The Management of Sows.

EDITOR CANADA FARMER:-The March number of the FARMER contains directions for preventing sows from overlying their young ones. For young sows with their first litter, such directions are doubtless good, but, when a is turned into pork the better. Some sows are very caresow shows a disposition to overlie her young, the sooner she less, and lie down without manifesting the least regard for their pigs, while others are quite the reverse.

I once had a sow with a litter of eleven young page, and I have watched her lying down meh by meh, and, if a young pig got between her back and the wall, she would raise herself a little to allow the little pig to escape, and l have just such another careful sow at present. A few years ago one of my neighbors, one of the sort who let their sheep and pigs run about and get their living during the summer on the roadside, had an excellent store sow. She was allowed to make a place for herself in the straw stack, where in the fall she had a litter of el-ven pigs, and early the following spring, thirteen pigs and reared them all.

Although sows especially of the improved breeds, should be rather under-fed most of their time, yet they should be well fed for about a fortmost before they are expected to farrow, to get them in heart, and secure a good supply of milk for their pigs. Some sows are naturally inclined to put all they eat on their own backs instead of giving it in the shape of milk for their young. Such sows are only fit to make pork of. Occasionally a sow will devour her young as soon as they are produced, when she will soon be in heat again, and should have a meal of fresh animal food the evening before she is expected to farrow. A man must watch all night, to prevent her following such an unprofit able habit.

When a farmer has a sow which is a good breeder and nurse and careful mother, I see no reason why he should not keep her as long as she continues to breed well, as he never can be certain that her progeny will inherit her good qualities in these respects. I once had a sow that produzed sixteen pigs for her first litter, twelve alive and four dead, and reared eleven. The next litter she produced eighteen, all of which were found lying about the floor, deac in the morning. As I left the township where I was residing about that time, I sold her to a neighbour and afterwards heard that she twice produced large litterstwenty-four on one occasion, but always dead, so that her owner was, though unwillingly, obliged to fatten her Some of the first litter I sold to neighbors who wished to get that breed, but none of them had more than seven or eight at a time. I do not know what breed she was, but she was from a stock brought from Newcastle, England, a year or two before.

SARAWAK.

Economic Horse Management.

(Continued from last month.)

Scientific and practical observation are thoroughly in accord as to this fact (viz., that the exclusive use of oats for very hard-worked horses is injurious and expensive), the truth of which was forcibly demonstrated at a colliery in Durham to which I was called some time ago. The output at this place was decreased from 15 to 20 score per day through the horses being unable, from want of condition, or I may say from positive debility, to get the work out. These animals were miserably poor, though allowed 168lb. of oats and 154lb. of hay each per week. The oats were not crushed and the hay was not chopped. The horses were all large; none under 16 hands, many 16-2. They worked very long hours and took heavy loads, but 1 confess I was astonished at their appearance after many months of such apparently liberal feeding. On Sept. 1st their food was changed to the following:

Crushed Peas, 35 lbs, at 34s. per qr 10. Barley, 20 lbs, at 23s. per qr. 10. Oats, 40 lbs, at 23s. per qr. 11 lbs., at 7 per stone 11 lbs, 7 stones, at 9d. per stone	8. 2 1 3 0 5	d 4 3 4 7 1 3
The old plan giving us	12	9}
Oats, 169 lbs., at 25s per qr	s. 14 8	d. 0 3
41	- <u>-</u> -	-3

a difference of 0s. 51 per horse per week,

Notice, too, that besides this saving in money, the digestive organs had 28 lbs. less hay and 50 lbs. less corn to digest; or

Mixed grain 100 Ha Hay 98

Old has 154 "

207 Hz.

122 1165

Within three months this stud of horses was in execuent health and condition, drawing out of the pit, with no application of engine power, from 20 to 50 scores more per day than when I first saw them. There were 149 horses on the colhery; so by this change a saving of £3,662-12s. 13d per annum was effected. With this one might be satisfied, but I claim that the increased work performed, and the increased value of the animals, must be considered, it not added in Co. d. The marvellous change effected in this stud is to me conclusive evidence that outs can no longer usurp the position of being the best food for hard working horses. If our choice is hanted to a single kind of grain, oats are certainly the best. Experience has settled this point, and science explained by howing that the essential food constituents of oats are in better balanced proportions, and in a more disestible state, than in any other grain; but we find that there is a degree of work sometimes exacted from horses which outs are not able to meet, but which can be met by well selected mixtures or grain. Not only are these mixtures equal to the task of balancing the excessive waste of the system induced by hard work, but they do so at a less cost than that at which oats fail to preserve the balance.

