ON FEEDING MILCH COWS.

The following is an extract from a lecture recently delived at Alowick, England, by Professor Johnston, of Durham University, at the desire of the Duke of Northumberland, "On the feeding of stock."

"I have spoken of the various conditions of annuals. I will now direct your attention contrary to old maxims, undertakes to judge to the milk of the cow. When an annual the character of a horse by outward appearcomes into the world, the parent gives it milk. The parent must noursh its own body, and produce the milk besides. The cow gives a large quantity of milk as soon as the culf is born. And cows that give a large quantity of milk are in general characterized by striking peculiarities. Such an amin'd an intexperienced eye would say is poor and mengre and worth nothing; but when he is told to look at the large udder, and the conformation of the whole animal, fitted for the copious production of milk, he soon learns to change

Now, what does milk contain? Card, or casem, butter, sugar, and salue matter, as you will see on referring to the table. Therefore, if you would feed a cow with food that contains these ingredients in a large proportion, you may give her beans and peas or you must give her some I gammous crop. Observe, the butter is derived from the fatty matter of the food; and some pastures, as These you know, are calculated to fatten. same pastures would give a milk rich in cream, or that would produce much better, while others would increase the yield of casem, or would be adapted for the production of cheese. Now. | cold. the food must exist in the pasture. you all know that milk is extensively used as food, and is raised for sale, either directly, as by the cow-keepers in our large towns, or in the form of butter and chees; as in our districts, or it is manufactured into veal, suppose that the parti-colored horses belong-

His object is to produce a large quantity of gentleness. milk; and he accomplishes that by feeding the united upon succulent substances, and such as contain a large quantity of water. In some places, you know, they are said to have little scruple in adding water to it afterby giving it in the food. Milk, of average quality, contains about 87 per cent, of water: but it is possible to increase the proportion to several per cent, more. Then there are the made use of in these places from what is about two handred bushels. employed where mik only is required. If you wish the product of cheese to be plentiful, you must feed the cattle on clover, beans. and no doubt would increase the proportion sound frightens others from attempting any thing of cream. Some kinds of folder also contain more fatty matter than others.

sound frightens others from attempting any thing.

But every farmer may at least double his more fatty matter than others. more fatty matter than others.

From this fatty matter the butter, as I mane with good effect, have said, appears to be derive I, and I think, by using a little care, a milk rich in butter! I have not followed the exact rules of the the milk itself, or to the eream or butter obtamed from it. Then in other paces they
are in the habit of manufacturing the milk
into yeal. The young calf it is necessary to
feed on such substances as contribute at once
to the growth of the bones, and to the laying
on of fat. These substances exist in milk
keeping them covered behind the cattle with some
and it may be necessary at certain a group of good absorbent, which is renewed as often as and it may be uccessary, at certain seasons of good absorbent, which is renewed as often as its growth, to give the milk skinimed, at necessary, other unusually rich in cream. Thus in the 1 Thave a swamp which furnishes an inexhausible a different process from feeding farm stock.

CHARCOAL.

ct the taint in ment; w cisterns, and when thus saturated with ammonia, is an extremely valuable manure. The liberal application of this well known sub- dry soil, than clear stable manure. stance to the wheat fields in France, has mainly, in connexion with the use of lime, added, within the last few years, 100,000,000 hushels to the annual crop of wheat grown in that kingdom. The charcoal should be sown in May, at the rate of 75 bushels per acre, well pulverised. This substance is one tood of horses, are said to be an effectual of vast importance. By studying the science remedy for the troublesome and very prevaof agriculture, you may grow 50 bushels of lent disease called "cough."

good wheat on any acre of your land, I have good reason to believe, every year, bating, of course, extreme casualties.—[Dr. Lee's ad-

GUIDE IN BUYING A HORSE.

A correspondent of the Prairie Farmer. ances, and offers the following suggestions. as the result of his close observation and long

If the color be light sorrel or chesnut, his feet, legs and face white, these are marks of

If he is broad and full between the eyes, he may be depended on as a horse of good sense, and capable of being trained to any-

As respects such horses, the more kindly con treat them, the better you will be treated in return. Nor will a horse of that description stand the whip if well ted.

If you want a safe horse, avoid one that is dish-faced; he may be so far gentle as not to scare, but he will have too much go ahead in hun to be safe for every body.

If you want a foal, but a horse of great bottom, get a deep bay, with not a white hair about him; if his face is a little dished, so much the worse. Let no man ride such a horse who is not an adept in riding-they are always tricky and unsafe.

It you want a horse that will never give out, never buy a large overgrown one. It is clear, therefore, that the constituents of black horse cannot stand heat, nor a white one

If you want a gentle horse, get one with more or less white about him-the more the better. A spotted one is preferable. Many The object of the cow-feeder of the towns is different from that of the true dairy farmer. In the readily. But the selection thus made is on account of their great docility and

MAKING MANURE.

