombavor never to allow at
rotenegg to leave the farm. A single bad egre in a tot damages sonder whibl tiud it and the matter to resain emfidence when once a stale eges is found among his lot, When once a stale eger is fonnd among his lot
we wish to impress upen thl the importance of observing sueh fact

## nEEPING LARGE FLOCKS.

## By P, H. Jacobs, W'unи, Ill.

Before attempting to keep large Horks, it is important that you determime when formine" and "e ege farming " may be combined, yet, the one is a different pursult finm the other', and reanires ditlerent methods. 11 eggs, only, are thesired, twice the number of cggs may toe kept, ind the
matur of sureess depends upon when the eggs
"tre mirketed. Where the eggs are desired for hatehing purposes, tun hens and a cock are a sufficient number together. Twenty bens and two cocks eamnot be in the same tlock, as the stronger cock will intimmate the weaker, and render him unservietmaiy bre plared together, instead of ten, whille the eges from the hews not aceompanied with cock's will keep twier as long as will eggs that are snitable for hatching purposes. This has bren demonstrated many times by placing eggs in incubators, the infertile onts remaining in the egg-drawer for three weeks, mader a temperature averaging at teast low degrees, and remaining in a fit condition for use when taken out, though slightly damaged, while the frtile eggs not hatefing, insually de eonnpused, and beeame what, we term "rotten." price's be low, nay be packed in salt, oats, irian, asfies or dry earth, in hoxes, and turned, (by turnken fresh and in good condition for at least six months. It is not necressary tokeep eggs over three months, as prices usually rise in November, atha hence, is they are cheap, inJuly, Aug., and sipt., one is not eompelled to wationg for eeter prises The best method, therefore, wren keeping har permits' a greater number of hens to be kept, and as tho hens will lay just as well (if anything, beteflected, while the keeping qualities of the eggs






 CROSSING BREEDS FOR SPECIAL PURPOSES

 crases will he thand exerlent:-

 Tor lirudure the hest laxers, withmedium size,
 hor. produce the best, largest and bumbest
The produce the best, largest and bumpiest
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THE ROOSTS AND NESTS.





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 If preforme at gill of artaslic
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mixad with the hay or siraw
 these precantioms, there witl be
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POULTRY SCRATCHINGS
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 of salt to the fowls in the soitt
food, and cease fieding robly SYMETOMS AF Rover, Anorzing, diseharge flam the mostrils,
swelled bead and sore cyens, botrse breathings, and sobre throat acemmpmibed by fond
oder. A gombrmedy is to give odor. A gombramedy is to give
hali a teammonful of wal oil
shan hens. Dirk legs will be the result, thit the

 corek winh laturnhan hens.
Toprodure the luest sitfing hen, one fhat will remain on the nost, hatch well, ant tenderly war for her fhicks, ross a vigorous jit Game edek with partringe
gand table fow
gobd table fowl.
Ta produce at large market fowl, one that fattens reatily and is casils confined, carsw a larabma fork with I'artridge Cochin hens. To produte the largest and lest geese for markut, cross the Toulouse gander with the Embilen goose.
once a day. If the find is woak give a pill eoni pused of equal partson ge
Notire onr specification (otter on thie phere KEEP A FEW GUENEAS- On finms where thride is plenty of range, ghineas are of great advantage They do not atratuh, or do tamage, hat destroy larse mombers of insedts, searehing twar inhern for them. It hatched under hens, and indined to roost mear the house abspat in an apparance, bemer athays on the the hest known, though the Whites are favoritus with some
(Continued on puge 13.)


LANGSHANS
THFEBEGT IN AMERICA. me Enest stralns in
mated with recin
nglith rom Major Crond, of England. Eege $\$ 2.50$ for 13 , $\$ 4.50$ or 26 . Send for cirnhats with my nsirnctions for ralsing Address J. L. HAKRIS. Cinnaminson. N. J.
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factory than hhose costing \$75, :L9
 fertile eqgs. Brooders. of Artificial Mothers, which wlil successluily ralse the chicks, shown, Ge1 up the club and be in time. OUR SPECIAL
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VOI. IV., NO. VIII.























## Gdinorial Gomment




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No fumbly ath aflord tor du without miatwerries. Fither trenh or wanmed, they ale the most the
 of strawherg shorteake. The well-todo larader

 the old restahds "th hath, bitase he kandswill sull him butter.
Never diseard at variety of sumall frait, mor vex table, wer potalo, whinh gives satimfartion, for ath untried mele mut, no matter whor sths that it is belter.

THE FARM ANEGARDEX, now mmothema そeat ago, thed with the tirst shot in the battle whinh has been raging eworsinee, over the duention, Whether the iruit of a pistillate variedy uf strawbery is influmed by the variety which furnishes the pollen, rir mot. The doefors and "wise men of the East "still disigre" about it.
The mext fruitiner keasom may bring us a set the nefot of the voxine foustion. A number of prominant lamioultmists popose to test the matter thomoughly :umi moblatifically.
We beline that the mejority of growers for market, wll continue to grow the obd Wilson for :t main crop, and use it ass at frilizing variety for other sorts like Crescent seedling and others.

A slow lut steady pull, oftem necomplishes more than spasmodic, thongh exhatusting exertions. We know a little hump-bavked Irlshman, who secms to be the personification of slowness



 That thia litho bollow



 butyury. naind that.
























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tolliatry




 We were phatad tos som that wur latwor in lulati


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Now the whondeste raties of soeds, in generat, are ver bow, ami with a sutine of expense in




 priar. Were it trus, that hion watere are the

 Hiah waras fin tarm hamds, wit wh what little Habxin masy le laft in the probluelion of than are in funt propurtion fothe prious of other thintrs.
Rembember that it dones nut pay to plow land for obtw, oh whith fout rambut experat, with sump rasthathe duspere of ertatints, it lexas in or on

 butter. (irow and plow anter some green erop, such as buck wheat, peas, or chover. Sow to rye in the fall and seed to clover; not forgetting the application of a few hundred pomeds of phoswhatr. 1 an mart, insruase its capacity the best !3 youll litl.

We all attention to our strawherry artieles. W. indleve you will find they contahn more pactional idnas than any work on strawberry enlture. We cho all this for your henefit. hoping you will try the suggestions we remommend, and will be suceessful. We are alwass glad to learn that ou labors are fruitful to our readers.

















 will fhen hatig out fommodiate attentiong. If



"hr aldirtisers are will fleatsed with the Fans
 aty mar aldurtinera do all lher promine. We 6月!" all who write tu thom will say that the


 W0 likr as spuate husincos.

 low, I pund ran lor sill hy mail abl wer the

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 fus in a witule number, ur wo may say, in a your,
 bumber is as full of ibtormation on strawherse growitur as many bumbe lhat kell far one doblar. litallars wo want, and will futhish the best and - मa"apos yapur that rith la fomad. Give us your ald by externling our pireulations. Den we not mertit and deservi it?
Now is a good inme to buy. If you want land, yen cen have it chatap; He vor want to hive labor. liator is planty. liuy mow, it som are able; but Lor mot think of sellemer a gornd pince mus. Hold
 tentremor.
The great majorits of formers eling to their sexpertive parthes like the bag to the potato whe, momatter, if mothing is lati but the bara, dirt $\boldsymbol{c}^{\circ}$ tialk. They will have very little influrnme int the mathagrment of the mationall housthold, as lomg as thay summit tor bobs lad like sheep hy their

 but there are mithoms of farmers who do, and
 Gtion amd hearty chengeration will aceomplish

"Wo behlly anmoname latit we are in liator ot the reatime abolition of the lownartiment End the

 mensarate th the importance of the engrideltaral
 recomb iswuc. We have often cilled our reaters' attoration th the uselessonss of the Goveramental sededs-shop, and asked our agrienaltural comtempuraries to help us to lift the nuisance ont of existense.
some of the Stitu experimental Stations have done a handred-fold more gend to the farmer, and at we-tenth the enst, than the Agriculturat Department. Let ns have" momething or noth. ing:" either a department worthy of the mame, or none at all.
If we may believe the from, Journal, "old seed grower and seed planters say that beet and onion seed whll grow up to five or seven years old." It lis to be hoped that the ingenions editor of the Firm Journal will come into possession of that "experimental farm," which be so frequently mentions, before long. After a little pruetleal experience with onion seed, he would hardly pat such nonsense about is before his readers.

GLIPPINGS.
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native, is not werything, but hew at the fombation
raising milkers in what be some what diferent from that
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 tain but little al a milking. A cons thas tratned will eity
of ber after care is judicions tad liberal. its it shon ho be Such treat monat fends to form the habit of givins mili and as whew, habit is a surt of semmd mature. Comple
the heifur with an wher bull, one, two or three years older than she, is preferable to a yearling and hetter stock is likely to come from such. After the helfor has come in, her femd shanld be regular alld loberal. Good for stall fred: thul we most make up for what is lacking dueal, w the like, but great care and ound judi, shoris, un
 be ruined. Thilue forcing shortens the usefal life of the cow very rapilly
From "Londem

## WASHING EUTTER

The only time that all the buttermilk and what it conatains can he separaled from the hutter, is white the butfar advanced that the bater will be gathered in alarge lump, if will have all through the Jump more or less buttermilk, in which huttermilk there will of course he memhranons or caseons or other solid matter, Not only wwill the grain of the hatter be iajured by the kurading aequired to remove little plse than the diquid of the huttermink, leaving moch of its solid matter incorpurated cwith the butter. The kneading of the butter tends unty

BURPEE'SSEEDS 作票 FARM ANNUAL FOR 1885


EARLIEST POTATO $+{ }^{4}$
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8-pound onious from seed Ball htallon Dulun, pepper ever secu. Abbott's Kugur Paranip. Rrially lat


 17 packets of aed and 60 cts . TWO rollection ro Hith, Fotr for OUR PROPOSITION








|  Then tak: <br>  <br>  <br>  <br>  Ton trochine Fry <br>  <br>  <br>  $\qquad$ Ariuk at nol is w, with $\qquad$ $\qquad$ <br> with tre irese ins the rinl and wid whut iti <br>  nol. $\qquad$ <br>  $\qquad$ |
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## TRUE OR FALSE ECONOMY

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 With embdlowirking a white spread madre ont of great triamphot art when finsiand, and a monu.

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lustrated Fook. hut. Pumt de leofing ('口. Phila, Pu

## LIVING OUT

## Fou dun't \{x\|l mas Mrs. leee that you are

 Whag of lot Fimman live wat this summars Ges: Nbe tace phrargh th hall Mrs. Namles for$\qquad$
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She might, hut it monde mot be half so brofita-
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It Would be just the
PBut sum know there is a general sontiment

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## PAREMOMT HLUSTRATEO CIRCULAR, <br> Colony. J. F. MAN('IIA.

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## Surevegr, beo WASHINGTON: and prasuent





## THE FARM AND GARDEN.

GORRESPONDENGE


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ant whake the whi sur and will hive in indur












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horidd the witht of the wall mix the evenerew




Yes.




Mrs. D. B. Rom lamid Ean craice wis. aske 1





The oremblumt, beand
Mabed riray, Makdald, Pa,. asks how to mand

kind best and easiest made is to ronnd
sail wherethta walk is tolse mathe ind put

"ond (ghs) tar and beat it hot in a pat and pour
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toe dry and hard. If the walk is wotl mande an
walk will lasi mans tears: but if not will ma
last long. Yum ean take iong shingling lath.
pleeres of the width cish want the bath twen
apart and mail the lath on them an such iupert
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can make


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 nelghburs to order withyug. Satisfuctiog guaranteri. Preserve this as it will not appearagain in this paper.

 and markings
They bloom fr
dry, bot over 50 diseather of symmer, winenother boria iall. Mixed ated
 MIGNONETTE are magntfcent; gecd 2tr perpaper. We als
 free toail, for otherspecialoffers. Any of the bhove articleswilibe who plant tiem


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## @OULHRY


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 cannot be bred on the fighting quatitity that the the conkerels, manks kept hy themselvers, will
 tiereely tight a hawk, and wome off victur, wa
prefer a more jeateable fowl.

 man is delumbed with the apparently furat finta, feed thont warm liod in the nerning, ind
 The the lonases are kep crom, the droppings given in teaspon thases, slifhty monistened with fowl , vlve amisturs of hall a teasponful of pat payente pepper, and tive dros tineture of can OUR ANNLAB. PIREMIIG LIST (Jnnenry


four subseribers ht 2 ctents rathl.
GARDEN OMD Paryon's lrouific

## for


V. II. Mlalluck, Sun \&' 'lhorpe, Queens, N. Y., Nurser
A. C. Kendall, 115 Ontario street, Cleveland, Oho J. B Root, \& Con, 607 teventh Avenue, Rucktiord, Ill Ahams \& sum. Cir. lieorge sireet and Erie Canal
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 ock. Rogers \& Son, Moumt LIolly,
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WHY PLANTOLD VARIETIES WHENEWBLOODIS SOMOC BETUER

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WE CAN OXL Y Y FFORDTO MAKETOOU THi'S OFFES ONCE.

## REMTTANE

DO YOUULINE INCTI? $\qquad$
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 HOWTO CETITFREE!

Fprim Showers.
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 drario ". "Indade he dit that." "An" what in my roxm, an' in the normings it nitule suxh at noisi* J moud not sleel another wink."
 of the Emeratd Jole sent himo wot one morning tod ong hefore nearly $\pm= \pm=$ BURPEE'S EMPIRE STATE POTATO,
 and if perularly nich and deltcate Hiavor. Of vigormus gras th, the tubers nearty 600 luwhelupprarre and thurpughy tested
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 cent frt the ertetets of this silverisement. AddressACME MAUFACTURING CO., IVORYTON, CONN.

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## *The Farm and Garden.

| INSTRUCTIONS TO CORRESPONDENT |  |
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|  <br>  you canact, then write to us any way. Ib, nut ematiall fo ut ofe che or let it pass. We wabt an early ceptorluaty to mather rakh any aujurthe ar maydu. |  |
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Our elpecial mambers bit the mark somately it the centre. 1)ur busy rettor domes wot have to gather in and remmember from month to mond tha frathments of ieleas uswally presemted in Abrieultural papas. Gur statwhery mamber is complete busak on that subject. Our ingusi number will shay in fotme pages the rompatatio
 (0) which they at'e sulted. 'l'lu methen uf rame prices of wool fur rears (those statistias are on groat valat and af intorest). To at show prower his nomber of wur prtper will "xuecd hat valat anty times our subsuription pride
Iramptiy an Geptember lat om subseriburs will reratre our "Wheat Numbre". This iswlu Will ba devoted to a revere of the value of ditfor
 methombe of planting and eultivating, and at eomparison of tha value of fertilizers. Illastrations will mot be sparod. We will be orlat to foremite articles and suggestions from any of our subsetjbers on this subject. This mumber ought to bu worth the price of the paper for a yenr.
Our ortoher issar whll be especially devoted to grapes, We have bean engaged on thlis tomic fir some months, and have in tiow il large anount of exceedingly rebiable mattor and illastrations. The collure of the vine in this eountry is ats yot In lts infuney, innd we propme how it can be largely extended and made of interest to every reader of this paper.

## GEN. WITHERS, 1157

Chestnut horse; no white; $151 / 2$ hands high Welghs lom pomats; foaled dume $18,18 \% 5$. Bred by Col. R. West, soot Liounty, K'mintucky, and purchased by me of Gen. Wh. T. Withers, Fair lawn Stoek Farm, lexington, Kentueky.
Sire, Almont, sire of Westmont (pacer) $2.13^{3}$ and $2.01^{3 / 4}$ with rumaing mate; Fionny WitherEpoon, ".16 ${ }_{4}$; Piedmont, 2.17 ${ }_{4}$; Aldine, 2.191 ${ }_{4}$ Early Rose, $2.20,4$ and 20 others with reeords of 30 or better
Dam, blosm, by liteheock's Ashland, son of Mambrino ('hief, and sibe of Jlightand W'in, 2.24 and Joe l'titit, 2.30, and sire of the dam of Edwin Thorne, reword $2.16^{1}$
Seeond dann, Lably Brant, by Toronto chief sire of Thomas Jaffersom, record 2.s?; lioval

The scison of lis'f was ly fin the most suceess ful with Gen. Withers al may he has ever made.
His wonderful sped, his great courage, and remarkably clever disposition, together with his great breeding, bave won for him a reputation secin to no stalion owned in Malne: and that he

THIS IS THE BEST PREMIUM OFFER EVER MADE BY US.
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 OUR OFFER

dieneral Withatio, ow yed by (i, J. shat, Harthand, Malne.

Trinsimits has gomal fualitiss in themarkabl dreyree to his get, is berimming to be quite well

 command higher priens, abd at more reaty sate

 bears old, and thore are ration of those and nearlu evory onte of them what used in lisis and list fer breoding purposes, as was also at largo per cent, of his farts of lostl. In lust many of
 remarkable triads. One three yetarala was shown a fath mile in ${ }^{2} .4^{11^{3}}$, wilhont traning, and kept than serviee. Reveral others have shown bottor Thee mindmes, and a four year whd alull
 bethr hath any of his provione get
Datime Giathers was awatred first prize at Mame Gate Fair in loty for standard hred mall Farm, and he, with tive others from Cremm Brook Farm, wats awardel fros premitm on stuld of horses, and many otherin of his get from weanlings up were winnors of first premithms at vame fair,-G. J. SHAW, Hathend, Mo.

## SPRING TABLE-FARE

By Eilult Mruy.
Now thatspring is agath here, the system is apt orebel against the winter diot, while as ret
the datily food is chur dopemdence for heulto ant strength, andit is very important tohave it appetizing. Now is the time for the gond housekerper (n display hev skill. (one now lish at at meat wifle very armoptablis, and with carefol study heiar oranges are the the fimme pans lightly by the dimer and make at meth of the dessart. Hake a short-ceate split it in two, and cover ome buttered half with sheod orangos shgired, being careful totake out all that seeths laty wrer the other half, and serve with alagar and milk, or my phadimg satuce. Sugared mothyns are very refreshing at this seaorn, and an excellent change from wand fruits The system in ant, also, to arabe acids, and natures suggestions afe worthy of attention (ablsige made intorold slaw is often relished by Those who would turn with treasion from to plate ar builed vabbige. Indefd this vegetable has the poprety of growing more indigestible the longer on buil it. A very casy thing to helieve will many of us, yet raw cabbage tends to promote it cosked, and agrees with many who can not ent coolked
Ir. William Hall wrote a book on "Hhealth by Girod Living." and it was full of good hints which he hat gathered in a long professional life. Ile Was a strong believer in "food cure," in a large
 himself in need of a bottle of nedicine, his reat
netid was at good ehicken dinner Then is no ken dinner." There is no question which would be the measanter to take. Ho
not grudge yourself on your family yourself best you have when you ncesi it. Dunotsell the chickentuld buy a bottle of patrut medicine with the monery. When vert licel "just lilio horing something gumi

 sips. Thes
may he Bet






heir wises, when they sperak of this moble "feminlnity.
A farmer who has pants uf lamb, must be :
 and pestatoes and luatas
and tallowithond vereptall,
them wids hor wow la:tal
unless chu hunts thom (u): :1
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Gometime in the latfor patrt of winter. I fork
an acyualntance down 11 (htr enllar th abow him





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quick and surv germaimation.
Shak the sual in follid witur. In fatt, all romet


 by malxing the sedel wilh dry sathd ur pliater. Now platit by hand, as you womld corm. Ditrli the lind, so the forw w will be the desimal histame. from two and on-hatif to thace reat apart, thon provide yourself with the propramid stet ant hoe. Drop a pinch of secil-trom thro. to tivo in the row, wore lightly, and sempon it, then drup a few mome seeds about ano fons apart from tha first hill, ind an onn, wers meplovin! to stop uptul the arcol after moverit!! it.
If the serd is gimal, it will graminate and freat ground within font or five lass after mantine If it docs not apperat within at werk of masomally clear wrather, huy mow sedel and mblant.
Where silos are not in nse, manems mant bo considered anmersaity for winter ferdme. Many omall farmers and moedrandes in emontry towns
keep only ont row lor lamily use. It thesp fow-
ple knew how tasily an abomband suppls of rosto can be grown, and low the flow of hitk $1: 1 \mathrm{n}$
 aloner without them in the winter

It is not at all diffient toraise forty-tiva toms on

 give gou more than mo tom, jethaps mesuly seventy bushels of mampels, wificient to furd mehalf bushel per day through atmost five months. Just think of this! seventy howhols can he grown In a few rows across yourgarden! Why not do it?

Goly bear in mind that the manure hats to be
 on any gimiten. Tor \&row mangely in thin w:
 in a larae suite.



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drill, <alaity mund low mown hy hami. Nwals


## KILLING THE CABBAGE WORM





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## THE SOUTHERN FEVER

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 ibu stap lo woddt take. Wee all know that the


 in thas, suth fur the farmer momas, in most rises, isulation froms ati subiaty :ad the doprivation of


 formgete with it. I van latme mewhanies who werr atting throu- dollars al day at their hombes who wont somth to "get rich." Thes went, hat dill won find the country as promising as the lying lamd arents han pietareal it. Thay are now
 aro first riass workmen, find it hard toget work all the time.
Mataria is the worst divans with which settlers
 the miall who bas not sufberd from it mort or
less. I have in my mind at this mombent a foung
 hetalth. Je was frablend wath malat:at, and
 the smatl. Huwent: but the sonthom alimate mbly arerazatiod his trondle and herame hack worse atl than botam

 I Have conchated that chled New Finglamd is far

 roint of vow the tormor is tar sumeriser the the Rattor for the workblar-than. I shond arlvise farmers and working-man who ate rommorably tivel tormatin whare they are. For capitalists, be somth wifirs ereat indurements, lat as a pumament residemon for Northermers I very mum donbt It- advantares

## CUTTING THE SEED.

Thas far wo bave dealt with theory only. How



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The Gollowine tabla will wive the averate re-




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 fortull in the iswue ot Mareth listh. Inal.


 Wle that is, whole putatons wereptoled sothat hilt ohe ere was left with a ring ut sith thout it. $*$ \& The varl-


 hown liy figure t, and of that size.
 - therer falled to spront or diad attor sprouling, that mostimatu conald be matus of the yield per
l'ost ts, A. In this test, rylimurical pieces were"nt through the jotato, as shown in figure w, with a strong exve on one -124

Finnurb is iss good as a foast. " conIuncs the hurak. Roll what would be choush in it Wrt spring, misht prove tow little in a diry one: what might serve in a rith soil, might prove insufficimat in a poor soib. The quantity of fiskl which shond go with each prece is, theoretically, that whieh, without unnercessary Waste, will best support the eyes, until by the growth of roots, support is no longer required."


Fig. 5.


## GAROEN NOTES

Sowing garden secds is an tusy phough tesk,
 and masify, howevor, mone la sown by hamd. Nor is it advisable to plant peas with the garden
drill, which leaves them tow near the surfate and partly monotered. It is hest to satter the peas in phowed-out or boen-ont furrows, whout three When neithor garden drill nor hand entivator is tule used, try the following plan with anions. six or eight seeds every -ight indas apart in the row. The omions grawine in bunches will do gust as well as singly, and the weorling be much It ix at guod plantomin in fow raminh seede with onions, celery, parmifis, and all other sonds
 lomation uf the rows, thas (nabling you to hoc or cultivatu evon trefore the other vegetable can be senon ature gronnd.
Now remember that $\stackrel{\text { Letture, was, nonions, rad }}{\text { Lem }}$ ishrs, cte. ean he sown just as warly as the
 Hore), which every farmur whon whoth mome that
 feen tosixtern inelasespart; otherwimbination the zorse power.
Celery for plants mast be sown an maty a
 Always sow in rows fatr monern iptart by for
 fogether. Therer is little dither


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 but 10\% poumas will prombore more valuable turns for the gatlay, as the ratblates will arom anore mapicly amblbe safer from therableter wemm
 the worms than later. Wuadwis atoly flantone the use of phasphate, well spratid in the hall, :m
 Thu most shecemolil

## ACCOUNTS WITH CROPS

## in

It fs gencrally ronvidract vers dosirallat that
 any indivichaal enttivatar laghe in the eromamumity in which ha lives, is very larendy andomatmod

 Wha produces large $\quad$ (rujh will twe at for mand suceresfal fizmer than the one wherothtains lat a small retuma from the latal whichathertivates



 to know jusithow nurbh it costs hime to proture the article whinl he sells. In mother way onn he know the price at whith he can afforl to furnish his wares. Neither can he tell when : sale has been made, whether the transantion has Fielded him a fair bereendage of brotit, or in-
folved him in a direet loss. To this it may be said that the farmer has little or wothing to do in determining the selling price of his crops, lat that het is obliged to sell then at market rates or not sell them at all.
The knowledge obtained liy keeping aceount will aid him in making a wise selection of the crops which he will cultivate. Thus, the man who keeps a record of the cost of his crops will be prosperous, because he will grow those which more than pay thr expense of cultivation.
Unless thare are valuable compensations, no farmer can aflord to grow erops which cost him more
sold.
In the expenses of growing a erop shonla be included the rent of the land, enst of seed, value of fertilizers applied, of labor performed, and everything involved in its production. Credit shotild be given for the crop as a whole, not only for what is sold, but for every portion used on the farm, and for sueh proportion of the fertilizers as probably remains in the land, and will be avail able for the use of succeediug erops.


 all his attertion to tha prablution ol any sinas
 able to draw. He rammat athoral for risk all his









 Ifants ibul that smas Crops wharh are mow

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 sryer. allld
Tha germination of the coble bin be hastenca threr days bevenking it in wam water for twem S-tome hours hefore phantime. This metter as mmes an ilmportant phame when lise thas reasom the work of flatiting is delayed matil late in tho
 Wh-horse or ahand banter; lut whentha seasn pine by hand and acovering with a hoe or with shmo device for the purpose in orier to be ato t"use swaked seeds. I attioh great importanct (1) the early planting of rome. All farm worli sumbld berone at therearliest sersonablemoment but the noglect of some is attended with greater loss than the neglect of others, and there are fow operations, the delay of which, beyond thas proper season, reduces the profts to a graterextent than the planting of corn. The reason is this: corn is a semi-tropical plant. In the latitude in


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 (14.01) Wes attempt to raice tom many rars, :mad
 is it was; and ovall whan it had its virem fous Abotivences, four gratims in the hill were too mamy. I ank mow that two matks par hill will

 Thondi the mabine may make the more bubk,

 and lathinelimedtothink that we pay altomether (ms Iittluattantion to thw quality of ewrn. We aro barefal abent tha quality of many products,
 mot tabk. We are careless abont quality.

## MAKING A HOT BED.

Ly E. IR. Remsfom, Fithoka, vo

The manure should bu frosh-right out of the stalife if lussible-and abnut half straw. leares, " something of the kind. tor making on top of ground. The frame shonkt twe abont two and as half feat at the back and the fromb, and when you have forked the manure ovor twien, it may be put in to the depth of one to one and ithalf feet prossing down thoronglay. If the dirt is ary wait a day or two natil the vile heat passes uff but if it is frozen put it on to thaw out. 'The heat will rise firs the first two or threedars to $120^{\circ}$, but When it smbsides (n) the seed may be sown. Cover with hondds and keep covered when the weaner is at all severe but onen on warm days the soil for the hed should be composed of fine manure, sind, or dirt,-in equal parts

NIAGARA WHITE GRAPE VINES

## ढHE ORGHARD.

## THE SHANNON APPLE

W", sive at eut of that Shanmon, the prizetakimg aphe dor the southern division, bet ween en and

 dollars for the bust mew atple for that seetion, and tive doblare for the hest plate of thammon. The apphe from which the ront was laten was one onrsalves in Nexu orlasms for the purpose of making an acturate cat
The shamono uriginated in drkansas, not far from Little Ruxck, It loser it will full wima
 Rhame Islamil tirmaning bat does not spread as muwh as that. Thu the is a monderate. rigular
 few on the ands of the branchas. Thre irnit ju of


 Whald havi kith muchlonger. Wre fomm Wrleans. The firm wan line wand it on in evory partiablate as a -hativ

 nest frott is doximed. Wrammat midd ©ifmate. The sariay 1) profertion.

The Rumal Nour Yorlior ratass wom is not the whior pilumb grown undur al faverahle whil and ellmate. We have iwn trome in

 mads vers prombownt, and the somme for Wown as wowt and downdy at the Fonn "Frult vellow, with mottled red in thw man.

 charp, sub-acid in thand and the quality we fimb of which the Huntsmath maty be taken at atpand

Fatye's Prolific currant has the reputation of being as grood as recommended. The courrant secms to grow in popularits"
fear orehards set la grass arp mumh fons libble to blight than when cultivated nond freelymanurde. The trees that are the frest growing are the first toblight.

Remember to keep all the suckers that start from the roots of trees remoned. They not only make the tree very minsighty, tut will injure its growth. Remove them early and often.

We dug all the earth away fom our apme trees to prevent injury from mior and have had nond harmed at all, while last year, by banking wil the dirt, we had seribus injury. The shrew mice are the ones that injure our trees.
J. T. bovett sits that unleached wood ashas can be considered a specitio fretilizer for thr strawherry, and pure gromond bone a sperific fertilizer for the Rasplerry; having never known
an instance on any kind of coil when they did an instance on any kind of soil when they did
not produce large returns in the fruits as named.

The cold and unnsually dry winter has caused a serious damage to the apple trees in Indiana and Illinois, and perhaps other thates. Iry winters are as had for the vitality of trees as the cold. It will rob a tree of its strength very quickly. ITnless trees are vory hardy the present winter will injure many of them.

There is the usual statement now being circula ted that the peach erop is to be a fallure, that the cold weather has killed all the fruit buds. These statements are madi" souften there is little dependence to he placed in them. The peach eroly is not safe until the peaches are as lasge in diameter as one's finger. The dry weather in spring will often cause the crop to be very light from continued dropping, eaused by dry weather, It
is too soon to tell what the peach crop may lie.
 that ingure tha apple. The word "gerometrid " is form iwo treqk words. which mean "earth measurers," an they have the habit in crawling of loming themselves, then lengthening out, as if they were measuring the distance they destructive

It is nont tow lato 10 graft apple trees, even in homsom, althousta it is better to graft earlier. When the trees are in bloswom the wark parts from the woul vers Eisily, and care must bo takun in wrating tarat aff the limbs so that the batrk will mot peel from the wood, or the grafting will be a fallure W゙ロ give much yaluable iuformation on grafting in our last number.

Mr. . . R. MuIuite, Winthrom, Makota, asks wr a list of fruith suitable for him in Ibakota. Wreaw sume firt apples at the New orlanas Exposition fram loikita, lat we dare nom, as yot
recommmend atist. We will do so as moun as pos-
"ShanROT"
s, Ladys. For market, blarks, Concord 17, Worden I3. Moore's Fially ! . Rads-Brightan II, Ihelaware9. White-Niagara 17, Porklington 6. The reader ean learn momblom the vote.
W. W. Jomes, in The Farmer and frait Crower, clams that varities of apples having large, thick leaves arre the hardiest and freest from mildew, and thome that art cottony and wowly bn the umbersjode, the most hards. Those varieties with thin leares are lha lenst vigormas and hardy in Indiana, amd are liable tomindew. Of the thick, large leaved, he mamen at hardy the Dinkler, Wralluridee, Missotari Jimpin, Red Astrachan Puchess, snow, lamm lamaty, Bun Davis. Wealthy. \&e. of tho thin hated kinds he mentions Milan, Winesap, Rawle's Gemat, de. He alan claims that the romets of the thin leateded variteties are mot as sommd and healthy as the other kimas.

COMMENTS ON OUR STRAWEERRY ISSUE.
I am an utter disheltever in the theor? that the pollon afleote tha siza, hapu, ur hower of straw-
 hawe grownthem and seen themgrow ing on diffurent wils, and with variand hamimat" varioties, and they
alwac thw samm. The wer Wht inway bownod as if the
end hal fown ent onf, and the firon louliti alwas: hat a


The mothes an ratising strawherpian in April mumber, hy
 Have tweld marayed in graswing strawhorrias, amd it took ma, ratire tu time out that the tont suls wrro mot the same
berrins at all. I bave that ther
 but two kinds ats wortheres away all gromblk, whidh was al dimm, quing gronalk, whixh wisi al damp, quitkWhare tho Triumply de diarnet and the
 Many mong growero have ontimby disoarded thene iwn kiads as worthleste whilid I combld not ratise thopis fownitus to ans protit. I therefore advise stratwherry losers to keqp trying until they find the kiad of burvies that tit thatir soil.



We sall attention to onr artiele on (immmetrids.
 tion, any way. We want bobealwass allead, on time, and in sexson.

Arenions Aedd, rommon white arsenie, will do well to spray treas for eanker wroms. It mixes better with watar, and will, in time, be largely nued. We do mot fuel prepared ta give the proportions, but belleve it will be wifo to use one pound 10 lan pounds at water. Whare the trees are hut lightly spraytu, the will bear more of the aratonic, but if done by heavy dramhings the adhering arsenif will injure the foliage. Will some of our rataders, who have used the white arsenis, write us hosw they like it, and the proper proportlons to use?

CURRANTS-RASPBERRIES.
Cherry nnd Versaillaise mustly one year old plants, several thoushnd
of CanliberiR Ra
Ed

NIACARA WHITE GRAPE, MARLEORO R 2 spberty
GRAPE FINE - Po'keepsie Red Uhter rid and nerv varieities ABtand other
 $\rightarrow$ NX, Merchanniville
STRAWBERRIES - And other CHOICE SMALL FRUITS GREENOUSE AND BEDINL P PLANS.



## THE LARGEST

 EARIX PEAR titanol 0 rici nitrre.

 Mrlisum mapmerien ant cirnip.
 1 Ravk


## APPLE GEOMETRIOS

Wr mocoive many inutuirios athont the ranke Worm on the apple trews. and wa deem it best th


 Words, meanimer marth-measurers, form theis habit of walkiner, whinh is to lome themsidves un

 ritrerse
true rank
 ing latid in tho spinge tu diminguinh it from the Fall fanker Wram, Which is murh less widely distribited, but equally as dentructive


Thw ©

















Wegive in tixume 2 - har Fall Canker Womm Atu dsopterix pomberio, 11 arrol It is visy simila all respects for the surine (ankat Wram, "x'ept

 not be destrowed by fell phowings and frequing as the sprins sueces will he, whloh shows that hey atw on al more frotile dharactar.
The question will be askat, "Jow can they spread surabidly " From the hatht of suspemiiner themsalyes by silken wels from the trees, they are cartich by passing vehiches, or even trains, hirds, wr animals to distant puints, wher


Figure 3 gives the appearance of the Lime-tree Winter Moth (Hybernia tiliaria, Harr.), another

 are waly of a yoldow polog, with mang narrow hatek babda fommine the lebueth of the froly.


 \& winglas, whila tho mala has liran, allolitite

 and spring.


Wrallustrato tho Whito Engonia E Eugonite sulf













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## 99909 <br> strawbery R Rasbery. Blackerry.

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JOHNS SOLLINS,

## Foliage inam plants GREENHOUSE PLANTS, <br> BEDDING PLANTS.

 DAVID FERGUSSON \& SONS.

Ridge and Lehigh Avenues, Philadelphia,

Watine the the forew pamp The west is mall

 ammethmes it will be lernimed twica. Late drosis





 it. We have trian to ario all the matin facts in remed to thane wormos as fally as mblete will Hlow.

## COMMENTS FROM THE PEOPLE
















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 Naw


CLEMATIS LANEGUINOSA CANDIDA


## 



The flowers, when noming.
der,
Thes
a hand
a bandsome climbine vimportint itenn for consideratiom. Theboom th be adpreciat
future, as euth year sems to
and imgroved yatenties.

The late spran will enable many who have
delayed sowher seds and selling ent plants th
dosunow. No time has buen lost, for the weathe hats been tou cold to pable any hut the hardiest phats to malorany gowth. Summer howning
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 moble ts mot ofjereciel to. Thinning

C CENTS EAME fOR BEDDING PIGNTS. E. A. NINON © GON. CHATtANOOGA, TEHK.

## Hers moSES <br> thomas í. harolo, Kingston, Somerset do., Maryland. <br> GLEMATIS LANEGUINSSA CANODAA. <br>  <br> CARNATIONPINKS




THOS. F. SEAL, chesith Cutive
WILD FLOWERS $\begin{gathered}\text { For Currin } \\ \text { Orchive }\end{gathered}$ Ferna Alpinc.

0RCEITDE AnIERICA. Cheapas Good Roses.



## THE NEW RED TEA ROSE, WILLIAM FRANCIS BENNETT

Plants will be rendy for delivery on and after March 1 ith. 1sw. For terins please address
HARDY PLANTS and BuIEBS.
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shades．If you get the dry bulles tha hen waty hurt them is to fill a shallow han wath shatg Korp the hox in a warn pare，amd when in peaty，sandy soil，minad be parcoted in
and shlfting the plants have bern well pinthed， well axposed to the air and fre⿻口卄日复 watered，they shond then be at liherty to

Fur the artieth on the ${ }^{\text {a }}$ Now Intuble Mlgnon

tiand the wook of it is offered for sale for the

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## Live Srogk.

## BUTTER-MAKING


 eternal vixilathee on these three rulo- hathe al the laws and by-laws of hothor-making : abl the
 nal vigilane may make a fair atome ol bulter while the hest row in the wordd, fot on the here
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TESTING THE MILK AT CREAMERIES





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 two coms give milk of the *atme ghality, hat lha

 for good milk that is atlowed for llat of a preatror
 shink rantmi prombur bu:althy milk, and tho
 indined to inabirt tyramos to the ramory
 the fants ascribud to the "ratmery manaters wally belome to the rarelese dairymon whor do
wot pay ationtion to the guality of the matk from their eows. It may be slated, also, hat even the "ream will not always problace the sitme athonant at butter. It virbis aceromine on the pasture amd
 dairymen lomin to realize that they cemmot
 will fimi that dafrying is profitablo aconeding for the skill of the datryman, and the management of his berd.

## EARN-YARD MANAGEMENT






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## KEEP A FEW PIGS

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To makt a stome flow for hug-pens, take larem, flat momos arm las them that sitle down on the Ahor, then till up all small pates thetwonthe -thomes with smaller once, and eroment all light.




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 We want Finntulark intorit.

lleadigarters for all articles used by horn'm.n, whirk on the Horse, horse pic turw, rothd, track, and racing pictures; medrumes and horap frood- of evers de-
seriptum. Pripe hat of 50 articles needed

HERO CUERNSEYS AND JERSEYS.



## This newly-patented Leath- ef and metal combined <br> et and is a rembined Sill confort io nilr



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MCUBATOPS:5



## WR PHEPOULTRY RAISEA



## Auger Egc Case. <br> TATENTEI' JITLJ, Issi.



 1114 have the Richmond hins" and Impromed fasten-
 Which uped constanf rphatrentint als have all other Fisg Chsas. Also make for order small sizes to shipeges


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hich class poultry ano piceons

## GREFFFIELD PCULTRY YARDS.

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ECCSS Bive R1preraltint



T. WALTER \& SOHS, Wet wime



 Aduresm J. 1.. MIVIRIG. Cínmamincon, N. J.


