the results that an interesting feature is the striking uniformity obtained in the two years trials. This year the produce in most cases is somewhat laborers on the land they must pay lower, and the percentage of disease a urific higher than in 18.1. But in all respects, alike as to weight of sound produce, percentage of disease. sound produce, percentage of disease, extra labor required in hay-making, and quality when cooked, the four though the Swiss furmers very rarely variaties selected for experiment same in, as near as might be, the same order of merit in 2892 as they did in borers than permanent ones. Agricultural laborers are of two (1) These receiving board variaties selected for experiment stand | co-operate. At such times there is

tion. The Colonel ranks lowest in both years. It will be noticed that the average produce of the Bruce and the Colonel is almost precisely the same this year as in 1891—a somewhat peculiar result from so many trials. The Bruce is the only variety that shows an increase over 1891in gross yield of sound potatoes. This increase, however, is entirely in " small" potatoes. It will be observed that the Autrim (which was not tried in 1891) stands fourth-before the Coloral in unight of produce Colonel—in weight of produce. Disease.—Reckoned by their power

of resisting disease, the four varieties tried in the two years stand as fol-lows:-First, the Bruce; second, the Colonel; third, the Farmer; and last, the Champion. In all the four varieties there is rather more disease this year than last. The greatest increase is in the Champion, a fact which affords another indication of the declining vitality of this much-valued potato. It will be observed that in ten trials in the province of Munster the percentage of diseased potatoes in the Champion was no less than 12.34. It is interesting to note that the Antrim, the newest potato of the five tried this year, comes out with

the lowest percentage of disease. Quality when cooked.—The unifor-mity in the results for the two years are just as striking in regard to quality as to weight of produce and per-centage disease. The Champion still maintains a long lead in respect of quality. The Bruce, Colonel, and Farmer follow in the same order in both years. The Antrim just beats the Bruce for the second place.

SWISS AGRICULTURE.

The article on Brown Swiss cattle and the extent of dairying in Swit-zerland, which recently appeared in the Farmer's Advocate, has occasioned further enquiry into the status of agriculture in that wonderful little republic. At a convention held in connection with the visit of the British Dairy Farmers' Association to Swit-zerland, Herr Mottler, medical officer of health at Zurich, imparted some interesting information which our readers will appreciate. He said the Swiss farmers were not troubled very much with the ront question, most of the land being in the hands of the owners; in fact, not more than five per cent. of the cultivated land in Switzerland is rented. The average value of agricultural land in rural districts is £60 per English acro. The value increases, of course, according to proximity to a town, rising in the immediate neighborhood of large towns to £500 or £600 per acre. What

It is pointed out in the summary of labor is cheap, but this is hardly the

1891. This order is as shown below: — Agricultural taborers are of two Weight of produce.—In weight of produce the Farmer comes first in both years by about 15 cwt. per acre. In 1891 the Champion stood second, but in 1882 the Bruce beats it by a frac-are not boarded or lodged. These receive more near towns than they would in the country, the minimum daily wage being 25 in the country and the maximum 4s around Zurich. Farm rates are altogether unknown in Switzerland. All the taxes are massed together and take the form of an income tax, every man being taxed ac-

cording to his ability to pay. This Utopian state of agricultural bliss caused much discussion, and some surprise was exhibited when Mr. Jesse Collings, M. P., asked if a laborer getting 15s a week would be re-quired to pay income tax. To this terr Mottler replied that over man had to pay. A reduction of £20 is allowed to every one, and every Swiss who has a yearly income exceeding this amount has to pay tax on that In some cantons (Zurich, for **excess**. example) the tax is a progressive one, the rate of taxation increasing with the income. The announcement of this fact was received by the British dairy farmers with prolonged cheers.

Farmers' Advocate.

CLEANING LAND.

The colder and drier winds, which have checked superabundant growth in some quarters, and caused disappointment in others, have been favouruble for cleaning operations. Light lands are not difficult to clean, but are unfortunately only too liable to fall back into a foul condition. The plan we find best in order to destroy couch is to carry out the various operations somewhat in the following order:

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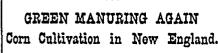
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|---|-----------------------------|----|----|
| | 1 Ploughing before winter | 0 | 10 |
| Ì | 1 Cross ploughing in winter | | |
| | or carly spring | 0 | 8 |
| | 2 Heavy harrowings in dry | | |
| ļ | weather | 0 | 1 |
| • | 1 Rolling | 0 | 1 |
| | 2 Harrowings | 0 | 1 |
| | 2 Chain-harrowings | 0 | 1 |
| | Collecting and burning | | |
| i | couch on the ground or in | | |
| | larger heaps | 0 | 5 |
| | 1 Cultivation or thorough | | |
| | dragging | 0 | 5 |
| ļ | 1 or 2 heavy harrowing | 0 | 1 |
| Ì | 1 Rolling | 0 | 1 |
| | 1 Rolling 2 Harrowings | 0 | 1 |
| | 2 Chain-harrowings | 0 | 1 |
| ĺ | Collecting and burning | | |
| - | couch | 0 | 3 |
| | 1 Ploughing | 0 | 6 |
| ĺ | 2 Harrowings | 0 | 1 |
| | 1 Roll | 0 | 1 |
| | 1 Drill | 0 | 5 |
| | 1 Harrow | 0 | 0 |
| | | £2 | 13 |

drill, and pick up the last coat of couch after drilling. We are not in favour of working light land too much, as it produces a dry and hollow condition, unfavourable for germination and rapid growth.—Eng. Ag. Gazette.



