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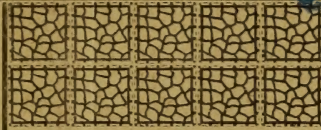
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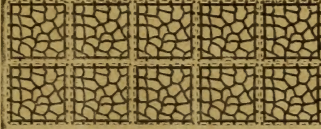
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U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.
W. W. TRACY, JR.

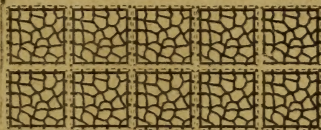
LONGSTRETH'S



All Poor Varieties are left out of this Catalog. You can pick with your eyes shut and get a good thing every time.



We Try to Please, and We Do Please, and Seldom Fail to Please.



SEED ANNUAL

— AND —

BARGAIN CATALOG.

W. B. LONGSTRETH, - Gratiot, Ohio.

W. B. LONGSTRETH,

SEEDSMAN.

Fresh and Reliable Garden and Flower Seeds

For the Farmers and Village Gardens.

Subscription Agent.

Subscriptions received at our office for over 4,000 Leading Newspapers and Magazines. I will Save you Cents and Dollars.

Job Printing,

Such as Business and Calling Cards, Note Heads, Envelopes, Shipping Tags, Statements, &c., at Reasonable Prices.

INDEPENDENT PHONE 99.

Local and Long Distance,

Gratiot, Ohio, _____ 1905.
Express Office, Zanesville, O.

DEAR FRIEND—Again I have the pleasure of calling on you. Not personally, which I very much regret, as nothing would give me more pleasure than to meet one and all of the hundreds of customers now enrolled on our order books, as well as the others to whom I mail this catalog, with the desire that every one of these will join my throng of happy, pleased customers. But this I cannot do, so come again in my annual catalog form. My catalog is small, no bulky pages—flashy and misleading, for you to pay for. No big prices charged (for perhaps greatly inferior seeds) to meet the enormous expense of business done in a city. To the many who have been duped by these gaudy catalogs, I will say, I endeavor to put the REAL value INSIDE the packets, and not on the catalog covers—serving all HONESTLY with SELECTED seeds at the lowest possible price.

Awaiting the commands of my esteemed friends and patrons, both old and new, I remain,

Yours Most Truly,

W. B. LONGSTRETH, Box 69, Gratiot, Licking Co., O.

PLEASE READ, THEN ORDER.

TERMS STRICTLY CASH. Remittances may be made at my risk by the following methods: Postoffice Money Order on Gratiot, Ohio, Express Order or Registered Letter. Postage stamps, if ones or twos, and in good condition, accepted for fractional parts of a dollar.

GUARANTEE.—While I always exercise the greatest care to have all seeds pure and reliable in every respect, and that they will grow with the proper treatment, and be as represented, in so far that if they prove otherwise I will refill the order or refund the money. The customer, however, must bear in mind that there are so many contingencies over which I have no control, that I under no circumstances whatever guarantee a crop. The safe arrival of all seeds sent by mail guaranteed.

I WOULD BE PLEASED if customers, on the arrival of their orders, would report condition of same; also your success with seed—good or bad. If you receive an extra copy of my Catalog, please present it to a friend or neighbor who is interested in planting good seed. Order early, and be sure and WRITE YOUR NAME, POSTOFFICE, COUNTY AND STATE VERY DISTINCTLY. Address all orders to

W. B. LONGSTRETH, GRATIOT, OHIO.

NOTICE.—The Garden and Flower Seeds, Roses, Clematis, Vines, &c., advertised in this Catalog are, of course, for sale in their season. The other articles mentioned can be ordered at any time of the year, and the order will receive our prompt attention.

THE FAMOUS
SOUPERT ROSE FAMILY

The Best for Pot Culture in the House. The Best for Bedding. Continually in Bloom. It makes no Difference what Season of Year it May Be, with Slight Protection will Live in the Open Ground.

1. CLOTHILDE SOUPERT.—One of the most prolific blooming roses; blooms nearly all the time, producing cluster after cluster of large, handsomely made flowers, until the bush, as it grows larger, is literally loaded down with flowers. The color is white, with center of flower a lovely, warm, pink shade. This is the rose for the millions. 14 cents each; 2 for 25 cents.

2. YELLOW SOUPERT.—While not a yellow rose, the general effect of the blending of the colors in this, is such as to make it appear as a yellow rose at a short distance. It is probably the finest Polyantha Rose yet introduced, and is a fitting companion to that popular and useful variety, Clothilde Soupert. The habit of the growth is the same, while the flowers are white at the edge and chrome yellow in the centre. It is perfectly hardy, having withstood in the open ground a temperature of ten degrees below zero. 14 cents each; 2 for 25 cents.

3. PINK SOUPERT.—A seedling from that premier bedding rose, Clothilde Soupert, inheriting all the grand garden qualities of its parent, and is a clear pink throughout, bright and attractive; the coloring deepens in some flowers to cherry red, and in others it lessens to light, clear pink. The profusion of bloom is wonderful, the whole plant being a mass of flowers. No rose can possibly excel this for outdoor bedding, and none can be more attractive. It is compact and sturdy in habit, and so hardy for an everblooming rose that it will remain out all winter safely without protection. 14 cents each; 2 for 25 cents.

4. SPECIAL OFFER.—The three charming Soupert Roses for 30 cents. Nothing finer in the rose line. The best of all bedding roses. Every one distinct in color.

The "In Remembrance Collection."

FOR CEMETERY PLANTING. The three following sorts are especially recommended for cemetery planting. They are hardy, free flowering, and need but little pruning:

5. COQUETTE DE ALPS.—Pure white, tinged with pink in the center; truly a continuous bloomer, as it is scarcely ever without flowers from early summer until cut off by frost in the fall. Flowers are good size, well formed and sweetly scented. 15 cents each.

6. COQUETTE DES BLANCHES.—A finely formed, pure white rose; occasionally shows light flesh when first opening; beautiful shell-shaped petals, evenly arranged. Flowers of good size, perfect, and of fine form and finish. One of the finest, freest, and most beautiful of the white Hybrids. Price, 15 cents each.

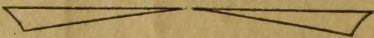
7. MME. PLANTIER.—This grand variety, when once planted, is as permanent as a Hydrangea. It is hardy as an oak, and for outdoor planting it is the best white Hybrid Perpetual. We recommend it for cemetery planting, because of its permanency. Flowers are pure white, very large and double; it is a profuse and continuous bloomer. Good white hardy roses are scarce—this is one of the very best. Should never be pruned. 15 cents each.

8. This beautiful Hardy Cemetery Collection for 30 cents.

RAMBLER ROSES.

This class of Roses is now being planted everywhere. They are strong and vigorous, perfectly hardy, and may be trained to climb anywhere.

14c. each, postpaid.



9. CRIMSON RAMBLER.

The plant is of a very vigorous growth, making shoots from eight to ten feet during the season, rendering it a charming pillar rose, and for covering buildings, trellises, etc., it cannot be excelled. One of the striking characteristics of this rose is its remarkable color, which is of the brightest crimson. The flowers are produced in great pyramidal panicles or trusses, each carrying 30 to 40 blooms. Blooms in June and continues a long time.

10. YELLOW RAMBLER (*Aglaia*)

A very hardy Yellow Climbing Rose. Unprotected plants have stood, without injury, a temperature of 10 degrees below zero, while with slight protection will do well where other roses succeed. The beautiful clear yellow flowers are borne in immense trusses, sometimes over 100 in a cluster, medium size, and last three or four weeks.

