AND NORTHUMBERLAND, KENT, GLOUCESTER, AND RESTIGOUCHE COMMERCIAL AND AGRICULTURAL JOURNAL.

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Nec aranearum sane textus ideo melior, quia ex se fila gignunt, nec noster vilior quia ex alienis libamus ut apes.

Miramichi, Tuesday Morning, October 18, 1842.

## THE GLEANER.

Agricultural Journal. From the Magazine of Domestic

Economy.

The relative value of different kinds of Food for Cattle.

It is of great importance to farmers to know the comparative value of the various articles of food consumed by Oat Straw cattle, in order to raise the most profitable, and the one best suited to the soil they cultivate. We have received frequent inquiries on this score, and, having met the following analysis in the last number of the Journal of the Royal Agricultural Society of England, to which valuable work it has been contributed by the Rev. Wm. Rham, of Winkfield, we transcribe it, in order to diffuse such desirable information among our readers engaged in farming: Mangold-wurzel

'As the following table of the comparative value of different kinds of fodder in feeding cattle may not be Cobl kalis generally known, I have translated it from the French. It has been published by M. Antoine, at Nancy, and is the result of experiments made by the principal agriculturists on the Continent - Thaer, Gemerhausen, Petro, Rieder, Weber, Krantz, Andre, Block, De Dombasle, Boussingault, Meyer, Plotow, Pohl, Smee, Crud, Schwertz, Pabst. It is unnecessary to give the figures which each of these experimentalists has set down; but the mean of these experiments being taken, there is more chance of their result being near the truth. Allowance must be made for the different qualities of the same food on different soils and different seasons. In very dry summers the same weight of any green food will be much more nourishing than in a dripping season: so likewise any fodder raised on a rich dry soil will be more nourishing than on a poor one. The standard of comparison is the best upland meadow hay cut as the flower expands, and properly made and stacked without much heating; in short hay of the best quality. With respect to hay, such is the difference in value, that if 100lbs. of the best is used, it will require 120lbs. of a second quality to keep the same stock as well, 140lbs. of the third, and so on, till very coarse and hard hay not well made will only be of half the value, and not so fit for cows or store cattle, even when given in double the quantity. While good hay alone will fatten cattle, inferior hay will not do so without other food.

I shall give the table as it stands, and add the notes which accompany

O TO VICTORIA COMPANIA CONTRACTORIA	lbs
Good hay is equal in nourish-	
ment to	100
Latter math hay	102
Clover hay, made when the	L BELL
blossom is completely deve-	
loped	90
Ditto before the blossom ex-	lide
pands	88
Clover, second crop	98
Luconno hom	10年10年1
Sainfoin hay	89
Sainfoin hay Tare hay	91
Spergula arvensis, dried	90
Clover hay, after the seed	140

Green clover Vetches or tares, green 275 Green Indian corn Green Spergula 425 Stems and leaves of Jerusalem 325 artichokes 541 Cow cabbage leaves Beet-rcot leaves 600 Potatoe halm 300 Shelter wheat straw 374 Rye straw 442 195 Pea halm 153 Vetch halm 159 Bean halm 140 Buckwheat straw Dried stalks of Jerusalem artichokes 170 Dried stalks of Indian corn 400 Millet straw 250 Raw potatoes 201 Boiled ditto 175 White Silesian beet 220 339 Turnips Carrots 276 Swedish Turnips 308 Ditto, with the leaves on Grain .- Rve 54 Wheat Barley 54 Oats Vetches Peas 45 Beans 45 Buck-wheat 64 Indian corn 57

Dried Canada poplar leaves 67 In London a load of new hay weighs 20 cwt., of old hay only 18 cwt. Spurney (Spergula arvensis)is excelpidly, and makes a good intermediate

French beans, dried

Chesnuts

Horse chesnuts

Sunflower seed

Acorns

Wheat, peas, and oat chaff

Rye and barley chaff

Dried oak leaves

Dried lime-tree leaves

Linseed cake

Wheat Bran

Rye bran

32

62

.105

109

167

179

73

53

where the sap is more diluted. When half., and consequently more than touched by the frost, they become when boiled. very unwholesome, and should never | Every kind of cattle eat turnips ex-

146 it has not yet been much cultivated in horses, and when boiled will fatten cool also; and, like the warm currents

410 Britain. If sown in May so as to be hogs. Ruta Baga is liked by horses, free from frost, after the seeds have been well soaked in water, the crop will come up well, and be ready to cut green in September and October, without ever producing any seed; but within the stalk will be found the embryo of the seed ear, which is extremely sweet and pleasant to the taste. It is very good boiled as greens. Green spurney gives excellent milk and butter when the cows are fed on it. There is a variety which is much larger than the common field spurney, and which is worth attention.