But my plan does not rest upon this one case, nor is the

question of feeding economically thus easily disposed of I am not prepared to lay down a definite mixture as being in all cases and at all times the best and cheapest. We have just seen that not only must the chemical and phy stological value of a food be known, but also its money value; and this changes constantly. So that we must thoroughly indepstand each article of food in its threefold t, and thus be enabled to take advantage not only of the best, but cheapest. Before, however, we consider each article of provender in detail, I will draw your attention to some rough analyses of various kinds of grain, which it is believed throw some light on the question of selection. dess amount of husk than in any other year. It was all the produce of 1868, and I am disposed to think the duter-nce is due rather to the husk leaving the kernel cleaner mee is due rather to the husk leaving the kernel cleaner and easier than to a positive decrease in its quantity. This idea derives some force from the fact that 1868 was very line and hot; corn was well ripened and well gathered. In carrying out these experiments we found it incressary to use three stones of each kind of grain, because the miller would not allow all the grain to run oil the mill stones before adding more, which caused the grain to be more or less mixed with that which had proceded it in the mill. To prevent contamination we first allowed to the mill. To prevent contamination we first allowed to the mill. To prevent contamination we first allowed to the mill. To prevent contamination we first allowed to the swept it away and collected 14bs, of the pure grain. This was carefully sifted through a fine sieve, and both husk and flour separately weighed, so as to make sure that we had flour separately weighed, so as to make sure that we had flour separately weighed, so as to make sure that we had some season, after the first year. Cattle should not be turned upon it, but it ought to be ent one day and for the next, or cut in the morning for the evening feed. Thus it is at all natural; and although they may ready be in a measure truthful, still they are not satisfactory, being a representation of the animal from a lower point of view than is at all natural; and although they may ready be in a measure truthful, still they are not satisfactory, being a representation of the animal from a lower point of view than is at all natural; and although they may ready be in a measure truthful, still they are not satisfactory, being a representation, still they are not satisfactory, being a representation, still they are not satisfactory, being a representation, still they are not satisfactory, being a measure truthful, still they are not satisfactory, being a representation, still they are not satisfactory, being a measure truthful, still they are not satisfactory, being a representation, still they are not satis und flour separately weighed, so as to make sure that we had correctly got 14 lbs. of the sample.

TABLE SHOWING THE WEIGHT OF HUSE IN VARIOUS GRAINS.

		Natural Weight per Imp. Bushel		of Hust n of each
-		lbs.	Ibs.	oz
1.	Libe orts	41	5	o ž
2.	Swedish oats	395		63
O.		40}	5 5 3 4 4	9}
4.	St. Petersburgh oats	401	3	144
5.	Short Scotch oats	41	4	6
G	langlish outs	414	4	6
7. S	Irsh posto outs	₹ 2 §	4	1
S.		41}	-4	12}
IJ,	London bar eyes	.013	U	11"
10.	Danish barley	54	0	15
11.	Tag mrog barley	49	2 1 1	6
12,		62	1	6
13	bgyptran small beans		1	8
14.	Lavetina large beans,	59	1	194
15	linga tares	68	0	10\$
to.	Hamburg	57	0	11}
17.	Linchsh tares	65	0	19
18.	Canadran white peas	t 6j	0	74
11	handsberg white peas	61}	0	81
.0.	Kænigsberg blue peas	Gis	0	ร์
41	Odessa maize	591	Ó	8] 8 6] 5} 5
22.	Italian maize	60	Ó	55
23.	American yellow maize	62	o	5

Now, remembering that the husk of gram is nearly, if not entirely indigestible, this table shows us at a glance which food contains the largest amount of indigestible material.

(To be continued.)