11. HELENE.

New hardy Rambler Rose. Makes a growth of 10 to 15 feet in a season. Foliage similar to Crimson Rambler, but less subject to mildew and insect attacks. For open-ground culture it has no superior, being perfectly hardy and a strong healthy grower. Its flowers are borne in large clusters, and are produced in amazing profusion. The flower is larger than Crimson Rambler, almost double, and of excellent substance, remaining in perfection on the bush for weeks. Color soft violet rose.

almost blush; base of petals yellowish white, while the anthers and pistils are pure yellow, rising boldly from the flower. The buds are carmine, finely mossed, and are borne 20 to 50 in a cluster. This magnificent rose is bound to become popular when it becomes better known.

12. WHITE RAMBLER (*Thalia*).

Of German origin, and in habit of growth, foliage, manner of blooming, form of flowers and hardiness, it is said to be identical with Crimson Rambler, of which it is a blood relative, but that the flowers are pure snow white and sweetly scented, which the flowers of Crimson Rambler are not.

13. PHILADELPHIA RAMBLER.

It blooms in grand clusters. Flowers 2 to 2½ inches across, perfectly double to the center; color pure, deep, rich crimson, far brighter and more intense than any other rose of its class. Does not fade or wash out, but holds its bright, dazzling color to the last. Has handsome foliage, does not mildew, and is an early and abundant bloomer. Unequaled for covering porches, trellises, screens, fences, etc. Perfectly hardy; needs no protection.

14. SPECIAL OFFER.

The collection of Rambler Roses as described above, postpaid, for only 50c.

Coffee for 1c. a Lb.

The new American COFFEE BERRY is better than a gold mine. Raise your own coffee at less than 1c. a lb., matures north or south in four months. Plant any time up to June 20th. Has produced 60 bushels per acre. Many prefer it to store coffee. Large packet 10c.; 3 packets for 20c. Nothing will pay as well as raising a large patch of this wonderful coffee berry; you can sell coffee to your neighbors.

W. B. LONGSTRETH, Cretiot, Ohio.

CLEMATIS---Large-Flowered Hardy.

This exceptionally fine hardy climber is so generally known and so in favor with everyone that it needs little description. These flowers, 4 to 6 inches across, cover the green foliage through the greater part of the spring and summer. A plant in full bloom is one of the most conspicuous and beautiful objects, and one that invariably attracts attention. Orders should reach us by April 15th, at latest.

15. JACKMANII.

The flowers, when fully expanded, are from four to six inches in diameter; intense violet purple, with a rich velvety appearance, distinctly veined. It flowers continuously from July until cut off by frosts. Price 20 cents each.

16. HENRYI.

A vigorous grower and a free bloomer, producing its large pure white flowers constantly during summer and early autumn. The best large-flowered variety producing pure white flowers. Price 20 cents each.

17. MADAME EDOUARD ANDRE.

Also of the Jackmanii type, and is the nearest approach to a bright red that has yet appeared. The flowers are very large, usually six petaled, of a distinct, pleasing shade of carmine, and are produced in bewildering profusion. Price 20c. each.

18. The three Large-Flowered Clematis described above for only 35c., postpaid.

NOTICE IMPORTANT.

I have made arrangements with a large and reliable rose and plant firm by which I can offer to my customers the Roses and Clematis plants which you will find listed in my Catalog. Understand, I do NOT carry these roses or plants in stock myself; you will receive them from the firm, under my name, guaranteed to reach their destination in growing condition. All orders for same during the Winter or early Spring will be booked and ordered by me to be sent to you in due season, which, of course, will be when the weather is settled so that the plants can be set in open ground. The seed I have in stock, and I will send by return mail.

Address W. B. LONGSTRETH, Gratiot, Ohio.

Specialties in Vegetable and Flower Seeds.

Order Either by Number or Name.

19. BEAN—Burpee's Bush Lima.

Burpee's Bush Lima comes absolutely true from seed. The bushes grow eighteen to twenty inches high, of stout growth, and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush from two to three feet in diameter. It is an immense yielder, the handsome large pods being well filled with very large beans, identical in size and luscious flavor with the well-known large Pole Limas. Pkt. 10c.; $\frac{1}{2}$ pt. 15c.; pt. 25c.

20. The Wonder of the 20th Century.

A New Late Cabbage—Worm-Proof Hardiana.

"Our attention was first attracted to this cabbage in Dock Street Market, Philadelphia, two years ago on account of its quick sale and handsome appearance, the leaves being entirely free from worm-holes, while all other varieties were more or less eaten by the worms. On close examination we found a slight coating or enameling completely covering the leaves, making it impervious to the worms, and without affecting its fine quality. We found the variety was controlled by a few Atlantic County, New Jersey, growers, who readily sold the seed to their near neighbors at \$3.00 to \$5.00 per ounce, and it was only after great persuasion and at high cost we were able to get enough to grow our present supply. The heads are very hard and solid, of good size, often showing a slight purplish tinge on top, and as a winter keeper there is nothing superior."

The above description is taken from the catalogue of the firm who introduced this cabbage in 1904. After a careful trial on my own grounds, I can truly recommend it, as an A No. 1 cabbage in every respect. Although it did not prove to be absolutely worm-proof, yet it was much freer from the attack of the worms than any other variety. Don't fail to give it a trial. Packet 15c.

21. SPECIAL OFFER—For 20c. I will send one packet each of the choice vegetable seed described above.

22. STAR FLOWER.

A grand novelty. As a stately and showy bedding plant nothing of recent introduction surpasses the Star Flower. It was discovered in the wilds of Argentine, a few years ago. The plant is a wonder, and makes a gorgeous bed throughout the season. The flowers are borne in great profusion on immense trusses, and are a beautiful creamy white in color, and are deliciously fragrant. Packet 10c.

SWEET PEAS.

23. Emblem Red.

Pkt. 5c.; oz. 10c.

24. Emblem White.

Pkt. 5c.; oz. 10c.

25. Emblem Blue.

Pkt. 5c.; oz. 10c.

Every patriotic American who loves flowers will take special pride and delight in watching the brilliant colors of "Old Glory" display themselves side by side in the blossoms of that favorite American flower—the Sweet Pea. This National Emblem Collection is strikingly effective, as well as a source of continued inspiration and enjoyment, to which the fragrance as well as the grace and beauty of the flowers contribute greatly. It is necessary to see this "National Emblem" collection growing together, showing its brilliant reds, pure whites, and rich blues in vivid American Flag contrasts, in order to appreciate its beauty and effectiveness.

26. To induce all my customers and friends to try our "National Emblem" collection of Sweet Peas, I will give a full size packet Emblem Red, White and Blue, one of each, for only 10c. One ounce of each variety only 20c.

27. SPECIAL OFFER.—For 15c. I will send a packet of the Star Flower and one packet of the three varieties of Sweet Peas.

LONGSTRETH'S

Standard Garden Seeds.

BEANS—Dwarf or Bush.

Plant after danger of frost is past in drills 18 inches apart and 4 inches apart in the drill, in most any good garden soil, except a cold, wet one. Do not hoe or cultivate when wet with dew or rain.