厅HE 万OUSEHOLD．
＂The manir of latushter，a oonfall of mirth
Flath－ Fluth bedally mat lier the fat
Croswnodl wh1h tiving



## AIR AND SUN BATH．

Nom thatt tla，d．1．－yrown long and warm，it is
 wa＊ling，and give thetn along lay xair and sum bath 137 a somal strong breeze theep is so swoet and rofresbing in a well－airell bed，and won many meglew it，botend throwing open a window fur
anhourn two in the morning betoremaking up． That is important，but it is not cuought．Thisel bed－cobrerings are ereat almorbents，amel thenthat thes mas hot look at sulloud as your delicate as that dores a washing．

Will the day ever come when the anciont feather－betis of our grandmothers will be bitery y banished trom eor homess，when it will bevornted no prize for the little granddanghtar to bave
handed down to her＊ramdmais bust fiather－ bed，＂and all its belongings．I kam ：house that hulds a baker＂s dozen of than valuable rullos of the dark afres，and $I$ im conflent that mome of the gees．from whose breasts 1 luene leathers wore pluclzed．＇fualted ：t the close of the last centary． It is a most remarkable husum for fumerals．

A thousamd times heathior and sweeter，is a good straw bed，whath you can changer often and


When it comes quiltwasbing time，hire the
 are equal th sulh heary drafte undess thwy are sperjally tratad to them．Every man to his bro－ fession seems to be the rubte for our thates，and it is，perhaps，as well to fall into line atoordhas to our houstrwives to do thedr own spinnallog alld weaving，or cven knltimg，though their grimd－ mothers did all thas and more．The same ruke will apply to many other klads of work．

## AS BEAUTIFUL AS YOU CAN

Now in the pleaxant springtime，when fo much is done in the way of repairing athe refreshing our homes，it is agosil timat to stury woll the ef－ feet of eolor upon atar minds athd feelings．Thata conscionsly，but very stealily and surely

A manufarturer whe employed many upera－ tors，found that the acerajeants of ance rown were bealthy and chestrul，whlle those of atoother，cn－ gaged in the same husimess，and apparently with all the advalltime lumseximel by those in the other part，were melablumy，mophong，and often complained of beaditum and other \｛lls．The only difference he could so．was that the walls of the healthy room were white and the uther stained With yclow oxhre． 110 had the latter $e^{-h}$ anged to almost at once．The girls became mote elieertul， and consequ＊ntly more henlthy
To llye in a remm stained with gellow ochre is enough to cast a glomm over any one＇s subrits． There may he callous natures that can stand it without being depressed，but that provers nothing with resard th the rule．Few penple have jron－ clad sensibilition，for whith we may well be thankful．

Treat yousself to a pretty wall－paper while you are buying，and let it rejoice your eves every day as you look upon it．I knew a lady who had such a paper．Iler son brought it home from the city，but she aboueted to putting it on lecalase it was＂too protty＂for her living－romm．I askeal her if it was two light or too expensitce．＂No， ways had homely paper on her walls，and relt that she must．So she lad aside the pretty rolls which would have brought sunshine into her home，and chose some striped sort that she felt was good enough for every day．
The dear children especially are greatly in－ fluenced by these little home appointments．A child brought up in a sunny，tasteful home will show it，as well as the lad who comes from a home of disorder and squalor．Even an infant＇s
eye catches an impression from all its surround－ lngs，and we can nover know how lasthis and lmportant the improssions are，or hom mach they do toward forming the future ebaracter．

A BIT OF OUT－DOOR LIFE IN THE SICK－ROOM
A very pretty du－vicefor in invalides rom，was ＂ne whima a lady sidw in Jackmenville，Florida．
 arrabsed as mumh like hature as lumable．Nove Fheth were fantened a few dry bratuelns，to which Were edinging long festorns of Florida mows，
which allmost tonched the tops of the grames． Within，all looked ais dreary and dark an a bit on forest or mwathl．To make the picture pertiot Within the shatow－fund a bedutiful white herom
 tlight．

Onw cin inngine how restful to the eses af： Whary invalid would be surh a life－like picture and how many ploasant thoughts could cluster ahout it．Sumathines similar，thragh of at difler nt surt．is ruluta whthan here reteln of many of our buiglat buse and girls，abled would make prettior
 （he mir next tal，hawn wow muct crizy work or A friend what was recovering from a long ill－
 any bunde
 fif turf amd lofolifht it for her on atray and lut arr wit bey the table and explore it and analyze it With such simples implements ats the clase


 wath har mbatent hrother in the evening．It is chan＂aile haw rathoh wne who hats＂learned to －laras yruw ruay，stromer amd hajpy over this

 and mental shanhludidy much more．When you tave lmaturel and invilid to think of something



## SAVING MOTHER．

Mother had run over to a malghhor＇s to kep ：




Who of $y$ an lne－wonld like totry and satu
 the usked．
 do youl mean，dunt lizat？Just tell us，athat

 Lown a nice．sutt，Jomght phocu－hion bow had
 ously but she went on tw reanark．＂Y＇uns．＂this needie，thrcaled with blite threstl，amd this one With white：

Now．whokbows how to sew un a button？＂ ＂I do；everylordy dotes，＂sald damia．，＂if they

I think wutus．＂said Aunt Liza．＂Now，loow many of grou ever sewed on a button？

There was atherne．＂1 thought as much，＂ said auntie，sulemmly Nhisime hor head，＂yet all boses are fanous for pulling then wfr unless they are sewed an with wires．It is a gleat saving ot motbers when boy－learn to sew on their chw huttons the tirst minute they can，after leming them．And now，I come back to the needles． They will ke always handy if gou will put them back when through with them，and it takes but minnote to threal is medede when the atom ls nut．Who will try this ripring to do so much toward kecping himatelf in repair？
＂I Fill，and $l$ ，and $I$ ，＂said all of the three．
Grood boys：and when son come to think of st， Ahere will be many amother little thing of at simi－ lar kind that fou cath do to help mother． Thoughtlessness wastus more nothers every year than you can comot．How easy for a boy to throw open his window in the morning and lay ofl his ledelothes carefully on chairs to air，and all that saves mother．Three lads like you could
clear mother＂s supper table in five minutes，and set things all wrdurly in their places，（harley
might file tha dirty dinhes and take tham to the
 Hg shelf，：me lows set into the pantry what goes there．Huw mang meps that wenld sabe tor mother＇s tired fect ait oleht．Shu would wish ur the dishes with a happy heart，thinking liove kind and helprul ber dear loses had grown
lou wall see，after this．＂said luy，modding hifs head dectidedly．＂Mother won＇t have to look up har kindlings amothur maming some
 little talk hat luren ettertual in waking ult the ＂onsciente of her＂little athetionee and sho was mome pleased srill，to find that the eflect was lasting．

## RECIPES．

Rameby fur sore Throdt．－Take 1 table－ phondidul of Haxseed．bril fiftern minutes，with －tupen water，thenstrain，add 1 table sponful will answer）．This mixture will form a soft fells．Should be taken wheu cold，one table－ poonful every ten minuter．
 af each，put them in a decp basim，poum handitul of boiling water，and place on bhok of stone． Where it should simmer fir ont－latit bowr．The

A VERY NICE liesert．－Ainak
2 （chps of bread or rackers in water，squeeze dry irnl the solks of mon to taste，fir woll，thon add the whites of －hous．Fry in small wake in het lard or
 econmes stitt．Add 2 tablespomfule of urepared mustard，af pinch or salt and pepper， 3 tablesporon－ fuls of rimestr．Have realy is bumehes of celery
chemped fint，washed．and will drained，then phenped fime whose sabce user the telery．
ETRAWBERMY WATER．－To every pound of arthen linh；stir ucaslonally matil well dis anlved ：strain，bottle，and cork well．This keeps many years，and makes agood drink for warm Wetithér．
Buidein A mon with satce．－silice 1 onion in ohmar watro sadd a lattle salt，but $\ln 3$ poumds of let them simamer for thre＂－quart＋rs of an hour
 allespoonfol of flour；when finht－hrown add gart of the water which the ifish has been boiled on until it forms a nire grasy；thas shonld boll up a fow minutes，then remose from the tire；
flir ln biskily a well－hatom eqg，pour the gravy ver the fish；set away to wool．This dish should ivestan ande flabor．

Brown Prean－f large cups sweet skimmed

 thes Indian and lage mfal：bake ons hour a
half in astue oven，then stean two hours．
l＇RESGED lifeff．－Take a knoekle bonc of heet rom just binlow that round steak．Alter it in atwed，lut int the stow pan，cover with eold Water，and wo mh the bank of the store．Let lt Tho water will have dried away a dreat deal． wer and walt．laturn it torbe grawy hoft in the atthe，and when sulticonstly arited atway put in When whll it can be cut into nice bises for the lable
FRESH l＇ORK AND I＊TATOES．－Take a roast of nork，prinkle it with saist and salt，and put into the oven tor roast．Twobowrs before dinner have
prepared enough potatons for the family ；put bem in the dripping pan umber the pork；when

1BAKF゙D AFPLF PCIMING．－Fill an earthen pud－ ding－dish with partal and iuartered apples．Pre－ hare a＂rust of sweet ereans，a very little soda and salt．Cower the apples，and put them in to
hake one hour hefore dimor．It can be eaten with sugar or any kind of pudding－sauce．
BREAKFAST CAKES． 1 cup sour mllk， 1 cup sour erean，one－half cup sugar， 2 small teasponn－ fuls soda，one－half eup eurrants，well Washed， litte calt，flour enongh to roll thin．Cut with
the bisiult－ruttor，and bake in a quick oven．To be haten eold．
ENGLISH MUFFINS，－Take veast－hread dongh akes，as large as at small breakfast bate．Bake on a hot griddle，turning them over unde．When done split them open and butter．
Mrs．F．M．F．W．

## 700 ALBUM VERSES．

Prose suitable for wrining inoice Gems of Poetry and


## ODDS AND ENDS

Mr. Beecher says that religion that is notmixed
With polities and the business of life, is abont as
useful as yeast that is never mixed with flour,
Fritters.--For frittering away tinu, nothing ean suppass noyel reading, silly monversation

AGOOD Bullding Spot,-A Comentichat farmer Who had set out an elaborate marceront in hid strawberry-patch, was disqusted to find a pair of robins raising a brood ander its hat brim.

How high "a lirense" would a man need to pay for the privilege of kecping his back-yard well stocked with rattlesnakes, of for keeping it few tigers for pets ther

Good Words for Acting Chabades.-Arrow root. Bonfire. Book-worm. Belfry. Earrings. Handsome. Indolent. Nechlace. Seatinel. Tennyson. Watchman.

Midas, in ameitent fable, was able by his touch to turn any thing into gold. Times are changed now; touch a man with gold and be tarns intu anything.
Well Known wompn-Allie Bama, callie Fornia, Flori Lay, Ida foe, Lomise Sitana, Mary Land, Minnie Sota, Mis sonri, Mrs. Sippi, 'Eennie seu.

Wisdom and Happiness.-There is this differ ence between wisdom and happiness. He wha thinks himself the happiest man, really is; but ho who thinks himself the wlsest, is generally the greatest fool.

For Repairing Family Jars.-Mutual love well stirred with forbearance, mixed with radiness to forgive and general good temper, is an admirable cement. It is well to set the tamily jars on the shelf at once.

One Way to Pay a Debt.-"Yes," sald Deaeon Lee, "let us vote to have a supper and cat ourselves rich. First we will buy some fuod and give $1 t$ to the charch. Then we will buy it
back again. Then we will eat it up and the ehureh debt will be paid.

The rmallest post office in the world is kept in a barrel, fastened by an Iron chain to the outermost rock overhanging the Straits of Magellan. It is opened by every sbip that passus through the Straits; either to deposit letters, or to take them out and speed then on their way. It keeps itself, and asks no salary.

## WEATHER WISDOM.

When the weather is wel, we must not fret; When the weather is dry, we must not cry: When the weather is cold, we must not scold; But be thankful logether, whatever the weather

It is a mistake to expect to recieve weleome hospitality, words of cheer, and hip over hard plaees in life, in return for cold selfishmess, which eares for nothing but self. It is painful not to meet with the kindness and affection that you
think is yours by right, But yon cannot extort think is yours by right. But y
friendship with a cocked pistol.

A Jolly Life, - What a jolly life insects must generally lead! Think what it mast be tolodge In alily: Fancy the fun of tueking yonrself op for the night in the folds of a rose, rocked to sleep by the summer wind, and when yon awake, nothing to do but wash yourself in a perfomed dew-drop, and fall to and eat your bed-clothes!

Provided For.-I have always noticed that when a poor, shiftless, good-for-nothing man is sent into the world, some aetiye, go-ahead, little woman is usually fastened to him, to tow him along, and keep his head above water. It is for the best, of course. What would the fellow do withont her? At the same time, she somatimes finds it a little hard.

A Neglected Hammer. - The canse of a leak In a relief light-boat, was found to have been a bammer, which was probably left in the bottom when the vessel was bailt, thirteen years before, It had, by the continual motion, worn through planking and keel to the eopper plating, which alone kept the vessel from sinking. Neglected hammers on a farmer's premises, eause a good many leaks.

Thmmed lond.-A florist in New Fork, han on exhibitionsome fine specimentson boxestrimmed anmether at dog, and the old bruin himself. it is easily done, ho sibs, when mo knowshow. The plant is enclosed in a wire " conp," so to speak shaned like the whect, and ats it grows, all the ontaide twigs are closely aliphed awiay, until it and there is jour bear, dog, or cow

A Naknow Esiape, One day a litte lad in ©w Lundon fell dawn an embankment into a mill stremo and wan hurriet abong like a chip on the water, straght tu the abd mill whed. It wa thougth his Drainn would smrely tee danhed oat but the shot under it like at fixh, and rontinued bis perikons jounay, whing under a bridge and on into a long women trongh which surplied an organ factory. Half way down the trough be ctuent at a joist and hanwon umtil rescued. It first words, after being fort in a llane of safety were, "wbere's my' top

Bismarce*s Plath Fog.-Prince Binmarck has a karge, lank, hatk dog, which is his almost comstant companion. Whan he goes to the Emperor the dog knows it by the chothes he wears, and bever attempta to acomapaly him. When he goes to the kichstas, the l'rince usually walks and the dor aseompanies hinn to the park gate,
There the statesman turns, and raising his hat politely says, "Reichatag," and the doy drops hi bead and tail, ant turns back relurtantly. Wha shall accuse Prince Bismarek of a want of pulite ness?
A farmer cut down a boundary trec which a nelghbor clamed. The neightor proseruted him
 and year to year, mutll fimally it was decided for the prosedutor. The sime day he made over a casts. Hobrilus and lumblesa bis sole eonsolittion was the wha comfort to be got from feeling 'l've beat him

Presence he Mindi- 1 buihler one day asemd ed to the top of a tall churn spire in Anhurn to do some work. suldenly he grew sick and giddy. He was aboue one bundred and fifty
 hack on thi. narrow band, abll where he lay for athalf-hour, ats near ats hat eond judgu swinging in boundless ether. Crathally the nat growlor again steady in nerve he finisbed the growner again stedy in nerve he finished the
work.

Cot Content.-An old lady whose son was sentenced to ton yadrsimprisonment was greatly arprised and distressed over the sentence, she ent called upon to expestulate, and stepped up Judge l'se known John a sight longer than yon have, and I karow la' won't be eontented there a Werk." lat John had torserve ten years with no benly to atis what degree of rontentment he was atble to enjog:

A cult in the Whil.- Twolads were left alone
 nungh and but how to lift han ulat was the fazzas. There was a dramity of straw hear, and the nine-ytarald boy suggented that they throw it in by the armful until the coll could reach the tons. They tried this plan, and the straw was tramped down as last an supplicel, and at length their pet walked out on straw bail.

Vast beds of phosphatic rock have been discovred in Misissipyi, and the discovery will be a bom to the agrimultural interests of the kouth and West. Farming lands are temoning rapidy exhaustod of their phosphates, and they are the most expmsive part of all manares to replace. The supply of bunes, which once constituted alone the supply, is now wholly inadequate to the demand, and remorse must be had to mineral phosphates, such as are fomed in sonth carmina, and are now reported to be discovered in Missisisiph. The disessery what be an important ane to the vast agricultural interest of the United states.

## NIGHT ON THE FARM.

Now all clucked home to thelr feather beds, Are tha velvety ehlekn of the downy heads, In the old loutch style with the beds above, All under the wings of a hovering love, But a few chinked in, as flump as wrens, Areund the edge of the ruffled hens.
With nose in the grass the dog keeps guard, With ling-drawn breaths in the uld farm yard, The cattle stand on the scattered straw, And cuase the swing of the ander jaw.

And everywhere the pillows fair,
Are printed with heads of tumbled hair, Time walks the house with a clock-tiek tread, Without and within the farm is abed


400 BUSHELS TO THE ACRE AS A FIELD CROP.



HAVE YOU AM ACRE YOU INTEND TO PLANT IN POATOES?
 jecta h
The st
one
men $H E R D T I M E S$ for us to make ev.
hich is here placed.
lums protic Crithang tell.
Compare this
ond

## VOI. IV., NO. IX.

 bert strent, Phiminthier, Irmon. It is mailed ta
 mouth premerting dut at iswer. The sutherigtion price is and wets u? ?

## CONTENTS OF THIS NUMBER

Page 1.- Portrat of twan Withers. Hurime Taht Fare




Page B.-Dut Flowar biamon

Pagen A.-Live slack.



Pase 11.-OAds and Emb









## EDIMOPIAIS (GOLIHADNT.















 matter wown whate with walls wink ! matan



 Is the sati with potatore plant then on weil
 sutherimes of sed. whirh batiow with the variety of meed.
 has lecome warm and danser from lat. tront is

 rowed in cishtor tom dixsatherbantines. whomat fear of danaging the gomar phants by the orrat tion.

The garden should mat ber neslewtal at this time.
Some carly kind of sweat com may he hanted long before it wond te sate to blant tichd eome Shorald a late frost injure it, hot little is low, and the patch can be replanted at ince.

There is 100 buthe varicty of sweet "orn than Black Mexican, None can rompary with it in tenderness; try it. Reprated plantinge of this may be made. The best varicty for late use is Stuwell's Everreen.
Alsomake repeated plantings of lettuce, radish, peas, cathage, ete

Voung hoys and colts should not he put to very hard work. We kunw many young men suffer ing with some of the infirmities of of age in consequan of having been fored tw exert all their strength in punting and linting in early
gouth. Be carfol with gour busc. Thes neen amploument, hut it musi be of a lisht nature.
 Amil thus it is alwo with young colts.
lanture timb hat ambenain. Prepare your
 mot turn ont tor patime as lang on the grase is thert. Th mot turn stom into new and rank Fher, when wot with hew. the net latae them

 inte the pasture. Ferf and forl them in the -tald. Then they will wor wate their streneth
 their arrame: memand.



 howe will not wime th som if som lose your


 then withome in the sthe fiehl, wir is it priti-

 thernclar.




 11

















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 hi. hat knew how to treat hin thens: lt in wer ablan that we have son a sonthem oredaral that was not coneret with a semwth of worls

 gromed. and :s, hiddon is the wem wrowth Trepe have aner-or hardly eror-heen trimmen Atany of the liamehes were boken, :and left where ther felll. It is a pertert dhates, Many farmers do nut wish to take oft the surerfloms limhe, for fear of losing the fruit that will grow on them. Inferior fruit must be the result of this fitseronoms.
The neglect to trim the young trees, and the lark of the knowledge, "how to do it." whith is ery weneral, is at the inttom of all this misehied. If som have vonne trew one or two years from the setting, do not fall th trim them judiciously. and in surh m:mmer. that they will develop into a desirathe shap. Not more than thren or tomi wranches shombl le left on the body. and these higher or lower, according as you wish the tops of your trees high or low
Alwayscultivate a young orchard. Afterwards seed to clover or other grasses, and pasture with sheep or hogs.

We find amothor thing in the Niddh Mthantic tatme whirh strikis on at wry rutans. In suite of all we dimatio alsamber that theme Mrate hax





 and Philadeldhamathert




 hold gand in this aise. All mils Which comsist

 with limb, ashom, kainit, sathd, :and blosplotits










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 interastal inthivarat.



 The firnt three af thace whald we buw ammande are Ausum. Shof-tha byeeds, methorls of ares. elippines, with in review of the rifors of wool, ute. It will lar illustrited with a mumber of fimerots, and rentain more usefal infomation than many hook - drvoted entirely to the subject.

We are asked to name a good firtilizer for roses. Soot is to tee remmmondeal as :l tipdressing. For roses in flower-puts. we know of mothing better than a maldo of moss. Whieh was sprinkled with Fond for Flowers lawker's or bone-dust. A fert drops of ammonia mixed With the water used for them is also gond. Watch the aphis on roses and verbenas. Exposure to tobacen smoke will kill the pes:.

## THE FARM ÀND GARDEN

GLIPPINGS.

## It isenur desut to mutie these so full and varten fhut o werg  weth all the leading pubtications.

From "Farmers' Lewien,", Chirago, Ill.
Fronn March 1st, 1884, ic Murch 1st, 1885, the number of hogs purked in Chicago was $4,228,202$, being 316,060 more than in the previmus year. We have not at hand the figores showding, in addition to these, the number received here and shipped to the eastern mathets or consumed in the city retail trade. Taking the nomber packed as given abow, the following calculalions will be of interest: It formed in double lines, allowing five hogs tu the rod in each, thay wotald firm in dontle con umm, bat miles in length, or nexdy equal to the distane from Omabat to New York. Allowing an average of ro ponnds, thene total weight wond he sis, top tons. Thi would freight 52, hig cars at ton tond each. Allowing 33 feet to fach car, this womld make a continumestring of
 per 100 pounds, live weight, the vir value amomets to the
 loast, one of his prime manisters.

## From "Floridis Ilesuateh." <br> CONCRETE WALKS.

An engineer tells how to makw a cement or concrete walk requiting aog great skitl in profiarng materials, These are water, lime, and grasel ar awher, or buth. Th gravel and ashes arp put in a lotap and wotterl. Ont barrel of the wathr lime is maxed with aharg. chata, fry sand, bejng shovelfoll wer bark and forth several hmes te get a thorough mixtme. A portion is thrn mix.el wheth watprinto a thin, swat murtar, and five parte of the wet gravel or ashesare woll mixed wath it, ro that every fragmont is coated whth the combming mortar. This is important for obviotis seasons, This concrete cespereth on the graded watk and beaten down with arammer mon til the moisture gathers on the shriare come of the
dry sam or chment is then siatherd over the surface to athsorb the moisture ame than surtare is sumothal over with a plank rublur having aslophes hande to nork it back and forth. In a fow days this is hation and beromens harder with time. By makine dovivicns of thiastripe of wood or tarred paper, the cument may be laiddown in
 Walks tha blorke may be volorit ty mixing the finish coat with brown or graty or other entors alternately.

## From " Chicafo Express.

## HOW DYNAMITE IS MADE

The most powerful engine of destrnction ever discovered is preparted in a manner so marvelously emsy that the wonder is mankind have not avalled themselves of th long ago. Fynamite, from the fireek word dinnamis, meaning power, is simply nitro-glyberine. The glycerine is a product of animat fat, usually of hog'slard. Take one pound of nitric and two poumeds of Bulphuricacid, and mix thoronghly. The acids must be of full strengit and purity. The mixture will cost 3 , ceats a pound. Jout seven pounds of it into an earthen Jar, and pour uponit, drop by drop, one pound of common crude glyeprine, which ran be got for twelve cents. Stir with a glasy rod, and kerp the jar in ice or
salt and ice, or the thang will "go off" bedore yon are ready for it. The sulphuric acid does not enter as a constituent into the explosive, hat serves to facilitate the chemical union of the other ingredients. When thr cbemical combinatiou is complete, the uitro-glycerin will be found settled to the bottom, whille water and oil of vitriol fioat on top. These are poured off, and the nitroglycerine is thorougbly washed, to free it from any remaining acids. It is then complete, a yellowish, sticky, oily mass, which will "go off" almost for the looking at it. It must be toned down before it can be ased. This is done by mixing with it a rough powder as an absorbent-either drled sawdust or old tanhark, or pulverized silica. The substance most commonly used for this purpose, howeser, is a vegetable earth from Germany, which absorbs and holds three times its weight of the explosive. The dyamite ot commerce is not full strength, as is would be too dangerous. Commonly it contains forty per cent, nitro-glycerine to sixty of thr earth. In this state, as an explosive, it is four mad one-balf times ats powerfis as gumpowder.

## Prof. Burrils, in "Pratrie Furner."

## POTATO SCAB.

the cauge of this affer tion of the potato not

## WELL UEFINED

Tbe cause of the injury called "scab" upon the potat has aot been well worked ont, and it camot be asserted as certaioly known. Probably several diseases are included under this common name. But a negative point, which may be considered thoroughly settled, is
that inmots athe the anthors of the misphef. Them
is, to be sure, ahapearance of insect work, hat mothor Whatever has bith oberved to prove that they have anchbite to to with the malady, while mathy tates do orne 11. Thi risease bas feen athrobatil to bath worms, but in this agam we lave only guen-work, and he megative evidence is quate strong. one or mor suecies of fungi have been accerduted with deatruchwe work. yot little is really known about these at agents rather than results. A tongus nameti filuzactomat molani is found on potatoes, leaving eathrr suggly or m groups, litte pustules in the skin, making a peculiat roughnutsi, which is called a scab by many. This, hom evar, is certainly dimerent from the eorrobed spots 1 which the name is more appropriately applied
If any one will take the tromble to lowk at the year-old whes of most trues and shrubs, he will retadily find in the bark little lifhteroloreal, rough suechs. Thase are Fomson to botanists as lentieles. and romenst of cork-like formations, the extls of which stron lose the power of absorbing water, and of course dias. They are, however bomal wrowthe, and ammot be classen as disease fro locts. They likewise oecur on the putato tuber, whind
it worth the while to remember, is at traw brach of bo stom. and in this requat is like ordinaty ferial brathes. bat it is clamod that under sombe circumb stances thour lentioles are beghming jublate of rapture and deraty in the skin, athof that the timal result of thas is the sath, without the intervention of any homb






 polato, and that thew is nothang of a comtations charat
 are of the skin of differant variethes, is quate emongh to atronme for the facts noted in the letter of inquiry.

## From "Journal of Pragmeses

## ABOUT FILES.

How many of our readers know that the file is first buntioned in thas Bible (ane 1 samuel, xiti, 21), beaty
 ears litfore Christ.
The blanks from which filde aremande ate first formed by hatksaths, quickly. They are then matule very suft nd ghond to shape. In this shape they are given tothe Mitar, who suts astride a worlent beneh alarl bas hefore
 a lat a atripof perntel : wh tha ntrip of pewter is platom Hie blank. with the tang or tall toward the entter.
Over the bathk, and patsinig tuder the feret of the operator, is aton stather strap, for the purpose of bolding the blank in position. In tha hand of the cutter is a short, stom chisel, which he places in position on the point of the blank, the top lenting from ham at and angle of twelve to fourteen degrees. With athersy hammar the first blow is miruck, and the tirst burr frimed on the
blank. The chasel is now drawn forward and again unhed the chasel is now drawn forward and agan Hischserves as a he whole length of file is cut.
The object of holding the chisel at an angle from you is of furm the burr in the shape of a suw tooth, and not lite $V$, which would be the shape if held perpendicularly.
The distance b+twen the feeth is owing to the force of the blow. 'lowos, a hard how makes a coarke file and a ght blow makes a fine one.
Double cut files are made hy making a second cut, simibar to the first, mly the blow is lighter and the position of the chisel is changed to cot accoss the first. row.
To harden. they are coated with a mixture of four, salt brine, and charcotl dust, to prevent the teeth from burning.
They are the placed in a bath of meited lead, one at a fime, antil they become red-hot. They are then withdrawn and a blow stluck with a lead hanmer, the file being laid on a pewter block to straighten it, it bent
The object of striking it is to free it of burnt scales. It now phanged into cold salt brine to temp+r.
The tangs now have to be drawn and the file sconred by brushing with fine sand, after which they are washed in lime water and then thoroughly washed and dried. rubbed witb turpentine and oil, and are coosidered finished.

## From "Joseph's" book. MONEY IN POTATOES.

Lesson 15.-A sufferency of sped is the bresis, the conditio sine qua non of orr 400 bushel crop on common form soil.
The amomit of seed influences the yield fully as much if not more, than iny other single tbing or circumstance, degrea of fertility not excepted.
Let us look at the theorntical side of the question. The chief fumction of the foliage is of a digestive charac r. The starage of a considerable amount of palp in is utterly itie accumilation of fiesh and fat inamimal.
untess the disestive myans are fally devaromand an wrfect working order. Yom matht makr hatht ot the athorptive paryers ot the fohage and feeders the the airif of the bratits derawed trom then servacts as muleb

 roduct in thesh or taber, mun be the mevitathle collise
 mperfeet devrlopmornt of the digentive manhmery This intluentro of the amonnt of foliatse upan the sifla os fully establebhed by the eqmparabse yiedds of parly and late, fhat in of duall (lew tup) alld tall varimite Whe batter wat-g whing the former, graterally, in atout the monartion of thetr tops.
 more throtly urll be the groadh of the leghe.
How as the desired luxuriatice of the fultane, and pat humarly its early duvelomment to bu oftamma" diy arpeting Nathre's nafbod of sevding. If wo waut the rabe at tine calf we b+t han suck all the fresb milk he wants. No substatute will fill the plate of that diat

 is well as the turd which Nathre intembat for ithathy mother's milk. The amalogy boturath these

 plam in cheldapht quanty tosufport the yobleg erowth (1) sumply it with at harge nunther of roust, :atil thas to





 hetarital glewth of fohage, it not at wakly condition
 natural donsaghenco, is the almost sure penalty of his comman aror. 'athe single ofe systom is ther root hog-atherlan. Beprated aplliationas of lighal nanare In the +arly stages of prowth, or frequent wans soaking throngh a mannertillod monl, way sometinns counterbatande the thl ethiots of light seroling, but hoavy speding is the only method applicable to general field colture.

## T. F. Butior in "Heftily Ibes

## MY CELERY HOUSE

I have used the home fur then years for storing and
 ive dollars' worth from rot or other catises. The plathts have beon well blanched, criop, aml whthout rust or
arthy Havor. I have no trenems to dig, mo banking for winter, and less rathong during grow (h, My stock ash be finspacted any timst, tikell ont in a ood or ratim or et might, cleaned, washed, amd packed for market in the ame phap. Colery unce handled can here be blandied in three weeks, and the temperature can be kept cool and damp, to elusure the best quality.
The cellar, sixteen by forty feet, and threw feet drep has at wall righteen inches thick, and rising a foot above gromul, upon whilh plates for rafters are bolted to ketp the ronf from spreadug. Inside the house is four fuet high at the eaves and eleven at the peak. The ends are Weather-boarded on both sides of silx-inch studs, and filled in with sawdust, which is also packed hetween the roof and a llning of rough boards nailed on the lower side of the rafters. This is frost-proof, and protecta agalnst sudden changes. A ventilator, ten inches wide. abich extenas the entire lenth of the roof at the peak, with lifting lid, worked by a lever inslde, admits air when needed, and allows the excape of any heat that aay generate from the celery, A door at each end, lined and packed, a small window over each to admit light, and steps to get down with, complete the house, costing about 8200 .
In putting away the celery, posts are set in the gronnd en meches apart, begmning at each side of the end of the house and coming toward the centre which givas seven to the side, leaving a passage-wat two feet wide through the entire length of the bullaing. Three sets of posts on one side alk four on the other will just bult sixteen-feet hoards, two and one-balf leagths on one side and two lengtbs on the other, with a space elght feet square for a washing-tank fand room to prepare for market. Beginning next to the wall, we nall a bard one foot wite to the posta, so that the tops of the celary are even with the top of the hoard, Jeaving a space of from four to six inches between the bottom of the board and the ground, throngh which one hand can be thrnst to pack the roots, while the other bolds the tops of tho celery above. We have sumie loose, rich soil to throw over the roots, but not on the stalks After the trench or box is full from end to end, with a hose throwing it small stream, we wet athl sttth the soil aronnd the roots, which form new rootlets in a few days. We mper haudle when wet or damp from any cause, neither allow the stalks to be wet wheu watering tbe soil around the roats.
After the house bas been flled about flye days care must he taken to give promur ventilation at the top, as there will bee at vionent heat created by the mass of celery so packed, and unlens that heat is allowed vent, rot will follow. After this heat subsides thare will be no further trouble or danger thongh it is hest to venti late freely in warm weatber, but alwass from the top.

## GORRESPONDENGE




## rould

means on knowirt for nuch the plcked up on the
anllmited range
I still hold that the farmor-and partionlarly In the more couthern states-has all the forilitits pumbers (hatched and reared with hens) whthout much trouble and
they command very paying prices in the ulty 1t, and pive them a share in the procerde. He will somll see gratifyins rosulta. Josepli.

Ella Wllson, of Pettis County, Mo., a litile girl 10 years of age, sends us a wall written letter, and a club of 30 subseribers. This is the kind of a Joung lady we like. We wish we had more of them. loung ladies do not let her beat Fou. We have room for more, and shall always be glad to hear from our young friends.
J. R. Wrathour, Jackson, Tennessee, asks for the best cement for cisterns, cost, and how to use 1t, proportion of sind, etc. Answer-The Englist Portland cement is best, but that of Rome \& Rosendale, New York, is nearly as goorl, and much cheaper. The cost varies with the freight. In New York it is very low, hut is increased by the freight when transported to remote points. If e gave full particulars for use in February number.

A subscriber, Marthoville, La., asks: Can machinery suitable for mill for ginning cotton be purchased on time? Answer-Wethink it can, If good security is given. It would be better to get a man with capital to set up a gln near you and give him all the cotton in your vicinity
G. W. Steln, M. D., Alhambra Springs, Montana, asks where to get the genuine Wealthy apple. Answer: Write to Peter M. Gldeon, Excelslor, Minn., who ls the originator of the apple.

## E. F. Pemmington, Biskingrid.

 will White Iorhorns and!$\square$ Lieht fight

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FARMS , man


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$\mathbf{\$ 5 . 5 0}$. The pump has altachmenis for making 3 complete and dissinict machines. Is made of brass, wlll 1 hrow a good 81 ream of pumps. Address P. (..JEWIS. CATSKIIL. N. V.

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## бhe Poulhtry Tiard.

## GROWTH OF YOUNG CHICKS.



## POULTRY SCRATCHINGS

 hem than eolth.

## 

 GidNE.ss.-Hatch them under larms, and keethem dry. Feed the same as for younc turkey may be fed the same as young chicks.
Meat.-If you canmot precure meat, use hlmo from the slanghter homse, by beriling it
of rorn meal and oat meal until the mase is very bil
Mating.-Avoid putting larg's, heavy cock with small hens, as damage maty be the result.
But small, active cocks may be paced with large hens. look for size in the lem, and aotivity in the cork.

GREFN Food.-If there is no grass, steam elover bay, or give chopped onions, "(top and bulbs with cabhase. Bulted turnips, potatoes or ear rots, are also excellent. Even the potato peelling may be utilized.
Feeding soft Food.-Never throw it on the ground, as gapes and cholera will in time be the result. Make small troughs, and when the bens oughly, washing them oceusiontlly
Hens Eatina Eubs.-This vice is ineuralb when once it becomes a habit. It may be pre vented, however, by constructing false bottoms to the nesta, sot that when the eqgs are deposited they will roll out of the reach of the hen.
Chicks Dying in the sinell.-This is peculiar
to the breeds that lay the dark eggs, the shell being, usually, hardur and thicker than the white ones. Sprinkle the eggs with tepid water once a batching.

Market the Chicks.-Never wait for a rise in the price of young chicks. It never comes. As soon as asparagus appears in the market, is the time when they may be sold to good advantage. When once the prices begin to decline, they go down until the "old hen" standard is reached.

-



-trips in frome hith mongh to prevent th ..... gleat
The l'thefts. - Remphbipy that araty
The l'thefts. - Remphbipy that araty
$\qquad$
pulled by haturnish and fresh supplo. It
fored, and will furnish a bountiful crop motil

ampatat bull.

1ra!mortio
MILION SWEETPOTATOPLANTS
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##  <br> EGGS <br> E

FRIENDS' PRINCIPLES EXPLAINED,


$\qquad$

## \# Goblegmon

$\qquad$




|  |
| :---: |
|  |  |

## *The Farm and Garden.

Vol. IV

## JUNE, 1885.

No. X


## THE FARMER'S HOME GARDEN By Joseph.

Slowly the returns come in,-a head of lettuce, a bunch of radiches, some green onions. How we all relish these things after having been deprived of garden "sass" for so long a time. Keep pushing, keep planting, ind do not thre of weeding. Do not neglect to make suecessive sowings of peas, letiuce, radish, early sweet corm, ete. It is still time to set out tomato and pepper plants. The latier do well on rather moist ground. In planting tomatoes, I would advise ketting the plants very deep, partleularly if they are not well ronted or have but little or no suil adhering to their roots. They will do well if almost buried ont of sight, with but the top end sticking out of the ground. The whole of the stalk will throw out roots and rontlets at once, and thus furnisb the basis for a strong growth.

## +

Strawlerries will soon begin to turn. The plants should now be listurbed as little as possible. Cultivation had hetter rease until after pieking time. Pull up the weeds among the plants by hand wr kill them with the bue, but do not strike in very deep. Strawberries need an abundance of moisture. Irrigation is uften of more importance and effective in the prorlnetion more importance and effeetive in the prome
of ane crop than manure and entivation.

By the way, if you have plenty of strawberries, would it not be well fur you to tempt your neas est neighbor whu has none and who does no few quarts of your choicest fruit? This kind of missionary work in behalf of health, comfort, and happiness is greatly needed. Your neighbor, like the true
heathen that he is, tn all probability will eat the missionaries that you 90 send him. They will then eon- gert him to your faith, ho will berries.

Professor Riley publishes Chas. H. Erwin's (Painted
Post, N. Y.) plan of kllling the the cabbage Form with ice-cold water on a hot, sunny day. The method is simple enougb, and the bome grower should try i kill the form, I am led to belleve that it may be merely stunned by tbe udden shoek, and afterwards come to life again.
beight of the bug sumon, we must consider the best ways of fighting them. When the yellow striped squash-bug is full fed and fastidions ahmost any nauseous suthstance, lime, rath dust cow dung, tobaceo, ete., will turn his stomath But when he has to go throe days without a warm netal, he will relish his " vittles" with a keen appetite, no matter what flayoring extract the rook has put in, or how it is adulterated. He will take his greens with ewtyenne forpor, salted, with kerosene, or with whatever it may be. The kerasene (coal oil) emulion I believe tu be one of the natist retialde ramedien after all. ('are munt be taken, however, thave the emalsion emmplete, by thorough ehurning, ebe the afoliation may prove fatal to the plants. Take two gallons of kernsene, one of wathr, and one-half puand of ©al. Mix and ehurn by means of a force pamp rotherwise, and for a sulficient length of time When done, the mixture should have the comsixteney of soft butter. Mix one gallon of this (soluble) substance with ten gablons of water, and spray the plants to be proternd. It is a good remedy for the eabbage worm, lice on animals, and for many other insects.

