"Book of the Farm", a publication every educated farmer ought to have on his table. So highly is it esteemed by those who know it, that the Com-missioner of Agriculture told me, last spring, that he had his copy in-terleaved, and had filled the leaves with annotations.

Wherefore we say: do not earth up your potatoes more than sufficiently to prevent their tubers from being greened :

KEEP SHEEP-Last year, we heard that a Mr. Bennott, of Massachusotts, had bought six or seven abandoned farms in the State of Vermont, and proposed to stock them with Hamp-shire-down sheep. The farms, we understood, were all in one block, and the system to be pursued was to treat the sheep just as they are treated on the best English sheep-farms on the chalk-hills of the southern counties. If Mr Bennett carries out his plan prudently; that is, if he secures a trust worthy shepherd, lambs down his owes early, and clears off his wether and surplus owe-lambs by the end of October, there is nothing to prevent him from succeeding. The land will soon change its character, under such treament. Horse-dung is good, so is the dung of well-fed beasts and swine, but give us sheep's dung combined with the consolidating pressure of the sheep's foot. We append a statement of the manurial contents of the dung, solid and liquid, of sheep and cattle respectively, which must be taken for what it is worth, as there is no speci-fication given of the food each class of animal received :

SHEEP-MANURE-10 TONS.

Nitrogen Phosphoric acid	31	٤.
Potash	241	46
CATTLE-MANURE-1	0 то	NS.

7	lbs. "
l	87 17 51

We trust Mr. Bennett will keep his flock in the hurdles (fold,, and not let them r am about, dropping their valuable manure under the trees and along the fence-sides. If he is to make a success of his enterprise, crops must be grown on purpose for the sheep. and w. should expect to see, were we to visit him, at least 100 acres in rape next summer

one of the judges, too, sends us the this department of the paper during following communication. We hope the twenty years we have been "rat-that next year, if the exhibition is thing about" in this editorial chair; held once more, there will be no room and so we hope we may be excused if

There is no management about the the way, the very best way to choke Montreal Exhibition Co. at any rate, as far as the judging and classifying of live stock is concerned. Whenever I applied for information, I was prompt by the individual applied to by a meat energetic disclaimer of any sort of knowledge of the matter in question, and referred to another indi-vidual whom I was never able to find.

awards given, so that the public can criticiso the animals and the judging. It ought to be a very easy matter to have a large slate, in the office, with any information about the hour and place of judging of different classes of animals, so that any one in the office, by referring to this, could give the desired information to an enquirer.

> Yours truly. 0. F. B.

SELLING HAY.—As a rule, calcula-tions as to the value of the fertilising materials sold off a farm in the shape of crops and cattle are rather vague; but we met with a calculation the other day that seems to us worthy of attention.

Of all things sold off a farm, we know that butter robs the land least, but jit will be news to many people that, of all the spoilers, *timothy-hay* is the greediest, though its depreda-tions depend greatly upon the state in "bick it is ant . when mown in the which it is cut; when mown in the earlier stage of its growth, timothyhay deprives he land of far less of its fortility than when, as is too often seen in this neighbourhood and in the Townships, the grass has been allowed to nature a great part of its seed before cutting; in which case, we hesitate not to say, a crop of the hay injures the land—if sold off—for more than will at first sight be believed.

VALUE OF THE FERTILITY SOLD IN \$160 уювти.

Eggs Wheat	\$3.56 42.28
Milk	42.28 14.08 11.04
Live cattle	18.88
Timothy hay	95.84

About 1,000 dozen of eggs would be worth \$160.00, and it would take, sny, 13 tons of the best timothy-hay to fetch the same sum.

CONTRIBUTIONS. - Dr. Hoskins, of the Vermont Watchman, is somewhat in the same position in which we find ourselves. He complains of a lack of contributors ! As for as we can see, by a weekly and attentive perusal of the paper of which he is agricultural editor, Dr Hoskins has about as many contributors as this periodical enjoys, rather fewer, perhaps, but we confess we cannot take the deprivation to pleasantly as he does in the subjoined paragraph :

THE EXHIBITION -A correspondent, we have " talked shop " very little in and so we hope we may be excused if for such complaints: "There is the same things to be said of the management of the Exhi-bition, as an ancient writer,(1) headed his chapter on snakes in Iceland." If this is a mistake, please tell us, and "There is no management about the Montreal Exhibition Co, at any rate, off a garrulous editor is to send him

vidual whom I was never able to find. All the judging of live stock should be done on the first day, and the of all breeds in all stages of milking. fat", vary in mirk. The difference fat alone of \$111 a month on each calf TURNIPS --Talking of turnips, out between samples of milk, f.om cows was effected by substituting the ground brother-editor, Ex Governor Hund, of all breeds in all stages of milking, flaxseed. 5. The cost of producing a speaks very highly of these roots as practically resolves itself into varia-pound of gain testimating new milk at a food for milch cows, but he falls into

tions in the proportion of fat contained; overything else varying within very narrow limits.