28. LIGHTNING EARLY RED VALENTINE—Is just what its name indicates. It is the earliest kidney-shaped bean in the world. The most profitable variety for market. For a green podded snap bean there is no variety its equal. The vines are erect, bearing an abundance of pods of medium size, and when young they are entirely stringless. Among the green podded sorts none can be compared with our stock of Lightning Valentine. Sure to give satisfaction. Packet 5c.; $\frac{1}{2}$ pint, 10c.; pint, 18c.; quart, 35c.

29. YELLOW KIDNEY, or Six Weeks. Vines large and very productive; nearly as early as the Lightning Valentine. Pods green, and always thick and meaty. Adapted to any soil and weather. The beans, when dry, are kidney-shaped, and in color are a yellowish drab. Pkt. 5c.; $\frac{1}{2}$ pt. 10c.; pt. 18c.; qt. 35c.

30. DAVIS KIDNEY WAX.—Having many calls for a wax bean, I selected the Davis Kidney Wax, and recommend it to my customers as the most productive wax bean in cultivation. The pods are long, straight, of clear waxy white color, and quite stringless. The beans are pure white, kidney-shaped, exceedingly crisp and tender, and will produce one-third more beans to the same amount of ground than any other wax bean. Packet 5c.; $\frac{1}{2}$ pint 10c.; pint 18c.

BEANS—Pole or Running.

Plant in hills 3 to 4 feet apart and 2 inches deep, and about six beans to a hill; when well established thin to 4 plants to the hill.

31. KING OF THE GARDEN LIMA.—Finest stock for market gardeners. A vigorous grower, requiring but two vines to each pole. When not closely planted they set their pods early, at the bottom of the pole, producing a continuous bloom and fruitage to the end of the season. The pods are of enormous size, many specimen measuring from 5 to 8 inches, and producing up to 7 beans to the pod, all perfectly formed and of superior quality. Pkt. 10c.; $\frac{1}{2}$ pt. 15c.; pt. 25c.

32. OLD HOMESTEAD—Very early and enormously productive, the long green pods hanging in clusters from top to bottom of pole entirely stringless. Pods of a silvery green color. The pods, though large, cook tender and melting. Pkt. 6c.; $\frac{1}{2}$ pint 10c.; pint 18c.

Practical Poultry Keeper.

A very valuable and useful book, for those who keep a few chickens especially, and it is worth at least one dollar to any farmer's wife or daughter who raises a few chickens, as it tells just how you can make the poultry yard the most valuable feature of the farm, as well as how to treat all diseases of poultry. In fact, it gives information on almost any subject pertaining to poultry in a way that you will understand. Handsomely illustrated. Paper cover. Price, only 10c.

W. B. Longstreth, Gratiot, Ohio.

THE BEST BEETS.

Sow as early in the spring as the ground can be worked, in light, well manured soil, in drills 12 inches apart and 1 inch deep. Thin to four inches apart. For winter use sow in June.

33. COLUMBIA.—This distinct new beet is early, of finest quality and great uniformity, both in roots and neat, handsome foliage, being of turnip shape, with smooth, clear skin and deep blood-red flesh of extra fine quality. Packet 5c.

34. EARLY BLOOD TURNIP.—The standard early variety; blood-red; turnip-shaped, with small top and tap root, smooth, very tender, and good for early use, and if planted later it will make an excellent beet for winter use. Packet 5c; oz. 7c; $\frac{1}{4}$ lb. 15c.

CABBAGE.



For the very early crop sow in the hot-bed in March. For the main crop sow in open ground the latter part of May, and when two or three inches high transplant into rows 2 to 2 $\frac{1}{2}$ feet apart each way, allowing more room for the large growing sorts.

35. EARLY JERSEY WAKEFIELD.—Undoubtedly among the best, if not the best, early cabbage in the world. It is always of good size, very early and solid, and has but few outside leaves. A reliable header and sure to give satisfaction. Pkt. 5c; oz. 15c.

36. LATE FLAT DUTCH.—An excellent winter variety, producing large, flat, round heads, very solid. The quality is very fine and the flavor excellent. Pkt. 5c; oz. 15c.

CELERY.

Sow early in April. Transplant about the first of June, in rows three feet apart and the plants six inches in the row. Trim the plants two or three times when small to promote silky growth. As fall approaches draw earth up to the plants, keeping the stalks well together.



37. WHITE PLUME.—Stalk, inner leaves and heart are white, so that tying up or simply drawing up the soil completes the work of blanching. Equal to the very best sorts—early, handsome, easily grown, profitable for early market. Pkt. 5c.

38. GIANT PASCAL—Best for winter use. The stalks are remarkably large, thick, solid, and entirely stringless; it is the largest grown. Very crisp and brittle, snapping like glass. It never becomes watery. Pkt. 5c.

SWEET CORN.

Plant when the ground becomes thoroughly warm, in hills 3 feet apart each way. For a succession continue to plant about every 2 weeks until the last of July.

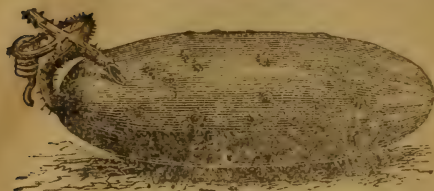
39. MAMMOTH WHITE CORY—The ears are fully twice the size of the old Cory, white cobbled, and covered with very large, white grains of good quality. The gardener who wishes to get the cream of the trade should make his plantings of this splendid novelty. Extra early. Pkt. 5c; $\frac{1}{2}$ pint 8c; pint 15c.

40. STOWELL'S EVERGREEN—Medium late, hardy and productive, very tender and sugary, remaining a long time fit for table use. Pkt. 5c; $\frac{1}{2}$ pt. 8c; pt. 15c.

ECLIPSE SHEET BLUING.—Can't spill; no streaks; package does 24 washings. 10c. W. B. Longstreth, Gratiot, O.

CUCUMBERS.

For very early cucumbers the seed can be planted in a piece of inverted sod in the hot bed or in the house, and transplanted, sod and all, into open ground when danger of frost is past. For the main crop plant in open ground after danger of frost, in hills four feet apart each way, and cover the seed with about one inch of soil.



41. **WHITE SPINE** or **ARLINGTON**—One of the most popular varieties both for marketing and table use. Vines vigorous, fruiting early and abundantly; straight and handsome; light green, with a few white spines; flesh crisp and of a delicious flavor. It is one of the best for slicing. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

42. **EARLY GREEN CLUSTER**—A short, prickly, seedy variety, bearing in clusters near the root; color pale green. It is a great bearer and matures early. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

43. **IMPROVED LONG GREEN**—A distinct variety; when full grown sometimes measuring nearly eighteen inches in length; form long and slender, with but few seeds; flesh remarkably firm and crispy, a standard variety for pickling, very productive, and better than most varieties of Long Green. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

44. **WHITE SNOW**—Undoubtedly the handsomest White Cucumber in the world. The vines are quite vigorous in growth, bearing an immense yield of beautiful cucumbers, which are of large size, and always of a pure waxen white color, and extremely attractive. The flesh is solid, pure white, exceedingly crisp and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

First-Class Writing Pens.

You can bend the pen in any way you choose, and bring it back to its original shape. It is a pen that will adapt itself to any kind of handwriting. One dozen, by mail, 5c. W. B. LONGSTRETH, Gratiot, Ohio.

LETTUCE.

Lettuce delights in a rich, mild soil. Sow as early as the ground can be worked, in drills about one foot apart, and every two weeks for a succession. When well up thin to six or eight inches apart, so the plants can form heads.