The stems of Jerusalem articlokes when young, may be good fodder, but they soon get hard and woody. The leaves of the cow-cabbage when given quite fresh, and none of them withered and decayed, are excellent for the cows, and give no taste to the butter. Straw is, on the whole, but poor food, and unless cattle have something better with it, they will not keep in any condition; when given with turnips or otherroots, straw corrects their watery nature, and is very useful. Cut into chaff, it is very good for sheep when fed on turnips and oil cake; and when newly thrashed is as good nearly as hay. By a judicious mixture of differentkinds of food, a more economical mode of feeding may be substituted for a more expensive one, and the same result obtained. The value of straw depends much on the soil; a very clean crop will not give so nourishing straw as one containing many succulent weeds. Peas and vetch halm are superior to straw, especially when cut into chaff; it is by some thought equal to hay. The same may tion. be said of bean halm not left too long in the field, and cut before it is com- and should never be stinted. pletely dry. Buckwheat halm is of little value; it is thought unwholesome Professor Johnstone on Agricultural

if given to sheep. The dried stems of Jerusalem artimoist sands, the crop is so light as not 56lbs. being reduced by boiling to to pay for cultivation. It grows ra- 42lbs., the potatoes are equal in value to 2s. per cwt., which is 40s. per ton. crop between barley harvest and win- From this must be deducted the expense of boiling; when fuel is cheap The dried balm of the Trifolium this will be compensated by the dung, incarnatum, after the seed is ripe, is which would have been lost had the cerne, and sainfoin are generally sup- ed potatoes are equal to 16lbs of raw, posed to lose three-fourths of their potatoes are one half the value of hay;

be given to cattle except quite dry.

All beasts are fond of the green stems of the Indian corn or maize; but Carrots and parsnips are excellent for cools, the air in contact with it must

and it makes their coats fine; but must not be given in too great quantities, or it will gripe them.

In France the flour of buckwheat, seasoned with salt, and mixed with water, is used to fatten oxen, sheep and swine.

Hogs fattened with chesnuts have fine-flavored flesh.

If the horse chesnuts are boiled, the bitter part is boiled out and cattle will eat them readily; mixed with other food, they soon become accustomed

Oil-cake varies in nutriment as in price; if linseed-cake is 17.50, rape cake will be 16.60, cameline and hemp-seed cake 9, poppy-cake 8. Bran is good for horses mixed with

oats, and for milch cows excellent. If it can be got at 1-2 per lb. it is worth as much as the best hay. The value of dried leaves is taken

chiefly from their analysis by Sprengel; but they must be gathered when green and dried like hay.

On the Feeding of Animals. - A certain quantity of food is required to keep an animal alive and in health: this is called its necessary ration of food; if it has more, it will gain flesh, or give milk or wool.

An ox requires 2 per cent. of his weight in hay per day; if he works, he requires 2 1-2 per cent. A milch cow, 3 per cent.; a fatting ox 5 per cent.; 4 1-2 per cent. when half fat, and only 4 per cent. when fat, or 4 1-2 on the average. Sheep grown up take 3 1-3 per cent. of their weight in hay per day to keep in store condi-

Growing animals require more food

Chimistry Dew.-The Dew, celebrated chokes must be cut into chaff, and through all times and in every tongue then boiled or macerated in water, for its sweet influences, presents the Latter math is good for cows, but otherwise the cattle cannot chew them. most beautiful and striking illustration not for horses. The second cut is The same may be said of the stems of of the agency of water in the economy generally considered as inferior in millet, sorgho, and maize. Raw po- of nature, and exhibits ore of those nourishment to the first. New hay is not wholesome. At Paris, when a they must be given with caution, and which the whole system of things, load of 1,000 kilos is bargained for, only a few at first, till the stomach is animate and inanimate, is fitted and the seller must deliver, if between hay accustomed to them; boiled, they fat- bound together. All bodies on the making and October 1, 1,300 kilos; ten any kind of stock; mixed with cut surface of the earth radiate, or throw from October 1 to April 1, 1,100; and chaff, they are excellent for horses. out rays of heat, in straight lines—after April only 1,000. This is fair, 14lbs. of boiled potatoes will allow a every warmer body to every colder; and allows for loss of weight in drying. dimunition of 8lbs of hay; hence their and the entire surface is itself contivalue in this way is easily calculated. nually sending rays upwards through When hay is £4 4s. a load, it is just the clear air into free space. Thus 1-2 per lb, the 14lbs of boiled pota on the earth's surface all bodies strive, lent food for cows; but except on poor toes are therefore worth 4d., and as it were, after an equal temperature (an equilibrium of heat), while the surface as a whole tends gradually to a cooler state. But, while the sun shines this cooling will not take place, for the earth then receives in general more heat than it gives off; and if the clear sky be shut out by a canopy of clouds, little better than straw. Clover, lu- potatoes been sold. If 14lbs of boil- these will arrest and again throw back a portion of the heat, and prevent it from being so dissipated. At night, weight in drying; but in general they and if hay is 1-2d per lb. raw potatoes then, when the sun is absent, the earth lose more, especially in moist climates are worth 1-4d per lb., 1s. 2d. the will cool the most; on clear nights also more than when it is cloudy; and when clouds only partially obscure the sky, those parts will become coolest which

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