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# Notes by the Way,

Fall-wheat.—Mr. David Commonly Montrealor knows, has bought a large farm - about 250 acres-at River-Beaudette. He did a acres—at River-Beaudette. Ho did a bo'd thing last autumn, when he sowed 4 acres of wheat, which we hope will turn out well, but the thaw in the latter part of December, follow. ing the zero weather in the carly part of that month, is against it. Another thing: the reed was put in broadcast, in this and therefore not deep enough, as it beans.

could only be covered with simple har or drilled in from 3 to 4 inches doep.

We advised Mr. Crawford to harrow his wheat as soon as the land is dry enough in the spring; then, the grass-seeds should be sown and the roller passed over the piece, which will bury them quite deep enough.

The farmers in the Côtean district, Mr. Crawford tells me, are very anxious to improve. Unfortunately, there is no Agricultural Society or Farmer's Club there, but they have applied to the Ottawa Government for a lec-turer, and it scems that M. J. C. Cha-pais is expected to pay them a visit before long.

As to cattle, Mr. Crawford proposes to introduce some theroughbred Shorthorns, from Ontario, but, as it is a dairy-district, he had better be care-fal in his colection, for the milking Will no one ever get a small hord of the true Dairy-Shorthorn by way of a beginning?

> "Hoard's Dairyman "---and the end of the cow-had, in one of its later of the cow-ind, it one of its later issues, a paragraph that rather aston-ished the as a structure of the feeding of veal-calves or the fattening of old cows. He can put new milk and feeding stuffs to more profitable uses in the manufacture of butter and cheese."

What is to become of the bull-calves, then ? And the old cows; are they to be knocked on the head and he does not keep Jerseys, but the sadly maligned Dairy Shorthorns, of which Hoard has so mean an opinion.

> Mr. Horsfall buys strippers, or cows some six months after calving, and, by judicious feeding, so increases their yield of milk as to make a fair profit out of this alone, and also to increase the weight and value of the carcass in the weight and value of the carcass in six or eight months, so as to sell them for 50  $\gamma_0$  more than what they cost him. As the late E. W. Stewart said. A system that can produce milk profitably while fattening the cow, must have some merits worthy of adoption.

How to treat old cows.-This system must of course depend upon the condition of the cow being kept up while giving a large yield of milk. The rations given to Mr. Horsfall's cows are compounded of the following matariala

matoriais.		
Food For six cows (for 19 Per day.	€1 da	J6).
Meadow-hay	56	lbs.
Rapo cake		41
Mult commins	9	61
Bran.		"
Bean-meal	9	a
Roots, eto		46
Oat straw	50	"
Bean-straw	12	"
	379	lb•.
Equal to 63 J lbs. per head Pease meal and pease-str.	aw -	may
in this country take the	place	e of

Of these six strippers the following rowing. Fall wheat should be ploughed is the yield of milk during 191 days, or drilled in from 3 to 4 inches deep. and their respective gain in live weight:

No. of cow.	Total	Yield.	Gain in weigl
	days.	lbs.	lb <b>s</b> .
1	203	5,202	84
2 3 4 5	189	7,749	140
3	217	8,354	168
4	175	6,725	28
	175	5,833	56
6	189	6,652	28
Average of , a'l.	21	6,752	84

To say nothing of the value of the duog, which at the usual price o \_\_\_\_\_\_\_ house dung in London was certainly worth \$14.0 a cow. Professor Way, who analysed the manuro from these six cowe, returned the following statemont:

Nitrogen	414	lbs
Phosphoric acid	393	4:
Potash	585	"

should be worth \$87.38 : as for valuing the nitrogen, etc., of dung at the same price as in commercial fertilisers, that is an absurdity that no one but a pure theorist would ever fall into.

Wheat in Britain.-Ninety-five °10 of all the wheat grown in Britain is produced in England. Even in Wales, one-third more wheat was grown than one-third more wheat was grown than in Scotland, in which latter country, in 1895, there were only 33,641 acres of that cereal. Trust Scotland for knowing her own interest: cats pay better than wheat nowadays, though the average wheat-crop of Scotland is generally 35 bushels an acre to En-gland's 30.