45. **CALIFORNIA CREAM BUTTER**.—A grand, good butter lettuce. The heads are of good size, round and solid, outside medium green, within the leaves are a rich cream-yellow color; rich and buttery in taste. Pkt. 5c; oz. 12c.

46. **LONGSTRETH'S PRIZE HEAD**.—This is one of the finest head lettuce in cultivation. Heads large, solid, tender, blanching perfectly; oily and buttery in texture, and delicious in flavor. Packet 5c; oz. 12c; $\frac{1}{4}$ lb. 40c.

47. **IMPROVED HANSON**.—A popular lettuce of hard heading stock. Heads green outside and white within; is sweet, crisp and tender, even to the outer leaves. Pkt. 5c; oz. 12c.

48. **GRAND RAPIDS**.—In addition to its desirable forcing qualities, it is excellent for early spring sowing in open ground. Of superior quality and beautiful appearance, it is a strong grower, very free from rot, and keeps crisp and tender without wilting, when exposed for sale, longer than any other forcing lettuce. Pkt. 5c; oz. 12c; $\frac{1}{4}$ lb. 40c.

MUSK MELON.

Select a light, sandy, rich soil, and after all danger of frost is past, plant in hills four to six feet apart each way, six to twelve seeds to the hill. When danger of insects is over thin to about three plants to a hill.

49. **ROCKY FORD**.—This delicious melon has made a great reputation for high quality. The melons are of just the right size for table use, slightly oval in shape. The flesh is thick, of a light green color, and of a fine, juicy, luscious flavor. It is very early and wonderfully productive. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c.

100 Fine Visiting Cards, with your name and address neatly printed thereon, postpaid, for 35c.

W. B. LONGSTRETH, Gratiot, O.

WATER MELON.

Plant and cultivate the same as Musk Melons, except the hills should be about eight feet apart each way.

50. **DARK ICEING.**—Round form, white-seeded, and can scarcely be praised too highly for solidity, thin rind, and rich, luscious, sugary flavor; fruit large, nearly round, dark green, distinctly mottled, flesh very rich and bright red. Abundant juice of rich deep color, flowing so freely as to be available as a drink. Packet 5c; oz. 8c; $\frac{1}{4}$ lb. 20c.

ONIONS.

The onion requires a clean and very rich soil. Use well rotted manure freely, thoroughly mixing it with the soil. Sow as early as possible, in drills one foot apart and $\frac{1}{4}$ inch deep. Thin out early, and keep the soil mellow and free from weeds. One ounce will sow 150 feet in drills. For sets sow very thick.

51. **OHIO GLOBE DANVERS.**—The finest shaped, best and largest cropper of any Yellow Onion in the world. The bulbs are large, globe-shaped, with very small necks, of a rich orange yellow color, enormous yielder and a splendid keeper. I would say to my friends that if you want a choice strain of Yellow Globe Onions, this is the variety you want. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c.

52. **LARGE RED WETHERSFIELD.**—The most popular red onion grown. Fine form, skin purplish red, flesh white; immensely productive; excellent keeper. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c.

ONION SETS.

53. To have green onions much earlier than they can be grown from the seed, it is necessary to put out a bed of onion sets, and to every person who is fond of green onions who are unable to get the sets nearer home I will send them by mail at the following prices: $\frac{1}{2}$ pint 8c; pint 15c; quart 25c. If ordered by express with other goods, at your expense, qt. 15c.

25 N I E VISITING CARDS, 10 cents
silv. r. W. B. LONGSTRETH,
Gratiot, Ohio.

PARSNIP.

Sow as early in the spring as the ground can be worked, in rich soil, in drills fifteen inches apart; thin to five to seven inches in the row.

54. **HOLLOW CROWN.**—The best variety for general use; roots white, smooth and sugary; of excellent flavor. Pkt. 3c; two pkts. 5c; oz. 8c.

PEAS.

Peas require a light and rather rich soil. For the first crop plant as early as possible, and at intervals of about every two weeks for succession. Sow in double rows (about one foot apart), two inches deep. All peas will yield much better if some support, such as brush, wire, etc., is used.

55. **EARLY ALASKA, or EARLIEST OF ALL.**—The earliest real good pea in the world. Away ahead of many so-called early peas, and ten per cent. more productive, and is generally fit for use in 35 to 40 days from planting. Vines about 2 $\frac{1}{2}$ feet high, loaded with large, dark green pods, well filled with smooth, dark green peas, of most superior flavor, sweet and luscious. It is so uniform in ripening that nearly the whole crop can be picked at the first picking. Its three great points are extreme earliness, great productiveness, and excellent quality. It is the pea for the market gardener: It is the pea for the home garden. Pkt. 5c; $\frac{1}{2}$ pt. 10c; pt. 18c; qt. 32c.

56. **AMERICAN WONDER.**—Dwarf but robust habit, growing only 10 to 12 inches high, and producing an abundance of large, well filled pods, each containing five or six peas of fine flavor and most excellent quality. This is the best dwarf wrinkled variety known that requires no brush. Pkt. 5c.; $\frac{1}{2}$ pt. 10c.; pt. 20c.; qt. 35c.

57. **CHAMPION OF ENGLAND.**—Undoubtedly one of the best peas grown, and very popular. It is very productive, and the peas are of a delicious flavor. In long years of introduction, nothing better in quality has ever been produced. Height four to five feet. Packet 5c; 1-2 pint 10c; pint 18c; quart 35c.

PEPPER.

Sow in hot bed in March, or in open ground when the weather has become warm. Transplant when three inches high in rows two feet apart and fifteen inches apart in the row. Set the plants in rich, warm, mellow soil.

58. **LARGE BELL, or BULL NOSE.**—Of large size; very early; of sweet, mild flavor; glossy red; rind thick and fleshy. Packet 5c.

59. **SWEET MOUNTAIN.**—Similar in shape to the Large Bell, but of much larger size; rind thick, fleshy and tender; much used for pickling, stuffed like Mangoes. Packet 5c.

60. **LONG RED CAYENNE.**—From 3 to 4 inches long, of a bright red color, very productive, hot and pungent, the best for seasoning pickles. Packet 5c.

RADISH.

Radishes must grow quickly to be crisp and tender. Select a warm, sandy, rich, mellow soil. Use plenty of well-rotted manure. A liberal dressing of coarse salt will make the roots more brittle and keep them free from worms.

61. **EARLY RED BIRD.**—The quickest of all Red Radishes. Quick growth is one of the main essentials for a crisp and tender radish. This matures in 20 days after sowing, which makes it one of the most valuable sorts for forcing or out-door culture. The flesh is pure white, crisp and of very pleasant flavor; the skin is a most attractive bright scarlet. The leaves are very short, which admits of very close sowing. Pkt. 5c; oz. 8c; $\frac{1}{4}$ lb. 20c.

62. **CINCINNATI MARKET.**—This new radish originated near Cincinnati, Ohio, and was first offered to the trade in 1895. Since that time it has become immensely popular. The tops are very small and the fruit perfectly straight and smooth, and grows six to seven inches long. Their attractive, glossy, scarlet colored skin is very thin, and the flesh crisp, tender and brittle. Without doubt it is the finest long radish grown. Pkt. 5c; oz. 8c; $\frac{1}{4}$ lb. 20c.



French Breakfast.

63. **FRENCH BREAKFAST.**—An old standard variety, of quick growth, crisp and tender. Pkt. 5c; oz. 7c; $\frac{1}{4}$ lb. 18c.