Primaroses ean be easily grown from the seed. Now is the time to now them if you want nice whinter-bloming plants. Buy a package of mixed seed for your wife, even if it is expensive.

## cutting the seed.*

From many other tests, which brought forth similar results, we will mention only our own of last neasmin, liay.
The sull selected for the test is a rich hoam, having been tased as an onion field for a number of years, and repeatedly and heavily manured with lugg and hen manure, salt, ashes, kainit, highgrade supr-phowhats, der. J゙ariety selectalEarly Gpm. Planted in drills threp feet apart, eighteenimehes apart in the drillon aemont of the hith furtility uf the senil, we fide mot expect to see a $a_{\text {as }}$ great ditfering. A quantity of
-mooth putateres

were selected
frir seed.
in $t$
heavi
four week after flanting. indicated the exact puburtion of the yold afterwards.
With yiela from whate putatones taten as 100

single eve on whole putate, 66.10

Feed end half. . . . (61.02
them end hatr. . . . 6il.00
Whole large potatoes, with-1 fow. $\%$
while l'rof Sinborn's tests show the following weremtage.

Ningle eye. . . . . 36.16
From our own tests we must infer that aven a high state of fertility of the soll, or a sufficiency of moisture during the whole stason, (which were the conditions of our soll), does not always mat terially lessen the benerits derived from heavy seeding.
A very common circhmstance bears testimony in faver of llburality in seeding. Every farmer has vecasionally eome across a self-seeded plant, grown from a $u$ hole potato whith had happened to escupe the vighant eye uf the digget, and if he Is the least observing, the unusually large yield of such a linll, often growing under unfavorable conditions-in the shade of a corn hill, or right in the midst of a potato pateh, perhaps between the ruws-can hardly have failed th attract his notice.
1rofonanmorn's exprinnce roincides with our own, and wryes to liortify our ponitinn. He says, (Bulletin 12.):-"Th" Eriowth of the tons, iu the early season, dimplayed more difference in favor of large sed than the harvest indiation, showing that a vigornas leat at the early yeriod of mutatugrowh is of muth importance. This difterence has been muted every year of the trials."

The lati is bromler, the stem stronger, and the whole whalwas. in my experinnep, much in felvance on than toln Fom small fotatom.
Incidentalis, we have mentioned sume adyantages of a mese momanioal mature, resulting tron haty sembay. The top from large swed
pieres, apmearing alowe ground fiom one to
o weehs mation than those trona single eyex soon mete, shate the grombl, retain the
 lalse ent wecols whath, dian zaving in ulleivation and in fighting the lutars. 'llarere is areat difference in the imate vigor of the varieties. Luw tops, as at rule, sield less than taller variethes. This latek of constitutional viger mant be comaturbalanced, and heavy seeding will do it. We ean hardy concelve of any combination of circumstances which might prevent a corresponding increase of yitld from heavier Eeeding with carly varieties. The peeling off of the seed end of varieties with many eyes, seems to increase the wield of large tubers considerably more than it decreases that of small tubers. With early varieties, our choice of seed, therefore, is ats follows, in the order named:
1.-Large potato, peeled at seed end. 2.-Whole large potate (t ounces or more). 3.-small potato less than tounces). 4. Seed-end half of large or medium potat!. 5.-stem-end half of large or mediam potato.
The tups of even dwarf varieties should cover the ground, and stimulation, high feeding with amonnt of fo- the ground, and stimulation, high feeding with
liage, a bout potato pulp is necessary for the purpose. Late,

## ER'S DICTIONARY FREE!

## ibers hefore hot weather, we make a mast libera

 scribers at cosc. each, we will give the sender of the eit. It bat 300 , mages, the style of type thalillustration
sorts generally do that with lighter ceeding even on eommon farm-soils yet with so vigorous a


GOLDEN OPPORTUNITIES IN THE SOUTH.

Morket Fordomingy. Tha writer stands omee more on Gouthern suil. The village from whieln tbis letter will be mailed tu the Fanm ANI tiak-
 ralomats arrange workly exabrsions to this neighburhood. Thur are two or three larate botels and innumeratile boarding-bonats. ald


 than in city markits. (mu" or twin of the hotols receive their supply of vegetables warly lwarres,
\&ce, from Phablaphia and Washington. still there is not "Fon an attempt mate to pronace tbla sumbly at fomte Why ant: My reatore must find the explamation in the senmal eomdi tion of the south, as provionsly fritation in thesur series of artirles.
The circumstimee is singular, but is num with
 of supply over the dumathd; or but little lamand and live computition, whivh brinsa prows down Here is the drmand :thl protitable prices, and therefore, many opportuntitw which good mar ket gardeners mipht *mbrace

## PUMPKINS

## By Juhn M. stahl, st. Louis, Mo

I have seen it stated in agricultural journals by those who had premmably tosteci the mattor (if they had not they should not have been altowed to express an opinion that there was no eenomy ingrowing pumpkins ant corn wag ther deparately, an the pumplins wruld leesson the corn erop to an amount greater than the remt of that area of land, which. devoted to pumpkine alone, would promuce the same amount as that grown with the enrn. My experioner of twinty years has led me to an exactly whenite wimedusion. To, test the matter I haw frembently phat ed alternate strips of (urn with and without pumpkins, and instead of those strips withont pumpkins yblding mure corne, there wats wary
 growlng pumpkins. This I attrituted to the effect the vimes have as a moleh. In my seretion (Westorn milur enrn erop is often leasened thy drought in midsummer and later: and the lirnad leaves of the pumpkin keeps the ground under them monst (retarding the prameration of the
monsture from the soil) and thus inerraing the yiflid, 1 an perfertly aware of the fact that the plant food camme mourish the corn as wroll and thls, if I hal moexpertone in the matter, would lead me to beliere that thre was mefonomy in planting corn and pumpkins logether. Rut have tested the
of my position.

I now use the fooborse planter altogether in planting corn, hencen must makp a second plant ing of the pumpkins. I wait until the corn appears above the surfape: :man compelled to doso anyhow, as I prefer to have the pumpkins. at least, ten days later than the corn. When the plants show where the hills of corn are. I take a polnted stick and, walking along the rows, make a hole close to each hill, in which I drop a seed, and then close the hole with the toe of my shoe. In this way l can plant several acres per day. In enltivating the corn I pay mo attention to the pumpkins. They do not get of a size in be disturbed until the last cultivation of the corn, and then no serious damage is done fliem. Though partially covered up and turned on their baeks until they wither, they revive after a while and seem no worse for the rough usage the cultivator has given them. I pay no attention to them when cultivating the corn, unless one should be covered up entirely-a very rare oecurrence. Hence the only expense for the crop is planting and harvesting-both very small items. 1 raise about a thonsand bushels each year and consider them the most profitable erop on the farm. Some years I raise twice this amonnt, and my stock never falls to furnish profitable consumption for all I produce.
I feed some to both cattle and sheep, but the greater bulk to my hogs. I do not know that I would he sueb an entbusiastic friend of pumpkins did I feed them to only eattle and sheep, for I have always, in my opinion, realized the highest price for them when I fed them to hogs. My farm is well suited to swine raising. I have an abing innce of timber pasture with as com land. Hence I raise hogs largely, and have al wass done well-a fact whom I attribute to largeiy ferding of clover and pumpkins. Mr hogs I summer on

Gover and blue grase prature without grain Whon the pature fails I begin to feed corm, and in the fall indi trarly winter fittom rapidly. At


 1 fiod pandukim with the corn. There is mot manh nutriment in manabins for their lalk, but hey relleve the monotwoy of a com diet. When
 ase unless whter fowds are arion to wanturact t. It is almost sure 10 prombae fonstipation and a grond aththerity bas satitatrothtully, in my中, iniom that fonr-fithe of what we call buy lomplams babe a gently laxatise eftert amb horefore retieve the constipated condition of the masels problated by the corm. It is thas whiel Givis thrm thwir robluf salue-as a modicine rathor than a foms. (other veretable foma will have the mane eftect, and of these I give tha bogs All 1 an : Dut they would prow inadeynate, and herofore l rase pumpkins. Anyhow, hy my plan I ean furnish pumpkins to my stork at less
cost than any other fesud, having like properties. (ran prolsere them an cheaply that the mutr ment thes contain would make themp profitable
 rlusinn. I wosuld mrar my brothwr farmers, e nakp pumpkins ont of the prineipal crops of their farma

## NOTES ON MAY NUMEER


Joseph is usually su morrect in lis statoments hat I suldum find onythime fortitice in his ar ideles. But I must disatent very emphatically roln bis upinjon thal it is shallens \& 4 whe sela with: hamal arill. Ho gives has rasion pxacpt

 more expert workman than ans that I have -fermet. Inthe diril bumber ha rommonends the Matthews drill, and that probably aconumts for has projuelore atainat all drills. I prosumb that the Shatthows is at good as any that work on tha mane plan, but the principlo is wot gerad Jik** .lum"ph, I profior to watk many kinds of
 nos use for any drill wond the flamet Ifothat leolng the only nne that $f$ know of whald will sow soakpi su-d without inforing them. Ans Arill baving an aqitator in the hopper will split
 amd user, it may bramaked allamst to tha prointo cprouting abol sill be sown without injury. I know this tolye a fat from ample fermomal ex-- riontor

Farther. if yon wish your soad nown th bunehes. It is easily dome with the Planet Ir. All that is neremsary is to shop up part of the horles in the arum with bits of aloth or paper. I have stopped all the bobes but two in sowing some sieds, and thas had thom in hunches several inches apart. Joseph says farther on, that kalsify must be ounn by hand. It is not newessary. If you only Wish a vory few for bonme use, it may be as wall to sow by hand, as a machine uses more sod. Hut if growing a quantity for market, stop op every other hole in the drum of the Planet, and sow with the drill. The time saved will mueb more than pay for the extra seed needed. When sown with a drill the row is so much narrower and straighter that it is more easily cultivated.

In "Garden Notes," on page 3, the same mistake is made, with the addition that parsnips must be sown by band. I have sown pounds of parsnip seed with a I'anet drill, to my own perfect satisfortion. As in the case of malsify, it takes a little more seed, but the time saved will pay for it over and over again.

I wonld not advise sowing peas with a drill on the level surface. But when your furrow is plowed or hoed out, then they can be sown in the bottom of the trench with a drill much more eventy than by hand, and in a narrow, straigbt row, which will be much easier to keep clear of weeds than when scattered all over a broad furrow by hand.

Theman who took the premium for the best cabbage at our State Fair, in February, used 800

## IMPROVED VIRGINIA FARMS for sale on endyterma. mon sale 

munds of commorcial fertilizer on 300 plants fhis enst a little wror twenty dollars, but he sold me humalred and veventy dullars' werth of oub hat, hesdes haring sonme thirty-pound heads for the titatu Fair.
On pare 4 am male tusay tbat 1 do not be linve that the pollen afferts the fower of straw lurries. I wrote it flume, whinh is a very different matter.

## OUR DREADED VISITOR

One who has seen murh of cholera in its sev ral visits to this mantry sime low, gives some -apstions atmot it whith are interpesting and timmely, and are collenated to allay the fears of the timia.
Gne print espreially noted was that "the drunksurds lied likr Hies." sor did thase whose syst prudent proson, of good habits, living in a cleanly section, noed have little anxiety about the chulera.
Another fact stated was that cbolera was no more catching than a broken leg. Others might full ovor the same abstacle and break their legs Fund afturias inhaled by one person in a house and catumang cholera, may be breathed by others with the some result. No sanitary method bas For improver un the old direction-"wash and berlean." It is a hopeful sign that towns, citles and individmal houscholders are engaging in the work this season with redoubled vigor and thorwehness, and the ehanees sem good that. Intudid of yery siekly summor, we may have one if uminual hualth
It is usual, says thls wrltcr. for those attacked whth this distase to nave premonitory symptoms from nar to four days before it reaches a dangerous stage. Penple of goon halsits, Who take the moper restoratives at this early stage, almost always recover with but little ronhe.

Whe have kept in the buase for twenty years, or mure, a remedy for chobera and all kindred diarasus, which was employed by Ior. Famblin, and other missionarios, in ionstantinople, when it raged ther" so vionently in litis. It proved most - ficacisos in this carly stage, and is a good londsehodid remmely for summer. It is simply equal parts of Latudanum, Spirits of ("amphor, and Tincture of linubarb. Begin with thirty drops as a dose, and incrase it if the attack is Gioblent. Abwolute rest and quiet is nceessary. If "n" says:-" 0 h, I haven't time for that! Remembur that in all probabillty then you must "take time" to die.

## THE SOUTHTRN FEVER AGAIN.

C. C.says in the May number of FARm AND GiARDEX that the "eraze" for going south increanes in time passes. Whether it is a craze since my letter about Florida was published in the Jimuary number, I have received over two hundrud latters of inquiry. I do not remember that a single one wri:es as though he desired to come fouth simply to better hls condltion financialls. Some wanted to try a change of climate on afeomet of health, but the usual reason was a desire in eseape the long, cold winters of the Northern sitates. They were not all from extremely cold States, such as Minnesota and Maine, though I had l-tters from both States and also from Canada. But I had more letters from Virginia and kansas than from any other two States.
I would not advise any one ouming a good, productive farm. which will support his family comfortably, to sell out and eome South or go West, unless necessary on aecount of health. But for persons of small means who think of golng West to start on the plains, I do elalm that Florlda offers greater advantages than can be found in Fansas or Nebraska.

I know nothing of the educational advantages of any oller Nurthern State, but I think they are as good in Florida as is usual in new settlements at the West. Though our school fund is smail, compared with those of older and more thickly-settled states of the North, yet we have a special advantage as to teachers.
Though we cannot pay large salaries, yel we have no difficulty in securing first-class teachers, owing to the fact that so many teachers come here every year on account of health, who are glad to teach at a low price to help pay their

FL ORIDA

FARMS
 can eavily obtain the services of a good teather
during the winter at the hare expense of the teather's bourd.
I domot recommend sebonl teachers to come to
Florida to make mones. Jut if olsligind to emme
 apply to Florida. All throwsh the orange growpeople, and among them sun will find as goma soriety as can be fonnd anywhure in the thited
States. In this settlment, wr have ass word meighbors ax can he anywherb, and they art
much more sociable than is usnal at the Nosth. In some parts of the bouth wages are low, but
not in the orange-g mowing crianties of Floridat. and carpenters get from 81.50 to 83.1 k per das.
according to skill. proportion to the namber of poople, than I ever Indiana, New Iersey and Now lork; but like all fever-and-agut and malarial fever. The' typt. however, is uswally milder ind vield
readily to treatment than at the North.
Malaria being always worse in warm weather Than in cold, I should havwa very poor opinion
of the judgem,nt of a physician who would send a patient, already suffering from malaria, from a celd into a warm climate. A to this rlimate being debilitating, I do not find it so in may own Whe were active and energ+ic at the North,
remain so here. A naturally lazy man is mot remain so here. A naturally lazy man is not
likely to improve here. Less labor is nomessary to suppert life here than at the Nurth; henere, he has not as great incentives to hard work.
As I have said in former letters, I think the fortable home, are better in florida than any Where else in the United State


Some farmers are frequently so behind hand hours of their labor into the evening. Thiskind of working in the dark is ball emough, lmit it is comes from the lack of mental light. "Therr is but very little excuse for any one not being up
with the times in this age of telegraph and the printing press. It is a blind prejudice that kevis a man from taking a paper in nine cases out o mind is well disposed. The farmer who takes the papers is the most prosperous, and the thing to dowith the prosparity of those whon read them. Therefore, one of the methods of sorking In the dark, is to abstain from taking any papers devoted to a person's calling. In this way the methods of others are kfpt from sight and mind. Any new invention is unknown, and not being known is aweapon in the hand of others, whouse , to the disadvantage of all who do not. Let us give an illustration. A neighbor has recently
procured a potato planter, with which one man procured a potato planter, with which one man
can do the work of seven. Such a machine pays for itself several times over when a hundred rows are to be planted. With this planter, my neighbor tells mae, he can raise potatoes for less than ten eents a bushel. What is the natural result? He will put in two or three times as many acres as he would otherwise, (it would, of course, not pay to have a machine for a small patch), and he becomes known as a potato ralser, and a person Wbo always has a stoek of this food. He ean ship his potiatoes in car load lots, and gains in freight rates as well as saving in the eost of growing the tuhers. The man who does not keep up with the times, with allits modern labor-saving maebines, is fighting a losing battle

Another gond way to work in the dark is to be always at work. Never go to your nelghbors and learn how he does things. Know nothing about his stoek. If he is using a full-blooded ram or bull, and thereby increasing the value of his never know anything about it. The methods of improving stoek are all given in the stock journals; but they may as well never been printed, beeause they are not seen.

Keep awray from any farmers' club, because you have not laken the papers and will not be able to understand about potash, nitrogen, phosphorle acld, pupoteney, cross-breeding, ete. Do not think well of sueh meetings sbould you chance to hear that they are belng held, because the only bling for a farmer to do is to work in the field

Talk is only tit for the lawyers, whe are paid for heir work andording to the length and rermatility

 the judges hatre rither heen inesmanetent orr getting up a show, disemarage him from the firet If Fon wolat work in the dark, have nothint
$\qquad$

$\qquad$
$\qquad$


 are pretts, hut they are not salablalike fine corm. Pork parked amay in a barrel is molid liwing, and thert is no fuss ahout emking a moss like there
is with green peas. If you work in the dark youraplf, the ubildren
will anso dwell in the sime darknoss-at least until they get larar monirh to see thetter than


## KITCHEN SLOPS

Where do they gn: Dues the drain from the kitchansink just reabh outnile the wall at little
ways, and is it left to ran ther half hle time
 Where it will draw the fobl batter into it? Fathore, mothers, as you salme the lives of sump
chiblren, lowk into this matter, and lomk intolt
 The man that phessofs that lha mit, worn-rult himsolf befort fill comes, as the wonk of that same deadly drain : or it he pacapes because he is
not compellad to breath the malaria from the
 forers. I read the othor lay abmat how the farworse than animat and treatm
$\qquad$
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OVERVEEN, HAARLEN (IOLLAND) (Establighed 1834) beg to intimate tbat their NEW WHOLE
SALE RAOE CATALOGUE Ior 1885 of RULIB IUU1IIOUS and TUNEMOUS-ROOTED PLANTS


tande of whe humdrad faet in every diraction.
Tak your tape-lint and go to measuring. I
think you will find many foells not forts feet
$\qquad$
$\qquad$

lanal it away It well is in bad plat the surrinnalinys orn oijo in hew one. Is





 is full, cilt it away and cmpty on the eround
 think 1 arn occupying too
notes by the way.






 eaners as we wan bes. Wra do not like framds, and elieve wr chould do the right thing by every rath, overlook a requast, but wo never mean to do 1t. Our raders are our fansily, and a large one, nf "my own. If we make amistake, ats all do, that sona are righted. potash in some form, and phosphates. The effect of ammonia on whis usually not well marked,
but potatoes will ropuirn all three. Ammonia is dear manure, but is u-ually wasted when The best pettato manury is pompmed of 400 monds of dissolved bonte, zom pounds of nitrate If potash, and $2(4)$ pounds of nitrate of soda, well mixed, and applied at the rate of the pounds per acre. The cost of the raw maturials will bo
about fifteen dollars per arre, stnd in a favorable soil the yleld should lue *(k) fusbels pur acre, and will usually make a much better crop than the application of 20 twoblom me louds of stable manure, and make much fairer potatoes. Experi-

BIG PAY Fur Introutrive Buck Ey Eicul
GRAPE
JOEL.HORNER © OLher Raspberries. Cataloguefres

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## Sromenn <br> TRAWBERRY <br> PLANTS

FORTY varieties, focluding Riveralde, Tapeka, and Call.
FORTY varieties,
fornta, these three ar
Parry, Mrn. Garill

# ORGHARD AND SMALL FRUIMS 

 Condurted big Eii Minch, shitoh, N: J.
## THE ARKANSAS APPLE.

We give a cut of a promining new andle we saw at the New Orleans Expmaitinn, callet the Arkanern apple, would, when Ilatated in the midhlo
 Dy from Janmary to April, war meamon hring an mach later. The onder is a bright. motted radur the upper hatf, the lower, becing of at reddish-s.llow. Cavity much russted, and extending an the surface in indistind rase
The texture is fine and the fator a fleasant subacid. It is remarkahs heasy for its size. liks theswar, and will prove at gomal kieror. It in in fine enndition in Arkande as lata as March and will keen mode honger. gar suedimen wat in fine condition for kinging when cut on the : id of March. Our illustration gives ther from, siza, and shase, size of sededs, cure, etc., all of which are carefully reproducod
The tree is a gond grower, young wood a very dark bruwn-almost black, amb in hahit resernbles the Wimesip, uf which it is probathy a scedling, but is hettor romed. It is a good bearer and sets the fruit armbly through the tree. Wi are testing the Arkancis in nar trial orchards.
 and a cock, Ruswolville Numerico, near Littie Resk, Arkansas.

## FRUIT NOTES.

A tree that has heen lathly planted will revive if kept well waterd. Mulch the tree with any hitter, and kpep well watered. Much better carry a few pallful
next spring.
Prune all branches clusely. Wounds/ made by pruning heal sounesi in June. We leave all large stubs left in winter elosely. The hot, dry winds soon stop the fiow of sap and the bleeding which occurs in earlier and later pruning.
A writer in Coteman's Rural Horld says, to make an appletree that blossmms lut does not
bear fruif, frultful, "lay in the bear fruit, frultful, "lay in the
croteh of the trem atione as eroteh of the trie at sume as
large as your twon fists: if you lay it in now you will hawe a good crop of apples thas sear." We hope our readers whll not try it. It would be a pity to waste the stones. "ven if they are chaty. We think much bettor advare wat glven
elghteen hundrud wears aro ase Luke XIII., G-9). Save the stones for komothing else.
Pear orchards kept in grass and surfacemanured, appears to the the surest plan for
growing. Culturation makes a large growth immature wood, whinh is sure to blight. The vitality of the new growth is injured ley the cond. and will become apparent the following summer. We had a Vicar top-grafted on a I unchess that grew fincly and blossomed freely thes spring, while the stock was dead and black with winter-kill. As long as the healthy sap that was in the Vicar wood lasted it grew fluely, while all below it was dead. Exhausted vitality and bilght are one.
See to newly-set trees that they do not loosen. If they do, take a round pole abont two inches in diameter, eut off one end square and round the other end to hold in the hand: then straighten up the tree and firmly pack soll around the tree with the pounder, taking eare not to injure the roots. Fill around the tree and pound again. and level off around it. No iree will stand if there is loose dirt under if. If it does not stand firmly it will not last long. Pack the dirt when parlly dry; it whll work better. staking will do for small trees but not for harge ones.
The superiority of kalnit over ashes for peachgrowing we belleve is due to the salts of magnesia and the common salt it contains, as well as the potash. Being exiremely soluble, and not as caustic as ashes, it enters at oner into the sap eirculation, and does not burn the roots as ashes would if freely used. We are now successfully growing a peach orehard of two-year-olds where it was deemed impossible to grow them on aecount of the yellows, which the soll was sure to produce. Even seedlling irees would furn yellow and die in a few years. We now have a fine orchard of healthy trees.

The staking of blackberries and rasporerises will not be requiral where the canes are topped at three feet for the ordinary varitiocs. The more viguranc ones mont lon toped higher. This Gansen thom to branch and form a bushy head and at tirn. strong growth of the same. Which will stand up undor a lagge load of meries.
 them also, whith will vala, theme to develorp
 next seawon. It takn at sreat deal of wirk to
 quantity and yhatity of the frait amply laye the the lathor.
Trect cirdid hy inion may he restored if tha part injured is kegn coserel with a fout or tworot most warth. Last guar wo han some larese apple thees girllad by mich.-all the tark removed for in indheser more all around them. We tatnked ap the wet wil two fert high around the treas, and they are now niedy eoverd with new hark. The sap fom the tmily of the tree will extude und if kert mant by the dirt, will somen firm a finf growth of mow whod where the injury is tha it will in due time he casered with lark
 list solidly armund them.
 hanhes. It is a minaral pismon, and will mot owe it perimonow qualitios by un and rain. 1l, 1 Rehore is a vegrathat pason, and dowe will destroy its harmful qualities, whien makes its now premety safe. Turn mostuek into an orehard Whare Parls green has beron freely used until affer a ratin. The gras under the trees is poit



## (Eract shope and size.)

of fron, given immoliatoly. This antidote should be in wery farmers kiteben. ready fur instant are in case if poisun. Your druggisi keeps it. 11 is very cheap.
The currant and gooseberry worms that consume the leaves of the currant and gooseberrs, learing the hushes hare of follage, will weaken them so mulh that the berries will not ripen, even the hushes are sometimes killed by them. They may be poisoned by the use of hellebore dissolved in water, and the bushes sprayed with it. Take a tablespoonful of the hellebore and add a quart of hot water, and allowing it to stand a few hours, add to it a pailful of water, and spray the bushes well with it. An old broom will answer very well for spraying. The worms are soon killed, and the poison will not last long. In a few days the berries are sale to eat.

The cold, dry winter we have passed through has rulned many orehards in Indiana, Illinois, and the North-west. The dry winds of winter are as ruinons to the trees as the colds. Many orchards that are not yet dead, are so severely injured that they will linger along and prove worihless at last. We belleve hardy varietles must be root-graffed for cold, dry sections, and then the varletles wanted should be top-grafted on them. There is a great difference in the hardiness of stalks for the purpose we name. We hope in the proper season, to have more to say about the subject. We sbould be glad to hear from those who have tried the plan we advise of top-grafting hardy stoeks.

If sour meach tree loseks wallow do mot pull it ap, but gise a liberal supply of kanit to it, say tive pumads for a amall tree to fiftern pounds for larse one. sporad wenly as far as the branehes xicnd, and allow it to wash into the soil by rains. We use from eight to fen tons anmazly "1 waches, and timi its use, with bone-dust, a prextative of yalows. We had trexset one year make a large head ly the nse of kainit and bonedact. Shmo of the trees, as dry as it was bast year, hade a grewth of fier suth one-half feret, and made -hme Erowthe of new waral ome inch in aliameter. Gime or the treses mate heads frem a single sten
 Faby ANu(iarmen has bern the hirst torecommand kainit for peach colture, and we would heot rase a single poach tree withont it. We also tried ashes last year, but the new growth was so Inall and the indications of yellows so phain, we due the treew und planted arain. We used, of anhes, from a hati perk to a peck to a tree, but we will way we frefer kamit and tone. We hare wenty-four acres planted in peaches, and are not only expmimenters, but practical growers.

## Editor Fabm andrarben

Amitheielit, Fulton Co., Ille, April 16, 85.
In your issue of April in an article on Cleft rratting, sou kay that gou must a ways have the 'Wend of the stork and that of the graft and sefon "rn." This would the impussible, and a mere acrident if it so hapmened. We only cleftograft where the stuck is tow large to either whip-graft, or the lark ton thick tol lad successfully. Henee wing to the great ditherence in the thickness of the bark of the tock and seiom, and the impossibulty of seelng the lime between bark and wood when plating the graft in the eleft, it would be a mere andident if it would correspond exactly. I have mate rleft grafthg a specialty
for many years, as in this country all the oldest orehardswereseedlings. My father
had a mursery here in 1830 , and hls trees wert sught after and planted in many adjoining counties by the brought apple seeds with them when they came from the east They planted them, and when large though some one of the bardy pioneers wanted them and hence all were seedlings, and some of moni execllent quality that are still largely grown, as you will sue by refering to "Jownlng's fruits.
In the year isti, Mr. E. W. Pike, Rwehester, N. I'., eame through this comitry with specimens of fruits, and took orders from nearly evers owner of a serdting orchard, for grating. My father paid him abnut sin frafting his seedling to graft. There were four of us to do the sawing ofl of the limbs, setting grafts, and waxing, Mr. I'ike whittling all the rafts himself.
1 shall never forget his orders. They were, - Boys, put sour grafts with the hud out, and nearls doss to the top of the slope, and the sure and latn the tup of the graft out al latle." This loaning "out a little" was done in order to be sure that a junction would be fromed, and the veritable hud on the wedge of the graft altays ontside. In waxing, this bud was always eovered With it, and it somothmes happened that this lad would be the anly whe on the graft to grow. Thus you see that this leaving a bud on the outside of the wedge part of the graft was of ancient origin.
I have for thirty-five years grown nursery stock, root grafting, budding, and cleft grafting, and have never seen any difference in the life, health, or bearing of the various methods, provided the stork was of hiself a healthy seedling grown from seed of a natural seedling.
Right here I would insivt upon nurserymen sowing only the seed of natural seeding apples for stocks to graft or bud. I know that they are much hardier, and in every way make beiter trees than if grown from seeds promiseuously saved from all kinds of grafted fruit. The wood of the seedling anple is finer grahed, more compact, firmer, smaller pored, and mueh less liable to be injured by freezing and thawing, than is most of the grafted-wood seedlings.

John H. Bafghman.
The farmer who last season neglected to plant a bed of strawberries, and who now sees his neighbor's wife and children bring the luseious fruit from their patch to the house by the pan, pailful, or by the bushel, probably wishes he had taken the advice which we give every season,
viz., plant a suffielency of small fruits.
 teligent reader

Look well to the Romumbheaded Apple Bors r . They mathe their apmearance as perfewt butles
this month, atfer a threw-atars existomo in the larval state in the tree. Wenotainet some apple trees of a lacial numseryman and momal atew borers in them. Wre thatarht we hat ralught all ready to lease the true. They aro all dputnosed at onco. but it is expenaive, and tation bimat to
find them. Better spemal ten dollars now than
 for the borer a wash of onw pound enf canction -uda fo a gallon of water. Csta a brum rif it rag budy of the trees with the solution, expmotitly the summer. The rogs are depusited in June and July, and tha soclat wash kills the Foung grond reweipt last yrar for the borer, ats our ald Fraters will monembirr.
D. li. IIoxir, in the Firm and ITomer, writes
plum treese, ton sears the the crop
killed all the wrase moder the trewses, and he suls

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ sitlt is just aphlidel of onorse it will mot keep the
 that will kill the flume moxt yrar. Katalolph
 make cull repsut pums. Wh hope our retalers Will try thic man, and let us know if suectsoful the salt even!y ovor the rintire eround.
J. B. Fogers, in a paper read bafore tho New
 of special fertilizer for efan elass. Mr. Lowers "Primo, Tritmole defirand. Biduw and the less constitute a elass that make the groatest
deroloment in truit and thower with harmeyard manure and commonrial mantires pouringutash. tion hy the adnition wl putash to tho manare Seth Boydrn No. 3u. Class third includes the Cumberland and charles Iowning, which seem to grow undir any special manture equally a lizer." Do we nut find here the reason that varie ties of berries are variable in different suils because of the absence or presence of the special fertilizer the varioty demands? We shall have
more to say about this fertilizer question, and the capacity of feeding of the strawberry.

Likst year we tried Paris green on pears for the curculio and pear-tree sluss, using a teaspoonful of Paris green to a Vankre paifful of water, and sprayed every other tree with a hand force-pump when the pears were as large as buokshot. The alternate trees were full of slugs and the poars were knotty and wormy, while those that wre Paris greened, exrept where too freely used, the foliage was pertoct and the pears free frum worms, very smosth and fine. The difference was very apparent.
 momber for april The lect wate af surfing and inserting the graft or sedon is the ont you bave there describut. 1 used to willt and set them raticely as yon hate deseribed torty years are thourbt them surer to live and womw, and in
 om the stump than in the oller way of setting. hard unom the fors sedermber gates were blten tho lobde of mow and ice of the first winter. Gimm always split the stamp in a burtioal diwater whl the tom of the watt, it maty find ith way sedon or branch was muth the stte'mer brekem down, sometimos aftor it bocgan to bear. If beth
 trees of many -tumpo probectiny varinus angles

1 observe that naby penple prunt their applt rees in Fehruary and Mareh, just when there is the most frewing athd thatwing going on, and whell they wall homd, it evor. It only mand, thrifty hamehes were cut it would mot bre of seri of any sho thaliss the trea is growing. I think it u-st th thall thaliage. The wowd then wetherally he

 Fynystrmou!h, Mes". A. M.NWAIN.






 rains, amd at mome fothlar filly milus away will
 It makes lisoly work, hut wo like to make


 the berries last. Ntrawhorion and (ornan, -traw-

 Probun them tosuit wor finses without ans wilt
 of juico ; while still othersou us likw lham los

 are plenty: and we wet tired ovir amd overatain
 herrate three tima
neveranamanur.


And I dow lwieve it maken na gominaturnd to fre um ot rawherris. It lowks reatumable that atines matholl ach, would Womk wit the bife and保 withe whdetemperth peonge the world aser.

## Wrater newly-set trete well.

Salt in smatl quantitjes is gosod for most trees, specially quinces and Jums. Tow frety used oll kil the trees

Use the yruniner knip daily to keep young trees ul all kinds in shape. Fasier to shape them now than later

In not cultivate quinues ton deeply. Their

 and more prolitio the quince. Mulehing is

The iruit prospoet is nost very flattering stam -rice are rery ato amd are jnjured ly the bast re injured and worstres




 Iir crap of fruit. Tho indications are that 1585

W"e satw rocomanabulted in an English paper that alom diwnolved in witter and sprayed on gowshary bublow would kill or drive atray the "urrant worla. Wretriad jt thoroughly last year, amal formal it of mo wat whater. The goose-
 ato shot shmo wh the learjs-treen
 While wher" the alam wator was uavil the worms

The realur will s.⿰ that we recommend one








## (tir) piepll rent Nomemean re

 nommends rifivine the tree foll uf matls tu pro- alan bue well to burrow tha mails lar subl! a simple experiment. Thuse whotre so suphratitions as

 his ipple trasts. We sas, do not be tomish. For
 hat iron, athot in the form of a sharp ane is best. Then at the proper setanompant at mitful variety.

## NIAGAIRA WHITE GRAPE. MARLBORORaspberty.

Locust Grove Nurseries.
Mandextre Mawhorinc, Ilamell faspherries, Kleffer hid low prices. sent roed circular to
J. IIRAS, IRed llank N. J.

MARIBGIRO RIEPIBERERY, POKEEPGIE
A. J. CAYWOOD \& SONS, Marlboro, New York

## WHERE DID WE GET THE IDEA?


what they want. This knife has: blades, as shown; they are keen, strong, sensí3or 82.50 \& for
\& Heavy knife, 50 ers. Ladies' 50 ets; boys ${ }^{2} 5$ ets.
Pruning knife, 50 ets.




Pansies degenerate rapidy, and the onty way to
prevent this, is to pluck ofl all howers for a time, prevent this, is to pluck oft all howers fo
pmimboses And farimas.
Roots of these, that have been temporarily laid in, should now be divided and piantedin nursery beds, keeping them moist and shady until wellrooted again. The double Priminmes are expeclally deserving of incrensed cultivation, and if
shaded borders are not avalahte for them, light evergreen branches will serve as a substitute. An occasional syringing to prevent red spider, will help them wonderfully.
It must be remembered that Fuchslas must never become pot-bound, or their bloom will be considerably eliecked. As seren as the roots toneh the sides of the pot, it is time for shlfting into a larger size. Good, rich soil, and a rather
shady position are required. Some people put shady position are required, some people put
Fuehias in the hot sun and then wonder why all the buds fall off.
All ofd blostoms should be regularly removed; also suckers and weods. Kerr them moist at the roots, but do not sprinkle over-head while the plants are in hlowm. Strong growing elimting roses will need tying and training. The sooner the shoots are thimned ont after flowering, the better, and the greater chance there is for the young wood to set we'll ripened.
That bave bloomed in pots, may be planted ont, and will no doult make fresh growth and thoom again even this season. Pot them again in the fall if wanted by Faster. There is no lily to ecpual
this. One or two of our florist are handing these this. One or two of our florist are handing thest
in a thorough business-like mamer; for, instead of prepagating and growfug them themselves on their own grounds, they grow them in lierniuda, where
here.

When the eareful house-kweper is putting up her preserved pine-apples, she shond take the
ents off the top and one or two of the suekers, set them in a pot flled with moist sand, and in the course of a few months sta will have severat fine plants that are worth watching, and that will bear fruit for her as wetl. The stones of dates, if planted in a pot, will also grow and make a nice plant-the fhoenix Lactylifera. It Fery gracent.

This beautiful piant is seldom seen in blomm. We doubt if there is a single plant of it in lhilaidetphia; and yet, it deserves the particular sar* that it requires to bring it in flower. I'roviding time, a glass structure, and artifucial heat may be commanded, we see nor reason why it should not easily he cultivated. It must be remembered that the seed show $\begin{aligned} & \text { be planted where it is to } \\ & \text { bloom. If in a pot, it should be of sumbient. size }\end{aligned}$ to need no shifting, as this operation will be found fatal tos your plant. This pot should lee set inside of another one of larger size, and the intervening space filled with moss or saw dust, bi that the soil may be kept moist without toe fre quent watering. ("arefully shade from the sum, This plant is really magnificent. We se* the
seed of it eataloged by almost every seedsman, seed of it eatalogued by almost every seedsman,
but few people are aware of the special treatment it requires, and we dont if one plant out of a bundred ever eomes to perfection on this aceoun


BCRPEETS STPERB DOL'BLE ZINNIA.

Now do not furcet to obtain a nice lot of the hest Chrysanthemums, for horming next fall. If you do nut get them now, you will forget all albout them, and the conseduence will be, tbat
insted of getting your plants now at ten to twenty-five cents each, you will have to spend

two or three dollars for them later. If you have where ta get them. No need of our telling you here-it wond seem too much hike At." Here is an article that should lave appesared berimg some danger in potting or planting at onces as the bulbs have nectssarily endured viejssitndes to decay their vitality and render them tiable bulhs, this does not show at the time they come to hand, hut it dechares iteslf later. When they come in contact with the damp soil, and when, of eourse, there is no means of ubserving and of applying a remedy.
The safest plan is to lay some damp moss, shotting them down and standing the box on the thoor of a eond house. This will give just sufficient moisture to draw routs from the bnlbs without eatusing rot. The buths ean be examined from time to time, dnet decaying portions removed.
Hor'se riands

Whill now be benefitted ty leing set out in the lawn, or any plitet outsite where they can get fresilair. As summer advances they will ropuire in the morning, so that the flunts will wi the beneft of it during the warmest part of the day. ZINNIAN
Are a useful ctass of annuals which specially deserve coltivation on aceount of their hardiness and showy tlowers. They vie indeed in beauty with the best class of Asters; while Asters often fail to grow freely ur blowm protusely, Zinnias are certain to surcead in every renpect. We bave freguently seen then growing here ant there in mixed borders with good iffect, but they are muth more attractive when grtwh in large masses. Of eotrse, Thobterlowering ones are
decidedy the best. The hlomis vary from two to four inches in diameter, in the liont strains, and the petals are beantifulty arranged, while the colors are uf every known hue. The single ones blomm equally free, but the Howers have a ragged appearance, and are not sombtivetive when however repres Both, lue sown any thme iffer Mapon aither in puts or fin the spen ground. The seded germinates freely In light, sandy soil and anywhere where the At tirst the rowneg plants may but quite elose together, but as they form a fuw luaves they should be taken fron the semt quarters and civen mure puabe Thair eacy abltaru is areatly
 frames may have them in blomm from July until granh kindly furmishud by Messrs. W. Atlee burfue of co. The endraving of the plant shows the general hatsit of growth.

