said to be very hard, and the fat also to wasto in cooking. Common practice, indeed, has sottled, that the cercal grains—barley, oats, &c.—with their low percentage of nitrogenous compounds, constitute in the long run the staple food of the fattening pig; and the whole of the results of the experiments detailed in this paper bear testimony in favour of the cor-rectness of this decision." Another Another instance, by the bye, of practice having proceded scientific investigation ; for many years before Lawos was born, it had been the custom of English farmers to fatten their bacon-hogs on barley-meal and skim-milk, and to finish them off on pease; a practice which the experiments of Sir John Lawes show to be founded on sound principles.

The composition of the pea is this:

(a) Water.... 14.5 Àlbuminoids. 20,2 Carbhydrates 55.4 Fat 1.7

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(b) Nutritivo ratio. 2:9 Value per 100 lbs.. \$1.44 Compared with } meadow hay...1 } \$2.25

In the above table, b, the value per hundred pounds - \$1.44 - must be taken for what it is worth. The calculation is from an American publication (Stewart on feeding), and is founded on timothy hay at \$21.80 a ton 1 I really cannot make anything useful out of the columns on columns of figures given in the new system of values of feeding-stuffs. For exem-ple: according to table b, pease are wor b, first, \$28.80 a ton; but, as com-pared with mandow have these man parod with meadow-hay, they re-present a value of \$2.25, now, meadowhay is put in the tables at 640 per 100 lbs. = 12.80 a ton, ergo, pease should be worth $12.802 \times .25 = 17.80$ a ton. Now, I buy my pease-famous sonp-pease too - at \$23.00 a ton, and best

peace too - at \$25.00 a ton, and best timothy at \$6.66, so the tables only succeed in perfectly stapefying me. Sowing peace. Like every other farm-plant, peace in my days were al-ways sown broadcast Bat early in the thirties, the practice of drilling them began to obtain in the south of England, though as late even as 1853, I saw farmars in Shropshire broad casting their pease. We used to set them about 27 inches apart, and sowed thickly-about 3 bushels to the acre. As toon as they were up, the harrows were passed across the rows, they were then edge hoed, onco-a man got over about and au acre a day-and the horse-hoe was kept at work until the pesso "shook hands," when a single row of rape was drilled between each two rows of pease, a light dressing of bone-dust or of superphos-phato (later) being handsown with the rape. This was for cheep feed, after the crop was carried, and was of great benefit to the land, particularly the lighter land, on which wheat great benefit to the land, particularly fresh grass, as that would disrobon, the lighter land, on which wheat the top layer of pease. hardly ever succeeds after pease with-out a sheep folding. After the removal of the peasurop, the spaces between the rows of rape, where the pease had stood, were horse-hoed once or twice, and the land was left as clean as a young playt. And rechard, and was left as clean as a young playt. and the land was left as clean as a young plant. And we should not stint garden, and in beautiful tilth. Where it to a bushel in arpent, but buldly land is managed thus, and the season put on such a dose as M. Ville recomis not too wet, there need be no fear of the results. There used to be in Kent s small machine attached to a one wheeled plough, by means of which beans or pease could be depo-sited at the bottom of the furrows; in practice, this was set to sow every

The land should be as carefully pro-pared for a pea orop as for any other. An autumn ploughing, well grubbed and harrowed, and the seed deposited 2¹/₂ or 3 inches deep, will be found to answor. My neighbour, Mr. Lavallée, ploughed in his poase last spring, and was well pleased with the result. I was won pleased with a single row (Mathews) garden drill, 27 apart—a man, if the land is in good state, will get over 2½ acres a day—and horac-hoe them as usual. I want to know this: You sow your beans in rows and hoe them, why not treat pease in the same way? If the quantity of seed per acro were increased, there would not be so many complaints of pease not podding. If I have time, I mean to try an acro drilled up as for mangols, sow the three bushels of pease broadcast, and cover them in with a single tine of the harrows.

Harvesting pease-Whether broad-casted or drilled the outting may be done with a short-bladed soythe better than with one of the ordinary length. The old fashioned Hainault soythe answers capitally for this purpose. When dried enough, they are rolled up in bundles, bound with a drawn-out wisp of their own straw, and carried home to the barn or stack.

Canadians often mixed a few pease with their oats for seed. In England, it used to be the fushion too, but is so no longer; the crop was called maslin, quasi meslin, i. e. mélange, from the French mêler to mix — formerly spelled, mesler. Here it is called gabouage, or, nearer Quebec, goudriole both of which words are underivable by

me, which is a bore. Podding-pease, as we call them in England, are, of course, pease intended for the table. These must be sown in succession, that is to say, one early and one second early kind put in on the same day to start with, and then scwings made every fortnight or so up to the middle of June, after which time, pease are rather apt to mildew before they are fit to eat. Best sorts to sow are:

(Bliss' American Wonder -quality good-a foot 1st sowing high ;

Maclean's Advancer, ten days later than the A.W. Carter's Stratagem-Such pods! succeeds Advancer.

As we remarked in February num ber, no good table-pease ever reach the Montreal market. This is, in part, due to the caroless way in which they are gathered and packed. Pease should be gathered when young, and kepi out of the sun as soon as picked; baskets are far better than sacks to pack them in, and over the top of or some light thing of that sorte; not, spring.

mends, namely, from 300 to 400 pounds an acre.

The American Wonder may bosown at 24 inches between the rows; the others at, say, 27 to 30 inches; both kinds to be horse and hand heed. Seed

grown lots of pease for stock and for the table, and never sowed one acre broadcast in our life. Remember that crop, the date of sowing being the same

If farmyard dung is to be applied to the land for the pease crop, it is always better to plough it in the previous antumn.