SALSIFY or VEGETABLE OYSTER

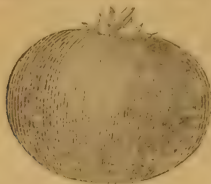
A delicious vegetable, either stewed, broiled or fried. The soup has the flavor of the oyster, for which it is an excellent substitute. No family should fail to plant it. Can be used from October to the following spring, but is much benefited by at least one or two hard freezes.

64. **MAMMOTH SANDWICH ISLAND.**—A new and improved variety, producing roots nearly twice as large as the older sorts; pure white, tender and delicious. Packet 5c.

LONGSTRETH'S SELECT TOMATOES

Sow in hot bed or in a box in the house rather early, and when the plants are about two inches high transplant in other boxes or small pots (if too early to set in open ground). When danger of frost is past, transplant carefully, setting the plants from three to four feet apart each way. Cultivate frequently when the plants are small.

65. **ADVANCE, OR EARLIEST OF ALL.**—We do not claim that this is the largest tomato, but we do claim it is the earliest perfectly smooth good tomato. It ripens all over evenly and perfectly; very smooth, not ribbed or rough; an excellent keeper, and a good shipper. Be sure to include it in your order. Pkt. 5c; oz. 20c.



Buckeye State.

66. **BUCKEYE STATE**.—Claimed by the introducers to be the heaviest cropper known. The fruits grow in clusters of from four to ten. Color glossy, dark crimson, with a slight tinge of purple. Shape very thick from blossom end to stem end. Season medium to late. Fruit large and of good quality. Pkt. 5c; oz. 20c.

67. **LIVINGSTON'S FAVORITE**.—One of the largest, perfectly smooth tomatoes in cultivation. Ripens early and evenly; dark red in color; vines very vigorous and immensely productive. Pkt. 5c; oz. 16c.

TURNIP.

For early use sow as early as the ground can be worked, in drills 1 foot apart, 1

inch deep, and thin to 6 inches apart in the row. For the main crop sow broadcast in the latter part of July or August; just before a shower, if possible. The soil should be rich and mellow, and kept free from weeds.

68. **PURPLE TOP WHITE GLOBE**.—One of the best varieties grown for general use. Very productive, large size, globe shape bulbs, with red or purple top, flesh pure white, crisp and tender. Pkt. 5c; oz. 7c; $\frac{1}{2}$ lb. 15c.

POTATO.

69. **EARLY MICHIGAN**.—The earliest and heaviest yielding potato grown. It is enormously productive, frequently yielding 650 bushels per acre. Tubers oblong in shape; flesh snow-white and unsurpassed for table use, whether boiled or baked. I do not know of any other potato that approaches its delicate flavor. Matures in six weeks with ordinary cultivation. One pound by mail 18c; 3 pounds 42c. By express or freight, not prepaid, pound 10c; $\frac{1}{2}$ peck 20c; peck 35c.



I Love Flowers: Don't You?

FLORAL DEPART- MENT.

The pleasure resulting from the cultivation of a few flowers will amply repay for time and labor spent.

SELECT LIST OF CHOICE FLOWER SEEDS.

My flower seeds are as good as any that can be procured of any reliable seedsman. I am satisfied that my customers will find that the following list can be relied upon, and are sure to give satisfaction if properly cared for. Yet I cannot be responsible for their growing, as there are so many ways in which good seed can be destroyed; such as cold wet weather, hot dry

weather, or very fine seed that should be sown on the finest of ground and scarcely covered at all are buried under an inch of heavy clods, and of course it is impossible for them to grow under such conditions. The soil adapted to flowering plants is generally a light, moderately rich loam, containing a sufficient amount of sand to make it friable.

While some seed need special treatment, the following general rules will apply to all: Make the surface as fine and smooth as possible: do not plant any seeds when the ground is wet: cover each lot of seeds to a uniform depth, which should never be more than three or four times the diameter of the seed: press the soil firmly over the seeds, plant in rows so that the young plants can be easily seen, and pull up all weeds as soon as they appear.

NOTE.—Annuals bloom the first year from seed and then perish. Perennials generally do not bloom till the second year, and then live and bloom for a number of years. H. A. stands for Hardy Annual. H. H. A., Half Hardy Annual. H. P., Hardy Perennial. H. H. P., Half Hardy Perennial. "One foot," "two feet," etc., designates about the height the plant grows.

70. ASTER OR FALL ROSE, H. A.—16 inches. This beautiful flower is being constantly improved, and is now one of the most desirable of our garden beauties. As a bedder it is beyond description: indispensable for cut flowers. W. B. L. Mixed. Packet 5c.

71. BALSAM, or Touch-Me-Not, H. A.—Two feet. This is truly a wonderful pretty summer flower, producing masses of the most exquisite, lovely, brilliant colored flowers in great profusion. They prefer a rich, sandy soil, and must be well watered, and are much improved by transplanting two or three times. "Imperial Mixed." Packet 5c.

72. CALENDULA, "Meteor," H. A.—A very free-flowering plant, flowers light golden yellow. Grows freely in almost any soil. One foot. Packet 3c.

73. CANDYTUFT, H. A.—One foot. Select Mixed. One of the most useful and ornamental border flowers grown, the entire plant being completely covered with the most delightful bloom almost the entire summer; indispensable for cut flowers; very easy to cultivate; sure to please every lover of flowers. Packet 4c.

74. CANDYTUFT, Giant Empress.—Sow the seed where the plants are to bloom as early as the ground can be worked; thin to six inches. This is one of the most showy and beautiful flowers grown. The great spikes of snowy-white blooms begin to show in June, and the bed soon becomes a brilliant mass of pure snow-white bloom. Packet 4c.

75. CASTOR BEAN, H. H. A.—Eight to fifteen feet. Mixed varieties. A tall, majestic plant for lawns, with very large, ornamental leaves. Packet 4c.

76. CHRYSANTHEMUM, Fine Mixed, H. A.—Entirely distinct from the autumn varieties, blooming all summer, and making a gorgeous display in the flower garden. Packet 3c.

77. COLUMBINE, H. P.—Easily cultivated, and when once established will furnish a magnificent display of flowers every spring. Packet 3c.

78. CLEOME PUNGENS, or Giant Spider Plant, H. A.—Four to five feet. A very strong-growing plant: unaffected by wind and weather, and flowering profusely for months: in fact it is a Perpetual Bloomer. The flowers are borne on immense spikes, often a foot or more in length, and are of a very showy, bright rose color. Packet 4c.

79. EVERLASTING FLOWER, Acroclinium, H. A.—Probably the most beautiful everlasting flower known. Flowers pure pearly white, and are very hardy, blooming until late in autumn. An easy plant to grow. They last for years, and will never fade. Unsurpassed for winter decorations. Cut and dry when in bud and blossom, with the heads downward, to keep the stems straight. Pkt. 5c.

80. JOB'S TEARS, H. A.—Three feet. A curious ornamental grass, with broad, corn-like leaves, and seeds of a light slate color. Packet 3c.

81. LARKSPUR, H. A.—Two feet. Plants of great beauty, with a profusion of bloom. Packet 3c.

82. MARIGOLD, African Double, H. A.—Three feet. Superb plant, elegant and graceful, foliage very pretty; every plant is covered with magnificent double flowers of beautiful, rich, dark or light yellow color. I had many specimens last summer more than 3 inches in diameter. Pkt 3c.



