cake, linseed cake, lentils, beans, barley, oats, and maize. They were also receiving roots and hay. What upset the sheep? The over-proportion of fleshforming substances contained 'n the first four as compared with the fatformors. Why? This brings as back to the shepherd's remark : the sheep are making blood "too fast." They are making blood 'too strong, "When there is an undue proportion of flesh-formers in the food there is risk of too natch of the nitrogen contained in them becoming taken up in the blood. When blood becomes surcharged with nitrogenous matter it "presses on the brain." The shepherd notices the effect of this, as the sheep becomes listless and dull. The shepherd knows nothing about the nitrogen, but he knows that if the sheep is left to itself it will most prohably die a painless death in a little time. It will, because, unless the pressure is relieved, it will cause paralysis, the brain will become congested, and hope of recovery is very remote. The shepherd very properly "weakens" the blood by taking some away. If he is in time the sheep may be saved; if congestion has taken place, it is very unlikely that it will live. This points to the necessity of bleeding promptly. If the sheep does not recover, it is a mistake to leave it unwatched, as it may die at any moment. In all bad cases it is best to convert the sheep into good mutton rather than risk its dying and becoming useless. The farmer recognises that the sheep are "doing" tco fast, and orders the corn to be knocked off all the sheep in the same fold for a day or two. This is correct when the effect of the overdoing is noticed. It is better, however, that the ailing should be avoided. It is not necessary although the sheep are fed at high pressure. Sheep for exhibition purposes are fed highly, but good shepherds rarely lose one from this cause.

It is well to notice under what conditions the allment presents itself. When lambs are receiving their mother's milk in addition to grain "ad lib.," provided that grain is not too nitrogenous. they do not suffer in this way. One reason for this is that their frames are growing rapidly, and a considerable amount of food is required to build them up. A fattening teg (1) has little frame to build up. It is less frequent when sheep are being fed on soft green fodder than when they are on roots, because the congestion is doubtless somewhat induced by stomachic troubles. and chunks of mosts involve more stamach work. Large lumps of cake irritate the stomach, and point to the necessity of giving it in finer ple-These conditions do COS. not influence the wholly weakness : they only predispose the animal to it. The real cause must be looked for in the excess of nitrogenous matter in the concentrated food. In the mixture quoted earlier in the article, cotton cake, linseed cake, lentik, and beans contain a large proportion of nitrogen; oats a rather high, barley and maize a low percentage. The albuminoid ratio, although one which is not a thorough guide, reveals much that is advantageons to follow within certain limits. In building a house it is necessary to have at hand bricks, mortar, wood, &c. ; but extra labour is involved when twice as many bricks are brought together as are required. So, with feeding mixtures, an excess of nitrogenous matter is waste; and worse-it is inju-

(1) When a lamb is weared it be-Milch-cows, per head, £15 to £22. comes a teg.-Ed.

llous, as it throws an excessive amount of work on the kidneys, and if they do not succeed in getting rid of the surplus it renders the blood unhealthily surcharged with it. If there is a great xcess of carbonaceous matter there is waste, because of the deficiency of nitrogenous matter to work up with it.

When sheep that are being forced by large quantities of concentrated feeding-stuffs suffer from paralysis it is a sure sign that there is too much nitrogen in the food, and the nitrogenous foods should be partly withheld. It is better to prevent than to cure. Feeders should, therefore, use such substances as contain a moderate amount of nitrogenous matter. The topping-up of animais consists largely of laying on fat, for which fat-producing foods are best adapted. Linseed cake, when given in moderate quantities, is an excellent, almost a typical food, but if given at becomes risky. The oil it contains is beneficial not only for the fat which is produced from it, but it tends to keep the bowels open. A much better and sifer mixture than the one quoted would be made by taking out both the lentils and the cotton cake. The maize and barley should certainly be retained. Whenever the corn is stopped for a day or two the sheep receive a check they do not get over for several days; the object, then, of the feeder should be to force the maturing of his animals by giving them foods which will merease their weight safely. This is not the case where the food is of too nitrogenous a nature.

W. J. M. "Eng. Ag. Gazette."

FARMERS' SYNDICATE

OF THE

PROVINCE OF QUEBEC,

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. . . LONDON MARKETS.

	Mart Innon Drings ourrout Sa	nt	St.b
•	Shirk land. Frides Current, 60	p.c.	oui
	Mark lane: Prices current; Se Wheat, per 501 lbs.; British.	.	. 8.
l	White	28	32
L	Red		31
5	London flour per 280 lbs	28	-
1	Rarley, malting	34	45
•	Barley (grinding)	18	19
,	Oats, English per S bushels	15	29
l	Oats, English per S bushels White pease	32	36
Ŀ			

FOREIGN

Wheat—Manitolvi Canadian white pease	30	32
Canadian white pease	-	25

BEASTS.

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Scotch per sto	ue of S	lbs	4
Herefords	do d	lo.	4
Wash (runts)	do	do	.4
Shorthorns	klo	do	4
Fat cows	••••		3

SHEEP.