## APANESE: luse-HE1met

A new hedge is remommended as entirely new and very promising. It is of young plants of IRosa Rugosa. This rose, which is quickegrowing, has very close, strong thorns, and if a hedge is carefnlly made at the tootom, mo small animat would get through it. Seralting plants may be used, hot where the rese thrives it makes many suckers. This Japanese lase thrives well even when closely cut in.


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OVERVEBEN, noar haflem, Hot.tand, who guarantee the best at lowest possible prices in any quantity to suit.
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DE VEER \& BOORKAMPP, (SUCCESSORSTO 19 Broadway, N. Y.

## LIVE STOGK．

## JEROME EDDY．

Fvel sine dumber Fidy senred his remord of



 verys sitintiwtory athl vircumbtantial form．The
 commending with the remote emf of the story．
 mortio uf llarlan bridare，hat at damentur of inn－ ported Trantwe that went lamar，amal hat tratual
 Bromks and 大ied．Luff，of llarlem，for a $1: a \mathrm{ir}$ of
 for a mumber ul years．Atwat that timo＇harlack l3ronks had tharge of Lome foland folawk liawk．

 to Wi：at limarhill，near themeove ma lang lslama，in due time Mr．Endarhill brat this


 wall known amomes the？

 grate dual of petent，hat she had ：t will of her own，was hard to man－ age＂n the rostel．and withal was a kirkir．
 anuther 1Hare to br． Perlb ：ald W．11．S：un－ Brer，we fyde，N．Y．，
wher wery in the e．ity With a lut uf sale harate． leak and rimmilore pint on the mare thay trand ed tor har．atud bils the team tulewind．－bitno．




 mate was mot ry the oricinal Iomg I land
Blank Hawk．lut las his anll，kbown ：ls Brombs l31a＋k 11 awk，＂r N゙いw York Mlamk llawk，ins lue was ralled．As the sale to Mr．Eutton，hows
ever，was mate in kiz． the datecs sut the the quastinn that she was by theond horse．－Wrallace＇s Vonthly．

ble at all timma．increasing the fow of milk，ami making an almarable chan－fonm hat．For canmot reaist the templition oll－wouring a rop of grain，but they will find it porotitale to grow a purtim of their oats as memtionter．

Corn is a valuable green food in winter if it is
 diflurent thing from matured forldars．Amme
 very yonng，cured and led in winter

MILLET AND HUNGARIAN GRASS FOR STOCK，
Thuse crops abe expelfent for light sandy soils． and \＆row taickly．The stacl should wo in this month，and before doing so the ground whonlif he worked up fin＂．How fialt with many whot eroms
 the sped hasin are formed．This prowether is


 grass rentid dosired，lut for wowine a crop


 are tha dubckest and easiest produced of all the gramse：

I＇SE Plefsty DF DRy EARTII．It is cheap and plontifal．Tham it in the stalls，into tho urine． ation that presents vembin

ABuntionis rows．－There isnolinown remedy arr this diflienlty，but we montion，for what it analy ho worth，that suveral Fremeh dairymen
 prosenting the direase by kenping at mate goat in the lurd．
 ose rxprated trom the rorn led bext fall will
 fixe llantr of grean food bow will show its atera on the ealauty of the pig when he is bennad up for his corn diet．
 ＂Top nod month whern the new sed will be ready＂ Tha Finglish eqmobler forming umeses withont turnils，and if our farmar－will raive more roots they wibl tisd it to their advantage in winter． wheal mothine hat dry foul cam hiehad．
Pastere－W゙e arb afton rominded that stock Da）limet on a grood pasture in the summer re ditiong but littan grain．Thls is true，but the motat！of the pasture must lue omnaldered．Clove and timothy grass is wery diflument from the hablatal widu grass，and althourh a pasture may f brovide a sufter＂ney，unless thr＂ortass is of gond duality the rosults will not always be satimita－ turs．
 thoush it is rematalnderd that marta lat hrod in sfrome ur tall，it is woll known that no plan can lee adoptodin resaral to time．Natras do not con－ ＂rive a＊＂amily as other Halmals，sutd the conse－ comb．in at all times of ＇anme in at atl times of
the yoar．Thw ondy thing to la．dohtr is tas sensure bromed marm that give flanty of bumrinhment， amal lireed allas form

 ＂annol be soutured frome tht pros that aro farrow－ al thi－munth if they are t．，lat－lamentored at the
 thu＊mat ramain with the wow wath they are －isht werks abl with less danger of injurime ber． as shi＋can lio luiter pro－ vidul with a variaty of fond．Late jig：horm－ ruar．whow yery tast，and Lain in that rospert over

## Ensilage and green food．

Green food is plantiful now．hut the farmer should hegin to grow his winter supply．There are many good puints in fawn ot ansilage，ant there are also some objections．The rlam that all ensilage is sour is not fombled upon fact． Something depends upon what the ensilaze is compred of．If enon is uned exelusively there is no process known that will prevent a certain degree of aridits，but if a resort be had to clowir and griss．which may be ensilaged as well an corn，the cosiage will the sweet all the winter． Acid does not really injure the ensilage，it rathor promotes jts digestibility，but affects the milk somewhat．This is due，bowerer，to the maturg of the food itself，as much as anything else，as any change in winter from hay and grain to green food will do the same thing．Evon coriked potatoes and turnips have an effect on the quality of the milk，and at noseason of the year． even when the rows are on pasture，ean milk he procured which is entirely free from oldore of some kind．The use of hay with ground food lage is glves the hest quality holky furd．
Those farmers，however．who have no silos，ca grow a large quantity of good sutculent ford by sowing oats，and cutting the erop at the time it is in its＂milky＂stage，care being taken that it does not become ripe．The juices and nutritions matter are then preserved in thestraw is well is the grain，and will be found tender and accepta－

## BUTTER－MAKING

To preporly undor－tabl what is rectuired in a

 pointe of＂xetlense，all of which must assint in arriviag at pertection．The first quality ta ho murht is the flawor．This cannot be impartod hy of the foud and the elpanliness and rare oxet rised．The slightest odor，or exposure，whll more ur less affect the flavor．The dairyman can ming refrin the flavor，and cannot add anything that will improve it．The proper coloring of butter is an art．The color should be added to the salt，in suthrient proportion to impart astrat tinge．To have it even and uniform，it must he well workol into and ineorporated with the butter．The grain is another quality，and，molike flavor，this is im－ parted by mechanical mothods．Just how to describe the best practice for giving the proper grain annot be done．Expriance alone will only give a knowledge of how to secure the grain as to whether much or tom little working will atfeet the result．Something tepunde upon the quality of the salt usedals．Sorsall ik ahnohutely purn，and，therefure，great carn whold in oxar eised in procuring that artiole．salt of at andiat manufactare，for dairy purposes．is math ly those whe thoroushly understand what is ro－ quir d，and the difference of a brw ant in it cost should not be considered．Only one ounce to the pound is required，and the hutter will sell for more when sent to market．
thrise that are earlier．Svidiferding them corn； they should lus be batted unth six montheote．
 inspueted several herds of dary＂ows among Which Holstoin bulls have been hroth we The core from the frose of that brent with the native hreed，give on an averame，has per cent． more milk than their dams，and as thry are only half ined．hettor results will be mbained when the
stork hecomes threm－1uartors bred．Acording to the athwo we wonder that＂wory dairyman docs not at once seek to improve his herd．
The Record of Princess 20．－That a eow should give ofer 45 pounds of butter in one week from 300 pounds of milk is one of the greatest achlevements of the nineteenth century．Givan In quarts her yleld of milk was about 1.00 quarts， or in the neighborhood of $6 \frac{1}{2}$ pints of milk for each pound of hutter．Her feeding was heavy and of the best quality，it is true，but this faet （1）es not detract from her performance．Every ont cannot own a Prircess 2 d ，but every one can feed for the best results，and lureed the stock to a higher degree of usefulness．
dersey Points of Excellence．－The new standard for Jerseys does not allow any points for the escutcheon，it having bern miminated． The udler and malk veins are strongly enomer asad．and every precantion taknh to hwelop ustymmes in preference to extreror marks of palur．This is a great step forwarm，and will do murb in faver of the rapid im mownont of the Jerescs as the tendency dimion the past ton
 standard stork．We enmment the oxampe of the Jersey brecters to the hre whersof other cattle．

## THE WYANDOTTES

POULTRY SCRATCHINGS



 and raising hroilers for market rould not be
aceomplished exeept in a suitable building. With a poultry-bouse ten font wide and ome busdred feet lones, amd divided into tern apartments, the robicks being trannfermal to boumers, on While thas engagod the work was mositly ex perimental, and has given rery satisfactory
results. $k$ mowh so as to permit of the flam durted in the -jities as in the conntry. The loss the few very woak eliteks that ustably hatch whith is atriting loss, if ond will stop and conof two but of ten is twenty per efent. The reasum exsurntial thang in their rare, and they were fer lation will enable may person to notire that a part of an acre. With tifty rhicks to eamh apart nurist the building adoommodated 500 chicks. In apartment was made to bold one bundred bhicks And, il may be stated, eich apartment hate the change conla have been rmontahly divelam int convenipntly aerommordated fifty rhitks, Tho

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have found fewerdiffirnltios than I at first wape pure breeds. Plenty af ferll and dry flons wil prevent many losses that wour
raise young chicks as a business.

## THE CAPITAL REQUIRED

Ambng the many inguiries made regarding the matter of ritising ponltry in large numbirs, is quirer will hut compare the poultry busine to unravel for himself whaturer mystery may be
at lached to it. If slamo be investod in amercantike pursuit, the interest on capital invested, ten per cent, will give 8100 , or a total oi $\$ 160 \mathrm{~nm}$ a investment of slonk. It ls coneeded that a return cellent one, and why not take the same blew of the poultry business. We are safe in asserting that $\$ 160$ etn easlly be mad, on $\$ 1000$ invested in poultry, and even more; but the above is given to show that the beginner does not fatl simply because he eannot secure several handred dollars on a smatl investment. The ponltry husiness Will give as large returns as any other, in proporthon to capital Invested, provided proper care and management is bestowed. The difficuity with most persons is that they expect too much. They are not disposed to take a business view of the matter, bat desire the poultry buslness to do
what they would not for amoment expect from any other, which is, a return of the capital in one season. We have often had parties to ask if they could maintain a fanify with the poultry business, on an investment of thew hundred dollars something which they would not hope for in any other enterprise.

LOOKENTEPRISE Poultray Mrabs

LANGSHANS THE BETG in amerias rom Major trand, of England. Eggs $\$ 2.50$ for 13 . $\$ 4.50$ ur 26. Wind fur cirrulars with my instruchuna fur raising

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## bolt egos withon

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factured by DR. A. H. DICIIE DOYLESTOWN, PA.


## бHE ЂOUSEHOLD.

## SUMMER IN THE COUNTRY

## By J. E. M

I hear the wild bee wind his horn:
The blrif swings on the rip+aing wheat
The long grean tances of the carn
Are theng in the winds of mora:
$\qquad$
The summer is full of sweet sights and scrunds ; but too many hurried house-mathers feed that they hatre no time for even a breathing-space to drink them iu. Yet, It is good for the mother and grod for the work, on make her little pauses to leave the hot kitehen a minute and feast ou the delicate perfume and the rich beauty of the opening rose this June day; to perform some Iittle, loving office for a dropping favorite in the tower border, and to pick a little duster of pinks to wear through the bustle and hurry of the morning. These are all bittle things, tut they are sweet helpers to busy hands. It is just such litule, softening influences that keep the heart from growing hard and fretton, and that bring pleasant thoughts, thome cheeriest of all guests. The intluence of the flower thorder is not for herself alone. The chiliren will fecl and show its power in their every dity live. There is stme beautiful flower. I dropped a ilttle bunch of roses, one morning, as 1 walkin up from the ferry in New York, near the stand uf alltlle bow black. and is I crossed a strect 1 glamod back tonee the result. He had sprung to the spot in an instant, and already a hatr dozen others reemed to have focked about him, tw whom he was deating ont a rose aplece. I have many times since then given a fower to a street child, and never withOh mothers who toll in the country, and think gour lot so hard, rejoiec that you and your children are not even common working juople in the clity. What it would be to helong tu the eity poor, one cau only guess with a shudder.

## cousin phebe.

## By Aunt Eva.

"Good news for youchildren," sald Mrs. Clyde "Cousin Jhebe is coming torpend all of July whth us."
There was a chorus of "good, gond, good,"
from three chubby children, aud tho baby came In at the close with "deod, doud," thoush he dial not at all understand what lt was all ithout.
"I thought cousin Pbebe was that tame cousin of Mr. Clydes," sald Mrs, Black. "I slanhat think It would le a sight of troublio to have an invald about the honse in the very busiest scamon.
Mrs. Clyde smiled cheerliy, as she said:
don't know censin the be just to hawe her in the honse helps folks, even if she is not athe tosit ur. But, though she is mot stronge and is lame, sho helps along with all the work. It in mot her happy spirit altogether, but she kbows jout where the hury and worry comos in, and wan sit in ber rockingohair so calmly, and fot at
whole dinner ready for the stove, if nocd be and
and Invent simple plays for the babios, or sing a Eweet song to the ehihren all at thr same time, and, vet, all is done with now and arent rint. She 1 know. She will not let me twach a needle while she is here

I can't dumuch, Lury. she says, but I ean sit and suw, or knit, and 1 should be maserate with nothing to do: is if she was pot ahwase
doing, working twice as much as I wish she would. But she says it is maly a play-spell to her. Still, if she coold do nobling lat lie on the lounge all day and wheer onu up, and suggont easy plans for doiug work, she would be a blewsing anywhere.

It is quite different from havine a fine lady Fisitor settle down iu your honse and fold her hands, waiting for you to entertain her. I always prefer to hate such company come at some uther the wrong time. Wre all want her, and will ketp her as long as we can when we get her. Stay as long ace she will. she will never out-stay her welcome:

## to spend the summer.

## By Eduh.

"What an I to do cousin Iinda?" said Nelly, laying down the lutter she had been reading aloud, with an air of vexation. perplexity, and discouragement.

I have always found that a truthful, straightforward way was the best, Nelly. I would just write a kind letter explaining the situation. and declining the girls' visit until after the Eusy seat
son is over. Tell them you are greatly over-
worked as it is, and that you dare not undertake worked as it is, and that you dare not undertake
any additional lator. If they are utended, you must try and bear it with conspusure. They have no reamo whatever to beso. People who choose the must inconvenient time for their farmer friends to entertain them, merely as a matter of convenience to themselves, and as a mans of saving money for the summer, are not people of very time natures. They are too thoroughly selfish to make their opinion of us a matter of much moment. If they get angry over such a reasoma-
hle request, it is anl the plainer that the would he bery undesiable guests. I knew a family livins in a roomy house in a smatl village, who had two half-grown. hoydenish whomb-girls sent down to them for sis weeks, while their city friend-shat up thelr houw and went to sarathga. They were merns acquaintithers. and they came for a vislt, the lady of the house rectising instructions "totreat them juat as she did herown girls, and not allow them to be rarelens alant making washing, se." shemust "limit them to so many white waists a wetk," which was a very encour:aring vi.w for the mother of eight whildren, one of whand lay dansernualy sick all ammmer. Thes allanorvived it, but it was a pazzle to invite themselven down, the lether was left unanswered. Profle who are of the order ut spongera maty wroll he atwhad by ang fair means whin ont romb. I wobld arely write the fall; and while I would write politely, I would alwh wrif. painly, en that there would be no danger of being misunderstood.

## LIGHT BISCUIT

"What, making hyouit for your workmen,
 more tam, than I do,
"This is the second time to-das." Fald the other, sliding a whe tinful in to her oven. breakfast. I don mat karw of angthing that I wan make in ten monoto thue, that is hatr in satisfying tu a compaly of hanery ment. Fhere about take the place of hom hatk wheat akio in winter. why the are far rasior mathe and far mort
 "uit, is lareoly suparition. Thare are no hearther ur hatpler set of workinern that ware amme
 is our regular chatom. I pat it phato of heram on the table for :ans who prefer it, but it is :nddem

 I think hisorat got the brad name from that hat shurtatke of ourgrandmother's. Whiot was fatirly melting with hoortening. It was a dillorent kind
 bakimg powiter hkenit.

- I don't want te hinder yon, but cond :ond
 and tating ul the ever-hatas perabl, whe wrote (mbe ytart of buttarmilk, with mongh somiat th just sweeten it. Hall a toatmonfol is watally heaping sponfal of lard. Dix five heaping teat sponfuls of baking fuswder with the flour: then rub in the lard, andmix. 1ake quickly
"It u-aally tates me juat won minuto tormix. hurry. I can du it in when: though, when in ing while I am preparing the rest of the meal. I like it, :and my men tolks like it, amy we have not a dyspeptic person in the hows. So, I mean to keep up the practice for the present."


## A POOR TOPIC FOR CONVERSATION

## Ey Ailfy.

Niss E. had a very pleavant face and manner as nhw sat down mosily fur an athermoon call. She isa well-informed wiman, and there were many topics of internt on which she comb have concersed with pleasure and protit ; bat the sole one of whith she conld xie:th, was a recent lung and hrominial ditticulty. of which she had been the victim. She milingly orened up the subpert in reply toan inguiry atumt her heath, and fur one hour thesmptoms, ireatment, and past histury of the ase were detailed with sufficht cxart-
noss for the most searching mempal inguest. It was useless to try and change the subject. It must lee heard to the encl, and all was fold as imprescicely and pleas:an!ly an it it was the nost turecable of news. she is an "xellent, kindy woman: but reen that cound not prevent the

I cond sor. it was of mo possible advantage to her, and it wal difficult to imagine how the painful review could hatve heen a pleasure
One maght suppose that Emurson had fallen in with perple "if this type, which caused him to give this good counsel, which is especially valuable to young people whose habits are forming. Ile says:-" There is one topic that is peremptorily forbidden to all wedl-bred, rational mortals ; namely, that of distempers. If you have not slcpt, or if sin have slept, if you have headache. sciatica, haprosy or thander-stroke, I beseech volw, by ang(lx, to hond your peace. He man easily sue that he takis this point too far. There are suitable times and seasths for speakwho of exmplaints, even to she of conversation. fhetails ard nut unuallu interesting to outsiders: hot on the entrary, quite the reverse. Sympathy hutit a likely throw irm at few words regard-
There are those who must taik over thetr rombes and aho regoce when at fresh listener patiently and kindly ; at the sanse time, when ou bew irkwane it is, take the hint and do int doso yoursilt. It is an art to learn to talk as to speak in a fluont atud grateful mamer.

## RECIPES

1 लор CAKF-12 eges, 3 cups angar, 3 cups four, 2 teasponfuls hakingrowinr; flavor to tate. IINGER [BREAD.- Gne-half cup lard, 2 cups mo lasces. 1 'up sugar, I cup sour milk, 1 tablespoonful sodia, 1 tah) le mumful ginger, some salt. IAMOSCAKE-5 MES 3 CHFS sugar, t cups flour thenp swer mik. rup thang-purder: thaw with lemon.

 hasos, onp buther hata,

 fonund musatked lime puarts rain-water sottle brain off and fut ovar the tire wath funds chlar grotuce, and one-half pound rosin. handrulnoof aalt. Lat comalad cut

Mrs. M1. I. II, (ireenville, Ill.
Graham fiems- 1 quart buttermilk, Iteaspoonful what o teasponful salt, flowr enobgh to make a very whit hattor, ind hated hem pans, hot Potatucote, - 1 gallon water, 6 potatoes peeled


 ful buther
 of "lower, cinnamon, and singer, teatsoomfuls sonda in acop of hot water, 2 well-beaten egge, ${ }^{2}$ Fropeny thour.
Pream life-1 pint milk ome-half cup sugar, 3tablesurnfuls flour (or 2 of corn starch, yolks
 Whon baked four in ther re:ann. The whites of survil wh !in anl hrawn iabern.

 milk ant well-betifoll whitas, fornr, and baking forwder lur a monderately miff batter.
frataks,-1 yuart milk, wo lobril in a pan of


 taking rrom fire ald wilt and vanilla to tiste.




 tar (ar B haking yumater.)
 sulgar.
(REAM I'fFF-D egas, ome-half cup sugar, two-
 then flour. split the calkr, and put the custard sutwern. 「ifstord:-1 exg, "or 3 tablesponifals surar, l tablesumonful corn starch, I

Whin hot water, like lwiled constard.
 fughtr
sugar.
 tard. beaten well. : tablesjomithts mixed mus-
 tablesponfuls vimegar: art into loniling water wher the fire, and cir hatil think, bike pustard; When whd and ratly for use tali, ome-hatf cup
crean. and add : tablesponfuls of the salad.


GIXGER ('AKE.-l Cup Mol:tsocs, I cupsourmilk,


## Odds And Ends


#### Abstract

Oremience.-A great step hats been gatined When athild has learned that there is no necesdoing it.

Like sexbeams.-If you have something to say, as a general rule, boil it down. Words are like sunbeams, the more they are eondensed, the deeper they burn.

Greenlaxd Agricultire.-It is said that carrots and turnips can be raised there, and that cabbages produce tolerably large leaves. But potatoes never larger than marbles.

Cracker Mince Pien-Two cups of crackers, rolled fine: 1 cup of sugar; 1 cup of molasses; I cup of water; half a cup of vinegar; 1 cup of thopped raisins. spict to taste. Bake like othe mince ples. The Dahlia.- It is just one hundred years since the Dahlia was first introduced into Europe. It was found in Mexico and was sent to spain. Kostritz, in Germany, is now the centre of the Dahlia culture.


Ivy Porson.-For ivy poisoning nothing is better than simple hime to it must apply it several times a day. If it once gets fairly started it is diffienit to entirel
cure at, until it has run its two weeks course.
I.wo little girls had a dispute about the possesslon of a fow beads. At last one thought of an agreement which she filt ought to have weight. "Oh, Lizhir; you should remember the Golden
Rule! Give em all to me."

Danicl Webster once used an excellent illustration in an address, and an admiring friend asked him afterwards where he obtained it. "I have and never had an opportunity to use it befor"." he replied. It costs nothing tu carry knowledge, into play

In boiling greens, always add a little soda to the water. It leaves the greens bright, and the Water will be aimost black. Be sure the "looking over" of greens is given to some trusty person. Rightly prepared, they are an excellent addition to any dinner. Serve with hard boiled eggs laid

Unconscmes Influtence.-An enthusiastic admirer of Carlyle me visitad him, hut com plained afterwards that his presence, in some On the other hant, inde dexerihes the "ntrance of Dickens into a rom "as the sudden kindling of much is there in uneonsciros intluence.

It used to he the rustom to take out to the weary harvester, absut ten o'clock, a covered tin paiful of "ohb water, in which had been mixed
melasses, a litthe winegar, and a spornful or two of ginger. I never heard of its doing any harm, but the thirsty men counted it very refreshing and satisfying. It certainty is far better than the vest ticlds.

The Labgest apple Tree.-The largest apple tree in the country is said to be in the door-yard of Delos Hotchkiss, Cheshire, conn. Its cireumference is thirteen fect and eight hoches. The
girth of the largest limb is sin feet and eight inches. It has eight branches; five bear one year and three the next. 110 bushels have been gathered in one year
is over 140 years old.

Woman's Rigits.-There is a good deal of clamor in some quarters for woman's right to do men's work. They have this right across the ocean, without stint. Henry Wilson tells us that in the law of "Jomoy Down" he saw serenteen women loceing in one field, and a man standing
by without a hoe, anting as overser by withot a hor, acting as overseer. In (ierthe railrods, carrying coal, rarrying mortar up a ladder to the up of six-story buiddings, saw women soked with dogs, donkeys, and cows, women with faces almost as black as Afreans a man walked leisurdy atong carrying a rake Fronch heasant women may be seen hard at. work in the fields, while their husbands lazily smoke on the door stejs. And yet some American women rail at our govermment.

Why The Hurse Was I'vhealthy- - A fine house could never keep its terants, though kept
in the best of repair. A fever seized its orcupants and gave the place a bad nams. An investigation showed the cathse. The handsome wallpaper had been laid on over the latst coat for generations, and the fetiduld sizing and paper were fermenting, and breeding deathin all the rowms, A thorough scraping and cleaning restored the alue of the bouse.

## MIDSUMMER

Recalmed along the azure cky
The argosies of cloud land ho
ar many a shining rift
Through all the long midsummer day
The meadow sides art sweet with hay,
Through the tall grass, a whitesleeved row
Withevtn stroke heir scy thes they swing. In timoe tharir naprys whetst ones rias
Belind the nimble yonnglers rab
And tuss the thick swiths in the sun.
Slopes the bruad pasture, barks the hull,
Andright when summer breezes break,
The green whent cinsles like a lake.
Theip of the Fabm. - A young girl, tired of The farm, went down to New York last Septemyoud soek her fortume. A paper advertised "grad wages for light work," and she applied at where collars were made. She worked steadily all day at the sewing machine, and at might joined a long line of hungry-looking, hollow-e yed women to reseise her pas. She was told that She earned twenty-five rents, but five eents whald he deducted for the thread she had used. Whe sadit indindantly, that she cond not live
on twemty cents a day, but a scornful langh and atare were $l_{\text {ter }}$ minly reply. She wath a girl of good policeman she met. The naxt day she was sent home by the chief of the Police to the llessed old farm again, with its peace and plenty, and with the advice to stay there.

## HIGHWAYS.

A highway is every passuge, road, bridge, or Areet, Which a citizen has a right to use.
Highways are crated by the fegistative art by necessity, and dedication. When private propjust compensation is given, whish andsunt is ust If a highwats inectures implasible from any canse, the fublic have a right to gon the adThes, wher of lam mas dedimate it to the public ror haglway hy allowing it to be und as such Withon may owner, or his silent acquiesence in its use for on the part of the owner and accoptance of the

## JERSEY


REDS.
8 Piymouth Rock Fowls E EgR.
FADP For
ortimer whitehend, mlodlebush CATTLE

 shire and Poland-China
Finc Setter Dowge


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By taking or aceepting land for a highway, the public only acquires the right of way, and the incidents necessary to enjoying and maintaining it, subject to the rechlations or the towns. All trees within the highway. except only such as are requinite to maka "r repar the road or bridges, on the same land, all grass there on, and becupant of the land. The owners af the land on the opposite sides own to the centre of the highways. If at any
time the highway is abaudoned the owner recosers the land.
The liability to repair is determined by statute, and, as a general rule, devolves upon the towns. The commissioners of highways in the several towns have the eare and surerintendence of the highways and bridges within their respectlve towns. It is their duty to repair the bridges and and roads and to regulate and alter such of them as a majerity of the commissioners shatl deem inconvenient; to divide their respective towns into so many road districts as they shall deem convenient: to assign to each of the said road districts surh of the inhabitants liable to work on lighways an they shall think proper, having regard to the proximity of residence as much as may be.

## COMMENTS FROM THE PEOPLE.

Wilbur F. Hitt. Indianapolls, Ind.: "Haye practicar, baper but little, but like it for heing
Otto I. Nichols, Fo. Brookfield, N. Y.: "I would grioulure the Farm ani) (iarden than any urvin Hitbard, Artesia, Call.: "I now send you crlub, and will continue to work for you and F., G. Wimal, Nothyite, taking rour paper and prize it very hirhly. We think we havereceived a great deal of informaJits. W. Love, Ft. Valleg, ria.: "I have no idea when and where youmay, it ecems to greet you "Alfred Rawson, Westville, New Haven, Conn.: Theorelved package of rose plants in good order. and we are manch obliged.
Ars. H. A. Alling, Nouth Cairo, N. Y.: "t The lombing finely. I am very maluch pleased with them. Many thanks.
J. W'. Manning, odell, Neb.: "Assoon as possible 1 an going calling with my little vellow-btrd, the FABM ANI) (iARHEN. I want all my neigh-
W. K. Hamilton, Bunker Mial, lll.: "I am well pleased with the FARM AND (rarioen, and think it $1 s$ the best little lapter that is published. As
long an I connmand tifty cental will not be withGeorge A. Nreed tomomomon, Wis.: "I re-
 grape vine lordered through vinu. Alsoreceived The collection of secds fromi William II. Maule.
They are very matisfatory I read with much pleasure your raeellant and well-edited paper and hope grul will give us a true description of

JERSEYREDPIGS GHESTER WHITE PIGS,

JERSEY REDS,

POLAND-CHINAS,

SMALL YORKSHIRES AND BERKSHIRES.
tock of the above breeds, are requested to order ear
And were never in greater demanh. Prices and particu-

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PHILADELPHIA, PA.

## THE FARM AND GARDEN.

## VOI. IV. NO. X


 month prered our, dute of issue. The sutsistiption
 or more at 2.5 cents a yrart.

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## Gdimorial Gomminn.

 to work. Fur wook and momtho pant her hat

 be has dome his watk int ahternts- whith we





 will be a harow
Aht white thas wating athe tratimg, be has
 weeds, and they arr. like hash hathita, haral to pradieate when one firmly (atablinded. stay then with harow, cultivator, whem-bre. hand hos, plow, with dingers amd wouthre, any way vom can, but kill them, and kill them mintancy Rest is a powerfal invigoratar fin the hart working farmer. Lat it he an perfort an the work Your mind should he at pas and tren from eares Only then tan you enjey the fallest ternetits from
品
But the phow that rests will rust, and the farmer Whose twhs are kept rusty for an imporner length "f time, will "but." feral uil is saiduc keep phow shares, cultivator blobles, ete., from rusting. Frequent use will duit hetter, and tho cultivator mast not be resting $t o s$ lons at a time
When done with plow, harrow, corn marker etc., put them under shelter. for ant let them lay in the fence corner or on top of the tence
Keep your ege on the stock in the pasture lot. Give them salt ncasionaly or rather, reqularly.
Tearh your horses and colts to eome to you when Fou rall them.
Keep sour garden free from weeds, and well cultivated. Buy a wheel-bne now, if you have none.
It will pay you to irrigate your garden if you have the water facflitles.
Fill out vacancles in the garden as som as they occur. Plant lettuce, radish, eabbage, tur nips, cucumbers, cte. Thin out and transplant beets. Have every available space utillzed.
Celery for early fall use may be planted the atter part of this month.
Re carcful with fire; with pipes and matehes around barns and straw stacks during the dry season.
Yon want nice, bright hay for next winter. Make it in seaton and uhile the sum shines. The best time to cut grass is when it full bloom, or very little later.
lemare fur the drumbt that is pretty sure to
 he short during the latter part of the smmaner or fatl momthe. Plant some sort of froldare erop.
 grown in rows thres and omelalf feet abart, and fuite thinlils in the rows, sity six or eirbt plants In the fowt. It is quenerally not worth while sow corn bradtract. la wrter to nhtain matity
 fowe or mearly its math as the comoman erorn

 flow ol milk wamberfally gorime the shortage of


If yon have mare than yom wint-amd vary
 ssenorally in quen domand at a prime which makex tha frombution of it vare protitall. W゙, an alwits timl sale fur swed corn in the hant
 'harars fhan fay for all expenses anal mora











 line wr yom.




















 in the tarnaro - lamd, and is salid in thw whall




 and belivar atl their milk daily to this tatory In this way giltedgod butter can be made much heaper than each farmer with three or four cows an produce it at home.
Grood butter, and al lill supply of it, will sumn drive the meamarsarim and other slamehtar house hutter to the wall. Inferior buttor will wore do it, even with the assistance of severe legislation. What say sou?
If we aim to grow a four hundred-bushol erob of potatores to the aere, we must supply the mat nurial elements which that crop removes. fow odo that, and do it the chanjest, is the questim. The green elover on one acre, which would make one ton of hay, and the eloser roots, wimht tons in all, eumtain about 26 pounds of phosphoric acid, 71 pounds of potash, aus 112 pounds ot nitrogen. Now then, turn under a good stand of elover, elther in fall or spring. Thus you furnish more than enough nitrogen, the most costly of the elements, for a four hundred-hushel erop of potatoes. All you would have to add, in order o have a sufficiener of arailable plant-fond for the manuficture of that four hundred-bushet crop, is 17 pounds of phosphoric aeid and 65 pounds of potish per acre
One humirid pounds of superphosphate of ime and $2: 0$ pounds of kainit (or a eorrespondng amount of muriate or sulphate of potash will supply the defleieney at the trifling expense of less than 84.00 per acre. From these state
ments it also appears why potash (and phosphuric acid next) is comsidered a suocitie mannre or the potatorerop.
If the raw material is tol le supplipl wholly by
 deconnumsed stable dune will tuminh iti found af phosphoric aedd, 140 pombds of !"olanh, and I2b
 four humdrobhushel crub. Finl farmer mast deribe fir himself whill method of manuring is that rheatrest for him.
It is ant to be murnond. however, that the applatiton of that quantity al mantrm-of clover and chemicals, will instue surh a larye eron. The bantation nede considerable coaxing besides. Like a con giving milk, tht field rosponds liber. ally to kind and judioious treatment.

The wheat (rop in Virginia is a sorry sight inbred. Wir whuld but wexpert more than half a rulpuhle rowh plitnt, hasing phenty of space for tillarimg, will serify the soundness of the lwotrines of those whon alvocate light seeding. II re is a chance for making fonverts. We shall
 fonnth Nay) with grail interest.

The wiw farmer haw krent and taken rate of his ilols. 'Ther woul wobry will eomb handy. It
 flas bon solatloll to do with the prier of wool, and


 buen, like wardy politiond debates, entirely frait.an. The wonl growio notd not ste ghosts nor








 latar











Mr. Andman in an ubthomast wh the quastion





 arm frrsverance. lionor was wat built in whe


 icia will yet cateh 4] with all hor rivals and eomletilors.
Mr. 'phman, we helinve, has a wood deal of
 at prosent, and wr hardly fear that he will follow Mr. La buces example, and be one of them, of Whom the adsorates of home-grown sugar might brily, " Lard protict us from sur friends."
The Agricultural Drpartment of the future mast be an atogether different athatr from the [lequitment of the past. Ar. Colman has had ample opportunity tusee its defielencies and will try to remedy them, no doubt.
At all events, we want reliable information, not packets of convoivulus major, Lattyrus odorat and of such fower seeds, as-according to Home rud Farm-are not even worthy of the distinction of a common English name. Give us information and leave the seed business to the seedsmen.

The Ohio Furmer speaks of "rleh soil and thorough culture," which they contend will make the one-ye system a success. "The careless, don't-care farmer had better stick to the whole tubers or the old system of cutting." Yes; rich soil; there is the rub. On rich soll you ean raise almost anything, and large crops without buch dificulty
It seums to us that the chief questlon is this:Whieh is the most profitable distance between the hills in the rows, $9,12,15$, or is incbes? Is it more protitable to multiply the number of hills with less tuber in each, or to bave fewer hills and a greater yleld in ciach?

## THE FARM AND GARDEN.

Glippings.
 allt all the leadng puthrations.

## From "Nutonul foudlery Monthly," sprmagetd, Ohio.

 stimulating foodThere are some who willitll you the wild gallinaceus hirds feed on fragrant bernws, carminative seeds and spices, having more or less stimulating propertues True, the wild turkey plucks the buth of the sage bush Che Aromatic Vinago Pugen, llumatla and Oceanic Fruft Pigems Cigama, Ponelope, P'ammata and Jumgle fowls feed much on tropical froits and sprees. Under domestication fowls s"qure nutritivas foond. with a little seasoning once in a while, to give relish. Aly simple comment like ginger, or pepper, is stimulating and helps to make them thrifty, but they should not be led on such quantity as would cause undue action in the system, but merely to "tone un." If finvis are fed it this way there 18 no reason to expect they will keep in good condition and make themselves valuable to their keepers.

## From "Guripners" Monthty," Philadelyhia.

## ONE HUNDRED BUSHELS OF APPLES FROM BUSHELS O. ONE TREE.

In the Gardeners' Monthly tor December some one meations the case of an apple tree bearing forty-three bushels of apples in one year, and asks for record of a targer yield.
1 would call to yonr notice a tree in Cheshire, Connecticot, helonging to Mr. Helos Hotchkiss. which is heheved to be the largest apple tree in New England. In 1880, when I measured it, it bad eight large branches, each of them as large as an ordinary fult-grown apple tree. The spresd of these branches is six rods: five of them in one year have borne elghty-five bushels of fruit since Mr. Hotchkiss owned the place, and bis predecesgor had over one huodred bushels in one year from the game five branches. which had a habit of bearlng one year and the other three the next.

From "Breeders Gazelte," Chicago. Ill.
It is annonnced that agents of the British Government made a contract hast week with Armour \& co. of this elty, for $5,400,000$ pounds of canned meats, and that on Monday of this week a contract was made with the Falrbank Canning Company for $3,800,000$ pounds, making a total of $9,251,000$ pounds. all supposed to be designed for the British army. Thite immense order has some significance in its relation to the probatilities of war on a large scale in Africa, In support of Britioh anthority agalost the followers of the "false prophet,." or in Asia In opposing the Russian advance beyond the alleged Afghaniation frontier, but it has an especlal hearligg upon the relation this country sustans and must mon-
tinue to sostain toward Grest Britain in the mather of food supply, and wore esplecially so when the prace af Europe is threatened. In times of profman meach wen, the British people find this country the chief reliance for meat supply, white in case of anything like a general European war, the American store-house will berome well-nigh indispensable to them.

## From "Farm Jinurnal," Fhiladelybia

## HOW YANKEE WOMAN MADEGOODCHEESE

1 used to make cheese the storeketners liked to buy and everybody liked to eat. Gur dairy was mant, and they were made in a simple way, just as motser made them. We thought a great deal of cheese in thuse days, and it seems to me that it was not so sharp and indigestible as it is now. There is toe much lurry now-a-days, and the cheese is spoiled by too much rennet, to get it quick andget it out of the way as soon as possible We used to take all day for one cheese to come and drain off, and all of this time it was getting better, or, as they say oow, "ripening," and that means, I suppose, getting to be real cheese. The lurried-up stuff is only partial cheese-green-and it gets strong and is not good. You cannot make cbeese after it is put iato the press no more than you can make hutter after it goes into the bowl. What is there is there, good or bad.
The rennet is the stomach of the calf, saved white it is living on milk. It is dried in salt, and when wanted for use it is soaked in salt and water, and the Juice is used to make the card for the cbeese. Soak one rennet in two quarts of water. add take a tablespoonful of this liquor for twelve quarts of milk. We used to make doublecurd cheege, and ase the night's milk. The rennet was put la assoon as the milk came in, and the curd carefully dipped out into a cloth and pot into a hasket to draio off, io a cool place. In the morning this curd
wonld be ready to mix with the other curd when it was would be ready to mix with the other curd when it was prepared. The curd will come in the milk intencr then be cut foto small squares with a case $k n i f e$, so carefully as not to break the curd. Dlp out the whey, and do oot let the curd or whey get sour, or sou will bave a soft and rank cheese. The whey shonld be bested as hot as one could bear his hand in it-about ninety degrees or a little more, and poured upon the curd. When too bot, the cheese will be hard and dry.

