riodical, on Lawes' experiments on growing turnips, in it will be seen that the manure for turnips is phos phorie acid.

Butter.-Nover has good butter been so easy to be found in Montreal as this last spring. Is it possible that good makers are really being paid decent salaries? They will not, we hear, work for the wretched pay offered thom, in some places, of late years, and it is the same in the States, as the follow ing, from *Hoard*, will show : "While it cannot be said that good

wages will always secure a competent buttermaker, it stands to reason that such a man will not accept low wages. This is the way Mr. S. put it :

"Soveral creamerymon have writ ten me asking for a buttermaker for a fow months at \$35 or \$40 a month. and I have written them that I am not recommending that kind of butter-makers. I struck one creamery that failed, and wanted to start up again. Happening to meet the manager. "'I went a good buttermaker,' said

ho. ""What'll you pay?' I asked. ""Well, we paid the other man \$40 a month, and could'nt make the creamery go at that, so I don't see how we can afford to pay any more.' "'Well,' said I, 'you get a forty dollar a month buttermaker and you'll fail again. I won't recommend any-

body for less than \$60 a month.' "'But,' said he, we won't get but about a thousand pounds of milk to start with.' " ' That's all right,' I said, ' but you

won't get that much unless you have a good man to make it into butter that will coll The best way to get more milk is to get somebody handle it and make money. who can

Hampshire-downs. - As we have been asked several times for the names of the best flockmasters of the Hamp. shire-down country, we give the following list of prize-winners at the late county-show :

CLASS PRIZES.—SHEEP—Hampshire downs—Shearling Rams: 1, J. Wright-son; 2, R. Coles; 3, J. East; r, T. F. Buxton; hc. J. A. and T. Palmer; c, M. Arnold, T. F. Buxton

Rams, any ago. 1 and r, T. F. Bux-ton: 2, C. Coles, c, W. T. Twidell. Three Shearling Ewes: 1 and r, J.

Three Shearling Ewes: 1 and r, J. Flower; 2, J. Esst; c. A. de Mornay. Ram Lambs: 1 J. Flower; 2 and r, T. F. Buxton; 3. E. Whalloy-Tooker; hc, J. East; c, W. T. Twidell, A. de Mornay, J. Barton. Three Ram Lambs: 1, T. F. Bux-ton: 2 and c. J. Flowar: 3 C. Colas-

ton; 2 and c, J. Flower; 3. C. Coles; r, J A. and T. Palmer; vhc, H. N. Carlisle; c, J. Barton.

Three Ewe Lambs: 1, T. F. Buxton 2, J. Flower; 3, C. Coles; r, A. de Mornay; vhc, J. East.

A simple barometer.—A parometer is an instrument used to determine the relative weight of the sir. As usually made, it consists of a cup of mercury with which is connected a graduated glass tube. From the upper part of the tube the air has been exhausted, thus forming a vacum, and the height of the column of mercury in the tube denotes the weight of the atmosphere.

Dry air is heavier that moist air; just as a bushel of dry wheat weighs more than a bushel of damp wheat, The drier, then, the air, the greater pressure it exerts on the surface of the morcury in the cup, and the higher the mercury rises in the glass tube.

made at home. Take a wide-mouthed glass jar-a pickle bottle will do-a olean Vonice oil flask, and half a pint of clear water. Pour the water into the jar, letting it come to within one third of the top, and insert the oil flask upside down in the jar, so that the neck of the flask will just enter the water. Voilà tout.

If the atmospheric conditions are favorable to clear, fine weather, the water will rise in the flask ; if, on the contrary, a storm is approaching, the water will fall. The air affects the water just as it affects the morcury.

Second crops,-You have sent your early potatoes to market: why not try for a second crop of some kind? There are ten weeks of growing time, at least, before you : suppose you follow the potatoes with a little rape. It is not costly to grow, as of course the potatoes had dung applied for them, and the horse, and hand-hooing, the digging and harrowing in getting up the crop, will have rendered the land extremely friable. The proparation of the land seed, etc., will come to some thing like this per acro :

1 grubbing	80.30
2 harrowings	30
6 pounds of seed and sowing.	80
1 rolling	20
	\$1.60

And for this trifling sum of one dollar sixty cents you will have hearty food that will finish off your lambs in such style as will content the butchers who buy them and the people who eat them.

If your land is very stiff, clay soil, it must of course be ploughed instead of grubbed, as it would be dangerous to let it lie on the flat without waterfarrows during the fall rains. This would add to the expense, but the sheep would pay for it, and 'he gain in the next year's grain-crop would be great.

Canadian vs. American cheese.-Here is a pretty story : from the Vermont Farmers' Advocate too :

Canadian cheese has a higher ropu tation in England than American, although, in point of fact, there seems to be no good reason for this preference, as will appear by the follow-ing statement, made by Mr. Jennings, is regard to some cheese that was recently shipped to England.

" It was said by some who claimed to know, that when the Northern New York cheese were on board the ocean steamer, or after they had reached their port of destination, the American factory brands were removed and Canadian brands affixed, thus as suring their sale as "Canadian Full Creams" in the Liverpool and other English markets. But there is no doubt but, on quality alone, the cheese would have easily passed as Canadian as it was equally good. These figures +how that, so far as Northern New York choese is concerned, the state-ment made by a speaker at a Western dairymen's meeting, not long since, that Canada cheese outsold the American product in the English market by

a cent a pound, was incorrect." The deduction from the premises seems curious.