### POULTRY-MANURE.

Comparison with guano-Poultry-food - Composition of guano-Value-

Anderson's analysis of poultry-dung, &c., &c.

Guano is the dung and urine of sea-fowls feeding on fish alone. It is, ex-cept in the upper layers, of unknown age, and heat and pressure—by its own weight—have combined to con-dense and solidify it.

Poultry, on the other hand, feed on grain and szeds with a good deal of other vegetable matters, such as grass, other vegetable matters, such as grass, cabbage, &c.; their droppings are recent and raw, and instead of con-taining only 7  $\gamma_{10}$  to 8  $\gamma_{10}$  of water, like guano, they rarely contain less than 50  $\gamma_{10}$ . The two chief manurial constituents of both poultry-manure and guano are ammonia and phospha-ter of impounders in contain less than the second s to of lime, potash is present in each, but in such very small quantities that it may be left out of our corsideration.

The following shows the analysis of a good sample of Pornvian guano as it is found to day, and its value, at present prices, per ton of 2000 lbs.

Ammonia 12  $o_{lo} = 240$  lbs.,

 $30^{\circ}i_{\circ} = 600$  lbs. at 2 ots... Potash  $4^{\circ}i_{\circ} = 80$  lbs. at 4 cents.....

\$28.80

5	Dr Uro's analysis of Peruvian gua no in its best days, when it gave $14 \circ_{l_0}$ of nitrogen = 17 $\circ_{l_0}$ of am- monia, stands thus :

Wator	7.83
Organic matter containing am- moniacal salts Chloride of codium, sulph. of	59,85
soda, phosph. of potash Phosphates of lime and magno-	12.24
eia	15.15
Carbonate of lime	.97
Sand and other impurities	3.39
-	99.43

Now, let us see what the composi-tion of *hen's dung* is, according to Anderson, chemist to the Highland Society of Scotland :

Water	60 38
Organic mat <sup>*</sup> or and am- moniacal salts	19.22
Phosphates	4.47
Carbonate of line	7.65
Alkalipo salts	1 09
Sand and other impuri-	
ties	6.69
· .	100.00

So, in a ton of guano — quality as above — compared with an ton of hen's dung, there is only  $\frac{1}{2}$  as much water, but, in revenge, there is 16 times as much ammonia, and many times as much phosphate of lime.

The analysis of mixed horse, cattle-and pig-dung, by Voelcker, pere, chemist to the Royal Agricultural Society of England runs thus :

Water Organic matter	
Inorganic do	5.59

### 100.00

Containing ammonia.. .78 Phosphate of lime... 12.23 Potssh ..... 12.14

All these samples were collected in a fresh staie, and analysed after being dried at 212° F.

Well might Prof. Anderson conclude his report to the Highland and Agriultural Society of Scotland with these words. The three kinds of poultry-dung : hens', geese', and ducks', hard-ly, if at all, exceed farm yard manure in value.

Feeding milch-cows .-- All the Montcoal milkmen whom we have met say that they feed their cows four and some of them five times a day.

Mrs Jones of Brockville, one of the most successful of dairy-women, feeds her Jersevs as follows:

In winter, the stalls are cleaned out at 5 A. M., the cows are brushed off, and each receives a feed of silage with the proper quantity of meal and bran mixed with it, according to the milk they are giving. They are then milked, each gets an armful of hay, and the hands go to breakfast.

Towards noon, they are watered, and on returning to the stable, each oow finds a feed of sliced roots in her box with a handful of moal or bran

sprinkled over it. At four P. M., they are all offered water in pails, and receive their second

feed of silago and meal. At five P. M., milking, begins, after which each cow receives a liberal feed 12.00 of hay and fresh bedding, and is then 3.20 left for the night.

At any rate this makes four feeds a \$44.00 day, at least.

# MISCELLANEOUS.