MIGNONETTE.

83. MIGNONETTE, H. A.—One foot. This deliciously fragrant annual is a favorite with all. It does best in a cool situation. Sweet Scented. Packet 5c.

84. NASTURTIUM, Dwarf Chameleon—One foot. Very useful for bedding. A few Dwarf Nasturtiums in the yard makes it exceedingly brilliant and attractive, and they are in bloom the entire season. They form a neat, compact bush that is covered with beautiful flowers of many lovely colors. Packet 5c.



85. PANSY, H. P.—The Pansy is the most popular of all perennials. It is everywhere popular for its brilliant beauty of flowers and prolonged period of blooming. The smallest yard must have its Pansies. We all treasure it as the symbol of modest worth and true affection. Sow early in a cool situation, shaded from the hot afternoon sun. Longstreth's Choice Mixed. Packet 10c.

86. PHLOX DRUMONDI, H. A.—One foot. For great variety and brilliancy of colors, duration of bloom, value of cut flowers and easy culture nothing can compare with the Phlox. Packet 5c.

87. PINK or DIANTHUS, H. A.—Ten inches. One of the most beautiful and satisfactory flowers grown. There are few flowers that have a greater abundance of the most exquisite lovely bloom than the Pink. Packet 5c.

88. POPPY, Longstreth's Mixed, H. A.—Two feet. Very pretty plants; flowers large and beautiful; will grow in any garden soil, flowering in great profusion all summer, if the seed is sown early in the spring; don't transplant, as they will die nearly every time. Packet 2c.

89. SUNFLOWER, H. A.—Five feet. An exceeding double variety of this well-known plant. The flowers are produced at the base of each leaf, which makes the whole plant most picturesque and highly ornamental. Packet 3c.

90. SWEET WILLIAM, H. P.—A great favorite, producing flowers in great abundance, in many brilliant colors. Packet 3c.

91. VERBENA, Odorata, H. H. A.—One foot. This lovely Verbena is hardy. The blossoms instead of being in clusters, like other varieties, run up into long spikes three or four inches long. They are pure white, sweet scented, and the plants are a perfect mass of bloom all summer. Packet 5c.

92. WILD FLOWER GARDEN.—This mixture of flower seeds contains a select lot of beautiful, easily grown flowers, that will produce an abundance and a varied multitude of bloom. In no other manner can so many different varieties be obtained at so small a cost. Packet 5c.

93. ZINNIA, H. A.—Two feet. No flowers are more easily grown from seed; sown in the open ground; bloom in great profusion throughout the entire summer; flowers are splendid, brilliant colored and very double, rivaling the dahlias in beauty and form. Packet 5c.

Horse and Cattle Doctor.

Many a valuable horse or cow has been lost because the owner had no knowledge of the many diseases to which these valuable animals are subject. Such would not have occurred if the owner had had this little book, which is worth its weight in gold to any man or woman who owns a horse or cow. It is bound in attractive paper covers. Only 10c. by mail.

W. B. LONGSTRETH, Gratiot, O.

If you want any Agricultural, Horticultural or Gardening Book, write for my price on same. In many cases I can furnish the book at less than publisher's price.

W. B. LONGSTRETH, Gratiot, O.

Longstreth's Select List

OF

ANNUAL CLIMBERS

The Humblest Cottage Can Be Made Beautiful with Vines.

Climbing Vines are useful for covering Verandahs, Stumps, Trees, Fences, Unsightly Buildings, Rocks, Walls, etc.



94. BALLOON VINE, H. H. A.—Six to ten feet. A rapid and graceful climber, with beautiful white flowers. Pkt. 5c.

95. BALSAM APPLE.—Rapid growing climber, with very beautiful fruits of a rich golden yellow color, which, when ripe, open, disclosing the seeds encased in a carmine covering. The fruits, bottled in alcohol, make a most useful liniment.—Packet 5c.

96. CYPRESS VINE, T. A.—Fifteen feet. A most beautiful climber, with dark green foliage and an abundance of star-shaped rose, white and scarlet flowers.—Packet 3c.

97. WILD CUCUMBER, T. A.—Thirty to thirty-five feet. The most rapid-climbing vine I offer. It will grow thirty feet or more in one season. Unsurpassed for covering verandahs, arbors, etc. The vines are thickly dotted with pretty white fragrant flowers, followed by an abundance of ornamental seed pods. Pkt. 5c.

98. GOURDS, Longstreth's Ornamental, T. A.—Twenty to thirty feet. A rapid-growing vine, with ornamental foliage,

and bearing fruit of the most varied and fantastic forms. Pkt. 4c.

99. MORNING GLORY, Imperial Japanese, H. A.—Ten feet. Gigantic flowers, that measure from 4 to 6 inches across, and they will remain open much longer than ordinary Morning Glories. The flowers are borne by the hundreds, and in an endless range of the most beautiful new colors, blended together in a most enchanting way. Pkt. 5c.

100. NASTURTIUM, Longstreth's Sunlight, H. H. A.—Eight to ten feet. This grand variety bears flowers of largest size and are most beautifully colored—clear, rich golden yellow. Individual flowers measure nearly 3 inches across, and are produced so profusely as to almost conceal the large, dark green foliage. Pkt. 5c.

101. WISTERIA, H. P. (Chinese).—One of the most popular of our hardy climbers; in established plants the vines are often 50 feet or more in length. Flowers early in the spring, in long, drooping clusters, often a foot or more in length, of a light blue color. Pkt. 5c.

W. B. LONGSTRETH, Seedsman, Gratiot, O.



Sweet Peas, H. A.

Three to Four Feet.

Every One who Cultivates Flowers Should Plant Sweet Peas—the Favorite Fragrant Flower.

CULTURE.—Sow seed quite early, in rather rich soil, in trenches about six inches deep, so arranged that no water can stand in it, cover two inches at time of sowing, and when plants are five inches high fill up the trench. As fast as the flowers begin to fade they should be cut, for, if the plants are allowed to form seed pods, they will soon stop blooming.

102. **BLANCH FERRY.**—Dwarf habit, producing a great abundance of bloom earlier than any other variety. Flowers exceedingly pretty and sweet, wings nearly white, standards bright pink. Packet 4c; oz. 7c; $\frac{1}{4}$ lb. 20c.

103. **BLACK KNIGHT.**—Flowers of large size and fine form; standard a rich wine brown or claret; wings heavily shaded with brownish purple, turning almost black when fully opened. Pkt. 4c; oz. 8c; $\frac{1}{4}$ lb. 20c.

104. **STELLA MORSE.**—This is unquestionably one of the loveliest of all Sweet Peas. The flowers are of largest size, faultless form, grow on long stems, with three or four flowers to the stem. Color a lovely shade of deep cream which, as the flowers grow older, turns into the most delicate primrose with a faint rose-pink. Pkt. 4c; oz. 7c; $\frac{1}{4}$ lb. 20c.

105. **CHOICE MIXED.**—I assure my customers the mixed Sweet Pea seed which I offer is the result of great care in breeding and selecting, and as fine flowers are obtained from it as from any seed that can be bought. I invite comparison of my mixture with any and all others, no matter under what name or at how high a price offered, and am certain a trial will demonstrate its superiority. Packet 5c; oz. 10c; $\frac{1}{4}$ lb. 20c.

106. To induce my customers and friends to try my choice collection of Sweet Peas, I will send a full size packet of each of the above varieties, and a packet of each variety described in the National Emblem Collection on another page, seven packets in all, worth 32 cents, to any address for only 15c., postpaid.