When the curd bas a squpaky feeting or pulls ont of oif mat in hat whey und add it tor hatlon of whem
 a choth to drain. When dranma, pat it into a chompar bowl, with the curd of the what before, and whap 1 fine ; put a small teacuptul of calt to twelve pounds of curd, and pat it into the press. equreze grabaly
first, and inerease the pressure anth the press is quired for the mext cheese. A rluth bandage shomat te pot aromid the chemp, and it mase be curned and ruthen every day. Rab with buter. amd kephom a coob, dark phace. As a genatal average, nume pomats of mink wh make one puand of chwes". 'The riclaer the malk the less required. The pressare should be mongh to fore out all of the whey or there with he purid gots in th cheesw whore cells of it are ritamed, and these hak
bad-smelling and tasting cheerst. More might be sath I had the space. We ought to make chetse in duy days At night take the cheese ont of the prens and turn it.

## From "Western Former," Mfolnt. Ill. THE DUCK QUESTION.

Again mast we call the attention uf treders to the protit in ducks, when properly cared hor and when the are lacilities at hand for bending themp popetly. Many a farmer has realized far more from breedng duck than he would cottatn from has chickent, for they at very herdy, and lay remarbably well hurny some pats of the season. As suma ats they commence to lay, the eggs should be carpfully gathered and put atway. A such as ad hens (hut a dick) wants to sit, set her winh they are able to care for themselyes. A hen will care for a broud of dueklings far better, ordnarily, than wall an uld duck. If the ducks think they have laid enough "ggs, and show unmistakable signs of wanting to sit put them into a convenient cons and put whe of your most vigorous younc lrak with them, and they win sron be willing to shell out eggs ugain, which shoula be set under hens us fast as cunvenient, so as to hring as
many out at a time as possible, thertby lesseming the cost of attending to them. A shallow tuh, kept well filled wih water, will afford plenty of bathing room for the ducklimys until they are two or three months old, or perhaps longer

## From "Americall Apriculturst." Verv vork.

## NUT-BEARING TREES

The time is not far distant when true planters will ake the fruit of forest trees into consideration in maklog selections for planung. Chestnut and hilckories, and Pecan and English Walmat in southern lucalities should pay a good rent upon the land for a number of years before they are converted into timber. Mont bovs are aware that some lickory and chosthut trem produce nuts larger, sweeter, thimer shanled, or in some particulser superior th tha aserabe. The vartation
in the nuts is sumptimes strumbly marku. In the sinlection of nuts for plantimg, sump waro and even expenthe devoled to securing the choicsst whatimable varieties arp likely to he rewarded when thw trees come into hearing. One of the most distinct and waluable variptine that has ever been brought to our motion in the "la tale's l'aper
 describen it muler the atuve nam. It is a varioty of the common sheth-tark inckory, and the tree is now the saddle River, on that farm of Mr bi, Hatro shem two mites east of Ridnewood, berkell Combty, N J. The tree is a large one, and prodncos a fair crop of ints anmually. The gemeral appearance of this nut is quite similar to some of the varieties of the Fnglish walmu. the surface heing broken up into sman depressions in-
stead of angles und corngations, as usually seen in the large varleties of the shell-barks.

## From "Western Rural," (hicugo, Int

## WHEY AND OIL MEAL FOR CALVES

Weare asked by a correspondent if oil meal and whey are as good for a calf as milk, and how to mix the meal and whey. We suppose it can hardy be said that anything is as good as milk. Or more properly speating, it can hardly he said that a mixture equal to milk is ever compounded, though there nuight be. We refer to young calves. After a comparatively short time, there are foods tbat are better than milk. Whey has a considerable feeding value. The foltowing is the analysis: Water 93.02: butter (pure fat), .33 ; albuminons compounds (containing nitrogen) .97: mllk, sugar, and lactic acid, 4.98 ; mineral matter (ash), 70 . The ash, it will be seen, is large, nearly as much as in whole milk. The albuminous matter is nearly one per cent. Now, if you will replace the oil that has been taken away in the cream and add the phosphate of lime, magnesia, sulphur, soda, etc., that have been taken away in cbeese making, we shall have made it pretty nearly as good as natural milk, and made an appropriate food for growing calves. There is no single food equal to oil meal that cao be added to whey. It cuntains about twenty-eight per cent. or muscle-forming food, and that is what the whey most lacks. It also contains about tea per ceat. of oit, another deficiency io the whey. It has also considerable lime, mafnesia, potash, soda, etc., which the calf
quarter on a ponim of what bran, gromul mats, ar bar ley to each gatlon of whey.
brom "Rurat Pru" It iker," Xiw Sork
If we lowk armmutan consider the resnits of alt the

 Sith foreign countries. Our tram an provishom has largely grate into othw hands, and the aband cry about
 and rontuets whth heary tanlfs. The large business we has been morely pezentud, and on line stock metent has lost milhons of donlars anhally. As an instance let whe give the folluwng figures: A bot of diz steers, av ho is engesel mo for sur catte, for absur sig per heall. The same kind of ratle Werp worth in Englant, at that time, fior the samat purDume abeut zire. If we conld ship sued ammals abroad fad supply the large demand, which tha prive indicates it would be a profitable business. But min stopek is looked dponatroad as retking with all the diseases maginable, and is forbuldenentry in foreign ports; whifle at the sane tille it is the heallhast in tbe world. This is the serious part of the businnss; the farce of it is the constant investigating bunness; the highly senvational and bromo-lithegrathed reports of the ductors, and the humareds of thousamis eftillars which have been speat mong veterinary doctors who wuld otherwise bave found no use for their talents.

From "Pouttry Ferper," Chirago, Ill.

## MINKS.

L'bluckily for me I am not a millionaire, hence this Wher. If I were one of the above-named lucky morhak. I think I would proceed tu hire a correspondeat clerk and invest in a lew paper and envelope mills immedlately. For, since you publlsbed my letter, offering to sive any one my method of desling with mioks, weasels, etc. the letters have poured in from every di rection, until I have finished my education in writing lessons and exhausted humanity calls for a relaxaticn. It is surprising how many ponltrymeo are bothereti hy implore you to publish the following plan for destroying these enemies of poultry
(ikt wide hoards and place all aronad the Inside of your yard (ur on the side the ninks enter), leaning against your yard feuce and about slx nebes out from the bottona, so as to leave a "ruo" behind. Place the boaria butt to butt, making close Joints, and at intervaly of two or three thards make a moull hole, opening inth the yard und the edige as above. Directly behind these holes place your trabsi use number two, single "pring 'Newhouse" steel trap), corering it well.
Covering your trap is very particular. Make a hole Just deep though to lave gour tray level with the surbace of the groum, then cover the faws and springs with sawlust or light earth, making everything look natural ; Irop carnlessly a drad leaf on the "pan" so as fomber it well. C'areshould he taken oot toget lumps of farth under the "pan."
that your chain is fastened tirmly or you will lose your trap. Be careful and not make your holes under the hoards too large, or some inquisitive bird will get its neck syupezed.
The above is the begt plan I know of, for your traps can remain "set" hoth night and day, without danger to the fowls. A millk or weasel whil not climbover the hoards whin they can travel on the ground or under.
When the alove plan cannot he carried out, as in the case with an open yard, try this:-
Around the fowl honse atake plles of roots, rubbish, Sticks, etc., say thrfe or tour, and 8 arrange them as to leave a small hoie in wach. set yonr trap just at the entrance of the holes, and cover well. Put a few drops of the following oil just bryond the trap-ahout a foot or so: Take trout, minnow, or eels and cut fine, put into a botue lighty corked; hang this in the sin for three weeks, when an oil is formed by decomposition. Minka will leave your hens to follow up this scent. Care should be taken to spring your traps every morning.
For the henefit of those who do not koow what is working among their birds, I will say that when you go out in the morning to feed, and find your precious charges lsing in heaps all over the house, with teeth marks on the top of their heads and bloody wounds in the neck or under their wings, you may be sure they are mink marks. It is surprising how many fowls they will destroy in a night. Where these pests abound I think the poultry house should be several inches ahove ground, and made tight. Minks will go througb a bole not larger than two inches in diameter.
Mr. Editor, you have published cures of different dieeases among pcultry, but I tbink a want long telt is a description of such ailments, so simple that every one can tell at a glance what ails his poultry. Hope you will see fit to publish a "description of ailments among poultry" at some future time-E. C. Burdick, Arthur Afichigan

Goprespondenge.

girls, in nefy circumotan+ w, will prefur stand ing in stores, working in owererowded facturt
 Conking a dimer or blaburathy trimmine a hat
True, in large citis, where servants are batily secured, it may make a differenn, and the we to be looked upon as degrading. But in the good girls where they are well tration and placens family; wher the word seryant is igrosed and the tindliar
 with their childran. This inst we fonald trus a hetter edurated and more refonel elase of siris
those whore arealith to be the datly compan lons of our little enes. There is many a muther
living in a retired comintry home whon womle glady share in the work of the hamelthid for

an instruetress. Let me give gou an instance
my experience:
A young friend of mine, well oducated. What had studfed for tho purpose of homming She wrote me the obrumstances, wayng the did not like to ask her lather to suppert bor, hat no help, would I take hor at the ordinary rate of me a vear, only havins hewams she waroeded in aeademy. Need I add that wis luth regrettet the parting, and both felt we had hoen muthally graded, becanse whon she takits charge of : bome of her own. She will have added to her
other accomplishments a practioal knowledge bonsektreping

And this hrings out another thought. Our bright American girls, Just on the threshond of day in the future then they nian really hav bomes of their own. Tell me, will yun, hory many of them whe, th tarly life hatwe hew port, would be eapable witaking charge if himes of their owns. Could they ecouk a whotesme lng of preparing those dainty desserts that ply the finp-art touchings to a meal

Girls, there is plenty to do for those who wish to do it, and if these remarks will lrad you to do away with that forllsh ldea or degradation, st that if your work is growing dull, you may sork
bomes where you may he gaining strongth and knowledge that will he of guod nervite to you in this everyday-working world, we will be coming very near to the solution of one social problem.

## A HOT-HOUSE AND PORCUPINES

Although it is late in the seasmn, perhaps deseription of my impromptu hat-hed might be lnteresting to some of the readers of the Fans as usual, in a large box in the house, bnt was somewhat disappolnted to see the plants growing tall and slender. Noticing one day that the manure heap was steaming, I asked Alonzo (I) am Philomela to carry the box down there. 1 then covered it with a window, and hehold, my plants are stubbed and nire. Every day, unless the weather is freezing, the glass is taken off to keep them hardy. The tomatoes started out so nleely that 1 fixed hoxes with eabbage and flower seeds. The plants are doing so well that I take every caller to see them.
The other day a stranger, notleing the eabbage plants, said that his cabhage was very nice last year, but was entirely destroyed by the green worm. I gave him my remedy, which may he Dew to some of your readers. Sprinkle wheat bran liberally through the plants, renewing after every rain. It saved my plants two years ago with very little searehing and killing of the pes and last year I was not troubled.
Last week the dogs eame in with their noses poor creatures did roll and claw thir heads
'wrly had revidently luren there before, as she her musi. Wh. [uld hav tolio down, amd balled for the pinerds. He held har while I pulled out as
many atuils as labld, and then he filled her bobith with alry ashes, bolding it shat for a fery Pelke would mot hold still to have the cluill fulleol out, amd was only treated to a dose o
whes. The faills hava all dropped wat without
$\qquad$
$\qquad$
$\qquad$ atter what to do than I clid when the larm de

## WHAT IS WRONG WITH THE INCUBATOR?

## 

$\qquad$
isfore lan wammer. Wै: have aet it fonr timeeges set. The first time it was very onld weath
that of hatul hard work ta keep wh the rogitiretfle'sh the slarll. Thay whly lived a ghort time
In the rest of tha fertile aress wer. . Whateme deat
twelve ehicks.hring out ninety por cent. of the egiss. The eggsI winh sumpludy wolld give lide "xpertence


et eisht weoks wh. It whme of a mostiul hatel
going the same treatment, must dice in the shell
$F^{*}$ Thatehe Martnette Wis. asks "what is the atter with the teats of his com at sore forms of The teats have been probably frost bitten.

H, F.. Mirtch, W"est Brooklyn, asts "what is dogive a cow after eating poison laurel? Answer:-filye a purgatlye of some kind, say Glanber salts: dose from four to eight onnces Then feed on nutritions feed.


With either regular Incline or level tread rack, ha OOYLESTOWH JUMIOR TMRESHER ANO CLEAMER facturer, OANIEL HULSHIZER, Ooylestown, Bucke Co., Pa

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## A.BGANC.ENGRAVER eO FOASEGDSIEN FLORISTS\&DURERYMED 10000 H

leader, linsdat, N. H., asks why the yolks o ers are solmotimes su whitn. Answer: The yel ow color of the soblk js in the oil that in lear

 Mr.L. Kuv゙or, Womblhull, Ill: Dis any of the froters of the FAFM ANB GREDEX know of a on, give the hames wf wome thlow most desirable
 with names and W. Hibkos: In lpril numbar we notive rou ay hes three-fingored variety. The following wo be-
 with camels has brush thres or four times per lay. Cures in twelse tothirty-six hours.

Mang ask us the proportions of cement, sand, ured in the Fiobroary mamber. We saty sonu will tind the whold art and Proper pompartions of lepails than tha artiole eontains, ar, in tiat thert can be nome. Read the artide cartinlly.

Interpsted Reader asks "how often shonld aks the changed to keep at thok from teqeneratug?" Answer:- Inch depends upon the health and vieror of the old stuck. If very vigorous incy in two or throw years, if omby the thest birds are kupt wrer, as should be done If the old vorar and kerp only the best, most actlve, and
12. Burland, Murt Kent, Fiscux Co., N. Y̌, eommans that Wr did not ankwer "How to grow firr lant years planting, abll rather early for this wo waitud fir its proper seasom,-May. We try tu planse our readers. tut we always wlsh to five all topios in due season. We balieve Mr. Burland will sete the propriety of the plan of lu-ing alwas: in season.
T. F.. Bomburnot, 2ll4 Farnania street, Davenport, lowsa, anks " if grulw ur worms th the back rent and "ury thens". Answar:-The grubs are
 kin of "attle latto in summer, and the egg hitchew is worm whidh, when grown, ehanges ugain into a fiy. They (ath be prevented by bathing thw back of tho antmal with anything rrulsjue t', the $H$ y which lays the egg. But the rame are asbad as the grobs. The milk, unless the cow is fevered, will be gond.

A Reader, Forsler, Ill., asks at what ace should wolt be weaned. Answer:-That depends apon the vigor and growth of the cont, and how good a milker the dam is, From fomr to seren months is the neual extreme. The best rula to follow is os allow the colt to comtinue on the dam as long 1. both do well. As soon as the eolt will eat, allow it sombe fine, sweet haty, or if possible, to ron (1) pasture. If extra growth ls desired, feed on coushed oats, one or two quarts at a time. The aim must be to keep up the growth of the eolt and to teach it to eat ford so that too mueb change of diet will not be felt by the colt in weaning. W"hen the eolt is weakly, feed on oatmeal gruel.
 this. Invnlunble as a signnl on the farm or over the Water. Exact size of a 50 -calibre centre-fire cartridge: brass, with nickpl bullet. Farmers, sportamen, and plensure-seekers shoul wiercingly shrill whimte made. in stamps. Address, REMMIE, ALLsOn a CO., Phllad'a. Pa.
:万umorous.

Haven't you always notiend that when passenger rates are cut down to nothing and a thromo thrown in, it is always on some lim which you

Experience has atisfied an English hotanist that plants have a faint intelligenoer. Possithy therefore, we may yet come to compliment man ty calling him a cabbage-hud.
"I see they are serving refreshments on rollerskates in some of the restanrants," the hushand said as he laid down his papur. "Gowl gracions!"
A little girl who had heen very observant of her parents mode of exhiliting their charity, buing asked what generosity was, :mswered:-"It is giving to the poor all the old stuff you don't want yourself,"
Gentleman.-"Ah, Patriek! Warm thismorning. Guess the young people won't get murh skating to-day. See buw wet the ier is," Pat-
Rrck.-"Niver yon fear sorr; jist wait till the sun Rrck.-"Niwer yon fear sorr; jist wait the the sum
gets a litue hoigher and the oice will som dry off."
An exchange announces that the "Ladies" Forelgn Missionary sucjely or the First Presbytrian Church will serve a missionary tea at the chapel." We had supposed that dining off misshmaries misinformed.

A Philadelphian went to a physician with what be had feared was a hopeless ease of heart disease, but was relleved on finding out that the creaking sound which he had heard at every deep breath was caused by a little pulley on his patent suspenders.
"Ah, my littleman, gool morning," pleasantly remarked an old gentleman is he stopped and patted an Hews street little boy on the head, "have you any brothers and sisters?" "Mes, sir: got four, but I'm the only one that mounts to anything," replied the urthin.
Little boy (at the front cluor)-Is the doctor in Cause of he is 1 want tos
"Well, just as som as he gets home you tell him to come over to our house and take that bahy off be left hast week. It's in the way

An lrishman who was sleepling all night with a negro, had his face blackened by a practical joker. Starting off in a hurry in the morning, be caught slght of himself in a mirror; puzzled, he stopped and gazed, and finally exclaimed: "Begorra, they"ve woke the wrong man!
"Do you know what bulldozing is?" asked a man of an old farmer. "I thought I did," sat the granger; "but the bull wasn't dozing: he was only mating beline and being in the middle of a forty-aere lot, I naturally had to make pretty quick time to reach the fence ahead of him."
"What is the breed of your calf?" said a would-he buyer to a farmer. "Well" said the farmer, "all I know about it is that his father gored a justice of the peace to death, tossed a book agent into the fence corner, and stond a lightening-rod man on his heall, and his mother chased a female lecturer two miles; and if that aint breed enough to ask 81 on, you needn't take him.

Theminister lastSunday morning had preached s very long, parched sermon on the creation of man, and one little girl in the congregation was utterly worn out. After the services, she satd to her mother: "Mamma, were we all made of dust?" "Certainly, my child." The preacher, too?" "Of course. Why do. you think be was not made like the rest of us?" "Oh, because he is so dry, mamma, I don't see bow the Creator could make him stick together.'

Double Taxation,-"Hello, Sam," said a gentleman to an old negro riding along on a mule, where did you get the beast?" "I buyed ' im , in cou'se, boss; you didn't tink I stoled 'im, did yo'?"-"I wasn't sure. What did you give for him?" I gib my note, sab, for fawty dollahe." -"Your note, Sam,?" "In cou'se, sah,"-" Why, you'll never pay it." "Cou'se I won't, hoss. Yo" don't reckon dat man specs Ise gwine to pay fo' dat mule an' pay fo' dat note besides, does yo'? No sah, hits ez much as dis nigga ken do to pay so' de mule.'

GHE POULMRY YARD.

## ARTIFICIAL INCUBATORS.

Artificial incubaturs atre coming each year int pactical use. When they have the proper attenprororm vary successmb inchbation. Rome of them arr very complex and owing to using lamps and other "entrivanes for heating are some what dithenlt to requlete.
The savidge Hydrolnonhater is constructed on The siavidge Hydrotinnhator is constructed on
different principle (using lat water only), and is very easily made and managed. Noblanps are required, and no eoal wil sumell in the rom, or
sudilen heat or chill, but an even tomperature free from smoke or dirt, is maintana by alding as nas be required, a fow gallons of hot wator. These Incubaturs can be wht in at dining romm, and prontithe boud of spring chickens, when there is little on tho farm to do, and an eany :und pleasant way of finding both profit and amuse
ment, if desired. A poor hateh of ehichs by the hen of the pobltry house is supplamented by the hatcher, and the hen will be happy and content With a numerous family, insted of wanderine chicks. The ineuhator is su easily made, that any bright farmer boy could eanily make and manise one.

## POULTRY SCRATCHINGS.

Snbfhem for Fencifg,-We have never tricd the experiment io any extent, hut once noticed an excellent fence aromd a poultryard, made
by sowing sorghon soed thickly, iwisting and matting it together after being well grown, which confined the fowls closely. norghum does not for as quickly
Sudden hhowers Detrimental.-During the summer many chicks are caught in showers or very are When sigas of pin appar colup up the chitks. If any are reposed, and become drenched, place them by a stave until thoroughly dry again, for, as we have frequantly stated, dampness does greater injury than cold.
StmaEr Diseases, Wheneversymptoms of disCase appear, do not beyin to give medicine; but first examine for lice. Nore than one-halt the ills The fowls begin to droop, become sluggish, lose appotite, have bowel diseases, and give but fery returns in eggs. Little chicks sucoumb very nom, and de without apparent cause. Lice are from the premises except with ditheulty
Late Peliets.-Early maturity is an important factor in a pullet, and hence it is now tow
late to secure them early. The best eourse to porsue is to make op the time by crossing with cocks from the early maturing breeds. The hest eock for this purpose is a Leghorn. I'ullets frim a Leghorn eock and ordinary fommon hons whl quently if the pullets are hatched in Jume they will lay in Debember if the winter does not come

Ega Producing Food,-Withont resorting to medictnes or chemicals the fond may be sor embined as to be complete in nutritive qualities, and in a cheap form. An excellent combination is 10 lbs . Wheat, 5 lbs corn, 5 lbs . buckwheat, and 10 lbs . oats, ground together, and fed once a day, first being scalded with bolling water, and given in the form of a stiff dongh. There should be no other food given until night, which may consist of whole grains, but corn should not be given during the summer.
Fowls in Confinement.-Feed nothing to them In summer except in a form for whieh they must scratch to procure it. The old method of giving a good mess of soft food in the winter is well enough, but during the summer, if the inwls are confined, they should be kept at work as much as possible. By using leaves, eut straw, or some coarse material, and the food thrown into it, the hens will pick out every grain, and by constant scratching, exercise themselves as well as it allowed full liberty in the fields.
Ducks.-Dueks grow much faster than ehicks, and, if fed liberally, can be sent to market when three months old. They are subject to hut few diseases, and some breeds, such as the Aylesburg, will lay as many eggs as the hens. Eggs from young ducks, however, do not hatch as well as those from two-year-old females, and this should not be overlooked. If a pond is not convenient, provide them with a trough for bathing purposes, flling it with fresh water daily. This may be easily done by attaching a hose to a pump, thereby saving labor.

Young Gundas.-Never leave the eggs for the winta hen to hateh. she will no dombt know What todo for ber young and ber as sureessful in raising them as the hons, hont the sumgenineas will lecome to widd and untambable. (ruineas, if hatched moder hens, will sason become areusfomed to going on the rinsts with the other fowls. It is best to hatel) at fow whicks with the guineas, is the guimets will semm imitate the chicks in obeying the hela. The cegu for thicks should be put undre the hen one weak after biaring the hen on the goinea eqgs, wi, that all the eggs may hatch ot the same time.

## CiAtiara white grape. Marliporo raspberty. <br> 40Mldden Name, Fmbaracd and Nem Obrama Carda, name in new type, an Elegant 48 pago dilt bound Floral Autograpb Albnm with quotation $\mathrm{p}, 12$ page Illustrated Premium and Price Listand Agent'b Canvassing Outift, all for 15 cts . SNOW \& CO., Meraden, Conn. 50 CABD




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roughest roads and find them perfect. 1 cannot praise ton bighly, for they are complete in every respect. We hare reculved the Annual Catalocue of ponnsy
wania Siate Cullege, fur 1834 and $18 k 5$. It is published the Board of Trustees, and will be sent free to applicant
Mr. J. A. De Veer, importer, wholesaler and retail Brosdway, sand has admitted Mr. Wm. H. Bonmkami sa a parlner. The bulbs which gave our fritnds surb
gplendid satisfaction last foll, were imported for 119 by meat on page? of this number.
P. C. Lewis, Catskills, N. Y., makes a speciaity of the garden use. These labor-gaving instrumenth should he used In every orchard, and we ask anr caders to w


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Vol. IV
$J U L Y, 1885$.
No. XI.

## INSTRUCTIONS TO CORRESPONDENTS. <br>  Renewala cun be sent now, no thater when the sulis.tiption expres, and the time will be added to that to which the sulbociber Remlitancea may be maile as our isk hy Pon oftee Order   <br>   al\#sers give your fult name <br> Natnea canour the guessed, wo write themphaing and in fult. If a  Errora- We make then seis ar mike a misane on this poin   <br> ADVEISTSING ICITF: - From inaue of January,  Wue each lanertion. <br> CHILD BROS. \& CO., Publiabera. <br> No. $\mathbf{F} \mathbf{2 5}$ Fllbert Mrect, Phlladelphla, Penn

## THE FARMER'S HOME GARDEN.

## By $J(a+p)$

Here we are, all out of hreath, runnlng with minht and main alter knowledge: yet all we can expect to do is to get hold of truth's coat tails Pefore we can get abreast of it we are catied of the race, and from this reasen alome du I heplore the shortness of human tile
If woman is a delnsion and life is a delusion, it is wonderful how men will hus a delusion, athd confess that I would like to live two if thate lives or stick to the one 1 havi gute tiont, at long as I an in trim for the pursait ol knowledge and truth. Or are these delusions also?

## +

ret we are apt to lag behind in thas rase akter agrictaltural knowledge, or get catelem in lts distribution. Who is infallible? I leel the thanking W. I'. Strele, of florida, for the what criticism of my May article of Farm and ciarmen It I am in cror, please correct me, and I will thank you for it every time.

I have no prejudice whatever against handdrills. I have nam Mathews' a great deat, and perhaps am prejuliced in its favor. Many others, Hike Mr. Steele, prefer the Planet Jr., which has the points of superiority mentioned by him in June number. Still, Mathews' drill is an old friend of mine, and I have used it for sowing almost all kinds of seeds with the exception of salsify.
+
My remark that i consider it "shiftless to sow seeds with a hand-drıll," must be construed as limited to beet seed entirely. 1 , as well as every othergrower of experience, can plant confidently and successfully with Matthews' or Planet Jr. drills or any other, or by hand either. But the way described in my May article is the easiest and safest for the novice, and good enough for all. If you have a drill which will sow suatied seeds perfectly, and drop from three to five seeds in a bunch every twelve inches or so apart, I would advist planting in that way. We also have to consider that the home gardener hardly ever has a hand-drill at his command.

## $\pm$

In sowing peas, beans, corn, etc., per handdrill, I make it a practice to mark off the ground with a one-horse mather, making the marks quite deep, then plant in the hottom of these furrows, In such a case Mathews' drill, with its one wheel, is greatly to be preferred to the double wheel drills

During the last few weeks I have seen many very fine home gardens in the South, with tomato plants by the hundred and cabbages by the thousand. Two things, however, are sadly needed, namely: System in planting and good tools. As it is, a southern garden of little over one acre in extent, requires one man's work during the season. The garden would require
only one-fourth that anmoust of lathor if it wer
 atal if the laburer wath powided with at geme honse coltivator andone of the moxdemimmoned wheel-homs. How easy this conld be done! What an infrovement in apumance! What at sating in lithor:

Clear the old radish and letture beds from ruh bish and replant with othar staft. Have every spot oecnpied by beathy, growing recetation Feep the garden in chaltisathon and lowking dine. 4
Turnips should be planted this month, for hot neglect lodust the ?uming plants with plaster or ashes, to kecp the flea beetle off:

## cultivating.*

Herrone cend r'thzather. Shatel Mou', Hoe.


The object of ittecultivationgiven to the potato fleth is haree-fold:-1. 'fo keep down every sign of weed growtl: 2 . To keep the soll wed palverazd, thae and mellow; 3. To prume the ronts;
and all this instricled to the earller perlod of and all
growith.
For the Arst twe or three wewks atter platitng and tif to the time when the vines are thate or tout ninches high, a common inght harrow or drag is He mhly tool required. It answers an thret purposes ferfectly; and, isudeed, with an msignmeant anomnt of labor. Une hatmwing atualls dmes more guod and shows more listing effects than three cultivatings. It is better than hand hoenns. The eultivator, like sial, slew Chomands (of wevis). The harrow is the Jatrad, Wha slays his ten thousands. 'Ihe harrow makes the ground mellow in and around every hill, and leares not a weed.
'LUse slight root-pruning eansed by the drag ceeth, seems to be a durided berrifit in this early stage of growth, and to result in an increatsed development of the routlets, whieh ant as feeders and sulpirmers. The phats respmid to this treatmont wath sutomishing quakness. They seem to nrow visibly.
sume tarmers anderstand this princtple very well, and not contented with lighi pruming, tear the Figure 6 roots to piecesquite thoroughry with a home-made ifon houk The dretg derdurnis ats work to our perlect satis faction, and the do mot lecumamed the use of

supplementary tools, in particular, if it involves a great deal of hand labor. Enmugh is a feast. Harrow the field thoronghly, inst in the directiom of the rows, then crossways, every five or six days, and stop only when the plants get so


Hilled.
large that injury to them must he feared. If a sufficlency of sced is used, this will be soon enough.
garden plants. The reader knows
ts was not a man to favor any crop
Thma the cultivatur shombiake the flacem the

 orlod futher workiag among thems.
The shovel plow is not nemeded for chltivation purposes. The practice of lilling up great mountains amsund cach plant, will soon be a thing of the 1 :tot. Soils on when this hilling is necessiry, are nut disirable for potato growing.
The Filitor of the Kumal Neu Jorter elains for himself the priorits of the level-culture intea. He has bean an enthasiantic advosate nif the new method, and his phenmatmal fields hatye given strong testimony in its favor
A test, mate by us in l8st, for the purpose of ascertiannug the ithative yields resulting from the old and the sww methods, was, wo certann Featoms, not as reliable as we could wish; still, we will give tle figures:-Hilled, Early Gem, quartered lengthwine, land rich, momst, menty of rain; yied per acre, zul.46. Level, mater same conditions; yleld jur acre, 29 atbl bushels. The
 tubers under level
than with hlling.

## SLOEOOTS IN HIS GARDEN

## Ly Beetly Aich.

FHobonts garden is improving. The first crop at weeds has been plowed under, This was a
grand slagnter of the ploweeds and pusley, the burdock and birdweed, the dandellon and the ducks. To be sure, in order to do this, the early crops were wathhedi. 'Ihere was no rush to see now sonn alter the last snow was off that the squashers rombla be in. Slobouts held his vaulting anultion by a chose rein, and when the garden was fatrly oyerthwing woth somel and lafin, he went in and plowed the whole arca excent the borders, when the strawberries calmly awaited their date in the forming sorl. The blowman was a nelghbor who hith a buney hurse ahad a plow to match. The fumows could be emsily rombted, as etch one was neatly separated from the two adjoining by a lace-like fringe of grass and fine Herbage. The design that the pow had cut upon the whole surface rif the gitden was fecmliar, and seemed to please thase who massed hys. When stoboots returned honse that June evening, be foumd nearly all of his garden mants bad their E+t, so tu sprak, caught in the furrows, aud in their own feculiar way, were imploring to be reficved from the traps the plowman bad set for them.
Sloboots felt that theirdeseris were met; it was Gund monogh fon Hom, and began the assorting of the seeds he had lowought from town that day. The letuce was first planted in hills In one corner of the garden, and so exact was he in this, in order that no one hill should crowd the others, that some of the seeds fell in the grassy depressions, while others found a resting-plate upon the furrow tops. a resting-plate upon the furrow tops.
some peaple can be exact when they once make up their minds that mo
favors must be shown-not even to that Sloboots was not a man to favor any erop
in particular. It was enough that seeds were permisted to have a place in his estate. He was a thorollghamerican, and was filled with the spirit of independence, especially so on the 4 th of July. If a plant had rights, all it had to do was to as sert them, and they were granted. The weeds, having been brought up on the ground for years, knew this, while the innocent seeds, coming from a far-away seedsnan, who had shown their parents sperial privileges, did not reallze their mecarions situation until it was too lite. They had not been reared to fight, but on the other hand, to dwell in peace anl rapidly reproduce their kind, Thre beets started out on their mission as well as any beets could, under the circumstances, but they were soon beaten. The cabtatges stretched up their neeks and
endearored to get into the sunshine, but thelr bones la a large kettle; the ashes in the hoppe ting heads sonn drooped; they lost color as well weedsaround them. The tomatoes never reached the flovering state, and between the weeds and the worms, the turnips were soon lost from
it is. The soil was not very good when Slohoots selected It for his garden-spot. He malght done mueh better for the same money. of recuperating land, namely : green manurin Ho bas already plowed under one green crop. and if he continues in thls good way, he can twr at the end of the year the amount matter in thesoll will be laryely inereased. There eeds, but accicental
contlimously bullt upin future vears. Sonie on. may say thre is a loss of a eron. But under the most tavortule conditions and best or care, is less He mirht hare hoed and rakid the whrule season through, and a blight
have swont the whole awily in a single niart natuminir is uneertain. Is the land not mor

## SAWDUST AND POTATOES.

them on their way throngh the newspapers
$\qquad$
$\qquad$ sawdust was applied in the potato lifll and th


| single eyes and dr"plot twn wh in e: <br>  |
| :---: |
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|  <br>  hill, and the sewd depmited on it amb caredally covered with soll At the sable thme 1 s.t out four other rows, which [manmred as finlows:One with :ashes, onp with mathe soil, none with a manufueturul frotilizer, and one whth tahbe mannte. All rows were of same varinties so that thers rould be no difterence in the seed or soil. They were plantad all on the sathe day and my blat was to give each row th fair ehamon ()f the putathes plantod insamdust hardly fifty |
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for dralns before the planting is performed. In the use of fertilizers it will be best not merely to provide a suffieient quantity to earry out the erops in case everything else is favorable, but to
furnish enough plant. food, io a condition in Which lt can be easily assimilated by the crop, to insure a large field eren if the season should not be adapted to promote its rapid prowih and development. In the line of winter food for cattle, It is iomportant, as many a farmer found last year when it was too late to remedg the evil, to amd a linht crop of hay A quantity oi millet,
corn, or come other crun that ean be wed for feedinar in either a green or at dry state, as it may
he required, shondialwave be provided as a safe guard against a partial 1 dibure of the grass erop. Again, the wise farmer whl guard against very conp. by giving nart of his attention to the cultibution of other plants. In suasons which have
been favorable to tho production and sale of clucion of other crogs, have done to the exalthough such a course could not long be eoutinizers, or serionsly injuring the land. But when izers, thr seriously injuring the land. Butwhen
$\qquad$ seater estent sustaned serinus loss. To a sthll Hesent soacco as their sole erop. Now, the farmer would like to grow, but if he is wise he in whiot ther that there bave been manv years has prowd disastrons, ind, also keeping in mind future, he would not he many surn yearsin the In planming and preparing for the future. It is always a sensible and profitable course to give areful consideration (o) cmontorgencies which diffeulties which muy be encruntered. By so course whith has bu*n adsinel is adopted as a
$\qquad$
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$\qquad$ lian ean be speured if provi-

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                            is neglected.
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GUERNSEYS AND JERSEYS.
 $100 \begin{aligned} & \text { Scrap Pictures } \\ & \text { (hrnmons firir }\end{aligned}$ no alike and set of 4 laroe Gem
$10 c$. C. Depur, SYRACUSE, W. Y.
FARMS Hin
inomas g. Warolo. Mingston. Somersel Co., maryland.
VIARARA WHITE GRAPE. MARLBORO Raspberry.
100


## ARTIFICIAL STONE.




## FENCE POSTS AS CHEAP AS WOOD.

penn artificial stone ano fire proof co.
134 South Seventh street: Philadelohia, Pa. (\$)

## GOLDEN OPPORTUNITIES IN THE SOUTH

## Continufd. By Joseph

A New Settler" in Florida bas fed his jour blistic steam-works with my fael. He
ailing along, driven by the wind that I hulud would swell my sails. He has reaped where meant to reap, and left nothing but the glean ings. I felt robbed, actnally and shamefully whberl, when 1 read his repsy in June number di FakM and Garden) to Clayton Collamer's fever-tiinted and feverish ideas expressed in May number.
As the case stands now, I will have to be satls fied with the gleanings. The spirit of Mr. Colla mer's letter alone makes it appear as self-evident even if he had mot expressly admitted it, that this New Fogland man has listened with great atisfaction to the tearhings of a partisan press which has been hostile to the South, but that he has never set a foot on southern soil. In the main, he trats us to theories gathered from tvery sourct except from facts. The need of theory mertly proves the difficuity to produce facts. In the present case we can dispense with theory altogether, because the facts are easily stalblished
There are malaria districts in the low lands of the South, but rarely indeed havel met the man suffering from this "worst disease." The Iotalities are rew where it is dreaded. We are not to be scared by ghosts. Why should the new-comer settle In an unhealthy location as long as nineenths of the country is exceedingty healthy and ree from malaria
Is the Southern climate really debllitating? Far from it. Are not the nights generally cool all summer long? The heat less suffocatiner frem in the hotest days than in the North ? Southern people have their "servants, and like lo
waited on. They are used to letting a servant What quite often they might do themselves. It is an old habit, amd bad habits are contariona. Northern men naty sometimes fall into this hahit after a while, and get lazy, but not from the effects of the debllitating climate, but in conse quence of the social conditions and surroundings. Who shond come to the South? Certainly not the man who is contented and happy, and makes a comfortable living elsewhere. Let well-cnough alone. But if you are dissatisfied with the chmatic or other conditionsin the North, and want to gosouth, look before sou leap. Go and sep for yourself, before you buy. Use your eyes, and refuse to look through the tinted spectacles of land agents.
To the young man and the man with a limited capital, serking a bome in a congenial climate, I say, " loming nuatm, go south!"
dredth time, that the golden opi south are as numerons as cats and dogs. There is room for good farmers, good gardeners, dairymen, fruit-growers, stockmen, florists. I know of an excelfent opening for a forist or rosegrower, such as is found but ouce in a llferime; of another for a dairy and truck garden. These are cases of demand without supply. Should ans party wish to avail himser of one of these chances, I will cheerfully finform him of the particulars on application to FARM AND GAEDEN. As these letters will have to be forwarded to me by the publishers, stamp should be emelosed. The lnformation is free and entirely misinterested, but the inplicant is expected to investigrate for bimself.

## THE POETRY AND PROSE OF BEE KEEPING

## By Maholt B. Chaddock, Fermont, Fullon Co., Hi.

It seems like a poet's dream to sti beneath the maple trees and watch the golden messtngew shooting off and upward, glistening in the sunlight, eager for the spoils, and retuming honey laden to the hive; husy while the harvest lasts And then at eventile, when we sit on our own porch and door-ntep, we can bear the contented hum of the litflp honsekeepers, as they sit on their porches and in their front doors and fan
themselves. The dewy air, fragrant with the themselves. The dewy air, fragrant with the
clover smell that comes from the newly-gathered iweets. And as we sit and think that these bees are ours, and that they are working for us, it glves us a comfortable feeling that is the next thing to happiness. When we open the full hive and take thereirom the boney, clear as crystal, and put it on our tables, it makes a sweet poem indeed.
Now we come to the hard work-the prose of bre keeping. If the colonles are weak, we must build them up; if they are searce of stores, we nust fied them. We must get our boxes and hives all ready for the honey harvest and swarmon time. 'We must lift and carsy, work and watch, watch and wait. It is hard work. Hives must be carried in quantities or much thone is lost. The weather is generally hot when the bees


 athery bees get in their thest lioks, and on hands swell upundil we dannot sunt our fingers. We
run here for rotten wond, there for coals, and yomeler for musion, and then we want the seissors We tranp, tramp, tramp nntil and feet are weary and our head is hot, and we thmont wish that we had never seen a " bleshed bete."

