



ROTARY BAKING POWDER
Absolutely Pure.

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THE PARADISE

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AGRICULTURAL DEPARTMENT.

CONDUCTED BY B. WALKER MCKEEN.

Correspondence on practical agricultural topics is invited. Address all communications to the Agricultural Department, 100 North Main Street, Portland, Maine.

THE NEEDS OF GROWING STOCK.

We often wonder at the blindly unprofitable manner in which many farmers, even now, feed their young stock. We have no patience with the false economy which leads us to feed all poor or almost worthless fodder to calves or yearlings, thinking that because they can be made to eat it, that is the proper use for it. Nothing can be more erroneous than this idea. We all know, if we stop to think that a growing animal requires more and better food than one that has got its growth; for the simple reason that it not only has to make good the natural waste of the tissues of the body, which is more in young animals than in old, but nature calls for a certain amount of growth besides, and because this extra demand upon the resources of the animal creates an appetite that leads it to consume food that will be refused by full-grown animals is no reason why they should be starved into it. It is on record that a man once died of starvation, although his stomach was full of food, but food that was lacking in nourishment. So a young animal may be suffering the severest pains of hunger, although its stomach is full of non-nutritious food. We use the word non-nutritious advisedly, because much of the food that is sometimes forced upon young animals is so lacking in the principles that help to keep good the animal system as to hardly be classed among foods. Did any of us ever give a thought to the amount of feeding principles in the coarse fodder we so often make the sole diet of our young cattle? Although we do not have faith in the absolute exactness of any table giving the principles of the different articles of food, we still think that they are sufficiently accurate for ordinary purposes, and give below a table showing the value of the different articles of cattle food, as compared with one hundred pounds of good English hay, as compiled from the mean of practice and experiment. And as a further aid to feeding, we also give the amount of hay required per day by the different animals of the farm, as reckoned by the hundred pounds of the animal's weight.

Working Horses, 3.08 lbs. of hay per 100 lbs. of weight.

Ordnance, 2.40 "

Fattening Cattle, 4.00 "

Ordnance, 2.40 "

Milk Cows, from 2.25 to 2.40 "

Dry, 2.40 "

Young Growing Cattle, 2.25 "

Pigs, 3.00 "

Sheep, 3.00 "

By comparing these amounts with the values of the different feeds, as given below, we can readily find the equivalent of good hay in any other kind of feed:

200 pounds of Hay are equal to—

272 pounds Good Indian Corn.

442 " " "

160 " " "

180 " " "

150 " " "

120 " " "

100 " " "

80 " " "

60 " " "

40 " " "

20 " " "

10 " " "

5 " " "

2 " " "

1 " " "

1/2 " " "

1/4 " " "

1/8 " " "

1/16 " " "

1/32 " " "

1/64 " " "

1/128 " " "

1/256 " " "

1/512 " " "

1/1024 " " "

1/2048 " " "

1/4096 " " "

1/8192 " " "

1/16384 " " "

1/32768 " " "

1/65536 " " "

1/131072 " " "

1/262144 " " "

1/524288 " " "

1/1048576 " " "

1/2097152 " " "

1/4194304 " " "

1/8388608 " " "

1/16777216 " " "

1/33554432 " " "

1/67108864 " " "

1/134217728 " " "

1/268435456 " " "

1/536870912 " " "

1/1073741824 " " "

1/2147483648 " " "

1/4294967296 " " "

1/8589934592 " " "

1/17179869184 " " "

1/34359738368 " " "

1/68719476736 " " "

1/137438953472 " " "

1/274877906944 " " "

1/549755813888 " " "

1/1099511627776 " " "

1/2199023255552 " " "

1/4398046511104 " " "

1/8796093022208 " " "

1/17592186044416 " " "

1/35184372088832 " " "

1/70368744177664 " " "

1/140737488355328 " " "

1/281474976710656 " " "

1/562949953421312 " " "

1/1125899906842624 " " "

1/2251799813685248 " " "

1/4503599627370496 " " "

1/9007199254740992 " " "

1/18014398509481984 " " "

1/36028797018963968 " " "

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THE WHITE GRUB.

By the Editor of the "Maine Farmer."

It will improve the health of the animal. So it is the proper way to mix our foods as much as possible, thereby giving a greater variety, and thus securing the best possible results at the least expense. But never lose sight of the fact that all growing animals need a portion of concentrated food, with a liberal allowance of light or coarse food, and that if we aim at good results we must feed them with the time the colt, calf or lamb, or whatever it may be, takes its first mouthful of its mother's milk until it reaches maturity. We all admire the splendid qualities of the Jerseys as butter-makers, the immense milk records of the Holsteins, the fine forms and majestic proportions of the Shorthorn and Hereford, and the general beauty and usefulness of the Ayrshire. Or the massive proportions of the noble Percheron horse, and the fleetness of the professional racer. Or the wonderful fleeces of wool which are sheared by the Merino, the tender, juicy cuts of meat from the Southdown, and the magnificent size of the Shropshire, sheep. While admiring all that is desirable in these animals, it is well to remember that these results, so largely prized, are but the natural growth of liberal feeding for a definite purpose, and required time and patience for their consummation. Writers often urge farmers to improve their herds by buying high grade animals, but it would seem to us to be more wisdom to urge first better care of what we have. Unless we can get a marked improvement in the stock we now keep, from year to year, and know that our methods of feeding are such as to lead to these results, it would be the extreme of folly to purchase high-priced animals from thinking thus to make permanent improvement in our stock. But first, make the breeding of such stock as we now have, our study, persist in it, until we can see the results in the improvement which will be sure to follow, then, if desirable, we can still further improve, by a judicious selection from some thoroughbred herd, whose characteristics are such as we wish to get and maintain in our herds, and time will bring the reward that always follows diligent, well-directed effort in any direction.

APPLYING MANURE ACCURATELY.

By the usual method of applying manure from carts, when it is dumped in heaps and then spread, there is, necessarily, much gross waste. Many times the contents of the cellar or yard are exhausted before the desired space is filled, and again, all the available land is occupied and the manure not all used. We have spread the larger portion of our manure for the past few years direct from the sled or cart, which, we think, for various reasons, is a better way, but requires some more time, and keeps a team standing unnecessarily, which is quite an item in a busy time. Probably the best way to spread manure is to lay their manure in long narrow rows, and then spread it. For the benefit of all who do, and as a matter of curiosity as well, we append the following table, which is taken from Gaskell's Manual of Agriculture:

NUMBER OF LOADS OF MANURE AND NUMBER OF HEAPS IN EACH LOAD REQUIRED TO AN ACRE, THE HEAPS AT FIVE DISTANCES APART.

1. 100 loads of 1000 lbs. each, 1000 lbs. of manure per acre.

2. 100 loads of 1000 lbs. each, 1000 lbs. of manure per acre.

3. 100 loads of 1000 lbs. each, 1000 lbs. of manure per acre.

4. 100 loads of 1000 lbs. each, 1000 lbs. of manure per acre.

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