Longstreth's Seeds Grow.

107.

The Practical Guide to Floriculture

This book was written by Eben E. Rexford, one of the best informed writers upon all matters pertaining to floriculture in America, and is a complete practical guide to the culture of flowers and plants. Every lady who loves flowers should possess a copy of it.

Among the many things it treats on are How to Have a Good Flower Garden; The Best Annuals; Summer Blooming Bulbs; The Culture of Outdoor Bulbs; Flowers for Cutting; Vines; The Propagation of Plants; Soil for House Plants, Potting, &c.; Plant Enemies; The Care of House Plants; Bulbs for Winter Blooming, etc.

This book is of untold value to anyone

who is at all interested in the culture of flowers. It is handsomely illustrated, and is bound in attractive paper covers.

Price, only 10c.

W. B. LONGSTRETH, Gratiot, O.

Everlasting Fence Posts.

Process to preserve all kinds of timber. Any kind of timber will last a lifetime. This receipt is worth ten dollars to any farmer, and will be sent for 25c.

W. B. LONGSTRETH, Gratiot, O.

To all who send me 12 Lion Heads or Arbuckle Coffee signatures, I will send a valuable 64-page book free.

W. B. LONGSTRETH, Gratiot, O.

LONGSTRETH'S

Select Garden and Flower Seed Collections.

**The Most Astounding Offers Ever Made by
any Seed Firm.**

COLLECTION No. 1—Flower Seeds Only.

Ten full size packets of choice Flower Seeds that will bloom this summer or fall. One packet each of Aster, Calendula, Candytuft, Cleome Pungens, Mignonette, Nasturtium—Dwarf, Nasturtium—Climbing, Phlox, Sweet Pea and Zinnia. Catalog price 45c. Special price only 20c., postpaid.

COLLECTION No. 2—Vegetable Seeds Only.

Eight full size packets of choice Garden Seeds worth 40c., sent postpaid for only 25c. One packet each of Cabbage, Early Jersey Wakefield; Celery, Giant Pascal; Cucumber, Long Green; Lettuce, California Cream Butter; Musk Melon, Rocky Ford; Water Melon, Dark Iceing; Onion, Ohio Globe Danvers; Tomato, Buckeye State.

COLLECTION No. 3—Flower & Garden Seeds

Contains the ten packets of flower seed in Collection No. 1 and the eight packets of garden seed in Collection No. 2, eighteen packets of the best seeds, worth 85c., for only 40c., postpaid.



DISCOUNTS.

For 25c. select 30c.; for 50c. select 65c.; for 75c. select 95c.; for \$1.00 select \$1.50 of seeds in packets only at catalog price.

16 Our Seeds are as Good as the Best and Better than the Rest.

RELIGIOUS PICTURES

Christ Blessing Little Children,
Martin Luther's Life,
The Guardian Angel,
Christ on the Mount of Olives,
Rock of Ages,
The Holy Family,
The Last Supper,
Holy Heart of Jesus,
Holy Heart of Mary,
St. Ceelia,
Pope Leo XIII.

These are well-known subjects, already hanging in many homes, and endorsed by the highest ecclesiastical authority. Printed in many colors. The ordinary size, 16x20 inches. Worth in art stores 50c. to \$1.00 each. My price 25c., postpaid; 3 for 50c. W. B. Longstreth, Gratiot, O.

Beautiful Colored Yard Pictures.

The immense success of the famous "Yard Pictures" is known in thousands of homes. Each picture is lithographed in many beautiful colors, on extra heavy paper; size 10x36 inches. I can furnish the following subjects at 20c. each, postpaid; two or more for 15c. each:

A Yard of Pansies, ▲ Yard of Chickens,
A Yard of Roses, ▲ Yard of Kittens,
A Yard of Violets, ▲ Y'd of Sweet Peas.

Address W. B. Longstreth, Gratiot, O.

ANGEL'S WHISPER.

A beautiful, large colored picture, 16x20 inches. Sample 25 cents.

The Beautiful Family Record,

In colors, 16x20 inches, ready to fill out and frame, worth 50c., for 25c.

☞ We will send your choice of the above pictures for 20 lion heads cut from the Lion Coffee packages, or Arbuckle Coffee Signatures.

W. B. LONGSTRETH, Gratiot, O.

CLEAN THE PAPER on your walls same as new. Used by all expert wall cleaners. Send 10c. silver for receipt how to make and use it.

W. B. LONGSTRETH, Gratiot, O.

NEEDLE CABINET.

Contains five papers of assorted needles, also a full assortment of Embroidery and Darning Needles of all kinds. Thousands have been sold at 25c. each, and it is well worth that price, too: but I can offer it to my customers and friends for only 10 cents, postpaid.

W. B. LONGSTRETH, Gratiot, O.

YOUR NAME.

Business and Address neatly printed on 125, each, 6 $\frac{3}{4}$ high cut Envelopes and Note Heads to match; also 1 pint of Best Black Ink. All the above sent prepaid for \$1.00, cash or postage stamps.

W. B. LONGSTRETH, Gratiot, O.

If You Want a Magazine

or other publication we can generally furnish it at a price much lower than you can obtain direct of the publishers. Write us, stating what you want, and we will cheerfully quote you our lowest possible price. W. B. LONGSTRETH, Gratiot, O.

3,000 Ways to Make Money.

Or the Royal Road to Riches. Send for this valuable book, and if you are not satisfied return it and we will cheerfully refund your money. 60c., postpaid. Send to-day. W. B. LONGSTRETH, Gratiot, O.



Russell & Mercer Printers,
Zanesville, Ohio.

EARLY potatoes may be secured by early planting of early varieties in deep, rich, warm soil, followed by thorough cultivation or mulching with straw. Scatter the straw about four inches deep just as the plants are coming through the ground.

FOR starting early tomato and other plants in house or hot bed use sods cut in three-inch cubes or old tin cans with solder melted off or little paper boxes which have only to be wet when placed in the ground; transplanting can then be done easily and well without checking the growth.

☞ Longstreth's seeds not only grow but produce abundant crops. When you need seed, remember Longstreth.

NITRO-CULTURE

Doubles Your Crop

NO TIME.

NO LABOR.

LITTLE EXPENSE.

Results Guaranteed or Money Refunded.

NITRO-CULTURE IS A GERM, SOLD IN DRY PACKAGES LIKE A YEAST CAKE. (DISSOLVE IN WATER AS PER DIRECTIONS WHICH COME WITH EACH PACKAGE).

WHEN SEEDS ARE SPRINKLED WITH THE SOLUTION BEFORE PLANTING, THE GERMS MULTIPLY IN THE SOIL VERY RAPIDLY, AND CAUSE NODULES TO FORM ON THE ROOTS OF PLANTS (SEE PHOTOGRAPH ON SECOND PAGE). THESE NODULES COLLECT THE NITROGEN OUT OF THE AIR, AND FEED THE PLANT ROOTS.

NITROGEN IS PLANT FOOD, AND THEREFORE A TREMENDOUS INCREASE IN CROP IS BOUND TO COME.



AN EXPERIMENT WITH VETCH ON BARREN GROUND. AT THE LEFT THE SEED WAS NOT TREATED; ON THE RIGHT IT WAS INOCULATED BEFORE PLANTING.

(From Year Book of Dept. of Agriculture.)