" ED. HOARD'S DAIRYMAN .- Since writing the note on "Green Manurwhich appeared in your issue o. ing." May 11th, I have seen in the Exper riment Station Record (Vol. 5. No. 8) a brief report of the result of plowing under a heavy crop of crimson clover as a fortiliser for corn as compared with a top dressing of nitrate of soda. The result noted is that "Eight tons 600 lbs. of crimson clover, from seed which cost one dollar per acre, added 24 bushels to the corn crop. One dollar invested in nitrate of soda and used as a top dressing added 6 bushels to the corn drop." Apparently the conclusions to be drawn is that in this case green manuring was profitable. Actually, no such conclusion is war-ranted. To obtain any valuable re-sults, the value of a leguminous crop, as green manure, should be compared with its value as a food crop, crediting to the last term of the comparison the full manural value of the residuum of the crop after it has served as a food.

Farmers' Bulletin No. 16, (United State Department of Agriculture) gives a very complete resume of the entire subject. Its conclusions are fully in harmony with the views previously presented in your columns. As pertinent hereto I quote: "The legaminous crop is best utilized when it is fed out on the farm and the manure saved and applied to the soil; the greatest profit is thus secured and nearly the same fertility is main-tained as in green manuring. * * * The practice of green manuring on medium and better classes of soils is irrational and wasteful."

We fully agree with every word of the last paragraph. ED.

PLANTS AND FLOWERS.

Varieties of Phlox Paniculata.

Prominent among hardy perennials are the garden varieties of Phlox pani-culata in their many brilliant colors. Phlox paniculata itself is a native American plant, but the skill of the gardener has bronght its fine varieties far above the wild one in beauty both in size and shape of flower as well as in brilliant coloring. These phloxes bloom from midsummer through the fall and their perfumed broad, clean and delicately tinted flowers are seen in their prime during the months of August and September. The following standard varieties can be easily procured from any one dealing in hardy plants, and they will be found hardy in almost every portion of the states excepting the extreme North.

Of the red varioties, Isaby has a clear, bright color, termed a fiery salolear, oright color, termed a nory sat-mon. The center is of deep, purplish carmine. Triumph de Twickle, a little less brilliant than Isaby, the florets having more of a lilac coloring in the red. The centre is dark crimson. It stands the sun vory well and holds a good truss. Miss Buckner, another step darker than the last, the little land is in the hands of tenant farmers bears an average rent of 35s ration of the land. In looking over it per English acre. Judging from the extensive practice of house-feeding in the valleys, we expected to hear that be omitted in which, case we should

and having a faint suggestion of sal-mon pink, contro bright crimson. Flora MoNub, a clear, pleasing pinkish lilac colored floret with a scarlet contro. The truss is compact and perfoot, an excellent sort. Mme P. Lan-guier, color same as of Flora McNab, a pinkish lilac, but without the darker center. A pretty color and a good flower.

Among other colors Maid of Kent has a pure white ground and shows a beautiful pale lilao coloring oxtending through the center of each petal, leaving a broad white margin on both sides and meeting at the centre. It is a handsome variety. The Pearl is pure white without a blotch or stain, is dwarf, compact, perfect, and the best white. Bridesmaid, puro white with a deep clear carmine centre, has a perfect floret and fine truss. Jose-phine Goobeaux, white with bright pink centre, is not nearly as striking as the last, yet vory tasty and refined in effect. Queen Victoria, coloring much the same as in Bridesmaid, but the white, instead of being pure as in the other sort, is suffised with pink. This lessens the offect of the carmine centre, but does not reduce the value of the variety. The Bride is of the same type as Josephine Geobeaux, only a little paler in the centre and having a tendency to fade to almost pure white as the floret grows older. It is very neat. Adolph Wick is the same color as Bride, but the florets are smaller and truss more compact.— E. H. Michol.

Gladiolus.—For profuse blocming plant strong bulbs. Sot them about three inches deep in light soil and manure well. Deep planting makes stronger plants, finer blossoms and borne on longer spikes, and will some-times render staking unnecessary. Plant them from ten days to two weeks in succession until the middle of June, for an all summer and autumn bloom.

Clematis (1) should now be trimmed to insure strong vines and plenty of bloom. Cut off a few of the side shoots. Give them a good deep loam and give only enough water to sustain life during the dry season, as excessive wetness is apt to bring on discases. The Jackmanii variety is probably the most popular of any kind; it bears largo purple flowers and is an unequaled bloomer. For white flowers plant the Henryi.

Abutillons for winter flowering must be started from cuttings now. Set them out in the open ground when warm enough and apply strong cow manure water occasionally. If you want them for late blooming head back a few times during the summer. Treated thus you will be rewarded by their bloom a long time.

Asters .- By all means plant some of the Comet variety, they attain a large size and are very beautiful. They resemble chrysanthemums very much with their long, wavy petals of delicate pink and whito. The German quilled variety is also very pretty.

To distribute Seeds Evenly a salt sbaker is just the thing.

For Transplanting Seedlings a touspoon is much better than a trowel.

(1) The accent on the first syllable please.