## JULY PARAGRAPHS.

## By John M. Wtoth. Quincy, Ith

Hf wheat harvest comme brefore the cultivation of corn is finished, domot noulect the corn if got
can hire hands at a remonable firure. Each yea more thoroughly convinces me of the wjorm of this, and makes a "reasonable figure" a litte higher in my calculations. The weather is apt to be droughty.and frounent shallow eultivations will relieve the corn. I have noticed that when corn was neglected during wheat harvest and ultivatod afterwards, in fine cases out of ten that cultivation did harm: and the hurt to the corn was just in bropmorinn to the depth of the cultivation. If $50 n$ munt conltivate at this time do It shallow. Ami if the maly ribject $\ln$ rultiva ting corn that has beq.n meghectol during harvert s to destroy werds. this in botter done by cuttinu hem off at the ervolud with a sharp hoe. If you have cultivated your corn as you should, tha cun be done rapilly.
Blessed be theman that Invented the self-bla der, for he has made the farmer lndependent o he migratory harvest hand, who, in nine cases wh of ten, in alour one. He is a peculiarimatitnion. Whenre lie comes or whither he gries, nu one knows or cares. He travels northward with
horvest, and whon it ends he leaves the muntry. Ile works. wr rather pretends to work an the farm wnly durnay the harvest season.

He blads grain poorby, and therefore is a tor ment. He dnes uot gather up the bundte chean, but leaves a binnch w be lost. He races not more than twelve straws for a band, therofore can not. find the bundle tigbt; but be would not do 80 whow. He never straightens a bumble, and its matt is as rromkril as are his ways. He puts the band hear the head. and when the shocker attempts to rifh if ithe und e the graln falls out. If the bundie is finally set up In the shock, t will not fail to mipout when laid in the stack, at least. Hes thesp nuturks shall yuu know the Furil binder, and the quicker you get rid of him the better.

The great secret of hinding grain well is to use a thick band. Inaw the band moderately tight then if you have a large band fou will make it very tlght around the hundle by the twist yon make hefore tucking. If you une a small band you cannot do this, for you have no purchase A large band is the sceret of easy binding, as pt is of tight binding, for you have the advantage of a leverage, and do not have to pull the band tight by main force.

Good blnding eronsjeis in using a thlek, double band; in gathering up the grain clean; in straightening the tumdle, when needed, in putthag the band near the wentre, a little nearer the butt than the lowal; and in making the band light, tucking it towards the butt.

The band should be tucked towards the butt. In bulging a stack the bundles will alvays sling a little. If the band is theked towards the nead this slipping will untie the bundles and spoil the the stock; If tucked towaris the butt, the stip ping only tightens the band.

Since the extended introduction of the sebfbinder, shocking has become the most important part of the manual labor of grain harvest. Some shocking is shocking. The model shock is made

## ELESCOPES

 rice-List free to any udidress.


MAGARA WBTTE GRAPE. MARLPORO Raspberfy.
CHORTHAND Writing thoroughtytuught
ad for Circular. W. G.CHAFEEE. Oswego, NY.
the selfelinder is uned, or whon the grains bomelt
the selflinder is u-ed, or whon the grain, botind
by hand, is ut merlium to, lawe wrowth, for then the fundies are oll a fairsis*. Two pairs of buy dies, inelining towards a rommon rentre, are sulu; lastly, the two cals.
Some farmers sas that when only twelve bundles are used the shock is sure to how down. I dispute tlin. It is not the momber of bundles, hit right suttins, whith gives stability to the into the stublite. They should all lean towards armmmon "enstre: if mine leansone way and another Itans amother way, the shoek will fall of its own weight. After all the bundles are set, gather the infs in your arms, and pull them together; this will make the bundles settle together. For cap sheaves select long, slender ones, and break them thoroughly, that they may fit close to the stock and turn the heads towards the prwailing winds. If the butts in" lut towards the prowiling winds the caps are very likely to be blown off.

Trelve baudles placed as I have directed will tand as well as twenty ; and such a shock will ry out mach better arter a rain thitu a larger ne wlll.
Wear a large dreen loaf, or a wet cloth in vour
 Wrspination leomme seant, or entirely cease, stop
work, and gotothe shadeat once. The hest way tu cool the body is to pour cold water over the cold water whth the havals and wrists.
Abstain from meats. We should have an ahumitance of fresh vegetables and ripe frutts for bur talles. If we havenot, we are vory unwise.
ill oily'fools inerease the animal heat, which how should be krpt at minimum. This animal tion-the union of oxygen and carbon. The oxygen is got from the air in the lungs; the carorl the more cartion (futl) ind the more anmal heat. Vegetables and frults form much the
most wholesome diet.

Do not sleep in the sweat-saturated clotbing Worn durng the diy. Hathe each minht before going to bed; rest is gained by so doing.

## COMMENTS FROM THE PEOPLE.

Mrs. Alma Perry, IGbville,: IlI. "Your paper is just excellent, and I will send you another
Mary Stuart Smith, Mniversity of Va.: "\$l roses have come in good mrler, arnd 1 am recommending the investment to my heighbors
J. Bunting, Bristol, Tenn.: "l regard your paper as the hest and cheallest publication th the Uisited states. I would rot be without it for doatile the price
E. T. Daniels, New Kiona, Kansasa "I baye They a tore atl of several farm ourmals ahl my life. farmer, I think yours is the bust of all. It is all wheat, no chaff to be silted out.
 Anntaliden received as well as seeds offered as premm. 1 must say that $I$ was agreeably surlions, and faper; it tar exceeded nus expecta cions, and I wish you a long and prosperous
Mrs. L. Kelley, Washington, D. C.: "This morning your hook accidentally fell into my hands on club way mane office. I passed it around and the pressed was'you get it quarter's worth in one

1. E. C. Easterly, Willow Spring, Va.: "I can not afford to do without the monthly visits of hor twro sears past, and it wonld be like partin with an old friend toquit now. I regard jt as the best paper that is pubished at that price.'
Wm. lee, Manchester, N. II.: "The article on Apple deometrites is well worth $\$ 10$ to any farner, or other pesson owning an apple orchard. Neary all the apple trees in this eity look as
If a fire had swept over them, hut any confident If a fire had swept over them, hut I anm confident hat ir our article is read, and the instructions rilowed, that we shall be able to keep the canker rid of them next season.

he simplest and most efficiont Eoverior mg
OYLESTOWN JUNIOR THRESHER ANO CIEANER uperior, For Illostrated Changue, addreas sull has mo

## ORgHARD AND SMALIS PRUITS

## THE CRAWFORD













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Wh fond in fruit truas hast thare are variatien













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 hilities of sur-ial mblural manlorio. of in


 are sumpleat, the vatioty will flatrinh.

We aremakins whervatioms on the different fruits in cur trial orrharils. It is singulatr in
 trees in growth-luad, bul, and flowir. We have apples like the llydu's Korprr, with heave almost white with thwo; whers likutherintigheimer, that art latize and qreen; some almost blue, like Catares Ibue; othars deep green-almost a blate, while atacsolikusimmoms' Rud appmath a redalish cast. The latives dither mowh insize. Some aro very small, athers areowerthre inebes in width and fiw inches loug, or incoludinus stem, six amb mothalf inches lones. The eolar of the bark is as moturable as ams. We have from the deep blaek of the Flaek Twis, to almost white, as in the oha wond of the Dinch, amol thremest all the slates of hrown, uliwe, and other edors. so great is the ditporemer in eator that thres.
 that the strings were lamem and the varieties were all mixed tompther. Thes were separated by eolor and arafted, and wat of three band red grafts that we sft, we find only two mistakes. Close attention should be paid to small differences, and the wariety of fromit can be told ty the appentrance of the tree before setting, and we may be saved from planting worthlesskinds.

A tree in the full vigor of growth, when blown nearly olt by winds or broken by aceident, may be rematred if omly a little of the wood remains





 wall parken. The mandin band betal the part 114 11 11







 bars with Maty abl wratpine tho. Hals with a
 the 1 1\%
fn -takime: :













## FRUIT NOTES

The Yellow Trabsarmat apple eontinues to
 ariate. The lellow Thans:atint is one of the
 or the l'athot office, that has prowed of value

 find make it ohe of the bext astral ratily imples eultivatim. Tho trow is wary hame with


 - tilnt:am 1 an.

Wi" 1ndime the sumbern Limbertwis apple




 (ta horay and ond in texture. Tha gualits when


 adiverity or wil, fram the elevatod momatain (1) -atuly 隹:an.
 fiful bath and. that murt rapdry take a pate

 darkernen latac, makines a hatatiful tree. It
 atternat. ? arr. It in wry molnotice, but not
 market, where the time ap-
 makr it whe hell th hish wotnell will whe Whe mindieve the tree amd will proveral luphlar sumd wable mall alythe. We learn liy our cmantry Mome that Mr. 11. L. Mons? an extraniwe arehardiat of hank of Parin grath incorehath, atter a twa yours pith, destross the
 almosi axtaratuat ad we know from experianow that the collate of the tride are mond bealthier irmen the use of Paris
 ances, and the growil of the tree xpe..t that and satistantors. We fant, so rapidy are wow hot far-tis berbacins that the the af aternets
 pomathathif fime pernoet innit inderimed. This month and wist the panh burer demonit it " rout. A trune wan ur potash or moma lye-

 furar the ruma, washal with it, will kill the eqgs and whane wom hatare they wher the tree and do any hanag. Two or thrim washing will be
 if pessibla. chathring mit-xammer. Tha cust is -mall. Hoapinu limu and anhes arom the hase af the tra. will de sumn sumb hot is not salfe to
 pate alywe the lime and ashas.
We have been dyprimuting during the last four yars, with various plans of proning young find a vast dittionenew in the wrinusplensof prun ins. While sumendims are worthles others are poxitively wormiuns, althoneth histly reare mended. Wir lape next war 10 ber able to give full details of our experinents, fully illustrated by wond euts, of proper plans for the most successful pruning. The subject has heen before fulls treated tran seneral principes, but the de tails have ben nerberted. These ean only be made paln be cnaravings, and should be fully illustrated. luring the last four years we have
given the subed sperial attention. and believe glven the shbect spectal attention, and believe wa can give shme features not before in print.
Protessor Buld, if Iowa, writes to the Prairie Former of the Burdanot apple speaking of it in Yery high terms thr its hardiness, color, size, kreping, and hessirt qualities. Foring the last cold wintre it bore the severity of cimate ex cepdingly Well. emming ont with tis Whal bright and unchlored, white the Wealthy was diseol-
ored. He drwaribes the Bogdanoft as similar in ored. He drwartibes the Bogdanoft as similar in appearance to the Iomine, but larger and hisher colored, and keeps well until Mas, We make it nur duty to learn all we can of truit that promfrom thoni who test themi. When we theat of hardy varieties, they ire recommended espect ally forscrerely eold climates, and not for gene ral $\cdot$ •年tivation.

We find the following in a comppicuons place in Frut Notes in a recent number of an e teemed Western contem

In purchasing trees, the greatint possible care shonld be exercised in the
the party from whom to buy, as it is rxtremely ditficult to distinguish between some or the various races,
and many are sold for Cpprian and Itallan trees and many are sold for Cfpria
that are nothing of the kind.
Were the above fruit note set in a column Were the above fruit note set in a column
headed Bee Notes, and the orthargraphy a little changed. it would be good reading. and contain some excellent practied advice.
Old strawberry beds, if very glasis anil weedy may be renosated by burning the matheh otl. the bed is mulelam. This may li. sately flome should there be a light wind to quickoy carry th
fire over the bed, as rapid burning will be satio The space between the old rows can le deepl? eultivated and kept clean until the rummersstart then enltivation must cease to allow them ti should bave been done in the yuiner, settine a new bed. Do not forget that strimberries wan plenty of good fertilizers. Manure well.
Nobetter way can be desired for cultivating raspberries, blackberries, and all the small fruits as well as the orchard, than by the use of th Acme Harrow, whicis whit pulvitrize the surfact of the soil, kweping it moist below, and will not
tear ont and lacerate the ronts, as would be the tear ont and lacerate the ronts, as wruld be the
case if the ulow or cultivator was used. The Acme Harrow, with its long, curved swel teeth, will loosen the surface-soil, making it light and friable, and when it comes into contact with larger roots, slides over them, doing no injury to either roots or barrow. Deep tillage is not de sirable for the fruit urchird,
When the season of berries is over, collect all thr erates and berry boxes and store then away for next arason's use. The harm not only lorks bettew from having the crates and boxes
gathered tron the field, lint also indlates a carefal and thrity farmer. We passed berry ficld: last winter where boxes and crates were surewn in confusion everywhere, and abut the railroa stations were piled arates and boxes exposud t wind and rain. With such management, burries To not pay. We also saw in many peach or chamb hakets left over from last year's picking.
The batats are there yet we presume, ready for The baskets are there yet we presume, ready for
use, but such things do not pay or present at tidy appearance.
The soil will dry vert rapldy and to agre:* depth if allowed to get hard und compact. 'Ther Is but a small space left for air ite solld soils, and from this fact they beeome hot and dry 10 great depth in summer. While if air is mesent as it is in lorose soils, being such it poor conductu Of heat, it will allow only a small portion of soi to benme hot, which soon cools at night and i flled with a copiuss flew, unt only retaining tht moisture alreaty 111 the soil, butadding to it at : season when nobisture is especialiy desirable Newly-set trees are always benefitted by cultiva tion, lsecause all their roots are surface-ronts and e:mmot thaive in a hot, dey, compact soil Hence the neressity of summer surfact-cultiva tion of newly-set trees.

## LETTER FROM NEW ZEALAND.

Chuths Ryley. Theranaki, New Zealand.
May I begin by thanking Mr. Munson for his Gind letter in your February number, replying o severist of my queslions. On the strength his advice I am allowing the grass to grow around my pear trees, and hope to be able to report satisfactory results either next season or the following one. Apple trates I still keep a circle of fiom four to six feet diameter clean around each tree, as it enables me to inspect tbe crown of the root occasomally, in ease there should b orchard, where I have my plum trees, I keep clean right through, as i find that course is generally recommended for planis. Mr. Muason's explanation of the root fungus or "root-rot" tallys to some extent with my own impression of the disiase, but still there are features in the case which do not quite admit of the solution given, and whieh point more to its canse being inherent in the soil. if exvass of moisture at the roots was the cause of their decay how conld is attack as it does furze bushes planted on top $n$ a bank of sods five reet hiyh, and not over a foot and a half to two feet thick, in which there is no chance of the water lodging. ${ }^{-1}$ In many case. where i have lost treas from it, they have been planted in light, porous soil on the edge of a bank where the natural drainage is so good tbat if you were to dig a hole three fet deep dircetly after: heavy rain you would not find a drop of water I bear that the tirst importation of kainit has jus been brougbt to New Zealand, at the port " Anckland, and I bave written for a few hundre

Wrinht whrewith to experiment upon my trees
 lime or bomemoal, either of which have vory benetiodal effects when applied to the roots of fruit trees hn our wor. light soib. I have been rom the Afons lumiuede, or American bligbt, as i is generally ealled here, with a mixture of three farts suljlate of iron and one fatt of nitre, but tance that I need not look tor any result witil the sup rises in the spring. We have at length been having some really fine weather almon Warm enongh for suntmen, thonirh the days are hegimning to get mort ame the hiohts hresty. We have not hall whin alell ol the weather far been hossoming ancond tine allue fow of then been bosoond a seup of fit on them alren large as cherries. These are the early apples, woh as the Irich Puith, which ripened their tirst crop in January
John T. Lallemont, Ienison, Texas, asks the anse of failure in gratlinus stane fruits. Answer The most prohatile trason is that the grafting done too late. Stome ruits must be grafted ery taly in the season, and even then, unless mone ly an expert, will fail. Budding is safer Late grafting, even of apples, stldon succeeds.

Isane I'. Skinner, Clearfield, Ia, asks about the proper season to lud aml wratt, and how to malit parly. ats soon de the wax will -1月tad. Eudnlins s dons in June, bint more largely in Anarost, ant an omly be dume when the bark will readil separate from the tree to fllow the insertion "四 fise to keep the but in place. We shall han note to say next month. Will give recipe lu rafting wax at usual time.

Hemry liolz, Arholics, Colorado, asks for the est work on budding. gralling, and fruit cultur and varicties of finit, ete. Answer-W'e woul recommend 'Tlamas' Amarican Fruit Culturist
 Phace, New lork. Barry's Fruit rarden is also rood. In whines work, Fruit amil Fruit Trees of America, will long be the stamdarl authority in description of varieties. Any uf them will be on receipt of publishers' price.
E. G. Woucl, šmthvietp, Mo., asks: 1.-What 1s he best mult to keep off caterpillars from froit rees. 2-How is the best way to treat a tree when a large limb has been liroken off by the wind, $3_{t}-$ Can you inve us ant infrmation on tis,
 low is the way to get your money back or get rond seeds? Answer-il. Allow the blacktinds and uther birts to built in be rroit trees anm ear their youns. They will keep the trees free rom the wroms. 'Tearimes the mests roff with a ong pole will also dumbralize them. The yellow necked caterlillar the biris will not eat, and are best destroved by smayiner the trees with Pari reen and wator sas the limb off close to the trep, and let it alone. (3). Will answer later n the praper season for planting will do all they can to renair any wrome dond ustomers, if they atre pandr surp he party who claims injury is injured.
CIDER



GRAPE

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$\boldsymbol{9} \boldsymbol{9} \boldsymbol{8} 9 \boldsymbol{9} 9$


2.conn coilins,

STRAWBERRIES !

Boox-bort, Washington Co., Ark., 5,19 N My object in writing is to enrrect anewor in at artiele in the May tumber
gln of the
a native of Arkansia. It was blutubt the fall of 1833. from indiana, by a Mr. Rector, of that state. direct to my noighborbood on Cane Hill, In Washington county. some 230 miles northwest of Littlefork, and wam never at or neat the later place unth taken thele from my Cane Hill nurnery, Jr. Rector bounht but a fewseions of them. They were swall, umsintly wits, and as he hat lost the labet loma them, he coult not
thetir name or origin, buthe thought they wete European. Thes had not been grown to a beaning age in Amernat up to the time he bronght them here. Being umatable, thoy remained after all the trees were sold from the mursery, except a small remmant, which was sold to one of my 'beishbure il Xr. Shamon, and in the remnant was nu*lurled this unknown afple. When
 "What apmp is that?" wats asked by nearly Wits asked by nearly
The answer generally hence the name, the shammon apple
one years, what extended, Jr. J. A. Ibibrell, of tan Buren, Ark., sent a specimen of the apple to the late or, I. A. W:nther, then presirlent ut the Onio Pano-
 its orlgin, and he identified it with the Ohio Piping. is rume trinemt. trom his own dowrip Ion of the Uhin Piphin, that thore is searcely a hadow an similarity letwent lom
Browning of
Browning, of New York, and lhothix, oll Ilin-
Wrote to know if I could gre them any in firas. I gave them the history of the apple he fruit. That it, and sent threm sperimens of Brelsion that it was not llentiacal with the Ohio Pippin, and the fact that its origin has not been found in Amerba, after a diligent seareb of atury, simenthens the prolsa hilify that Mr. Rector was correct in supposing it originated in Europe. $\qquad$ J. B. Russell.

W't give place to the very valuable lettor of $M r$. nut frimes bit to arnately ilustrate and describe mourncy in all our ineir true origan. We desur efalave any in formation that wo do not possess te hape they will write us as Mr. Iiusstll has dume. and we blll nlways be ploased to glve the information we receive to onr larue fumdy of readers. We desire to make the lenit Mipartment of the Fabm And Garben as raluable and retiable to the reader as the other deparments are.
. F. F. Babenck, of Russellrille, Ark., writes rais the Hitre at the wrigin of the Shanumn. Mr. Batucoels also writes that it was for the liest jlate of lareest and handsomest apples, not a new variels, that it received the first pre-
mium of ten dolliars at New Orleans. We almays want to be correct in our columns, and we give place to the correction. We helieve it is the duty of a journal tuenlighten and not mislead people, and we alwits try to be correct in our stake
ments. It we are somotines in error, we hope our readess will inform us.

N1AGARA WHITE GRAPE. MARLBORO Raspberry.
H S ANDERRON Unin Springs N Y Cotalogue fres
AGENTS
Locust Grove Murseries.

J. JBKAY, Red bank N. J.

A. J. CAYWOOD \& SONS, Marlboro, New York.

|

 plants from one year's end to the other. of course, or, if this is nut handy, at oreatinal dusp if Mants do not thrive as well in hwiming-roms as ists that gas is particutarly ofmosions to therm-
that is-gas light. Tbe heat-drying effer of the that is-gas light. Tbe hedt-drins effel of the extent that it is supposed to; anyllow not much more than a lamp or stove wouk. This evil ef fect maty be remedied, to a very irtat extemt, by of larger bue and keeping these large sancers constintly tull of water. Tu:- will gradually

$\qquad$
not anctuall


 management and want of light and anr.
Few fants whill thre lon tanlo- they
have hoth. But whore there is plenty of have both. But whire there is plenty of
both, alnost anythmg may be mand to grow and blossom beantifully
$\qquad$
$\qquad$ wonld sughest ispidistrat Layi lescens, or almust any palm Agaves look nice, and if dow sib very soon. Monthoniny Aranreminds us of Cacti. These are bhe ulamt
just mitalule for rom-cubure neither atit
 winter, moviling frost is excended. If
thowers arr expered from then in shring,

## excepl ontre in

## do not expetet th


whitll will gund inamagem a blown Irom Uetober to Mathh. Mally Comellias 1 n rooms, but is a wobrral thing ib these require an abosinetin
moisture. Cilmbels ANir V'ines
Of all sorts are now making trong growth. In wanled, a little attention shonda be paill in thest as weth. If ther rumbers are growing too strong. wall or trellis ausp be filled up. Do not tie thom tia; but drive a few large-healled nalls lafre and there, to which the branches can be fiastenem with
small pures of brams wire. Thia will last farever.

$\qquad$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
fiem when the cilurss of flowers and rolatese
hosen togomiad vautase. Look at our hunen

$\qquad$ it the American exhibition to be heth in handman ar will be a ciaden eomaprised solely of Het it is intended that the whone of thateshibi-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ yel
$\qquad$ ari that abr subarmbers mas prepare them lland

The sumply of Amorivan Floristc will have 11 s th. Ionh, and lfth. It will be a most mulumlant ade. There will lux a list on hery excellent



$\qquad$ hents :mm dajliancos lelonging for 1foriculture Whe prusress made in the construmtion of green Of yrat value to that tanle and the latest and
 ade will be rupresented. Flomists and thus nlerestai, who lave not already recetved at shers on thin paper, "he presibtont of the soriety Mr. Johm rhorpe, Queens, N. Y. First vice Hsident, J. M1. Jordin, $\operatorname{ti}$. Lonis, Mo. 'liteasilter who guabantee the best at lowest possible prices in any ouantity to suit.

LIVE STOGK.

## SOILING HOGS ON CLOVER

Quite a numbur of arricultural fourmals are

 elover tullan umatial of allowing them io romm all uver the prature. Av the pigs root up mass portions of tha tielli, thes la more or lase that

 advantane in winfor blam is that they make a saved; while in thr potature, the mannow. though not mithely lost, is mevenly alintributhi. The best way wi kopiner the sow while sumbling hor
 monnilut, nomm, amblight. Lo not we:th the pigs
 and the fign will in rew tast.



|  <br>  <br>  |
| :---: |
|  |  |
|  |  |

## si







Abor
disin


 age other herds if sulal for datis yarbosen.


 stalls, with dry has, in thw sam mamome as

 regnbatos tha bowels, and gives them better ajme tites when they go in the stalls.

GEIFAT THE BREEIMNG FWEG-As the ewes Chmald be ornm milkers, it womlal be wall to call that reaput bufore the foll, tilliner their places

1hact that ar yomarer. The cwes that hare the +wt laphan fom sueh, as the prolificacy of the flow will in that manner be gradually increased. W.ater. IN ?'sstrefs. - I'mess the flelds are -nplibind with rumaing watar, the stock mast he frosided with wathr, A pond in the field will

linnly at the intersection of fond felds. the watre enn he used for each field as filfal from the fump with a hose or other appli-
 rapidly mberam than on any otherkind of food Aurime thin month. frosmand they are allowed

 profithle tobuth them over than to sell, if has-
 stallm entarely, the sooner they are disposed at

Feedrsig oin Hay.-Ohd. musty hay should be baxd furbmbling unly. Ioming the sumnat
Cht a
allow it towilt lurimer the dats. If bulat nidit, it




 Ales. in whinh ho Mland show and pistured thern along thar ramb, the barm-the forming one allo of the hordtes 'lhat harilles were moserel
 hurllent, white fibte an athomat of mation was -
 mals in anmmar, lut the prian leing lower. it is

 will be somawbiat

 git in the l lnjury 10



## SHEEP AND DOGS.

In mans state the shat interest is one of roit jhandfillo. 11 it rumbl reetive sultable

 0 irn $n$ which it has thas fiar been

 nation, ol thi, line wf indantrs. It does notmean - hwoll faviti an wmol. It is mot desitais root desira-
stock. which, in a fair and open competition with other classes, is not able to maintain itself. What the sheep industry needs is an even chance. Glve it a good opportunity for development, and it will take care of itself.

The great obstacle to the profitable keeplng of sheep over a large area in this country can be stated in the one word-dogs. The flyures are not at hand for representing in dollars and cents the amount of damage which sheep owners sustain from the ravages by dogsammme their flocks, but it is molversally known to be enomous. Yet, large as is the sum which eareful inquiry has shown to be lost outright, the full extent of the injury eannot be represented hy figures. Much of the loss is indireet and cannot be computed. It is sustained by multitules of farmers who mould like tu keep sheep, but are deterred from doing so by fear that their llocks would be destroyed by dogs.
Now sheep are very useful animals. They are a source of potit tuthrix owners, and it is a benefit to the country at haree to have them kept in consinurable nombers. In Enqand they are ronstared absolutely essential to suceessful farming. In this country they nut umly return a fairfrotit, but alsuprove very useful inmaintaining the fertility of the soil. The lomger the land is cuntivated the more important to the farmer thise animals will become
lint, while sheep are proitathe animals for the famber tomaintain, lums are, a diole, a souree of considerable expulse. A very tew dogs pay thie unst of their kenpine and the tronble of lookH2, atter them, hat tho artat mojority most far
 mary, :1r. worth. 'Thr mom motictablat thing ahout mast of these cors is the almost total



 In ibu latest case of indury to $n$ thuk of sheep
 tha farmar who was the laser has lint sheep upon
tha samo land for almat thirts wars. H. has hot kept :1 dur bintorlf, and until this spring



 andid be no mistakt :a lat was eaught in the act. hod lurn kept on an adiniming farm for some






 Wrambrby dows. lint it dors something in the whinh ratrence has buth matle is not hesened A thas 1 nothis. is evidunt that the fa'mor who is quietly fursuiner

 to a dogree ut protuction which will enable bim to follow that lime of business without molestation. I:at choss eamont le entirely sumpresed by law, and where dops almand shend dobmt thrive.

 themandres amd to the eommanitlas in which

 , the will wat and JERSEY|

## JERSEY

 CATTLE

Chester white. Berk- PI GS, shire and Poland China $P$ GN,
Flue-etter Hong coteh Collice,
 Price Iist

## REGISTEREDSWINE



## бुhe Roultry Tapd.

## DIFFICULTIES DURING INCUBATION

## 

berasionally the seasoms swem to present dati

 appear to have hat more than the wallal whare of drawhacks. Quite a numbor of intuirias haw come respectime tha tathores, and yot, the mangr which is overfandines. When eqgs are ored fron over-fat lowls, the elancers are but fabobable to gool results from iawalat名保 10 is fat to in certath will set. And :lpharontly stores ut
 eats but onco at laty altor laginning ineblation
 ting is pattly hiberaation, athe the hon makes

 therefore, that the hems are not in a proper ema dition fire lating when they : wer tor late










 arm alsu clumsy atul impotent whorl bry fat

 mbs. and thoir ontionings, il athy, will bo woit amilumpros.







 thesse brawbiabs. Thas laree brools arn mom subject to them than tha smathor, while chiaks















 fon, :aml the rese will then hatels. Fir towls in

 will ned but little arain form, whede shotale ofways ie givallat hight.

## dUCKS AND GEESE.

Ducks are profitablo whon entire athention i
 erty to mom at will, and renesive but very litho






 lumk than wator, not only from the pronds and streams, but atso from the youltis grass. Thas



 protection agranst dampmoss. After the down disappears, and feathers take its paco, the rase is different. When an adult dack or gonse swims on the water, its skin $i s$ dry, as the feathers form a water-proof protection. If it dives under, the
watur runs off when it returns to the surfiter Bot the yomors, baving no subly potmetion

Yomag durks erow faster than chioks, amb art


 they are thre daymab, the ted may he varled,
 , hel, when they maty he leal anythime they will at. Kequ than rontined in alman, aly yatod antil the down rhanses, when they will hat sat The wet grass is more dabgeporas than pemads.

## POULTRY FOR THE TABLE







 limelis. I rmos of the dialle with :1 Limenhat Hell frmare the bit the la









 vild lee tirat clan

## ERADICATING LICE



























## POULTRY SCRATCHINGS


 and tern hons.








 prevornt dacomanssitions.

 tion tomost, is ond mate on platering lath.


 fully salual for them

 hom as dinloky an pusibla, kanging then well Fullatil dixpmod at

Eximbithon Fiombs.-They are bot always
 ". woll w! in "print-" but dofirient in many ther desirable doalitions.



 sut shomil the hone dowite toxit, malsw the mests in :i coon follere and the reakta will ber more satindiatory
Mofletinis-In almolt six works sombe of the

 latint forfor winter.
Fiverand Fowlsi, The allalts will faten













 may he latetaily prexeroted bey not feediner tan lànly








 dat, dhempore, dispose at them




THE DHENKAG: W. ATER.-Of all monthe for poviding pure drinking wator, July is the most mpurtant. Impare wather in aburce of lise ase
 Tho fowls will uftro gothirsty rathor thath dink





 at, hut hot su homoly. Jamtanns will mate with


 prides in the 'hidena motrkets have not beed




 In ('lateran, May is bettor.

## HAVE YOU GOT IT? ITICTE THES Poultry Powder:

## б̈E ந〇OUSEHOLD.

## A GOOD SCAVENGER

## By Lens.

The town has pasad a law that mopige are to be keft withan the "orparation limit. It will a ereat impmondmat in mo
streets, I think," natid Latura.

- I am not min sure of that," mat hat rolnam.
 respect for the pig as a seavoner.
"Why they are never allowed to run apoman in willage like this,

I know that, hint how varchally all the wato.


 owor in hia latoratary with sulatantial toma.
 famili"s, How indutrionsly many of thear fun-






 eftod in the hath of the phate A pown on










## HABITS OF DISORDER IN EARLY YEARS

## Hin foull.




 Clamine by, the whote tima, ame the domes:an





 there will mot.





 such trash on the wimber-sill, to embe :1t whe and char it away, and the same the sumet hat and the third. It takes " lime urnalim" (tatis as gond hathit, hat onere"sen," it in there tarate.

This same hahit of untidian, is bers ernerat. as ome may ser hy the apyearamo of our buht
 well-dressed woman cat at prapor of pamen- in: a
 On the thar beside hor, as cathly as if haw we breeding in the viow of many whon lowndon. A true lady, is one crerywhor, amd her mamery will eorrespond.

If chaldren were tamght littlo fidy wasw wa should see a vast improwement in the appore ances of our towns and villaw, and alse in, amd about the homes of our lami. Insightly batama and orange perts wotd cease th distigure the sidewalks, and a metter resting phace than ha street would be foond for ohd wans and tins and


## OUR FOUR-FOOTED FRIENDS.

## By Etith.

Chidren camot the trained the carefully to take most scrupolous eare about furawiny away broken medles. hits of whan or ehinat, where no possible dang r a can comp fom them to man or
 or pinces of oflats which haso workmat of hatis or picces of erlas which hate worknd into ther ir fret. The rompunthat is the lact plate for thow
sueh things, thangh have secell all the refuse of
the howse warried wat to surf a pit and throm in. Whon it comse to be spread atome on the land, thape it is. realy to picree the foot of ans. man hurar thphord turalivate the lamd
And while gon are trimhone the children tuly kind and thought find to their four-footed friends. make the lesom prad wat wer all their dathing
 who - atak ththat mithful meramt, the horse. in $\Rightarrow$ harch and hratal way, -xm axpuire a simitar way on toting and fotime. I ree an illuntration of it burne mow windsw an I write, and it takn all the beaty from the parant summer hamb 1t sit
It sendin in if wome men had never pondered

 mindurn many 1 hatre known.


 and than that rac.... him, and tront hiv pite
 hater hours and bald many wernt tals- is







## TAKING A PLAY-SPELL <br>       




















 worth havins it only for that.
Mr. Hallan aphat mod but think low it wonlat

 woth her frionts rhaide of ambandents. shat


 induatrious and have onse mind on lof whes: but it in gomat times to meterly lowe virht of the cares, worries, and frets of life for afow hessad fomments, and let the sond draw near to natures heart in the heantiful works she has spread ont before na.

## tIME-SAVERS. <br> Bytmy.

Fmma was purchacing leer tin-ware in company with guod, practical Aunt
found her assistance very bseful.

Bint why were sou so particular, auntie," she asked afterwarm, "to have me take those waishoped dripping pans, instead ut those with share corners: I see but little difference

Beanso thes atre so much easier to clean. You know how much quicker sou can wakh a
romad hisin than sou can andate one. It would takr you some minutes longer to chean ome of thome suturderormed dripping pans after you had roasted a piece of beef in it. I have used ann
was washed three hundred times a year, and that I sased threc minutes dach time, that would surply be worth saving. In the twenty years it. womb amuant to three hundred hours. I cemld a womptinh a geod deal in that saved time.
"Im" yoll go on this plan in all your honsekcepint, Aunt Eunice?

I try to, Emblla; hut though I have been athlying over the problem for so many years, I yet find out some mow improvement very often. 1 get a good hint frones a paler. or a neighbor or a vivitor, and at bince pht it in practice. Sometime what suits me does mot suit another, so I hate to discrimilate. I hold that it is a good molicy, and at momal duty also, for a woman to saw haselt all the work she ran, by handy conrivanus amd forthought. She can tind "xcellont une tor all the time she can make and sive.

Your refonee mast be the reason why your whrk alwass setme 'done up' days ahead. I haso dfen womdered law vala acomplished so much, amd hat womuch spam time to run around with mat, for imtanee, its you did today. I mean to harn hat at of saving time, ton.
"lon will mat to sabre it piecermeal, as I do, in little thinm: hat he makimy a stuly of it, the "onk will erow pleariant and casy. All the sysToms buy can hring tobear on your work, will be an much clear gata. I know that mach will deFind onothor- in thin reward. and that even good

 nom. but conte in with me Emma, and let me
 Int sut 1:1t+13tiol. I :1n sure you will like them, and fromblany will the of scrvice in your aew Боим:

$$
\begin{aligned}
& \text { The tathin+ 's trate is onze of worth. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { thal mo, blat lum- fire his gan, }
\end{aligned}
$$

1bat he harmo he mast leet them ath.
The former thats ban mind toryak.
11. hat bug gif or phate surer.

Thue Ban whow wathe hehind he plow
And king or tergsar, to feeds us all.

## RECIPES

 white haten s.pathy, beat sugar and that-



 mors: thimwillmatse two keversolight and tro
 lithik
llark.
 (atamumbul- bakine powiler, thoroughly mixed
 lairl. ruh, sharthing in the thour: I pint sweet



 aberata-
IIABLATTE N1: Na:-1 quart eream, whipped


 a round daht (rethm whilded, getatine put in at couls, then put with erestull.


 -rian tartar, l of lemom extract, the whites of 1ros.
Sorr dilNafR BREAD.-2 Culs molasses, 1 cup

 "gre in the last thing: it is an improvement to the catie. F'bur euouigh to make guite stiff.

M12S. M. H. B., Marengo, N. Y. | RS. M |
| :---: |
| 子 |
| or |
| 1 |

fond $\operatorname{lon}_{\text {a }}$ - ('hop or shave rabbage very fine, and seasen with salt and pepper. Make a dressing of t teaspoonfuls sweet ereatm, 2 of sugar, and 4 of vinegar. Beat well and pomr over the cab-
()Ster I'ik.-Iime a decp ple-dish with a rich biscuit dough, rolled thin: dredge with flour, pour in a pint of ossters, fill up with the oyster liquor, imd season with pepper, salt, and bits of buttr. 'ower with a crast having an opening in the lid, and bake in a quick wen.
Lhmos l'tDDing. - The juie'e and grated rind of 1 lemon, 1 cup sugar, 2 eggs, 3 tablespoonfuls flour, and linint of milk. Line a dish with paste, pour in the custard, and bake until done. Whip the whites of 2 cergs to a troth, add 4 table-sponnful- sugar, spread on top and brown.

THE FARM AND GARDEN.

## ODDS AND ENDS

None are 80 old as those who have outlived their enthusiasm.

A calamity is easier borne for not being pre viously dwelt upon.

He who loves to read, and knows how to reflect, has laid by a perpetual least for his old age

A man too busy to take care of his health, is like a mechanic too bung to take care oll his toms.

Mr. Bercher save" a belphng word jcumen like switell on a railmad track; but une inch be twe en wreck and b, ovperaty:"

It is sad that tha pine tree serves as a reliwe
 They mast be fond of turbentine.
"No, sir;" sald athomeal Amprican, "No bric-abrac on the mantlel for me: It's a nui sance. Where's a man to pat his feet?"
"I wonder," said donas, "why the eaptain of a ressel can't kecy a memoramolum of the woish of his anchar, instead of weighing it every than he leates port.'
The law of the harvent is tu reap more 1 han you sow, Sow an act and youreap it habit; sow
a habitand you reap a colbracter; sow a charac tel and you reap a destiny

A man remandured in his will a miserly old mele, whose tavers in has sumblh hath leetl few and far butwenn, by the follinnong beduent:-"Te my mothor's.
skin it with.

A genaloman on his trinwle once observed two Anstrian aftreanc endeavinime to makr ont his
 at last in dechdnar lhat it was " Mr. Veronti inlit zer." 'The trunk $\qquad$
SoAp Trers. - Among the vegetable curiositite of Florida, ap soap trees. They bear twortes the slze of a marble, which have a yellowhb, mapy look, and himb, blark seed. They boil the bemme: o make the smap. But
just as they piek them

One day an Encliab furmer's whe was ruttime
 side. Finlowing it up, she tound it led in ll" centre, where there was a sumg monate h dital made of paper tom inlon shaeds. "Iliere rep"seal thmables. The breal was only vine day old.

## Cumerier and cherrien grow the days,

And the slormandre frwer and twor

A ad the wite walf unly is shathl to her back
His ceased har buthalaloo.
And crits no wore fior a seal-skin sacque, And a tur-lined circular, too.