For instance; take the milking trials of the British Dairy-farmors' Association, and look at the milk-analysis of two cows, a Shorthorn and a Jorsey, at opposite extremes:

SHORTHORN'S MILK.

Fat Othor solids	
Total	11.6
JARSEY'S MILK.	

Fat	9 49
Other solids	9.79

Total.....19.28

That is, while the fut varied from 2.1 up to 9.49, the "other solids" only varied from 9.5 up to 979; or, in other words, the fat varied about 25 times more than the "other solids."

Again, take the milk of the cows tested at the Chicago show. The two months average was.

SHORTHORNS' MILK.

Fat Other solids	
Total	12.63
JERSEYS' MILK.	
Fat	4.79

Other solids...... 9.25 Total..... 13,99

The difference in the fat is 1.11, and in "other solids" 0.25-i. e., the fat varied four and a-half times as much varied four and a nair times as much as the "other solids", and, as a na-tural result, the *casein*, which consti-tutes rather less, as a rule, than half the "other solids," must have been almost constant.

Whonce, it appears fair to draw the conclusion that the amount of cheese yielded by a given quantity of milk, varies according to the *fat* contained lysis of the turnip or swede showed in the milk-always presuming the su h or such to be the contents in ni-maker understands his business enough to keep the fat out of the whey-tub. to keep the fat out of the whey-tub.

SKIM-MILK AND LINSEED FOR OALVES. The Experiment-Stations in the more assuming their proper position, United States have at last found out a and even one of the leading authori-United States have at last found out a fact that the readers of this periodical wore aware of as long ago as Septem-ber, 1879; namely, that linseed, uncrushed, given to any animal, is more than half wasted. Mr. Stewart, we are surprised to see, still advises giving calves "linseed, boiled 20 mi-nutes, mixed with skim-milk," but the Iowa Experiment Station managers are wiser:

· Following is a summary of results pares favorably with a new milk ration for young calves. 2. The larger gain came from the whole milk, but a part of it was due to the individuality of the calves, and good results and a thrify growth were made on skim milk and ground flaxseed. 3. The skim milk calves vero interrupted less in their growth by weaning that the whole milk calves. 4. A saving in value of butter

871c. per 100 lbs., grain 1c. por lb, hay \$5 a ton, and flaxseed mual 31c. por 1b) was 7.6. c. for the fresh milk ration and 50. for the skim milk

We fatted calves for the London market, some 45 years ago, on this ration, and sold them well, too.

FERTILISERS -In using commercial fortilisors, which we hope and trust we are beginning to do on a more extensive scale than heretofore, it must not be forgotten that, in such a cli-mate as ours, the soil is more depen-dent upon the mechanical condition of its particles for retention of moisture than in those climates in which the rainfall is more equally distributed throughout the season of plant-growth. Uso commoroial fertilisor abundantly, by all means, but do not forget that the value of the chemical ingredients of farmyard manuro is vastly en. hanced by the mechanical effect of such a bulky addition of organic matter on the soil. It is to the heavy dress. ing of dung that the forwardness of the crops of vegetables in our market gardens is due; for the lund is made by them freer; more easily traversed by the plant-roots, and the colour of the soil being considerably darkened, it becomes more capable of retaining the ray-heat of the sun. So, use as freely as you please every kind of artificial manuro you can buy at a fair price, but do not neglect your farmyard dung.

PRACTICE.-Really, practical acquain-tance with all matters connected with agriculture is being recognised as pos-sessing some value at last! Not four years ago, the psoudo-scientist was howling at us practical men for trying to promote the cultivation of the swede, mangel and other roots : What earthly good can there be in growing things that contain 99 no of water, they cried! It was in vain that we called atten-tion to the fact that 9/10 of the grand bullocks that came from Aberdeenshire to the London market were fattened on turnips, swodes, and straw; the anathese ?"

Now, this is all altered, common sonse and practical knowledge are once ties of the States has the courage and honesty to say :

These conclusions correspond with the experience of every careful and observing farmer and farnish a scientific reason for the many perplexing exceptions which seem to disprove every rule They also furnish a hint to feeders and a possible solution of some of the observed anomalies which rise up every now and then to dis-hearton the careful student of the relations and offects and value of feeding stuffs A food, turnips for ins-tance, or silage, may have a feeding value, in its effects upon other foods, or upon the digestive organs of the animal, not measured by the amount of nutries contained, just as the bonoficial offect of a manuro or other fortilisor is not limited by the quantity of plant food contained in it. HOARD.