Lincoln Sheep

EDITOR CANADA FARMER: - Would you or some of your subscribers give a description of the Lincoln sheep? In what do they differ from the Leicester and Cotswold? Are they smooth or woolly between the eyes? Woolly or smooth below the knees?

The old Lincoln, which is probably now extinct, was an ungainly animal, with long, than body, coarse bone, potbelly, and razor-back; slow to mature, producing ceargegramed flesh. In those days they were prized only for the beautiful lustre of their wool, which lustre, it was found, was partly owing to the climate, as Lincolns brought from Lincolnshite partly lost their lustre, while other breeds taken into the country acquared it to some degree. It is doubtful it there be a pure Lincoln now in excitence, the breed having been immensely improved fifty years ago by crossing with the Bakewell Leicester. By this means, a breed was obtained of letter proportions, quicker to mature, and producing matten of better quality. About the same time, the Bakewell Lecesters were used to cross the Cotswolds. They are woolly between the eyes and smooth below the knees.

Comparing the three breeds together, the Lincoln will werage the most wool, and of the best quality; a fair iverage for a flock being eight and a half pounds, against the Cotswold's eight pounds, and the Leicester's seven pounds. At fourteen monthsold, the Leicester will weigh 126 to 140 pounds; the Cotswold 168 to 182 pounds; and the Lincolns, 120 to 140 pounds. The Lincolns are not usually fit for the butcher at that age, they being generally kept until they are 22 to 28 months old, when they will weigh 32 to 40 pounds per quitter, and will have given another fleece of from 10 to 15 pounds of washed week,

Phorodramus Shormorss. There appears to be a At different times during the last six years we have engaged Messrs. Ferry s Steam Mills, at Easington, for the lay, and have personally superintended the grinding, sitting, and weighing of the following grains, to ascertain the proportion of husk. The different results of each of the six years is so slight that I shall only ofter the results of lained in 1868, as a fair average. I may just mention that a lained in 1868, and I am disposed to think the different produce of 1868, and I am disposed to think the disposed to think the disposed to think the disposed to think the disposed to the disposed your photographs are altogether elevations, consequently the body always shows a deficiency in depth, and the leas are more conspicuously displayed than is at all natural; and although they may ready be in a measure truthful, still they are not satisfactory, being a representation of the animal from a lower point of view than is taken by an observer. Medicing Anicollural Greette

> turned upon it, but it ought to be cut one day and fed the next, or cut in the morning for the evening feed. Thus it is fed wilted and is more digestible, less bulky and better relished. It should be fed green to horses in small quantities, to cattle freely. Cut for high it should be treated like red clover, and allowed to grow to its full height and begin to blossom. You need have no fears of its hurting any animal that will eat it, provided it be fed dry or witted, and moderately. No doubt horses allowed to feed off it would be thoroughly weakened and absceded. feed off it would be thoroughly weakened and physicked; eattle unaccustomed to it turned upon a field would no doubt be bloated, and die of hoave, as they would on red clover; but fed judiciously there is no better fodder crop when it succeeds well,— N. Y. Tribunc.

> TRANSFERRING CATTLE TO HOT CLIMATES. -Imported Transferring Cattle to Hor Climates.—Imported cattle, or cattle taken into an entirely different climate from that in which they were brief, seldom show the same degree of excellence as they possess at home, unless given special care. Old cattle frequently die before getting a climated. This is strikingly illustrated by shipping them South, especially in the spring of the year, if the animal is fat. The arterial system first takes cognizance of the changes the indisting increases to twice its normal animal is lat. The arterial system line takes cognizance of the change; the pull-ation increases to twice its normal rate, fever is engendered, and death ensues. Cattle to be taken from the far South to the North, should be shipped in May or June; from the far North to the South, in September or October; for the reason that the change of temperature is not so radical as it would be to reverse this order. The younger the animal, if old enough to wean, the less danger from these causes, and that danger is soonest past. To avoid this necessity of transportation and consequent risk, some enterprising farmer in every neighborhand could with profit and at reasonable rates ruse balls from pure stock of the different types or breeds, for the accommodation of the wants of the farmers of his vicinity. --D. W. Dake.