turning in Ontario exceed these."-to satisfy his raving after knowledge, I herewith send you a tabular statement of 'some turnip raising' in North Wellington, as originally communicated to the Elora Observer, by Mr. Beattie, and would particularly call your correspondent's attention to No. 4 in the table, as well as to the note. DOMINIE.

PILEINGTON, Nov. 21, 1867.

Note by ED. C. F .- We have not space to publish the whole of the tabular report sent us, but would state in reference to the above communication that the best yield was that of Mr. John Brockie, of Nichol, (the "No. 4" mentioned above), who raised 1.150% bulbels per acre. The drills were twenty-seven inches apart, and the space between the turnips was nine inches. Twelve loads per acre of farm-yard manure had been applied in the spring, and in addition fifty pounds of plaster per acre were applied after the second hand hocing. The turnips were sown between the 15th and 20th of June, and singling commenced on the 4th July. The next yield was that of J. and F. Rennie, of Garafraxa, who raised "18 bushels to the acre, having applied twentyight loads of manure to the acre, besides plaster. Alexander Watt, of Nichol, followed very close in the competition, and had raised 9424 bushels to the acre. The spaces between both drills and turnips were larger than in the preceding instances, being twenty-eight and twelve inches. Fifteen loads of barn-yard manure had been applied. Robert lewin, of Pilkington, raised 926 bushels, and W. B. Telfer, Pilkington, 921 bushels to the acre. The Judges' note referred to is as follows :-

The 'loads' are understood to be waggon loads.

The 'loads' are understood to be waggon loads. The Judges, for their own satisfaction, weighed a rod square amongst the largest of Mr. Brockie s tur-nips, and found them to weigh at the rate of 1220 bushels per acre; and at Mr. Rennie's request they weighed a plot amongst a few drills of "East Lothian Purple Tops," growing side by side with "Sutton's Champion," and ascertained it to yield at the rate of 12374 bushels ner acre. 12374 bushels per acre. "It mayalso be mentioned that they weighed another

Culture and use of the Teasel.

ALTHOUGH teasel heads are now very generally superseded by belts of fine wire cards, worked by machinery yet it may be interesting to furnish a few particulars about this special culture, which is still carried on very generally in this country, in North America, and on the Continent. The fuller's thistle (*Upsacus fullonum*) is cultivated

m Yorkshire and wollen cloth manufacturing dis-ricts for its rough flower heads, which are used in rusing the nap upon cloths, which is done by means of the right housed awns or chaff of the heads. The teasel throws up its head in July and August; these are cut from the plant with a peculiarly formed knife, and then fastened to poles for drying. When dry they are picked and sorted into bundles. Upwards of twenty million teasel heads are annually imported into the United Kingdom from France. The use of the teasel heads is to draw out the ends of the wool the teach heads is to draw out the ends of the wool from the manufactured cloth, so as to bring a regular pile or nap upon the surface, free from twistings and knottings, and to comb off the coarse and loose parts of the wool. The head of the true teasel is composed of incorporated flowers, each separated by a long, rigid, chaffy substance, the terminating point of which is furnished with a fine hook. Soveral of these back may find in a forme or drift this the correspondent heads are fixed in a frame, and with this the surface of the cloth is brushed until all the ends are drawn out, the loose parts combed off, and the cloth ceases

It is worth while for farmers to consider whether It is worth while for farmers to consider whether teasels, as a crop, are not worthy of more attention. Wo have seen it stated that a fair average crop is 200,000 burrs per acre, and a fair average price is one and a half dollars a thousand. Their cultivation is not a new thing in the States, though but little at-tended to. Nor is it difficult. A Mr. Wills, of East Windsor, Connecticat, grew them many years, and found them profitable. The most suitable soil is a rich, clayer loam, of rather a moist nature, such as rich, clayey loam, of rather a most structure con is a would produce two tons of hay per acre. The time of planting is when the ground is in good order, about the 1st of June. In about two weeks the rows

about the 1st of June. In about two weeks the rows can be seen, when a hand or horse hoe must be put to work. At the second hoeing the plants may be thinned out, leaving them four or five inches apart. The after culture is to keep the ground absolutely clean till about the middle of November, when the plants are covered with straw, held in place by earth. to remain till the 1st of May, or till freezing nights have passed, when the plants are uncovered, and the weeds kept down till the plants grow, as they soon do, to cover the ground closely. Soon after the flow-ers drop, the burrs must be cut with the stems about four inces long, and carried to the drying house, where they are spread upon shelves of poles, or small four inces long, and carried to the drying house, where they are spread upon shelves of poles, or small rails, in tiers one above another, so as to give free circulation of air. They may be placed a foot thick upon shelves of this sort. A good hand can cut 15,-000 or 20,000 a day, and the harvest should commence by the time half the flowers in a field are off. The top burrs drop their flowers first; these are called "kings." but are not quite so good as the burrs next below, which are called "queens." A stalk has from four to six No. 1 teasels, and twenty to thirty, and sometimes fifty which are merchantable. The most common method of disposing of the teasel stalks is by moving, drying and burning on the ground. Two crops in succession generally do well, but more than crops in succession generally do well, but more than that is not recommended. The growing of fuller's thistles, in Austria, was commenced as far back as 1827, and furnishes a yearly produce of about forty to sixty millions of teasels, representing a value of about 200 2000 Aprice and the process profile is 200 Aprice sixty millions of teasels, representing a value of about 100,000 florins, and the gross profit is 200 to 300 florins per yoke of land. In commerce, these teasels, which rival the Styrian and Bavarian in quality, are packed in boxes, and sell at one to three florins the thousand. The heads of the wild plants are less strong and serviceable than those of the cultivated plants. The fuller's thistle is indigenous in France as in England, and the bees find an abundant harvest in the fields where they are crown; as each head