Sinall Downs per stone of S lbs., 5-6 Half-breeds and Scotch do do 5 6 Lamb trade over. Calves nominal.

BUTTER.

Fresh, (Finest factory) per doz. lbs.... 12.6 to 14.6 English Dairy-butter fresh.... .varies Irish (creamery)114s. Danish... 125s.

BACON.

Canadian 35 44 American... 48 49 Ir'sh hams (small)... SS Hay, per load of 2016 lbs..... Prime meadow.... 88 Prime clover... 90 95 Straw, per load 1296 lbs... ... 34 36 Hops from 550s. to 105s. per 112 lbs.

Notes by the Way.

FLAX is said by some not to exhaust the land more than a crop of oats does; but, there is one thing in which oats and tlax differ. Whereas oats are, genemlly speaking, consumed on the farm, both grain and straw, flax is, generally speaking, sold off the farm, both grain and straw. Hence the old clause in most farm-agreements in the South-East of England; that no flax be grown on the farm.

GRASS IN STUBBLES.-Where early full-ploughing is practised, a great blot is that the grass in the stubbles is hardly ever buried out of harm's way, (I) and, if the weather of latter autumn proves fine, it grows freely and hinds the furrows together, giving a vast deal of trouble in spring to tear them asmder. We were mightily struck with this at St. Therèse, last month, and pointed it out to our friend M. Bouthillier, who asked for a remedy. We strongly advise him, and all other farmers who wish to have their hand work freely in the spring, to fix a "knife," as it is called in Kent, i. e., a small would board, just behind the coulter: (see tig.) this is set so as to pare the top of the furrow about 2 inches wide by 11/2 inch deep, which slice the real mouldboard turns over and Throws down to the bottom of the furrow, thereby amothering the grass and entirely preventing its future growth. Of course the use of this addition to the plough presupposes that the land is free from stones.

FRUIT.--If grapes can be sent from Australia to England, arriving there with both bloom and flavour intact, though three months from port to port, then, as says the "Farmer's Advocate?" Why not from Canada?

RAPE.-We cannot approve of sowing two crops together, except as in the case of grass-seeds. But, to sow rape in a crop of oats, seems to us an in-

(1) This does not mean conch-gra or aultch.-Fd.

s. d. fringment of good practice. If the harvest is any other but a very dry one, how on earth are the butts of the sheaves ever going to be fit for carting? We, and most farmers would agree with us, say : if you grow oats, give the oats a fair chance to do their best, if you want rape, sow it at the proper season, and you will have "splendid feeding for the sheep," and a good chance of cleaning your land into the bargain.

> THE DODDER.--F. C. writes, from Yarmouth Co., N. S., to the "Farmer's Advocate," as follows :

INFORMATION WANTED RE CLO. VER TROUBLE.

To the Editor "Farmer's Advocate :" SIR,—I romember reading in the 'Farmer's Advocate" a few years ago something about a weed, or little vine, that says the clover. I noticed some spots in my grass last season; they have spind considerably this year. I can see no roots that enter the ground, but it clings and mats on to the clover. I presume plenty of salt would kill out little spots ? Would fall plowing and some other crop next season destroy it? I think it came with the clover seed.

F. C. Yarmouth Co., N. S.

This troublesome parasite is the Dodder," (Cuscuta Europea) and a destructive pest it is. As the enquirer says, it "clings and mats on to the clover", and is introduced with the seed. We should advise great care in purchase of clover seed, and should feed very much inclined to burn the aftermath. We had a small field of redciover seriously injured by dodder in. or about, 1849, in England, but after the crop was consumed, it never reappeared. We have never met with it on this side of the Atlantic.

AYRSHIRE AND JERSEYS .-- A prorosal to make a permanent breed of cattle, by persistent crossings of these two races, we saw in a farm-paper the other day. Now, as Henry Stephens, in his invaluable "Book of the Farm" says :

"Attempts have been made for some years past to cross the Alderney with the Ayrshire, in both ways, putting the Alderney bull to the Ayrshire cow, and the Ayishire bull to the Alderney cow, but the endeavours to imlinte the form of the Alderney cow have not succeeded, and the result has rather tended to produce in both progenies the inferior points of both breeds, as might have been expected ; for the Alderney bull has not so good a frame as the Ayrshire cow, nor has the Alderney cow so good a constitution as the Ayrshire bull. The light weights have been attained by the reprehensible practice in all breeding-by starving the young helfers, with the avowed object of making them good milkers, whereas its direct tendency is to injure the constitution of the milking stock. On the contrary, were the heifers bred and recured so as to attain heavier weights and greater substance, they would not only prove better milkers, but afterwards feed to greater weights. The paramount object of the Ayrshire breeders, for profit, ought obviously to be to obtain the largest quantity of rich muk. with the greatest disposition to fatten." Of course, the "Alderney" mentioned here stands for the Channel Island breeds in general. If any one of them