No woman can be a lady who would willngl vound, or mortify another. Nomaller how rol beantiful, or cultivated she may be, if she is mu
of those whum
 ture shows itself here in unmistakable signs. am yon maturally infer that she has sprung from long line of similar thacestry.

When General Grant was in France, he woul not go to see the tomb of the great Napoleon. H4 regarded it with no more esteem and admiration than he would ilst of any brigund. The plait hrilliant carmer of the great comquerer. He fel hrilliant carmer of the great romquerer. He felt
only ahhorathe for this menstro who could sacr only ahhorathe for this menstre wh
flee millions to bus own amblan.

A struet-car stopped to take in a passenger. A little boy on hisknees at the wumbw, hin a well drossed gemtrman erossing over, whose mmens white beard flowed down over lisis breast anc stood out in every direction. Throwing up hi hands he screamerl in a frenzy of excitument:"Oh, ma; bere "mmes tinta Clans!" 'Thp ne instent the gentleman sood
there was a tableaux in the car.

Buried Like a lrog. - A lithe, Fifth Arenm dog died after being the houselarid pee for twents years. A beantiful casket, covered with
for him. Jt was taken in the hearse to tha fian Ify vault, amd aix carmang followed the
The monsenne ol the allan lats in shight the pront if whered that the Jow was appred At the somme time, jl phts at lifhtial discomat on the commom-sense of its womet
mer pation atre the sily juct now in New York
 sthers bouste and bring their darling pets, and the eunversation is hishly intellectual and im proving. "Dear, detr"," said a beantiful hlond at one of these githerinus, hately, "what a horrld ittle duggie mim is!" "W'lat has he done"." Why he has eaten up the pretty littie seal-skin Hajus I hat made dulluaz this winfor" Chorus dair ones :-" The bad, bad doygie!?

A Vermont mon misced wood from his plle ontimully: So one night he resolved to walch As be suspeeted, it was the work of a near neigh bor, Carefully gathering an armful of dry woud he stole dway with it. As noiselessly, llue owne pickmil al: :an antuful ot yreen wood and follown quietly, thd just as the thiel threw down hi load, he dill the simme, saying:-"There, sul must harn green whol part of the time, 1 has

Ihwo he departes, leaving the other to hi own reflections.

## DINNER WAITING

The Aestruction wharh bverwhelmed fompei eightinn hundred geats ago has emabled modern stultats to stuty the bomp-life of the Roman of the first cemary umder peentiarly advanta geous circumstannes. The city was burjed ul and preserved, and when the coswring is dus tway we dimover just bow the inliahnathts livad A honse recently unearthed in the exeavation at Pommeil was evidently undergonag repait when vhe voleanle stom buriedil. Pintern pots and brushe and workmen's torls were scat cred fhoul. Gmots of whitewash starred wal and Hoor. Pots ind kettles had been bundled up In a corner all by themselves.
Imaner, howeror, had not lieen forgotten. A solitary pot stand "nllor stome. and there wa brown lian in wallm: helne the onta, and he wish a sucking-ppre alt wady to the baked.

 Wall. And it never enteren the wen, and th Uaves were never taken out intil after abojour seventern hundred vezars.
Tho fig and bread hal been theresanee Novem er ar, A. 1). 79. M. Flonell whlded the fraves t has muselma at Pompeis, -1 wenty-one of them rather hard, of course, and blath, but perfect

## FREE FOR SXX MONTHS:





## THE PNEUMATIC <br> FRUIT DIRJEIO.

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 Mate in ALL SLZES for farm
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## eignsubtancer. Send lor Deseriptive Crcmiars and <br> Testhmonials.



## VOI.IV. NO. XI

The Furm and Garden is published ve 725 Filbert sereet, Philudelphiu, Penna. It is muted th subscr,bers from the gith to the lust , luy uf the montr precthmg ,hte of issur. The sumbiption price is 50 kents "ytar,

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 Zesiand.
Page 6.-Our Flower fiarden

Pax $\times$ - - LN + -tock.
Wage g-Damoulles durina furntatonn Durks and





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Fage b- - Cormbundence (continued). For the Ho Weather.
Collectuon

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|  |  | fich samet? |

## Gdinorial GOMmENm

July. " Ready for the rear"r stamls the whinn gran" Harvest time lan "mme. The wheat cron is ereaty injured hy drouthand winter, atat the yin 1 h wio as large as we would wish it to be yet Chote is phenty for all and to spare. What son grmmale becanse it is not mese?
The probathe) acivance in price will gladuen the brart of the wane grower, athl make up wh him the loss in quantly. Fiergtbing wall tura out all right in the enmi.
Wheat ant when in the "dough" state poner.
 driw at enne to the barn.
It you have to state wheat mut-flems a whith in the common pravice in the harge whatath, why sectums of the sobth amb West, emphoy gomet

 and erll when sull can.
We prefer shallow and fat cultivation for corn. Nothing is ganod by excessive hilling. Much mointure is lost if the stamon be dry. Cultivatte earls, often, the late

A few puants of strap-ras turnip apurpletop Is good. sown inwadeast on the come firth after the last cultwathen, whll mate tine fathare for late fall, and one particularly valuable for bibeth.
Weeds are stlll growing, and losects and bugs are bent on their work of destruction. Do nut tire of fighting them.

Protect your stock from fles and the heat Glve them shade, or stable torses and cows during the day, and if you pasture, do so at night. Provide good water for your ammalplenty of it and often. IN2 mot work your twans
betwen the hours of 11 and $: 3$, unles. betwern the hou
obliged to do so .

Your hen honse must he insperted ofton, and kerowene apphed as soun as you nutice algs. 1 vermin.

Foed your chokens regularly and ritton with a variety of food. Chickens bit a few days old soon learn to eat wheat, millet, sorghum, all of which are excellent food tor them. Thickens need water (or milk) to drink, and should have 1t, if some people and poultry joumats dodeny it.

The best use that can be made of skimmilk, Gour milk, and butter milk is to let your fowls baveit.

Cits are often very destructive to chickens and turkey chichs. Kill the mhtuma
Ginu can wath hawks with a steeltrap astomed upon the end on an tall pohn wost prected in the

10 set such a trap where tall trees and woods are near. In that case the shot gun must do the work.
Protect all insect-eating birds and hrat nests from cats, crows, and squirrels, and no less from mincluevora bos:
There is $\quad m$ danwer in good, sound vegetables ad rupe fruts; arond those not filly matured. Eat plenty of berries and let your cbildren bave all they want.

The judicious use of water, both internally ind externally, and the removal of all filth, funans. and termentation from, $m$, and aromed the muse, - m nhut. cleanliness and moderation are are preventaves of cholera in its madgnant品
Trur temperance is moderation, and should be -xerched even in the use of water, particatarly wan water, during hot Weather. W
Buttermilk is an excellent harvest drink. S Sa moxture of milk and water, or water tlavored is a muxture of milk and water, or water tlavored
whth lomon juice for vinegar with a trifte of gimger), with or without sugar.

Set out celery now. Almost everybody likes it. Plamin very rich soilior soil heavoly manured wab well-roted compust, not in deep trenches unless requred in a bot chmate) nor on top of a dge, butan the bottom of well-rounded-atf furcows. say three or four mehes below the eren ampe thall with boardh or luaves for a few 1ats, if nevemary, and water often.

We were fleased to meet during a recent visit Rachmomb, Va, thm quite smedlentally, the famous anmilifrolt man, J. T' Kovelt, and bis brother. '1 haveratheman exidmbly here in the superion dmate and other advantages of


 of graperals. We wish ham stacess.

Does the preservation on hang suramin on ceed

 -ome of the still undeveloped budn anoratly
 We would not tathe the beast trobble whesern them.

 with our hheral prombun an aceds and phants,





 ising sectamen know it.
Doour preminms mally hurt their salen? Far
 wh sedertion, whether they tereine diar and
 seribers wha duredin liwh have
seeds dirctly fon the ad
By glving th then a cullertion of valuable




Habe nu tori", hathrot We hall not know nely do an mojultice wour sumberbers or to our adherthser.


 cohong:" We never will rextet the two dass Gent there. We met haply and contontol bates evervwhere, qual sodiety, every mondom ind provement, and unmistakablesigns of thriftand


Thousands of ponnds and hundreds of bushels of next-tw-worthless seeds and 832 in cath. That seem. to be the ridicuturs remnant of the slat, ики appropriated by Congres for the govermmental free-seed distribution, and at fine showing for 1 m . Lormg's management of the Jepartment indeed? What a senseless waste of thr people's money Yet Dr. Loring is not to thane more than Comgress, who have made the Department more of a political than an agricultural institution. There is abmatut room tor retorm, and if Col. Colman is the right man in the right phace, as we expect
him to be, we would, alone in consideration of the change in the bepartment, rejoice in the change of the administration which caused it. If the Department will consume a vast amount of the farmer's money annually, we desire to be benefitted by It. Practical information is what we want, and what we pay the money for. Lel us say, for unce, " Full value received!

Now, while village and cits people sleep away the test homrs of their lives, the farmer, who is barly to bud healthy, and wise, witnesses the glorious sumrise and breathes the fresh morning air. Life is short, and sletp consumes one-third of it, but this one-third should not be the very best part of life.

The husbandman's work compels 1 im to be out in the burning sun more or less. H14 in always in clase rommunion wath atare, and not atran of sunstwke. tike boured-up and tender-brained city people. let, as he rises early, be can well afford totake a two or three hours' rest during the mullie of the day. It whl pay hom also in strength regained.

When at work in the bot sun put a handful of cover or a cabtage or burdock leaf hato your hat. 11 whll keep you ewn and comfortable. You need a from muscle and a coul head.

It is not too late to wow tomer crops. The hay rup is qumte shoit in many sections. Pastures will fall in the tall: prome for it. lou can still Hrow a crop of swect corlu thr fidder, or a plece of Hangarian grases. Juu will frobitbly need it.

There is a prevaling paragraph now illuminathat thenherwise dill whams of many of our exchangro, declaring Hu Enghsh sparrows a nudsamte athd citing matmons ways in which they ar injurious. They say they drive away other hinds, encourage the cultivation of insects, deatroy troit bats and grain, and propagate dis-
 cal tarmer whomember the motisurng worm
 in the very tree's in whell the burds roost, and Who compares the anmunt at grana and ripe iruit
 roblli 0 wher matist birts. Better get somethas new togramhe : ansit.

Everybody who farmsumberstands how togrow turnip:, but everylunly wh not take the precautima to as plenty of suetl. The fly is the scourge ot tho mon, and can may be beaten by using serd lituratly. After the seed is up sprinkle a-hes aromad the phants, but not indirect contact with then when very young. Gas tar, when Lac.al for mopregnating water, which sbouid be briakloul uver plants, is very obnoxious to all kumloot buncers, and may be used freely on turnips, "athates, squa-hts, melons, and other vege tablor, is it is not mbintous in any manner to plants.
We venture to say that those who had pigs farmwed in February and March are wher thatn they were at few months ago. No possible advanage can tue gained by hating the sows come in so farly, for the labor athd care required to protect then from cold and sudden changes of weather cannot lie compnasated. A cheek topigs in the boginning is a chock until they are bntchered. Rellar limg the pis. Wdaring May, for they will


It is emough to make a granger smile to hear the awroge vitizell talk about the weathor and rops. Mon who beter lived a week on the anmatry will gratuely dincuss the effects of this lainand that hat daron ann and wonder whether thw whl shay will kill the buds on the wheat, and it it is toc damp l" suw statwerry seeds. The lean in man knows the mure he talks.

The Axrioultural Department is rotten from one end to the other. If there ever was a time that pace fur a "clean sweep" in public office, lifi is the time, and the "Government seed -h, ${ }^{\prime \prime}$ " is the plate. Mr. Cohman has been in wfien over two months and like a majority of the dgricultural press, the laka AND fiARDEN has looked for and hoped for some chatuge for the better. The first change, and one hat conid have been made ut onco is the rimusal of all Employes and Subordinates in thin dhatment who have been assistmis tu its corraption, and a cause of its deticien's

The month of June is a dull month for papers, and the year lasi has mot becn comsindirid a guod
 received nearly twice an many shmeribers as in June liss.

## ĞLPPINGS




## THE THOROUGHBRED IS RELATED TO THE TROTTING PROELEM

1 for not advocate, that marder thent trottira yon






 stanlord will, in the morer finture, hemw+1strats this fia


From "Dan'll Former," r hragno, 1 ll.

 det-for the heatthy as well as the ailing $1 t$ is the Khoniss." which eriminated in Tartary", where it is made from the milk of mares. The following is a tor mula for its preparation, given by a leadiner phys, pian "One cup of buttormilk, very somr: seven cupe oif fre⿻ milk. To stand in a slichtly warm phace notar the fir for welve hours. Whip smonth, anding a little white shear in [owater. Bothle, and let it stand for tword hours uncorket. 'Then cork. and wirt. kw+p int atom place for twf or three days, when it will be the fert that There appears to be ne, reason why, if the artiole is really as lefoeficial as is clatmed. datrymen shoma not nake and trottle it in large quantities, and make it staple article of trade.

## From "Gur Coundry Heme." atrontivid. Merse

## believes in two litters a year

Many persoms are of the opinion that it is the more profitable plan to have sows rear but me litter of jigs per year, and have thasp comb warly in the spring. An Hinnois correspondent thinks otharwisp, and tedk bow
 my bigs were inrrownt the last tive duys in Mareh and the tirst diteeo lays in April. I rrowdod them all they Would bear motil the mimalle of Joly, ant thon took corna
 two montlis I hat them runting on wheat sthblefo and
 womld eat, until the lath of Janllary. I wola at that time, drove threp miles to station and wrightil, and my honch of ti2 weighed 31 all arombl I always raise from f(t) to 125 pirs, and seril down to that mamber for lirest
 berd. My second hater ks larmoned the last hatd of September and the first hatf of Oetolare. I food noy pirs sparingly during the winter spason, until put on grass is the spring. I shat them, 战in mumber, the erd of dume
 market hefore yon ent reany to fed yours, Now I hat 577 ponmde to another man's pordutber fint. It lowiss in me as thonght it wonld be very expurasive for wat matil I se my pigs more fully abelop thaturel wes before I fatten.

## From "Poultry lird,' Harffom, rmm. <br> LEGITIMATE BUSINESS

The poultry hominess hat long pasad the trial stage and become as much a legitionale onf as any form of indmatry that san be cited. Eotirely apart from its lac: nation for the amateme (atmel in the word is embraced old a new breeters), is its strictly bucinese phase. Most breeders go into ponltry caising fir two distinct calleseslow of the beantiful fowls and all that pertaios to them. and the desirn of mating sombe meney. Of late years maty men have gone into pontry treeding on a large scale, and with a dedinite purpose of making all the money they honestly can by selling fowls and eggs There has heen a disposition to sneer at such undertakings, and prophesy their failure. As if, forsooth, no business that was not banded down from onr grandsires conld be legitimate and proftable. Many a pale hank clerk or "comiter jumper" in a dry goods store who looks dowo scornfolly on the ponitry raiser, might fitr better, provided he has brain or energy left to do so, drop bis ill-paitl and unhealthy callity for one as mucb more proftable and substantial, as is poultry keeping. This husiness is already an important one, as any one who will take the pating to find out what is yearly paid for eggs and ponlery, cao learn. It is as onch a legitimate business as handling dry goods or keeping hooks. The poultry keeper is his own master: floes ont get to work on the noteh of an hour; is oot "wlisiled in and out " like the workers in onchine sinoss and factories, and bas altogether a pleasanter life that those who follow a stated round of comonon toil. At the expiration of ten years in the husiness, he will with ordinary care, bave more health, money, aod comfort to show than the aver age workman in any brancb we bave bamed.
trom "Eurmers" Revifu." Phirago, Ith
Thit of the +mhatrasments whth whith the new com
















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## FANNY FIELD'S SENSE








 - Iotars Int thanat, athe witb an anr that womld carry obl
 was are th" "hesh lowls ofl "atrth." Niext, another whipe



 Work on this ans abank of natormation, ang the r brotio







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 commors she the scoat arble cutto vere in the tambe of the



 them lomat th his wifa, who was at wahmoman, alal she

 base lues may we come ar last!"

## GOMMON-SENSE VIEW OF THE CHOLERA.

A medionj journal kives bu extract from at lecturd dolivered by for. Hugn Engle, in which there are some hints of universal impurdane in regart torhole rat brevention. Aftur relating a manabr nd inctandes in which tninsals had atied from chobra after having had some camma-bacili injected in tha n!per portion of the thon deman. h" prowederl to slow how the king of faly hat Cisited with +htire hupunity the cholerat hospithis of Naples. The rasoo of this is thas stated: "All his food and all the wat+r and wine he drank were sent to him from Rome in hermetically-spaled botles and boxes. As he conld not heonmer infected hy way of inhalution, but ooly by the food and watur swallowad, care was simply taken to lave
from camma-hacilli."
from camma-bacilis.
Noar the conclusion of his lecture the doctor gay some practical alvife which may be oft use in this locality in ease we shond have the onitbreak which is threatening us. Tre said that people slosuld have their matn argan of disestion in the hest possible order, and that errors in dpt whonh be avoidod. The phainest food shond he sulerterd, and every particle of fonk to be patans and water to he drank, beiled thoroughls, and in this way there would br no banger of intection. These are common-sense views, and their appliation is substaotially within the rach of pyery family. Cleaning the streets will assist in preventing the"spread of infertion but at the same time it will not keep cbolera ont of but
cuty.

DOING GOOD TO THE SMART ALECKS.














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They wath uc vory chooly, and that is a gan thing








Whath he brobritt the tirat reatur inter the netighbor-

 nelug marhusery the tharserst field.
 wink as the man who thinks tree platiting $a$ forolish thins, or are skiphead abut hate grass pastures or vetagoth haris.

## POULTRY AND EGGS.

It has burn stated that the rensus returns maced the
 but whelfere that onls st furt of the trit mambers and

 proflels wore warantm, ath this is what it form




 hysome onthusiastic foblary-podurers.
Tho whole wambry of barnozard fowl, mot inclutiog

 fir to mochma than whth the chacks rateml for meat, the what anntab pronhe for pomatry meat would be at

 The mambur of wign promaced from the atwove nunber



Mancullustios contained in the year 1979, of barn-yard

 at lucents whala be seas, xis. The fages at 1.5 cents would ho serm-2, mating the lutal value of the income from the multry in maseachuselts during the year of 1879 S1,:7, 1,610 .
It is extimated that the laying hens in the several date prombey yarly as follows:
Matre
uggs to each ben.
Mascachusedt
New Hampohir
Rhode Island,
Vermont,
pronnsylvania,
Indiall
Ohio,
THMme
Kentucky
kewna,
11 inosis
Nurth Carolioa,
Lomisionam
Thuc will br see
seen that the Nothernand particularly he' New Hengland States, get the largest number of egge rom a wiven number of holus. 'This cannot be because but protmbly bueause the flemapi tor edos in manufac burine distucts is such as to hring prices up to a polnt to wateit an thject the the heus extra care and a make t ar variety of foom.
In firnang districts, away from manufactories, the demand for eges is limited, so the farmer gets all tbe poma wand without piving the poultry any particular attention: he anly freds them with aoy regularity a few werk before he desires them for meat
The forest products of the United States in the rear
 poultry and eggs.

GORPESPONDENGE.

## Harrisonvilife, lemas.

I have a kind of moss that it whlld like to introduce in some state where there is urme. I was
out walkingone day when I found it. Then it was an inem hisli. I touk it up, set it insome rich gromal, and watered frequently. Now it is abont three incles high. It graw hati an inch and hen branched out at the tom. It is partly rovernd with little vellow hossoms. It ham lawn that ther fall. I would like to make exchang for some honse-plants or at parkige of mixed house-plant seeds. Ans. M. W. F. PAFks.

## Eluffton, Liano Co., Texas.

In my April number of Farm and Gakien you describe the caetus preminm. The Echinu cereus Cespitosus are quite plentiful on our ranch. They are in full hom and are ruyally magniffeent. We have another very desirable Cactus, found single and in humbles of as many us 144 stems, and these han an averase of three thowns to the stem. The whole has the appearance of a huge rose two feet in diampter. We also have the Main. App, and sevral others, but thers do not approach the first two in beataty of flowir. I would like to supply you with a thousand or more each of the first two in exchange
for fruit trees, fiowers, etc. F. M. RAmsey.

In the Iune number of the Farmand Garden the question is asked, "What is the matter with the in"ubator?" I do not know as I am compe tent to answer the question, hut I will give my experlence with the savidue Incubator. started mine in February, and have run it eve since, and have hatched as bigh as 90 percent., never less than 75 per cent. I use expe frommy own fowls and they are always frosh. That in one important point. I run my heat at latio, ant give the eygs a good comiluy ith every day.
supply plenty of manime with smath cups of water, and a small plece of sponge me:noll cur Do not sprinkle the eggs. I bave hatched a better per cent in the incuhator than I maser with my hens. I have two running ; one is hatelnIng mow. I have just taken 5 ohbeks out. Ms theory is that a top heat incntator requires a hogher degree of heat than one that has tup and bottom heat.
F. G. Molise.

James G. Dayhoff, Riggold, Md., says:-I recelved the plans for savidue Incubatur. and
 seventy-4 vergs ; Mareh 30th, hatehed out fomr-
teen nice chicks. Of the remaining sixts-ante. there were thirty not fertile, and thirty-one had dead chicks in, about one-third hatehnd. April 3 d , I set it agaln with seventy-five equs. Sennitytour proved fertile. out of these we hatchisl nithird hatched. The thermompter is correct. I kept it at $105^{\circ}$ the first werk, and then $104^{\circ}$, and the last three days at $102{ }^{2}$. I never saw it over the mark, and never below 102 . Ilease toll me why the chicks dle in the shell. I think the fant is in the ventilator. I have only thre halfhach tin pipes, and I think there should be more. I krep three sponges in the drawer, and a pan in the ventilator.

A correspondent under the heading "What is wrong with the incubator," in June is*ue, states that he did not allow the beat to go "bclow 98 , nor abme 10s," and that he "sprinkled, turned twice a disy, and cooled once." Now "what is wrong with the operator?" Mr. Savidge does not recommend sprinkling, does not allow the heat to go up to 108 , and directs the use of wet sponges for moisture. The correspondent says he " kept the heat at 104, 103, and 102," but, as he further says, he "did not go ovar 108," it implies that he went up to that degree, which conflicts with the first statement. If he will carefully fol tov divections he will have no occaston for bls inquiry. The incubator is so sure, compared with others, that Mr. Savidge always receives them and returns the money when ther fall to hateh. He has only had one returned from all he has sold. As the mistakes of the correspondent does Injustice to the manufacturer, this is written in orter to explain the matter. It has been proved that not one operator in a dozen will follow direc iinns, and if the corsespondent made as many mistakes in making his incuhator (he states that he made his own,) as in operating it, he alone should bear the responsibility.

Fish Lake P. O., Esmeralda Co. Nevada. I was much pleased with your "Cactus Talk In the April number of rour paper. I used to knve ('acti in variety sears ago in Illinois, and anm : great admirer ot them. I am an otd lady which is six thousand feet. The fiot hills and sand washes on either side. contain some tine himds of Cacti. I send you a specimen of one kind that I think very paculiar and lovely. The most of this kind of cacti are too large to send by math, being generally from four to six inches in diameter, and a foot in height : they often hays six and eight flowers open at once. There are mine varieties of lammilaria, with crimsom tlowers, and an Opuntia, With rwserowred fow paring to keep flowers again, and wish to get some if the old favorites. Tell me it any of the florivts you know of make a specialty of Cacti, or where I could get them lest, and could I exchange some of the varieties here for some of the old sorts? I used to have fine brooming plants of the old Creeping Cereus, with lits lovely, crlmson thowers; the Truncate Cactus, the Cereus spedisus, Cereus furiosisilums, and a triangular (ereus, with a red flower the size of a cotlee cup: the Eehinocactl, or Melon Cactus, with a white, swert-scented flower ten inebes long. The freeping Cereus or Caterpillar, as we nsed to call it forty years an, I want especially to get, as it will look to me mure like an old friend than any plant I hnow of.
There is alsn growing in these mountalns a enrionity in the elderbury. In wrowth and appearanw it is like our eldorbery of the east, but
 We buy them dried, of the Indians, and they ar In all reapects as to taste. likn a currant. Wombl fruit list if introducel wast?

## Mis. Sophronia Mcafee.

J. C. Thylor, Parkersburg, la.: Will some one tell me, thringh the Fabm and Gabien, where Iranget the -hetastopol wese?

Mrs. Addle II. Kelly, LImena Clyy, Montana Trr., aska how to make encumber piekles with whisk+y. Answer-We sue it racommended to ns: onethirl whiskey and twothisds water for the pirkites. Pack green cuormbers tin a tub ant cover with plekle. Use no salt.
J. F. Fislinp, Lotanspart, Ind., sake: What is Garden Rhu, which is recommended to put in the drinking water for chlcken choliral? Anin the artlcle vou there and it should have been sarden rhulsarh. The renordy is useless.

Pielle Robinson, Belmore, Ohto, asks for a sure remedy for the black fleas that are so trouble some in garitus. Answer-L'se Persian ink ot powder as directed alowe. I'arls green, 1 onney to 12 ponnds of flour, well mixed, and danted on the plants when wet with dew, will kill every flea and hug. We use it freely.
Otto L. Nichols, South Bronkfield, N. Y., asks: Is the Newton patent method of fastening cows practical in home dairying where we milk in the stables and turn the fows to pasture during the day? Are they as hanly as common stamehions fastening with a latch? Answer-Who of our readers can answer the inquiry.

Mary Winkle, Algona. Iowa, asks how to keep off the yellow beetles from squash and cunmber ines. Answer-Use one part, by weight, of Persian insect powder and twent-five of Plaster of Paris, and dust the plants with it every few days. We find it pars us to use small, open boxes covered with mosquito netting, over the plants to keep off tugs. We alsn flnd they will benefit plants; make them grow more rapidly, and proteet from frosts.
J. D. B. R., Mlllersburg, Fa., asks: (1) For the address of some gord commission merchant in Philadelphia. (2) Is the Warren strawberry a profitable one for market and home use? (3) What sorts of old varieties would you recommend for a near-hy market? Answer-(1) There Is but little difference in any first-class merchant. Sell at home when you can. (2) Not particularly so. (3) The Wilson; Sharpless will do well. Some do hetter one year and another the next. More depends on manure than varlety.
N. S. Margeson, Marcus, Iowa, asks: What to do fur a rnnning sore on a colt. Answer-Wasb well with castile soap, and for a simple remedy dust air-siacked lime on 1t. Keep flies away from it. We use air-slacked lime freely dusted on
excellent to dry op and heal them. Always wash the sores freely with water, and keep them chan. If there is proud fiesh in the sure, sprinkle fine white sugar on it, which will cleanse the desh. After being on awhile, wash off clean.
Elwood S. Cooper, Columbia, Pa., asks whether it is best to let the tomatoes lie on the ground and ripen, as is usually done, or tie them to stakes. Answer-The tomato is of much better quality and favor when tied to stakes and kept from the ground, but it is too moch work to tie them up where many are grown. We find that staking them with brosh, the same as peas, is a good plan, only have heavier brush. Master Cooper is only 11 years old, writes a good hand, and we predict will have a good garden.
H. E. Skinner, Albert Lea, Minn., asks how to row and care for Bantam chicks. Answer--Set the hens as late is prossible in August. This will he a good season if they are ready. Keep the sitting hens and chicks free from llee. The hens will come off dally, or at least often enough to air the eggs. Best not disturb them when sitting. Keep the young chicks from damp weather. Bread makes a good food for young chicks, and atso coarse-ground corn meal. Allow them plenty of liberty in dry weather. Wheat is a good food for the old hens as well as the chichs. Keep plenty of fresh, clean water by them. Earlierhatched chickens grow larger, and for that reason the later hatching is desirabte. The smater and healthier a Bantam the more vahable it is. We have had hen bantams that only weighed fourteen ounces.

Prathieville, Arkansas Co., Ark.
I have recejved yourtanks for subscribers, but cannot get one. People here do not llke farm papers; they go infor polities. Bless me! I do not read ahout politics, there is no money in it. Give mesomething that tells how to get more fiom the orchard, garden, and farm. I have been doing my grafting for four years on large stocks, like your cut (figure 3) in April number, and do not lose more than three or four yer cent. They selfom fail to grow if well done. I have a spedling bear lhat grafted into armarmg ripens the first wew in June. Fruit large. deep straw enlor: whon soft. rather dry and mealy, but any that I know of. Why do not Southern nurserymen adyretise or wre thro nome in the ronew when my tise is olat. W. D. Wesnek.

Bugimury. Olyphant, Pa, asks: (1) Can you reanmmull the Kieffer pear, and what would be the cunt per tree seven fect high, also cost of Flemish Reaty? (2) My soil bakes in summer womb you advise sawdust to fertilize it? (3) What harly strawberry could you recommend, of laren size and productive? (4) Can sou recommend hetter pears for our vicinlty than the Kieffer and Flemash Beauty? Answer-(1) The Kietlier with yon, if it should prove hardy, will be very good for canning, but not very good for eating. The kieffer, to ripen, needs plenty of sunshine and warmth; the pear is then fair for the talle. The cost of the trees will be ahout 50 cents pach. The nurserymen who advertise in the Farm and Garden will write you prices of them and cost of delivery. (2) Would not ad sours and injures the tand. Burn the sawdust and nse the ashes, which are good for fruit trces. (3) Wilson, ind ferhaps Sharpalso name Bartlett, osband's summer, and Law rence; perhaps also Reurre d'Anjour, You will find something every month that will a with the frult growing. Glad
FARM AND GARDEN.

Samuel Vickers, Darlington, Wis. asks: (1) How long does it take oranges to ripen from the blos once? (3) Which is the hest time to plant apple trces, spring or fall? Should pasture land be broken up before or after grass starts? (5) How is the best way to ralse tobaceo plants from seed? (B) How should soung turkeys be cared for Is there any way to kill wich grass, and how (8) When is the hest time to cou hazel hrtish to
 in the rome 110 so long. ( -1$)$ In florida is al duced: in the Torrid Zone the crops are continution suring or fall in the South fall. (4) Depends upon what is to be planted. should it bo corn you will have to How early hefore the grass starts. If the soil is full of worms, plow in the the grass has grown and in blossom. (5) Start the seed in March or April for your section, in a hot-bed, and transplant in the fleld when the danger of frost is over. (6) keep the young far keys dry and free from lice. Feed well on cura cheese, with plenty of penper and coarse-ground (7) Yes; cullivate well. Half tillage will be useless. (8) August, when the weather is the driest cut the brush. It has nothing to do with it.

I sie Judge Biggle is going to use ice water for the rablage worm. If that does not eat into the profits of the crop very materially, I shall be mistaken. Is there any instance where "high farining" has paid? If so, when and where?

## B.

In the June number of the Farm and Garden Mrs. Zuver asks, what roses, shrubs and climbing vines are most desirable for a door-yard. Such questions are litticult to answer satisfactorily Witbin the limits of a newspaper article. The
list of desirahle roses offered by forists is now very long, and is yearly increasing. Roses, like all cultivated plants, are more or less affected by local intinences, such as soil, elimate, \&c.

As I lived for many years in northern Indiana, In about the same latitude as Woodhull, Ill., I think that the following list will give satisfaction. With the exception of the tea roses they are all hardy. First on the llst I will place the old and well-known favorite, Gen. Jacqueminot, a strong, vigorous grower, and profuse bloomer; flowers very large and fragrant, color rich crimson. Baroness Rothschild is becoming very popular, color a delicate shade of pink. Coquette des Blanches is probably the best white, of the bardy perpetuals. Magna Charta is a strong grower, and usually dows well in all soils: flowers very large and fragrant, color rich, dark pink. Princess Camilla de Rohan is claimed to be the nearest approach to a black rose that has been produced up to the present time
The Moss roses are all hardy, and are espectany desirable. The following are good: Glory of Mosses, Jas. Veitch and pernetual White.

I woulh not be content withont some of the tea roses. They are not perfectiy hardy, and would need some protection during the winter, either by taking up, and putting in a light dry cellar, or by covering with earth in the bed where they grow.
But tneir exrewling beanty, exquisite fragrance, varied and vivill coloring, and constant daily bloom from spring to fall will much more than repay the extra care and labor necessary to grow them out of doors. I should want at least the following: Bon Siline, Cornelia Cook, Ilermosa, Niphetos, Perle des Jardins, Lsaheha
Sprunt and afrano. I do nutattempt todenrib, them, becallee a full description may be found in the catahorue of almost any dorist whe alvertises in the Farmand garden.
The above list is by no muans full, and many would make changes, and prhaps imbowe it. batisfaction.

Among shrubs, every one wants the trup suringes, commonly called hlacs. Some new varieties are offered hy florists, one that has doubly thwers, and others that bloom quite late in the season, after the ond varieties are done.
Then there are the numerous varieties of Philadelphias, commonly called Naringe, or mock oranse, which are all gool. The new double varicty I have not scen, but feel sure it must be very desirable
One of the earliest flowering and also one of the showiest and most beantifut is Cymmia (Pyrus) Japonica, the common Japan quince, which is always an attractivesight when covered with its blaze of scarlet blossoms. The white variety Cydonia Absa, makes a good eontrast. There is another shrub, not so well-known in the
West, which should always befound accompanyWest, which shoud always be fond accompany--
ing the 1 mean the Forsytha, of which there are several varicties, all yellow and all blossoming very early in the spring, usually before the leaves appear. Caly anthus Florilus, strawberry tree, or sweet-scented shrub, has dark purple, and very fragrant flowers.
The numerous varieties of Spirea are all desirable, they range in colon from pure white to dee rose color, and bloom at various times from early spring to latesummer. There are several named varietios of Weirelia, all good; but the common W. Rosea, W. Hortensis Nivea, pure white, and the variegated-teaved, are enough for an ordinary collection. Deutzia Gracilis with its long drooping racemes of pure white flowers is almost a necessity. Some of the other Deutzias are nearls, if not quite, as beautiful, but are not perfectly hardy. The Altheas are shrubby members of the Malvaceæ or hollyhock family. The flowers
are large and closely resemble hollybocks, and have the samc range of colors. There are single and double-flowering varieties, and all are good.
There is one old shrub, that is not seen nearly as often as its beauty and fragrance deserve. I mean Daphne Cneorum; though a true shrub, it trails on the ground, and seldom exceeds six to iwelve inches in beight. It should bave a place Last on my list, but not least in value, I name Hydrangea Paniculata Grandiflora. The old Hydrangea, so commonly grown as a houseplant, is well known. This one is a large shrub,
and is perfectly bardy. The flowers resemble those of the old varlety in shape, bnt are white and are borne in large, long, cone-shaped panicles late in the summer.
Among desirable climbers, I place first, the hardy climbing roses, such as Prairie Queen, Gem of the Pralries, Seven Sisters, Laltimore Belle, Pride of Washington, Boursalt Elwans, ©e. Next in value comes the Chinese Wisteria, which is a very strong, vigorous grower, and covers itself with tlusters of purple, pea-shated flowers very early in the seasom, before the leaves appear.

There are several Huneysuckles, such as Chinese, fapan, Red Cural, fe. \&c., which are
all humbul, and usually very fragrant. All of the dintent varieties of clematis are desirable, but spectally so are C. Jackmanii C. Coccinea. Bignomia Radicans, often called Trumpet boneysuckle, is a rampant grower, and the thowers are very shows. It is excellent lor hiding old unsightly buildings, but should not be set in a lawn as it has a very undesirable habit or sprouting tron the roots almost as badly as a blackberry plant.
shme of ur native vines are equally as good as many foreign varieties, but are not always attainable. Specially valuable is Celastrus scamdans (bitter-sweet,) its brilliant orange-onored and red berries are very conspicuons in tall and winter. Cematus Virginica is found growing wild in all parts of the North and West. Its clusters of small white flowers are not very showy, but each flower is followed by a bruch of seads, each of which has a long, pumuse tait, making the head of seeds loak like a bunch carled feathers.
This article is already too long, and yet it is very incomplete. The list is more noticeable for what is onitted than tor what is mentioned. Some thingsare not very common, but I believe every thing can be found in the catalogue of some
Horist who alluertises in the FAha And Gablen.

Two cures for ivy poisoning are given in June number of Farm and Garden. Allow me to give a thitd, which may le avalable sometimes when neither of the others can be bad. It is simply b-carbonate of soda, common vaking sorla often sold in groceries as salaratus, wet with water just to a paste, and applied to any part
poisoned. Ken it wat as it dries ont This is also one of the very bext remedies for a burn.
On page 2 of Junefiarm and Garden, third column, eleventh line from the bottom, Northern tate should read southern state
W. C. Steele.

## For mhe 万om Øeather.

A dude looking at a camel. "If I only had such a neek what a collar I could wear."

What is an epistle?" asked a sumday school wacher of her olass. "The wife of an apostle," colled the young hopeful.
A little boy on tasting his first lemonade of the season, remarked, "Mamma, doesn't this lemonade taste strong of water?
A Quincy, Illinois, debating soclety bas decided hat there is more pleasure in seeing a man thread ancedle than watching a woman's attempt to drive a nail.
"Pa," asked Walter, "what is a Buddhist?" "A Buddhist, my son," replied pa, "is a-wen-a dort of hortioulturad chap-you've heard of budding fruits, you know."
"No," said a New York belle, who had just returned from a tour of Enrope and Egypt. "No, I didn't go to the Red sca. Red, you know, doesn't agree with my complexion."
Here is a boy story: A lad sat on the floor playing. Suddenly he set up a howl. "Henry, what is the matter"" asked the mother. "The cat scratched me." "Why, the cat is not here; when did she scratch you?" "Yesterday! "Well,
why are you crying now?" "Canse I forgot it why are you crying now?" "Canse I forgot it the a ."
'Mr Jenkinson's wite muxt. be awful jealous! said Miss Smith; "he gave me his seat in the horse car, and when I thanked him he begged me not to mention it. "
"Johnny," saill the wlitur to his hopeful, "are you in the first chass at sehwol?" "No," replied the gonngater, who hall stmied the paternal sheet, "I am registered as becond class mate mat
Teacher:-"xinpme you had two sticks of candy, and your hig hother gives youtwomore, how many would yom have then?" Litte boy shakng his hedt: "You don't know him; he
"Pa, whow was Shylock?" Paterfamilias (with a look of surpriwe and herror)-" (ircat goodness, boy ! you attend charch and suaday schood -rery week, amd don't koow who shylock was? Guand reat your bible, sir.