as in England, and the bees had an abdundant nervest in the fields where they are grown; as each head contains more than six hundred flowers, there are necessarily millions of flowers on an acre of land. In France the culture is carried on around Louviers, Elbeuf, Sedan, Carcarssone, and other seats of the woollen manufacture, and the teasel heads of the wild plants are utilized, to some extent, in the factories. The harvest there commences about the middle of July, when the flowers have fallen from the heads, and the teasels are of a whitish color The heads are sorted according to their size, the finest being termed "males," and the others "females." The best are "males," and the others "females." The best are those which are long, cylindrical, and armed with fine books. The produce of each head is about five teasels; but in good soils and favorable seasons it reaches seven to nine, which would yield twenty to thirty bales per hectare.— Technologist.

Rotation of Chors.—Gen. N. H. Halstead of Newark, N. J., President of the New Jorsey Agricul-tural Society, whose farm on the Pacific gives eri-dence of his skill in management, recently gave the following account of the system of rotation pursued by him for enriching his grass lands, the success of which is shown by the fact that he often obtained three and sometimes four tons of hyper acre :—Ist year.—The ground having been ploughed and har-rowed, clover is sown alone, or without any grain or other crop, early in the spring, and remains untouch-ed during the season. 2nd year.—A crop of clover hay is cut in June, and the second crop is turned under with the plough for enriching the land—re-maining inverted all winter. 3rd year.—Corn is planted by manuring in the hill and dressing with asbes; and after cutting up, the stubble is ploughed under in ridges for winter, by first inverting the line of hills with a furrow, and then turning two other fur-rows upon it. 4th year.—Manure is applied early in the spring, and oats sown—or the manure is spread Turnips are then sown, (the strap-leaved) and the difference of fine cloth generally breaks this number be-proceed fine cloth generally breaks this number be-fore it is finished There is a consumption answering quring 150 to 200 runnings up.

The Dairy.

Advantages of Spayed Cows.

IN a notice of Prof. McClure's late work, the Utica Herald savs :

We add another extract from the work on the advantages of spayed cours, a subject which perhaps will be of interest to dairymen, especially at this time, when there is so much difficulty in obtaining good milking stock, and so many losses are con-stantly arising from abortive cows. The following reasons are given by the professor wby dairymen should spay their cows when not intended for breed-

2. They are less liable to sickness of an epizootic kind, and when sick, more certain and casy of cure.

3. When epizotic diseases are present in the vicinity, or even in the herd, spayed cows are always in condition and fit for the butcher, and to prevent loss and save expense in the treatment with the at-tendant risk of loss of some, and loss of condition and milk of all that are affected, they can besold, not at a loss, as is the case with cows not spayed, and when pleuro pneumonia is among them.

4. Spayed cows give the same quantity and quality of milk all the year round, if they are properly fedand cared for.

5. Yen spayed cows will give the year round as much milk as double the number of cows not spayed, thus saving the interest on the outlay for ten cows, together with the absence of risk from loss of some of the principal by the death of one or more from sickness or accident, not to speak of the feed of ten cows. The feed of ten cows and the manure of ten cows, the farmer can best tell the difference in their value.

6. With spayed cows there is no risk to run from milk fever, nor trouble with cows called bullers.

7. Spayed cows are easily fattened.

8. Spayed cows cannot abort or slink their calves." The disadvantages are summed up under the two following heads :

"The expense of the operation and attendant risk of the animal dying, although this is not great-about one in a hundred—and the expense of the operation will be from \$3 to \$5, which will depend upon the distance the operator has to travel, and how many animals are to be operated upon.

"Spayed cows are apt to accumulate fat and fiesh, so that they will become dry much sooner than cows not spayed. Still there can be little loss, for a fat cow is always ready for sale. These, then, are the objections to spaying cows, if objections they may be called. We now leave the subject to those who are immediately interested."

We have never heard of any trial being made of spayed cows in the dairy districts of New York, but spayed cows in the dairy districts of New York, but have frequently seen statements of the profils resul-ing from cows which had been spayed in Europe. The question of profil is one of considerable import-ance to the deirways, and we should be deterable ance to the dairymen, and we should be glad to see the experiment tried on a few animals, at least, to fully test its comparative merits.

Jar A Massachusetts farmer says he can winter his cows on steamed feed for one-third less expense than on dry feed, and get one-fourth more milk. This is the result of five years' experience.

72 The influence of food on the quantity of milk is very striking. A half-starved cow not only yields but little milk, but what it yields is miserably poor On the other hand, the liberal supply of food rich in nitrogenous and phosphatic elements of nutrition tell directly on the milk. Nothing, therefore, can be more injurious than to stint dairy cows in food.

STILTON CHEESE .- The manufacture of this cheese, justly renowned for its many commendable qualities, was begun by the Scarboro cheese factory late in the past season. An improvement has been effected the past season. An improvement has been effected by this company in the manner of packing the cheese, it being put up in porcelain pots instead of the cans, as is that of English manufacture. It is thus less liable to mixture with foreign and unhealthy ingre-dients. The company have been, since starting, ex-tensively manufacturing Cheddar cheese, a descrip-tion for which they took first prizes at the last Pro-vincial Erhibition. and at the Scarboro, Pickering, and Yorkville chows, and twice in Toreate.