W. B. LONGSTRETH,
GRATIOT, OHIO.

From the October, 1904,

"CENTURY MAGAZINE"

"Did you vaccinate your land this year?" was the startling question I heard one farmer ask another the other day. "Well, I guess," he replied, "You remember that corner field which I gave up as hopeless last year? Well, when I heard about the yeast cakes, I sent and got some and vaccinated the field according to instructions, planting it in Alfalfa. I tell you I have had three whopping crops, and I've got off that formerly worthless field five times more than I have been getting off my best land, and I've got some pretty good land, too."

GILBERT H. GROSVENOR.

Missouri State Board of Agriculture Says:

The air contains large quantities of free nitrogen and in the growth, development, multiplication and final decay of the bacteria within the root tissues, this nitrogen which has been taken from the free air by the bacteria is liberated in an available form for the use of the plant immediately within the



Roots of Soy Beans, showing the nodules which collect the free nitrogen from the air and deposit it in the soil, thus making barren land productive, and after the first crop is harvested the ground is left richer and better for the next year's crop.



Green Peas, grown and photographed by E. Brown, Lanham, Md. These were planted at the same time and from the same package. Specimens taken from row treated with Nitro-Culture, and untreated row.

tissue and readily accessible to the plant, hence these bacteria are called nitrogen-fixing bacteria and become the chief source of nitrogen for those plants in which they grow—*Monthly Bulletin, Vol. IV., No. 3, June, 1904.*

What the United States Government Says:

"The immense yields of wheat following alfalfa or clover are easily understood when it is realized that there has actually been added to the soil a certain definite amount of nitrogen in such form that the wheat can be benefited by it.

Thus it will be seen that it is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enable the plant to fix free nitrogen. It cannot be too strongly emphasized that unless the bacteria tubercles are present the leguminous crop is of absolutely no more benefit to a soil than wheat or potatoes.

Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of introducing the germs be resorted to the crop will be a failure."—*Year Book, U. S. Dept. of Agriculture, 1902.*

ALFALFA

Alfalfa has been grown with more or less success in **every State and Territory in the Union, from Maine to Washington** and from **California to Florida**. There is not a state from which the report has not gone out that alfalfa will, when properly treated,

become one of the best fodder plants. It is the best hay and soiling crop in the West. In the South it has been widely recommended as a very valuable addition to the list of forage grasses and clovers. In the Middle and Eastern States it promises to become a rival of the better known and more widely grown red clover.

Hoard's Dairyman, Ft. Atkinson, Wis., April 29, 1904

It is now practically certain that, if inoculated with the proper bacteria, alfalfa can be successfully grown on any soils which grow corn and red clover well.

From Inches to Feet

Land on which the farmer with constant toil had obtained alfalfa only a few inches high, when planted with these inoculated seeds will produce alfalfa several feet high and **so rich that the farmer does not recognize his crop.**—*National Geographic Magazine.*

The Value of Alfalfa

MR. F. E. DAWLEY, Supt. of Farm Institutes of New York, says: "An acre of alfalfa in Onondaga County (N. Y.) yields 1,300 pounds of protein each year, equal to the amount found in **five tons of bran**. You can grow it if you meet the conditions."



Specimen plants characteristic of uninoculated and inoculated field of Alfalfa, on farm near Bynum, Harford County, Maryland. The uninoculated plants turning yellow, though sown on ground richer and better than the inoculated field. Gain from inoculation with Nitro-Culture nearly 500 per cent. by weight.

CLOVER

Does your clover always make a good catch? Does it sometimes leave spots or bare places in your field? Does some of it get killed out by severe winter weather? If so, **inoculate the seed with Nitro-Culture** and insure, not only a uniform catch, but a tremendous crop, no matter how poor the ground.

What about the second year crop? Read this!

| | ORIGINAL YIELD PER ACRE | YIELD PER ACRE AFTER INOCULATED CROP | GAIN IN WEIGHT | GAIN IN VALUE | PER CENT. OF GAIN |
|----------|-------------------------|--------------------------------------|----------------|---------------|-------------------|
| Cotton | 932 lbs. | After Red Clover, 1304 lbs. | 372 lbs. | \$44.64 | 40 per ct. |
| Potatoes | 67¼ bush. | After Crimson Clover 102¼ bush. | 34.4 bush. | 15.00 | 50 " |
| Oats | 8.4 " | After Velvet Beans, 33.6 bu. | 25.2 " | 9.00 | 300 " |
| Rye | 4.5 " | After Peas 23.5 bush. | 19.8 " | 9.85 | 400 " |
| Wheat | 18.6 " | After Melilotus, 26.9 bush. | 8.3 " | 6.50 | 45 " |



Alfalfa, 3 years old.

(Farmers Bulletin No. 31, U. S. Dept. of Agriculture.)

What is Claimed for Nitro-Culture.

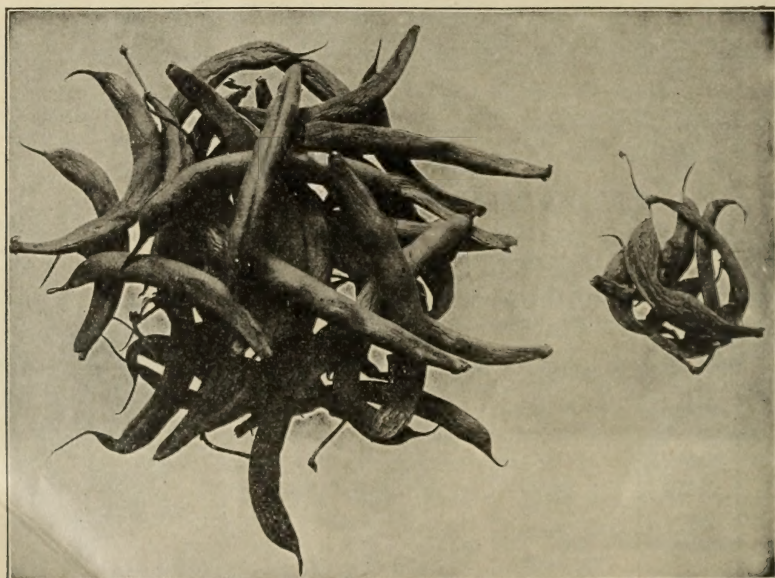
On poor or sandy soil, any leguminous (*i. e.* pod bearing) crop, such as clover, alfalfa, beans, peas, vetch, peanuts, etc., can (provided good seed is used) be more than doubled the first year, by merely moistening the seed with a solution of Nitro-Culture bacteria and allowing it to dry on the seeds before planting. Perhaps the greatest benefit may be derived the second year when any crop, such as wheat, corn, cotton, potatoes, etc., may be planted without fertilizer, and they will yield double what would otherwise be taken from the same land. Many persons claim that in money value this would be equal to \$20.00 per acre, or that a like amount would have to be expended on phosphates, capable of producing equal results. **Can you afford to overlook this cheap but effective method which nature has provided for the enrichment of the soil?**

PRICE LIST.

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| Cow Peas | 2.00 | Peanuts | " 2.00 |
| Garden Peas | ½ acre, 1.00 | Horse Beans | " 2.00 |
| Sweet Peas | ½ acre, 1.00 | Lima Beans | " 2.00 |
| Wax Beans | per acre, 2.00 | | |

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Crop produced by two plants; one inoculated with Nitro-Culture, the other not inoculated. Common bean, grown and photographed by George W. Biddle, Flintdale, Ala.



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
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