This milk is rather warm for such a cold morning," said a customer the otber day to a milk boy. "Yes, father pat hot water in 1t, instead of cold, to keep it from freezingr," was the simple and truthful reply.
They were expecting the minister to dinner. "Is every thing ready, my dear?" asked the head of the house. "Yes, he ran mme now as Soon as he likes." "Have you dusted the family Bible:" "roodness gravions! I forgot that!'
A gentleman was giving a hittle baby boy some peanuts the other day. The good mother said, "Now, what are yoo going to say to the gentlelomed up into the gentleninatr's face and replied, "nore."
A good Jam.-Place one fincer in the crack of d door. Shut the door slowly lint firmly, and keep it closed for at least ten morods. Then open the door and remove the finger, and add plenty of suiry interjertions. Never use your own finger if you can avoid it.
Man is a harvester. He beginc llfe at the cradle; learns to hande the fork; often has rakish ways and sows wild oats, thrashes his way through the work, and when he ambuat at the
sere and yellow hat, time mows him down, and his remains are planted on the hillside.
"William, my son," saill an economleal mother to her bus, "for morey's sake, don't keep on tramping ile and down the flow in that man her. Yon'll wear out your new boots." (He sits down.)
 -neh a bog."
Little Jim: "Ah, ha! I've heard something awtul bad about your pop!" little Jack: "Who "ares fur you? What did ye hear, anyhow?"
"I hear your pop got sent io jalil." "Pooh! "iness yon forgot what thes done to your pop last year." "What?" "Your pop got sent to the Legislature."
The i"istmaster at Lickskillet, ark., writes as follows: "Don't send your paper any more to
osear Hallum, fur he's dead. IIe woz asalghty good reader, he wuz, and would sometimes read ne or your jokes in such a fumny way that folks wonld tangh. "Twant what was in the artikle, but it wuz the way he read it.
At the breakfast table. Mother-Always say "phase," Bobby, when you ask for anything. Fever forget to say "please" even to the servants. Father (getting ready to go down town)-yes, Robert, my son, bear in mind what your mother has told you, and always say "please." It's a little word, my loy, but tull of meaning; and the use of it marks the gentloman, Now, wife, my overcoat and hat, ant be quick about it
"Speakin' of productive soil," sald 'the man from Dakota, "the half has not been told. A few weeks ago my wife saill, 'Why, John, I believe you've took to growin' again.' I measured myself, and I hope Gahriel 'll miss me at final roundup, if I hadn't gromn six inches in two
weeks. I couldn't acconnt for it for some time, weeks. I couldn't account for it for some time,
till at last I tumbled to the fact that thar war holes in my boots, an' the infernal soil got in that an' dond its work.

## dis Fointlinusing about Sthos phates orificat?

"aiaw ixiow POWELLS PREPAREDCHEMICALS
and they WILI, EEND YOU, FREE, an attractive book, which tells you IIGW TO MAICE
FIRST-CLASS FEICTHIZERS AT HONIE, for LESS THAN IIALF their usial cost.


# *The Farmand Garden. 

Vol. IV
AUGUST. 1885.
No. XII

## INSTRUGTIONS TO CORRESPONDENTS



## THE LAST OF VOLUME IV.


 subseriptions wxpire with this nomber, we take
this onportunity of asking evers friend of the paper to rentew his awn name, and got the sob seriptions of his neightors. The furation is this: Do you emmidur the FAlem AND (inhifen wothy of a wite eireulation? If fon do, let shor :mewer letatill.

The mottr, "flomest pay for hoparst work," should be the guide for fixing the sutaries of oun
 gant bay for interine work, -is the "atuse of the disgnsiliner spectarle mow to be witherase in thousamde of amaller towns. We belleve it to in Ds disgratemt fite domandats to gersistantly fight for the phatronice at it is les the lapubtican int rumbent, who hats dons all in his power to prevent the snecess of the mesent Aluninistration, to piteonsly heg of the vietors to spare him, and to promise his unconditional support if spareat.
The adaptation of the moth, "homest pay for homest work," will tend to derease the number and persistency of oftice-sedeers.
We would suggest one more reform in postal matters. Wherever practicable, the post-ollice ought to be styarated from other business pursuits. itore-ketpers are apt to favor their individual customers, ind let Unele simn's customers Watit. Applicionts who int"nd and promise to attend to the post-othe business perwonthy, and without the assistance of depuries, should hate the preference, la many smaller lowns there are too many persons hamding the mail.

Prof. Riley, Entomologist of the U.S. Depart ment of dgriculture, we see reommends the trial of iee water for the green calbuge worm We were advised a few years ago to nse hot water. This vibrating between hot and eold is the more amusing to us, ats it does not hort the worms any. The green cabbare worms, as every partical cabbage-rrower knows, will stand the frost ant cold-they will even live through winter in the liaval state, ready for another seasun's duty. The ice ar ite water has no terrors for them. The worms are found so coneealed by the leaves that neither hot nor cold water ean reath them. And while water hot enough will kill them, it will also do the same to the cabbage. We advise Prof. Riley to go nlow on ice water. It may do very well for a summer drink to those who have it, but it will be useless for the farmer to cary uround the cabbage patch. For the tired farmer it

Every farmer who believes in high thllage and keeping land full to tho standard of fertility,

## FOR A CLUB OF FOUR SUBSCRIBERS AT 25 CENTS EACH,

## "Inove to IPOpasate and Grow Fruit,"

oUR Special wheat number of the FARM AND GARDEN




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It Nammon and Chatrachrintice in all Commrian and © Timatam
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The Experimentw we batre our IScadera to males.
Probable Whuar Latude of thar Fiture-conil


marked, partienharly in the early stages of growh. The plants from smaller seming apparaldecidedty yellow, compared with the riehs darkergen of the whrle potato-plantings.
1 m many lowalifies, celery for winter use may fill beplanted. It meodsagreat deal on moisture The hamer having but af few pante, can well aftord to give his relery row an excasional thorcugh swaking. Ketp free from weeds. A topflessing of salt is bendefial, and this vegetable ann stand right smart of it, without sutfering injury.

Persons who are fonal of salads-we are-should try combsatad or "fettions." sow a hed of it hhis inonth or next. Cover at the approath of winter with course littor. The eorn-salad will come hatndy in winter or early spring.

Our experimental motato khows off well at this writing. We expect to gitin very valuable information from this year's experiments, and to be able to deeide this fial which is the best combination of distance in the drill and amonnt of seed, for early as well as late varieties. The soil used for these experiments is rather richrich enough to grow at 1500 bushel crep of mangels to the aere. Nextymur we shall repeat the same il on poor son, or or fertility.
We do not expect to grow a crop of 1340 hushels to the acre, nor will we brag about what we think we can do. The yields whl be caremily measured and correctly reported.

## Sheep.

Fsery branch of stoek raising has its periods of promerity and appresion. At tho present thme.
 Australia and ohter countris, added toonrown large production, a deprescion in prices of wow was eaused, which was atill hurther jumeanel be the chanso in the dariff. This depresomen
 intoreste of the combtry. Wombrowing abome. mas wot be se profitathe as fomerla, yet, the growing of tiner muttoms, amd comernently the greater demand for them, will tend 10 maki bettor prices for mutton, and while whaterowithe cxclusively may diminixh, muthaterwan will inerease, and the interest in shep will :ustin assume an activestate. Nonstork yirdasorarly and regular protits as the shate. Fien at the
 materially reduces the cost of tha kwp, amo at the hase continued wond priocs fow waty lambin in
 flock. There is a vand difternow in the -iwe for dustry of the least comparen whth that of the West. The tast bas har land and al wnm mat-


 rus l:ayely im woul fire income athl the inerease of stork, Weshath kerp in mind this divarity of inter(str, andshall womFwher the subjert intall ht: hearimen, fuited to each sope thons: and anow what ab! the true :and proper solution of
 We shall consuder first:-

BREEDS,-IVhy the shoep should be clothed wath wool, malike all wher of our domestic atmimals, is a quastion of $1 \times 2$ casy soluthom, an it is so wide a depratwie from the hatr of other animats. The division of shecp into ditherent breeds is of easy solution, for careful breeding for years for special purposes, will fonally fix a per-
manent type in any animal and estathish a breed. In countries where fine uools were formerly in so great demand, the firm uod treds were the type to which all breeders turned their attention, to the exclusion of all other points and fine wools were the result.
1n situations where mutton was demanded, muttom was the object, mutom breeds were estahlished. On the cold barren heaths of England and Scotland, a hardy race of sheep beame the type From these causes twe have as the representative breed of the fine wool class the spanish Merino, from which has sprung the Freneh, Saxon, Silesian, and American merino, which differ from each other in but few points of breeding, but all unite in general fineness of wool. The wool of the finest bred Merimos, rivals silk in texture, and can be spun in the finest of throads and woven in the best hroadeloths. It is this breed that furnishes the wool for the best cloths and the finest woolen goods. This bread has been bred to wool alone, at the saerifice of the muttons. We give a cut of a fine buck of the American Merino, whose form and lifelike appearance shows so well the excellencies of this type, and the differences in some woints that ${ }^{\text {and }}$. especially valuabe to this country ard cimata. The peculiar appearance of the Merino will $t$ seen by obscrving our inustration. The toose
hanging in fohle and wrinkles, wivine the apmenr
 worl whthont alationg the skin to make ronn tor it. It wall the wherved that the wom alan



 than the motton breme. They will thate on the seanty bastures of hill of dabe, hut bot wit
 bum of quality of feed and parare, the are

 phans of the Wert. dither in pure liow or an

 Mнinc.

THE DOWNS.-Under the Reneral name of Ihwne, wh have sumpal Fughah breeds of fine






LEICESTERS. - This lired resemblen the (outsFind, :und differs om? in being of more delimate 1mand somewhat maller, and thate is the abs ance be woul on the formead. The batd head and white factare marks that chearly distinguish irnth the laryer conswohd.
THE LINCOLNS, a breduriginatingin LineolnAhire, Enstand, are quite simitar to the rether hatw-whbled buwns, and are, as det, little bred in

OXFORDSHIRES.-This lireed, also called Ox-

 and mutton brew. This bered is pughatar in bughat, and is rapdy increasing in facor in tharamatry. It orismated'sme titts yars ago, tormanome the lest puatities of both a good wanl and a fine mutton brect. To the


 thet. 'They are a lage shew, rivaling the Cots-
 formerad, the woul it whin is ant on long and

 bown but a lithe ingurion to that bred in the
 wowl, and the weneral appearance of the anmal $t$ induates a thrint and tigorous strerk.

## SOUTHDOWN. -

 This is preemi montly the mation hreecl of England, and while the car cass is of smaller size than that of the other inveds, set in quaity of maton it exceeds them. The breed bad its origin in the downs of sus sex, which are only of moderate clevation, and af fort a seanty though rich pusturate. Tise size of the sheep is medium and brne smatl. The wool hart and thick. legs and face smottyor itmost thack, ald free from whor. Tlie characteristics of this breed are so well marked that thes will, when once seen, he easily distimguished from all others. They carry well their gord points whenclase are noted for tho excellence of their lone worl, raluable in many ximes of manufature while the shart-wouls furman the finer muttons, and the middle-wous rombine the excellencies of both, to a large degrec, making each breed valuable for particular purposes. We will take the first class comprising the Cotswold, Leicester, and Lineoln, and describe them as they appear o the common observer, leaving all the finer points for the stockmen to investigate and discuss. Our aim is to entertain and instruct the general reader, rather than to consider the points of merit in the different breeds.
COTSWOLD.-This breed gains its name from the Cotswold Hills, a range of mountains which rise to an elevation of 1200 feet in Gloucestershire, England. Thes are a large and hardy breed, can endure cold and exposure, will thrive on rough pastures, and mature carly, producing a large mutton. When fed freely they are apt to become an fat that the mutton will not be of use to the buther. They often exceed 300 pounds in weight. The breed is at once distinguished by the long wool that grows from the forehead and over the clean, small head, almost covering the eyes. The aisence of horns and the freedom of wool from the legs will be noted. The carriage of the animal is bold and fearless; in build it is broad and
deep. It is valuable for crossing as it carries il
cossta on other breeds, and are mon onty of value as pure-hreeds, Inat also for crosses. This is true especially on the larger and coarser breeds; for While they do not decrease the size of the crosses hey and largely to the value of the carcass for mutton purposes scothand produces some exellent breeds of sheep suiled to a rough, celd, and rigorons climate, and of good quality for wool as well as mution. Of these the Cbeviot hay be taken an one the finest. Our limits will not allow us more detail of the individual breeds, but we think enough has been given to enable the reader to form an intelligent opinton unon the subject.
CLIMATOLOGY.-We now come to a subject that exerts a great imfluence upon the successful breeding and the longevity of sheep. The naturat effect of a torrid climate is to produce hair in place of wonl. In fact, take any breed of sheep to a hot climate, and the wool will gradually be replaced by a growth of fine hair in the finerwooled, and coarse hair in the coarser-wooled sheep. So great is this tendency that all sheep native to the tropics are destitute of wool. The temperate or milder climates are remarkable for finer wooks, and the colder for long and coarse wooks. These facts were well known to the Greeks 2000 years ago, and as cotton and silk were not known to them, and linen but a little
 from injury. Sine the intresturtion of silk ant cotton, the firm ritulace of wow l are leas in do-

 of similar constitutions. The Merino will thrive in the he tat of flame amd flourish wa the drat studs: while it "all be reared on the hight 1able-lands. it will also thrive in low altitude




## from plain

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Among the influches of climate




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WESTERN SHEEP GROWING. Whurefitlu: braratand feed and pastures a




FOREIGN SHEEP GROW

 ears sex where the conte
 Joan bht jubtotigated th increate of the sher and the reit extended, tern form a just blat wi the territory mu w ede voted to sheers. Australia t takes the lead, wot wily fo: the Vastness whit h flock tho limitless territory. but the numbers wwomel by one person, As many as
dian of a watercourse or even at donrosina fund of water may give the control of lathe territory near it to the for" nate namath For without water herding is mot powell. and he when controls the water insweh tasse- at (controls the pastorate of fetes of
 who trespasses with his menes, dying with hath It may be, upon the water right a of his bublamor tach freedom is never permissible, it may be said that he what owns the water hols all the lands that lie armand it. Herm the warfare bet
 ficreest, and complaint of the cattle herder that

##   SHEEP! SHEEP! LINCOLN, HAMPSHIRE DOWN, AND SOUTH DOWN SHEEP a specialty.


Order Mon ir o on witt io wert the weer Adores

Whatiol sheep art (credited to at single sher, and there atremans on hers who hate floe ks nearly as hames. The sheep runs or +anions are leased from the government in large sections, at the low rate

 Hume miles, an area nearly as litre as some of woe smaller states. These sheets rums or farms are so numerous, and the amount of womb producted so enormous, that its effect on the market is felt all over the world. Buenos Ayes, laze guns, and Criquay in South America, are becoming important sere districts, From the richness of soil, temperate climate, owners will

## BRANDYWINE FLOCK <br> PURE SOUTHDOWN SHEEP.

## The sites and dams recorded in lIst and $2 d$ vol. American

 Southdown Record. Also wo recorded rains one received thirst prize at Ppinsylvina kite Far, last: the sate by JESAE K. COI'E, West Clbestcr. Pena. benton garinger, washihgoh, c. h., ohio. POLLED ABERDEEENANGUS CATTLE sheep is most valuable, and will more than pay for the care of the flock. By the use of sheep as|  |  |  |
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|  | "ill low en ermenty for it, that thew |  |
|  |  | Whept harw in bre math of winter. The same |
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|  | ducking of lamb -bumbly dome arly, as early |  |
|  | as the first wonk, if drame at |  |
|  | he are unathy wemed at four monthe, or | dinemes amin break up inte start piecor at the |
| ble, that were the enormment athle amm - |  | Whases where the change mevers such worl is |
| the industry woulia anume vat |  | Sand wormbers th the manufaturer, and |
|  | Waturat, athl chath short pantuagr manire it, | dues nut matitarice. Eapmure to whan and |
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|  |  | FOOT ROT |
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## LAMBS


#### Abstract

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## If you what at somnd and leealthy forels, When a lamb is tak+n to the fire to warm, an

the ewe will not own it when retmoned, usuall lf the lamb is wetted by milkins the muther, th
 quently die of armatipation whon a wetk abl this seldinn oceurs in cases where the eres hat been well kept, and the walk rich and heallhy fambere the feeding of rontw is prateticed atter canding. loots bet here wi.l orehsionat eatiak also frei thin of milk, milked, until the lamb ualr winsume all one Ioung lambs will soon learn to eat gromed feed Which is best fed in a separate encloware, with round slatsorstakes scet far enough apart to allow only the lambs free access. The enchosure will soon be found by the inquisltive kambs, and will soon be filled with them, and the older ones will consume more feed than onp would sumpose pos sible, and will make a rapidg growth. The yound est lambs will suon imitat the older, annt be found with tbem nithliner at the grain. Final portions of oats and corn ground together is the best. The ewes should bo kypt well-watered whit Presh water dally, and regularly salted, ather by keeping a lump of rock-salt in the pen, or sprink ling the fodder witli salt-water. Gation sbould
bo used not to keep a lump of roek-salt long at
 OXFOROムHIR1:DONN -HEED AND
CHOICESPRINCPICS.
dersey heds. difater willtes.


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## JOHNSON \& STOKES, <br> PHILADELIPI11A, PA



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 U1UOS BHEFDFRR MTMON AND The HAMPSHIRES WIMII.BRADBURY, Nason, Va.


Onges. $>15$ 1bitchew, Si0. Dngsor Jitcheshrokenoncnitle Satisfaction guaranteed to every purchaser. ASSOCIATED FANCIERS, 237 , SOUTH EIGHTH STM, SOUTHDOWN, COTSWOLD, OXFORD-DOWN SHEEPAND LAMBS

COLI SHEPHER PUPS sopicied w. Atlee Burpee \& Co.,Philadelphia ab Our Illustrated Cataloghe of the above, and ot
Thoroughbred stock,
kept well pared, that the mixture maty reath the disease, or the rumedy is uselan. sometimes a
 garded as a mild form of the thease. It is mot contarions, that in some cates, if it is lung heghe ted, it may run into the contiginhs funt rut it
vers simple phan to cure the sald or funt, is in separate the hof and nprinkle in the conth, some finely wowlered blue vitrios) (smphate of enper),
 it is thoroughly saturated in water, in which hat Then dissobved all the virtinh the water will hold. shoep, after they are taknol from the vitriop, on a

 several shoma, amal cover the brittom with tiw the shectinto the box, which shonid be wo
ered that they camot jump out, and let them stand fiftom minutes. Tho leet with then
be well soaked, and a fresh lot dan bo put in,

 erally nowleded antil the shew are atl morm or ease is abasod by a small spider that bormwe in

 aganst any jumbetion they may tind, and that
 care comsints of paimon that will kill the insert and their rggs offectually, amb mot injure the
sheep. This may be donce by tobsum, arsenic,
 merrory, and hamoro we not to be commomated. for they
 be a certain and sure ebre at whe aphlathonh
Take a gallon of terehame, whim is the liguid residue left ather the distillation of carbalia but cheaper tham the pure carbohice atidn :and







 completod, shmald be dilitad with log sillosho of Water, and the mares didand into the solntion. If


 mist, Thumaxtum will kill the sedbinsed in iwo Mareurial ointment, hamonnhy mixded with
 straisht limes from that hatal hateward towami the tall, and the ointmont rubled in woll, is grond. Foratall-grown shetp the mixture shatal not excerd two ounces, and tor a hamb hatisat
 ment will injum shoop if the are mot carefully housed from the wot for a few dase after use. Whe Found of sulphor, wathatly mixed with at hatipound ot wil of tar, wedt rublad down with two
pound af lam, atm applied the same way an the merenrial ointanent, is not puismons, and is sure amd ettertmal.-Rembll. The arsenieal dip is made by tlissolving ond gound ot white aremic
 and used as th dip. After sharing, the sirthe dips must not he aliowad dips must not he ahmwed (on wat in the cyos or
mostrils of the sheep, for betng powerfal anomgh to kill the seab insert, are dan puswerful enowh to greally injure the shecp, amb if mot wardally done and the sheep cared fur afterwards, flombis may be lost.

Weaker woldtans will sutlion. The a
and will fandly. kill the het






## PAPER SKIN.




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## 215 Peari Sireet, Mew York.

H. H. BAIEEF B BRO

AA Ammoniated Superphosphate pelicar bone fertilizer.

## WINTER WHEAT,

## SPECIAL WHEAT FERTILIER



THE PHEUMATIC


PHOSPHATE!
Contansthe Life and Essence of Animal kones, We
 Animall bones, and Hheh frate Agriculturial Curemienisest
cure these brands direct from us. Send your nume and addrebs, and we whl manl you our Powhat fonile.



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## F. WALTER \& SONS

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 fichurtr, DAHIEL HULSNIZER, Doylesiown, Bucks Co. P

DOWNING'S EVER-BEARING MULEERRY
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## COMMENTS FROM THE PEOPLE.


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 JOEL IIOLNEIC \& SON Rasplerflas, Catalogue fres

## Locust Grove Nurseries.



## THE FARM AND GARDEN

## LIVE STOGK

## ECONOMY IN FEEDING



























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## THE GROWTH OF YOUNG STOCK










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## STOCK NOTES






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## ODDS AMD（GMDS



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What is thay netrme：＂

 know it：＂
Wailiam learthed a lesson that day be never forgent．

## THE FARM AND GARDEN

## GHE POULTRY YARD．

## CULLING OUT THE STOCK


The fall is the seavon fur colling ont the infer rior stonk and dicusing of the numplos．It is ：

 vigor，ntility，and hadiness，and in making ledions there will always be found objections． some kind th the best in thr thom．
The proper way to sesect the hans that are to be retamed in to first rath ont all that goul are sure yon will not kern，which will leave the botter onen from whin to chouse．This heina done，examine eath lon clondy．In the first

 preference th the one that are small，ill worder th
 cart atl that han winns an scaly leg，or that are so fot ats to be very heary in the rear．（hoose larse hens．if fusible，that are woll feathered and especially if the monle are red and heathys． some of the hens will som begin to manat on shed their ati feathers，which procese rediain about three monthe．The atriar they they
 hefore the advent of matd weather，they with te－

 heris that do not mond lowne wether．When－ ever it can her done，wive the arly－hatemen 1 ，mb－




 bird is hetter．Nothing is mow harainly than




 desired next spring，for mitaket，give the forfor










 deciue wiat form wimb and

## FORCING YOUNG TURKEYS


 attan wrat and，athwing then ons：the rans：


 When foll eaty in the menting and late at night． When the lagin therir work in the mandig they

 gromal．We are all bandiar with the fart that


 and the will show the offere of it until time for markitilug larm．It night thes alowhl have at geod meat of erain．大ize is very dasiathe in turker，and the differene of a prond ur two in
 considerathe what，and bays wall tor the exinnse late in the seann，after the cold weather hesinc，
feed them all the wrain the wifl cat，in what to
 crease the price as well as the weight．

## THE SOIL FOR POULTRY．

On whenderme，where the bran have lad the rom of the farmyard for years，there is gradually are－ comulated a certan ：mmont of dernnpused mat－ ter from the drophinge，which is mot di－tinguish－ able from the dirt will whilh it is mixed．This condition is the datan of exames in chicks and cholera in sadult，as has hech reputedy proved by those wholitre tried the experiment of fecd－
 ginhs whe arnithet．We do not alhab to yark

 firm－y：th than in the shatl sards－w－al tor con－ hama lowls，for the reasom that the whabl yards are treguently cleaned and turned up with the

 a whmm of charide of fime or whluras，it wnuld fommath to prevent disedse．What in bet ter，is tomix an conce of suhtimie add with





## PROTECTION AGAINST DEPREDATORS
































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## POULTRY SCRATCHINGS





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B．antam Ifreks．－The Catl aluck iv the bantim

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 them in their solt foma．Funchally where they have asos－toptenty of erern material．









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 and wattese close abml bathe the partswith strong Anmorater．Com the frowls antil bleciang beases，
 few drous af carfati＂acid has leen athed．It the blecting is profus，prinklofme pulverizulalum

 hidg Gurima fla winter lionn frosted conals．

## GHE 万OUSEHOLD.

## WHICH ARE THE HAPPIER

## By Alue

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## OUR HELP

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 kindly terms, her interests befoly kindly emmat ered withmat her leving taken to its immost batat. Coung homselieerers, in partionlat, berd this cation. Temothon, in ung marded moments, 1 hey talk over family matters, which shanda bes kept secret ; or make (ommonnls an associates. which work mischief emourh when rexerated by a thoughtless girl.
A gome dmerionn sirl in a homse, with whoms we can sitbly trust hae childrem, is intred at blessing in a honsehota. it is a blossing to at Working girl also to have a gend, sate home in
 thrown on the tomder morebe of at factors and fartors boartingetwome

 well appreviate her, and make har ulay pleanimi
 Wore peliteness towads larlp, would make the househohdmathinery move muth moresmonthly for all parties.

## LAYING BY IN STORE.

Dy J.E. M.C:
ABytes an the orchard mplawine ond by one

 Thonastl the divs ate so longe and the work


































 MRS. TRUMAN'S HIRED BOY.








 lianas -










Thell orilic:alls. The hit



 sadillot litiy

 lats, whlnott : dirilen torun ta."
l:abn's hatal amd blati malaseses, matam, and rollow om sumdats. We are glad when w






flowing, and if they were mot archally perishing with humatr, they were suthering great meedess

It did nut takt many minntes to pack a basket over-thowing with thongs she would never niss: but, wh, sush a harsing in that poser home
 rith it, he carriad this promosifan to his mother. that lee mbold bull גtre Truman a certan per-

 rre day
That was the way she eame to have an efficient, fitte hated lwy ahmol the hather, whoms she some-
 thels an ancthlatios ; and that was the way the





 be lives may be manst haremehing and helpful.

## RECIPES.

Pie furst.-For pios whth men cruct, take a pie
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 trathor r*ad almul torna from it-many pages.
 Homie work in woll is fiam work. It will \&ive Shl mew iduas athl men ways of domer many things. There is wothings sis welemme and ehererbue to homstranpres as a change in its momot-


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 of lathon fur. themintit the whites and sprend on


 whe tidhle -



 did the-hall mat at formi, mix weth, one cup of
 white suybr, and thre, te:aspermlits of baking


H.
 Gilt, tathoswnmful ot Nhortening, Homr to make a


 amb ume-half tilalospondols of butter with four af

 atirrine brikkly, tomake at thin erany

 Water. Huat this torether, folt on the stove and and lat boil, and then put in ralli of one poge, roll out erust, put mixture in and bake quekly. Put sugar in whites for tup.

## Gorprespondenge

## planting garden seeds


 I will try atm ant more mont, l like than jail"

 a little exproviace that I have planting -

 milk six fortes will


$\qquad$

 That mstmothotar


LIGHT ON THE INCUBATOR QUESTION


FOR ANSWER IN SEPTEMBER

## Will C . I. blate t he ('holera shoshby



## CABBAGE FLEAS

 What can we da with "abscise tats: Th er have eaten all our ratlishos, katy thatips, resit





 selvosstammer rasidanmes. Thu only thing that
 insure arron wow n be worth more than the a th-
 whether they are the real eathonad dea. 'They ate black, with tour light puts ont the hacek, and when driven fromathorants, they hop off atm turn on their backs on the groat, where they look like little black hits at dirt. Is there no


 it wascontirely covered. I first thominht for man it, hut on stoopiner to pull it "p, I found all h le plants mar it had lice on. I womb like to pepper you, I thought, and passing into the house I





Jhabomelat has the same tron the that other y



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EARLY POTATOES
艮 1 ,


-(hat we mention
TROUBLE IN THE ORCHARD










 Ind we will try to informs hin more folly. Flow te (velate leaver that mote dy ire not the dead or


## VOI.IV. INO. XII

 bret sereet, Philuhlphine. Prume. It is mule th surhseriters form the wath to the that bley of the



CONTENTS OF THIS NUMBER


## CDimorian Gomment




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 fested with the "urse, We Buath rathone (ent tha
 thlsoles come to maturlty. If thinhy wita ato th do the bintinat carly in the mannime or atter


 than porer ehower haty. Try torate it in an nim emmition an jussibla.
If sou have lion victoriour thas far in sum




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## GLIPPINGS




## WHAT IS WANTED.





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 served, shep are better that hoge for the garnuse. Is it so?

## From "Breaders' Gu: :ptt," 「 hu"wit, Itt. <br> <br> PULLING wOOL

 <br> <br> PULLING wOOL}




 he watherd, as mesh at the aninsal mease will hat


 canse

##  <br> SHEEP IN RUSSIA.

Of the 4 ronnewh or whep in Eurniman Russia, ahont one-fomithare line wool, tht temandet behng common







 ermmonts. Thane are largely of the common vardety, hough both the Angora and 'anhmere are raised in fimite id mambers

## Firome "sporte ef the Furm

## CO-OPERATION

In parts of thamser the shmphern af a white mighe
 of mattons and lants, and has woon elp by contrat, to the hishest hidner. The highest, rehable biduler in every case gets tha button This mamer of dispurime of their wosk and lambsis ons of the simplest amblatest we have ever seen. The or to me mollo the work for the entire nelghbormon. There is m waste of time in
 bhig about weights stm prices: every man is on an equal footing. The omy difference is that the man wha Has the best and heaviest lambis gets the most money because be bats the most potmals. The buyers are also put on the same fouting. They camot make a poo among themselves, and depress values to suit themselves, for the highest bid sets the sliefp, and ho one knows what this is nutil the bids are openel. Altogether this is a most advantageous arrangenent, and one that farmers in other sections would do well to cultivate."

## From "Breeders' Journat

## early lambs.

The first mutton lambs of the season are often sold for ten dinlirs a head. The expense of raising these lambs consists first, in having good mitton rams, and then care and warm quarters, with a literal feed of corn and yats, and a little cill cake will do the balituce. The ewes, kept warm aud dry, and fed well with oats, middlugg, and corn, one-third eatb by measure, will give a goodenpply of milk.
Lambs cau be tanght to drink cow's milk, and putting oat meal in it, the lanbs will grow in a surprising man ner. Young lambe, to srow fat, must be kept warm and have a dry hed. Bright clover hay for sheep is the best Lumber is chraper than it has hepn for ten years: if the country yards have not reduced their prices, they ongh o. It can oe bought hy the car loat in Chicago, for \$11, and gieen piece sluff one dollar cheaper. With thes prices, a od the present prices of oats and corn, farmers have no excuse for aot maling their lamons fit to sell at four months old. All, the feed in the world will not make early lambs fat, and worth $\$ 10$ earh, umless they are kept warm. Warm and light quarters will last years, and pay a large remrn on their cust every vin Ler. For the amount of capital invested in the sheep.
they can he malle to pay a larider redurn than any other stork, evan in these thases when wend in rhath, if nation amb butter than atisone else.

## THE PROSPECTS OF THE WOOL TRADE























## MUTTON MOOL












 This is all wall whemeth. Let wall latio his or he




 wet, butrithas matton



 awl other long-wouted sherp, some of it trery tat indepd. With all this I herom once, and I was then in delocat hutath, frat any unasea. I could quite easily digest it It was the sweptest 1 ever tasted, excepting the littl Welsith Mountain sheep. IV is is the best matton on fatth. I and fond if gotd muttod. I uften tax my judg ment and the inflimes word as to the jom heing lons Wroled shtery. Itake it home. Whe hegins the cooking I sniff and the first sniff says "sold!" Merino anaton arain, thongh perlitps only halt breel. Were it full, or Hiree-fourths, of course I could tell it in an instant withont the Heece or cooking.
I know huzens whose stomachs will not tolerate the oil of the Merino. Few can, excepting the Laplander or some horthern pioneer, whoglories in hls oil. We want the wool of the Merino-we must have it. Wil not some of onr sensible breeders of sheep see to this and instead of orerstocking the wool market, as they are and have heea doing, give us some mutton ht for fird? No Merino is fit for food-aotsis fit as the coon elc., by any nteans.

## Frem "Agriculturat Gazette," London, Eng

## WASHING SHEEP.

In the south of Scotland all the sheep, before being horn, are washed hy being made to swim two or three times across a runuing stream or pool.
Poolvashing is most general, and, all things consid ered, is perbaps the best. Sheep do not wash clean in : rumning stream. A stagnant pool is much hetter, as the volk of the wool, which consists of fatty acids combined chiefly with potash, being left in the water, acts like shap, or better than any soap, in scouring and giving a hright lustre to the wool. The pool shonld be about 25 yards long, 5 yards wite, and at least 6 feet deep at the ump. gradnally ebbing to the point where the sheep can walk ont on a well-graveled beach. In a pool of thi

Nescription tha starap can tw washetl very Math, if they








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 In than conntiy what wat conthans so lew mprice ato it

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 fholuction throurgmat the Nathom. It is hardly hecessary for mon to refer to the inportant figure sleephas. batmory makes in mecessful agriculture. The "golden hoof" of the sherp is "pheriatod and spoken of by all our enlightened and progetssive agricultural writers. Their value in a proper system of farming is tro well known for me to cwetl upon, ant as our comntry grows older, as the ferdidity of our soil hecomen watasted hy the production of thr cereal crops, their necessity for the purpose of fiving rest and restoration to our lands will berome more thal more apparent. They furnish the healthiest af anmal firod for man, their wool makes. clothing for our budies, and no stock is so valuable ja destroying thr wheds, sprouts, and underbrush of our farms, (vout faming, distant from our cities, cannot well be cartied on whthont a tluck of sheep.
It hasalsu altrady been a matter of cuasideration with one what could be done by the department to lessen the losses from commanicable diseases among sheep. sulfar the llocks of this country have been free from the trinible diseeste of the Old World known as "sheep pox, but th is a sprious question if we hhould aot impose a short quarmintme on imported sheep to secure us against the introduction ol this and other diseases. The scab of sheep, while not so previtent as in former years The consartment is also in receipt of information that the Western and particularly the South-western ranges have hecome so infested will tapeworms as to threatea the destruction of the industry in those stetions. The States on the couthern Atantie seaboard have loog bepn talked and written ahout as peculiarly suited to sheep hushandry, but in spite of the attention given to the subject, shepl, husbandry has not inereased there as we have hat reason to expect. Why is this? Mauy have gone there and attempted to go into sheep-growiog on a large sarate, but for some reasom they have given it up and failed to reathze their anticipations. The reasoa for this, I am tulel, is an mysterious disense, which almost certainy appears when sheep are kept there la focks of any considerable size. It is called rot, hut it differs from the rot of Europe in not being caused by the flukeworm in the liver The symptoms some what resemble that disease, and suggest the tbeory that it may be caused hy a soniewbat similar parasite.
 ：121．whanary turmile．

## Water ann fow Phasts

This is the time or the viar whin phats that
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which thrive in wur elimate．flamted her thexada of a rumbing stream on buar the maroin of a take








 flowering seasom，is torminallog bex a clume，folint drical spike 9 ind
 is one of the mosst strikithe of the wither－photho．

 kinds make goml water－plimito，uspubally Jris
 and llowers cithor of atioh purgle om white．The beandiful Iris Kombofri，athomorhmof of a latge size，must be included in buis list．It flompishes best in wet places，and if sumb a pondion codal be allotted to it where that watcr mow and then




 plant，J＇t if desurves to be asain bumphl inla






 It is well limovin that Niphotos is hot only fob of the best sadpel roses in both，but alse ond


 grewninh yeluw．Sus mueh depernds on site amo


 han triven in lay wenthor．in tha case of a good ation atorshmof will mully an abundance of seed

Ifring thic innl mext monalh，Palms are very Salde to burombe atlexted with rad spinter and sald，and to bervent this．they shosuld le syr



N゙o doubt fun bave a fine lost of thase popular



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 fags with mamare witur will alma be fenmd beme fleint，and ：matrbing with manure will be still better．But why talk any more abunt tbem here．
logue, (Qumens, N. Y.i. It will tell you all about lhem that is worth knowitur.

I I:心.
Now that thase gorschits flowors are alsont,




 of all. It is pericetly hatedy ind flowers in the greatust profusjon during dume and July. ly yon have had the grond luck los sew them in hlomm, you certainly will mot toratt to fhant some nex fall.

## A PIIEAP 1 NSECTICIDE.

Mealy hugs ane modoulbolly abluth the worst pest on deal with inction The diffents ingeliong rith of tham is that they do mot remfine thenaselyes to the pantat, bat also scerete themselsesi in the word and lurick-work as well as morar 1 la roots of somb of their firgorites. Hatpily the diafienlty of bealing with them has beem much redneat since eral wil has heen fond to annitailate whorever it reaches them. From the luw friad at which this can be had.
and the highay diblut shate in which it can be and the lighty diblutud shate in which it can be
 of water is the quantity rexommonderd. It should be thoroughly mixem,and apmlen with asyringe

In answer to inguiry about this flonl, we would say that it is a hatadsome hartly sherbe

tionud. These charming lilies are quite hatdy
 Thes sucted bu half-shaty blacts, in as sull com poscod of twa parts leat, whe of Joran, athel wat of




1. Sjperimann, of Lameifolimm, as it is errond sus] geallerl, is mo of the most pophlat far fout oaltare, but it is ano the less desimable for the
 cate matare. All the barieties of I. Speriontom bephire a shelterod situation, protected from winds ind dratughts, and at rich, hanay soil mixed with peat and leaf-mold. 'Thery" fown








HANDSOME HYBRID ROSES


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GROUNDS OF JAY GOULD

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The maghtiteent surw range of enomervatories
 and ybelang splemelia results. The fosuriant


 he Palm hasme he had arolleved over thre bundred merices of Jabnes, and by the use of stages
 There are iftern houses in the conservatory "ander embrating font vinerics, Peach houses Cbmelliz loouse, Rhododendron house, Frern house, Orehid house, Rome lonse , itchel phants, ringe there is a ranare of sumbler hut indisprons

 Bertoliniar, and handreds of others.

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[^0]:    

[^1]:    A very larga portion of onr subseription llst expires with Deeemher number, nod a notice is printed in this if yours is one. If ynn have sent your renfwnl since November 1.7th. yon wonld still rective the notice. In this ense pay nonftontiontoit. All onr nubwribera whose time expires in December will reecive free omr Annunl Premium lint nud number. This will be mniled you in n few dnys.

[^2]:    TO BLOOM AMARYLLIS FOR WINTER.

    ## By Anna trinisom.

    These are properly Ilippeastrum, but generally reenive the name of Amaryllis. To hloom them welt they should be potted in very rich earth
    

[^3]:    Dont ite it. Don't send your money to frauds who wonte

[^4]:     .

    READ! $\quad$ READ! READ!

    BEAD!
    READ!

[^5]:    
    3 DOZEN NEWSTRAWBERIRIES for \$1.00 Hen frnit and post paid. (earcolar atul coice framís I. बLI. LIEONA1RD. Iona,

[^6]:    ד

[^7]:    

[^8]:    
    
    
    
    

[^9]:    HOW MANY EGGS WILL A HEN LAY．

    ##   he a fact．Any oht who is labilial at all with pombry，knows that dorime the lall all hen   in at yair．Wa have des dass beth after bledueting the monlting jurime．If a hen lays，reqularly，at       have bewn kamwn tol lay as many as lan，or evo 175 tgas，in a rear，sulth eases are rame，and if on   dozen out of the nime should rialize thirty cents per dozen，three dozen sbould hrimg about twent y filtern pents dozen，and two dozen should reatiz average of about twonty－three conts．Of eourse this calculation may be wrong，but it will conve an idea of what may he expected．

[^10]:    alop large engravines ower sime，Also，all mannor

[^11]:    17 packets of aced and 60 cts. Two

[^12]:    NECESSITYFOR COMPLETE FEEDING OFTREE AND FRUIT DANGER FROM FORCING OR PARTIAL FERTILIZING - STRAWBERRIES, ETC.