As soon as the pease are marketed grab the land, cart off the rubbish, give a light furrow, and sow 6 lbs. of rape to the acre broadcast Turnips might be grown, but as they would come to the hoe in the middle of harvest, rape would be less troublesome as it requires no work at all from the day it is sown to the time it is consumed by the sheep. It is really too tiresome that people will not see that this is the greatest blessing to the Canadian farmer: a crop that requires no labour and yet will fatten ten sheep to the acre. Why, it is made on pur-pose for the poor farmer who cannot find money to pay for labour.

Mangels. -It will be seen from the following that the cultivation of roots has not made much progress in the States :

"Arc mangel beets injurious ?-I ama reader of your valuable paper and would like to ask through your paper if mangel beets would in any way harm or injure a cow giving milk, if not fed more than one bushel per day ? Ċ. C. O. Bryant, S. D.

A bushel of mangels is supposed to weigh about 50 pounds, of which 90 % is water. This would leave only 5 lba. of solid matter, not enough, of itself. to produce any bad effects. We should care to feed so much bulk for so little nutriment, and it is possible that that may be some properties in the mangels which would make such large quantities of them objectionable. Never having fed them in this way we cannot speak from experience.

Mangels, as every one who grows them knows, ought not to be used till all the other roots have been consumed; not that young mangels are by any means injurious to stock, but because this root keeps its quality better than any other. By April, a good deal of the water has evaporated, and it has taken nothing nutritions with it. As we have often said in this periodical, the effect of feeding stock on roots

is not by any means dependent on their chemical analysis.

"Clover Silage. — Can clover be preserved in the silo for feeding during July and August? If so, how should it be handled? We have red clover, and to pack them in, and over the we we have also a field of Urimson court me the pease, as soon as the baskets are have also a field of Urimson court me filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth this filled, should be placed a layer of fern., fall that promises a good growth the better that the fern definition of that so the better that the fern definition of that so the better that the fern definition of that so the better that the fern definition of the better definition of the better that the fern definition of the better definition of the better that the fern definition of the better defin onsilage? What has been experience in preserving green oats in the silo for feeding sheep during the early winter? Can it be successfully done, and how should the crop be handled? Or would it be better to fill the silo with corn? We should wish to use the ensilage in connection with a grain ration. R, Morris, Ill. [It is difficult, though not impossible, to preserve clover in the silo, and hence this method of caring for it has been almost entirely abandoned, and the same may be said of osts Both are so easily cured, and so palatable either fresh or oured, that little would be gained by

August. But may it not be petter to feed green oats and second growth olover in the open pasture at this time a thick sown crop always ripens at of year, rather than to cure it and least a week sooner than a thin sown save it for winter feeding, the very time when the onsilage should be used ?] " Woll, it is noither difficult nor im

possible to preserve clover in a silo : ecce signum : Report of the Committee on silage-samples; Dairymen's Ass. Meeting, Sorel, 1890.

"After examining 5 samples of corn-silage, we found that M. J. Da-mien Leclair's sample of clover-silage was perfect! It contains much more nutriment than either of the 5 pro-ceding samples. Its only defect is that it was not chaffed before ensilement."

We have always held that clover would make better silage than corn, if properly cut and packed; and the weight per acre, if the clover were mown thrice, say, in early June, Au-gust, and late September, would be nearly, if not quite, as great as the weight of a crop of silage corn.

Flax.-If you are going to grow flax, you must not raise your expecta-tions too high. Fine flax, i. e., fine fibre, demands very thick sowing - not less than 2½ bushels an acre-, and demands -, and We gives but a poor yield of seed. have grown it in England and suc-ceeded well: our system we will des-cribe next mouth. One thing must not be forgotten : Sugar beets and flax being crops that are usually sold clean off the farm, will, in combination with the export of the cheese, leave the farm pretty woll exhausted unless manure is brought back to supply their place. The retention of the linseed will lessen. the detriment, of course, but it is a tempting thing to sell.

Fresh vs. rotted dung.-Fresh dung is full of the seeds of weeds, rotted dung if properly worked at a sufficient temperature, has the seeds, but in an effeto state.

Spring lambs .- March 12th, spring lambs sold for from \$250 to \$5.00 a head. Two years ago the best were selling for \$7.50. Eggs are down to 17 to 18 cts for fresh! Ten calves fetched \$9.50 the lot.

Canada chesse - Mr. Everetts, a well known factory proprietor, of Easton Corners, near Brockville, says that "Canada cheese is the best in the world, and the can produce just as good butter as obcess." Finest En-glish Cheddar, Feb. 25th, is quoted at 70s to 72s; Canadian do 50s/

Sacaline .- This new forage plant, from Siberia, is said to be a marvel; yields from 90 to 180 tons to the acre; 12 feet of growth by June; cattle cannot destroy it as the roots penetrato too deeply into the soil, equally productive of a undy knolls and in Swamps.

ANALYSIS.

Water	36.00	°to
Water Organio nitrogenous matter.	19.06	ů
Fat	4.4	"
Non-nitrogenous extract	24.64	-si
Minerals	7.4	٤٢
Phosphorie acid	1.57	26

"Sacaline is a new forage plant now being "boomed" by the seedsmen. We In practice, this was set to cow every for an acre must depend upon the size ensiling them. It would be far better being "boomed" by the seedsmen. We third farrow, and thus, as the plough of the pest the two earlies are small to fill the sile with corn, curing the advise our readers to touch it lightly, turned over a width of 9 inches in its and would take from 24 to 24 bushels; clover and oats. There will be no if at all. Rural Life says of it : "There passage, the rows of peace were at the the stratagers should have 3 bushels: difficulty in keeping corn ensibles pro-