Messrs. Editors:-Some time since I was conthousand dollars, respecting improving the soil by increasing the quantity of manure. Said he-looking at me gravely—"These new modes of finely-sifed Indian meal, previously inved with a little cold water. Add sait to your liking, and let the mixture boil for fifteen or twenty mixed. A small quantity of universed grackers. ersing with an old farmer, worth some three ward. But they can avoid the odum of this thousand dollars, respecting improving the soil by for farmers generally to adopt." This same man unmutes. A small quantity of pulverised crackers cheese districts, such as those of Cheshire for farmers generally to adopt." This same man immutes. A smandpanning of pulverised crackers, a few raisins, or a little sugar added, will render and Ayrshire, and a different kind of food is planted last year ten acres with corn and raised it more polatable to the sick.

cultiviting six acres had been laid out judiciously and peas, and other plants that contain a in making manure, and the whole had been and peas, and other plants that commin a large quantity of casem. A rich milk may put upon the remaining four acres, who doubts lead to the obtained by feeding your cows upon closers that he would have raised as much corn as he did Agriculturist. but you may obtain a very rich milk also by lon the whole, besides leaving the land in a far porting them partly on beans or peasement, better conduon for the next crop! It is not so But, if butter be the principal object desired, you may feed your cows upon food containing a large quantity of oil. Indian corn, as hundred dollars a year for this purpose, and the I said before, contains a great portion of oil, hundred dollars a year for this purpose, and the

But every farmer may at least double his have practiced composting all, or nearly all my

might be obtained by the use of oil cake, chemist, but my own judgment; and if my plan without imputing any disagreeable, taste to, is not the best it sat least better than none, and

neighbourhood of large towns, where veal is supply of peat and mud. After supplying the much used, it is usual, when the animal arri- yard, &c., with this, I collected a long heap near ves at an age when it ought to lap on fut rapidtion to make the property of the barn in the Fall, to be pulserized by the frosts ly, to give it the milk rich in cream, as well of winter. Early in the Spring I draw out the as a larger quantity of it. This is altogether of winter. Early in the Spring I draw out the manure from the stables, and drop it beside the muck heap about two feet in the depth, and cover it with the latter, sometimes making two or three alternate layers, and mixing lime or ashes, if I Most of you know that charcoal will cor- have them. An active fermentation will soon in a suitable cistern, so as to render it the unixing it well together, and cover it again with last number of the Canada Farmer, on our charcoal abould be often renewed in filtering muck. A slight fermentation then takes place, Provision trade. It is true that we have been and the whole is converted into fine strong manure much better for grees or for any crop on a light

> CHARLES. December, 1846 - Boston Cultivator.

Course in Houses .- The boughs of the common cedar, cut fine, and mixed with the

MARBLE SUGAR.

The Salem Gazette says that the pulverized white sugar, now used in families, contains in overy pound of sugar two ounces of pulverized marble. When used and dissolved, it deposits a marble: When used and dissolved, it deposits a sediment of classor mortar. On a post mortan examination of the body of a man who lately died of it. His bowels were found to be conpletely macadamized, and pipe-clayed.

SALT AS A PREVENTIVE OF POINTOR ROT .- We have been requested to give publicity to the following facts as evidence that the application of salt is efficacions in preventing the disease by which potatoes have been visited last year and the present -John Lee, market guidener, of Soke Prior. Worcestershire, says, "The land, a light gravelly soil, was all manured precisely alike. To one portion he applied a mixture of lime and soot in the drills, at the time of planting; to another portion he applied salt in a similar manner, and left the remainder, without any artificial dressing. When harvested, the tubers were found to be badly diseased where no artificial dressing had been applied: partially so, where soot and lime had been applied; but they were perfectly clear and free from disease where salt had been applied John Lee does not know the quantity he used, but says he is so satisfied of its utility, that he shall dress all his land with 10 or 12 cwt to the acre. sown broad-cast, next spring, some weeks before planting." This process has been found most useful in the United States, as is proved by the testimony of Henry Colman, Esq., agricultural commissioner from that country, and by various other authorities, which shows that any saline matter would have the same effect as common

Chean that has been suffered to stand until rancid, or slightly mouldy, which is often the case, should never be churned; it may mike very palatable cream cheese, but abominably bad but-ter. Cream never rises from the milk after thrtysix hours' standing. This may be proved by the lactometer. It becomes more solid, and thus appears thicker, but nothing is gained in quantity and much lost in quality, by suffering it to stand too long before skimming.

A FINE BLUE-WASHFOR WALLS -Now suppose the expense of ploughing and lons of white-wash, add one pound of blue vitriol dissilved in hot water, and one pound of flour, well mixed.