Professor Huxley, the great philo-sopher, is dead. In the Vermont Farmer's Advocate he is correctly described as an agnostic, but we doubt Dr. Hoskin's derivation of the term, the mercury rises in the glats tube. which he says "comes from the Latin But a very much cheaper and almost agnosco, I acknowledge, and not from '1) Se the cale of Mr. Barenda'e's l equally serviceable barometer can be ignosco, I am ignorant. The true de- shorthoras, p. 159 of this number.--Bo.

rivation is from the Greek agnostos, not knowing, ignorant of, from a pri-vativo, and gignôskô to understand, to gain knowledge of.

Alsike clover.-Has any one had any difficulty with making butter from milk produced by cows fed on Alsiko clover? And what is the new theory about the Jerseys overcoming difficulties ? Does any one expect to make really fine butter on clover alone?

Alsike and Butter.-I have heard farmers cay that alsike clover makes poor butter I have grown it for 15 or 20 years, but have not noticed bad results from it. I keep Jerseys and they always make hard butter, summer and winter. Some say it makes soft white butter, not fit to eat. E. H. Rose N.Y. (When cows are fed a highly nitrogenous ration, the butter is not so firm and aromatic as when fed on a carbonaceous one. The Jersey breed of cattle measurably, though not ontirely, overcome this difficulty. We presumo the alsike clover is mixed with grasses and other plants and therefore does not have the detelerious effect that you speak of. Certain it is, that clovers and grasses mixed make better butter, as customers judge it, than that made from clover pasture alone.)

Country Gentleman.

Dairy Short-horns .- "Some of the devotees of the old fashioned Shorthorn dairy cow appear to have awakened at last to a perception of the fact that breeding and handling for beef and prizes in the show-ring have not tended to conserve and much less to improve the performances of their favorites at the pail and the churn. The Breed-Tests at the Columbian Exposition and other influences have stimulated some of our Short-horn friends to make an attempt to recover some of the ground lost, and to this end recourse has been had to some of those herds in England noted for creditable dairy performance. It is said that Mr. John D. Wing of Millbrook, N. Y., has already received a consignment of fifteen cows and a bull thus s lected, and that another breeder expects a similar consignment at an early day.—*Hoard.* If this 15 a true statement we rejoice

at it. We only hope Mr. Wing knew where to go for them. (1)

Grains.-What a happy State must be Vermont, for :

Theroaro no broweries or distilleries in this State, except those of an illicit character, and so, there is little danger of cattle being fed on refuse taken from such places, except, possibly, along the line contiguous to other States and Canada. Nevertheless, the following from Hoard's Dairyman will bo of interest to those who may remember the great outcry that was raised against distillery fed cows, and "swill milk" by the New York press a number of years ago, and which, for once, showed the power of the press in suppressing the unhealthy practice, and it further shows that evils that are checked in one quarter will crop out in another, if there is the slightest opportunity. "Senator Morrison, chairman of

the special committee of five members of the Illinois legislature appointed to cakes did not like it, and though it investigate the feeding of cattle on has improved since then, it is still distillery slops, has submitted a report (quoted at 4s. to 5s. per sack (280 lbs.) signed by all the members of the com- less than home grown. mittee. The report says the commit | The differences between home and

too recommends legislation which will prohibit the feeding of wet refuse from broweries, distilleries, or factories, to animals. It recommonds this, hav-ing in view the public health. Wet refuse taken from broweries

sours and forments and in that condition is not a food which should be fed to cattle giving milk. In this condition gorm lifo is rampant and baccilli rapidly form. Taken into the animal the principlo secretion, milk, must be and is affected. That milk is then brought to the centres of population, and a very large proportion of it fed to the most dolicate human organism, the infant. It sets up pathological conditions which largely increase the death rate." -- Vt. F. Ad.

But are they not over-doing it? Care for the health of cattle is all very well, but the principle of paternalism, or, as we English think it, Grandmotherism may be easily carried too far. Too large rations of brewers' grains are not healthy, but a moderate quartity, say, 2 pecks a day with plenty of other food, of a nitrogenous kind, such as beans, pease, clover, &c., will injure no cow, and really, as far as regards food, cowkeepers may safely be left to themselves. When at Kingston, we saw daily 800 or 900 head of steers, cows, and old bulls, eating, or rather drink-ing, all they could hold of *slop*, and fattening as fast as any beasts we ever saw. More healthy animals could not be. We engage to say that every cowkeeper in London and its neighbourhood employs grains or wash for his cows, and the brewerics in Montreal and Lachine get rid of all their refuse for the same purpose.

Oatmeal.- It is a very curious thing that the quantity of oatmeal consumed by a man who lives principally if not entirely on it, varies with the kind of sul the oats grow on. Stephens says an ordinary week's consumption of a Scotch ploughman is 14 pounds, but it makes a great difference whether the oats come from clay or sharp gravels, in one case they do best for porridge, in the other for cake. Ap-parently, our Canada oatmeal does not answer so well in Britain as the Scotch meal:

"Iam pleased to see Professor Wrightson's remarks on oatmeal, and I think I can still further corroborate what he says. I referred in my provious letter to an article on the subject I had written in the Gazette some years ago; the said article was prompted by read-ing the remarks of an American medical man on the use of oatmeal as He had nothing but evil words food. for the same, and condemned it as totally unfit for human consumption. This was so contrary to the experience of generations of North-country men and to the teaching of our medical au-thorities at home that I set about looking up the matter, and I came to the conclusion that the American man's remarks were quito true about American oatmeal-the porridge made from it is entirely too thin, and if one wanted a variety which would stick to his ribs, and enable him to set his face to a day's work, he must "gang North" for a supply. Some fifty ye is ago Canadian ostmeal began to be import-ed into Scotland, but people who bought a boll of it for porridge and cakes did not like it, and though it

foreign meal, and between different 1) Se the sale of Mr. Barenda's Dairy samples of the home variety, are in-northorns, p. 169 of this number.-Bo. deed very striking, and I have no