> Isrserses and gin dissolved together by slow heat, makes a good cement for glass .- [American

> Precious beyond rubies are the hours of youth and health; let none of them pass unprofitably

Correspondence.

FEEDING CATTLE AND REARING CALVES -- CULTURE OF LIN-SEED.

We bespeak for the following beer an attentive perusal. To the suggestions of our correspondent regarding the cultivation of Linseed, and the manufacture of Oil-cake, we may add that in our oxinion, a very extensive trade with England may be carried on in the latter article. The greater portion of the Oil-cake used in England in the feeding of cattle, is imported at a price varying from \$50 to \$65 a ton. We cannot at present enter into any statistical calculation regarding the probable profit and future extent of this trade. but we are decidely of opinion that it is one which ought to be encouraged. It would add an important item to our exports, and be a means of assisting us to strike "the balance of trade" in our favour :-

To the Editors of the Canada Farmer.

GENTLEMEN,-I was much struck with the appropriateness of your remarks, in the cellent wheat, and I saw (what I did not expect) slow to benefit by the example of English farmers, to which you refer. You are no doubt aware, that it is impossible, and would not be profitable to follow in all cases the practise of English farmers. The difference in the climate forbids it. The colder climate of England, which prevents the English farmer from growing Indian Corn, gives us clearly an advantage over him in this respect, though with us, corn is only an interest of the Township of Collingwood. There are but the Township of Collingwood. There are but the Township is the few settlers in this Township; wa met with but wo in our whole ride across it; and yet the food seems to be as fertile, and as well adopted for entiretion as any living stream, which down from a mountain that rane through with us, corn is only an living distant from the Lake.

uncertain crop. The same difference of climate renders it equally impossible for us Canadians to copy the whole practice of Enghish turmers. You will at once perceive, Messrs. Editors, that I am not inclined to receive the entire practice of English farmers as a standard model for us to inntate without discrimination; though I willingly admit that in many, indeed in most branches of our noble art, they are superior to us, but only because they (as a country) are older than

Feeding mult to cattle, would, I believe with you, very much improve the quality of our beef; but I plainly see one obstucle against its general use, arising from the impossibility of each farmer, without combining with his neighbours, supplying himself with the necessary materials for making malt. By several joining together, it could be produced at a trifling expense to each.

I think however, that Oil-cake, which is not a new thing to require any experience to prove its value, might be extensively used in the fattening of cattle, the beef of which is intended for the English market. As the best beef in England is fed upon it, I see no reason why, if we used it, we should not produce beef of a quality equal to the best English. It may be asked how we can produce the Oil-cuke-I answer, by ruising the Linseed, and establishing Mills for manufacturing the cake. The limited experiments which have been made in Carada, sufficiently prove that our chinate and soil are adapted to the cultivation of Flax, from the seed of which. Oil-cake is made. We have companies springing up in all parts of the country for manufacturing purposes; but the manufacture of Oil-cake, has been so far neglected, and yet the business is particularly suited to our country. We can grow the seed ourselves, manufacture the cake, and turn it into beef for the English market; and we can derive a profitable trude from the sale of the Linseed Oil and the Flax.

When dairy farming receives more attention amongst us, the use of Linseed will also become extensive. Perhaps nine-tenths of the calves reared in England are fed on linseed porridge," which is a thick kind of jelly made by mixing the seed with water and boilmg it. The use of this gives the farmer an opportunity of converting the greater portion of his milk into butter and cheese. For very young calves, milk is necessary, but by degrees the milk can be mixed with Linseed porridge," and in a short time the latter may be given by itself. I may perhaps prepare some further remarks on this subject for publication in your next number.

AN ENGLISH-CANADIAN FARMER. Clark, Feb. 21, 1847,

Mr. Stephens, in a communication to the Examiner, gives the following description of the state of agriculture in the neighbourhood of Lake Hurou:

The Indians here make an attempt at farming, and they grow corn, squashes, pumpkins, and potatoes, but, from the appearance of their husbandry, I do not think that they read the British American Cultivator or the Canada Farmer. Some of these men were engaged in shelling corn. Their method was different from any I had ever seen. I have myself used the flail, a spade, a beetle, and the handle of a frying-pan, but they used a pointed stick, which, while they held the cob of corn by its knob with the left hand, they inserted between the rows from end to end, in three or four different places, and then the remaining rows were easily shelled by twisting the cob around in the hands.

Both Sydenham and St. Vincent produce exsome very fine peaches, which grew in the latter place; and, as a matter of course, they graw splendid potatoes; and what is of very great importance in new settlements, where they mty depend so much upon petatoes, they have, I believe, generally escaped the ret.

After passing through St. Vincent, we entered the Township of Collingwood. There are but