

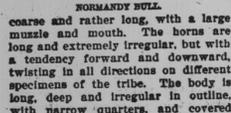
NORMANDIES.

A General Purpose Breed of Cows Little Known in America.

The annual report of the bureau of animal industry contains a chapter on Normandy cattle, which, says the writer, are natives of the departments of Eure, Manche, Calvados and Orne, in France, and are there esteemed for their dairy qualities. They appear, however, to lack a fixity of type and are a coarse, rough race from which close selections must be made to get animals which are at all attractive.

A few were brought to America and taken to Illinois in 1855, others to New York in 1856 and to Massachusetts in 1857. Another importation was made in 1895, and these are owned in New York, New Jersey and Vermont.

In size they may be classed with the large breeds, mature bulls ranging from 1,500 to 2,200 pounds in weight and cows from 1,000 to 1,500 pounds. The animals are generally brindled and sometimes spotted, the coloring being red and reddish brown, shading dark and almost black. The head is



coarse and rather long, with a large muzzle and mouth. The horns are long and extremely irregular, but with a tendency forward and downward, twisting in all directions on different specimens from the tribe. The body is long, deep and irregular in outline, with narrow quarters, and covered with a thick, heavy skin. They have large, pendulous udders, prominent and tortuous milk veins and long, wide-spaced teats. They are believed to be particularly hardy and free from disease, and their generally rough appearance may be partly accounted for by the custom of the French farmers of never housing their cattle or giving more protection than is afforded by open sheds. These cattle are there almost entirely cared for by women and are very quiet and easily managed. They are heavy feeders and not dainty about their food.

The Normandies are claimed to belong to the "general purpose" class of cattle, being as good for beef as for dairy. Large yields are reported from them, 7,000 to 8,000 pounds a year per cow, producing over 300 pounds of butter. Records made in this country show yearly yields of 4,000 to 7,000 pounds.

Sour Apples For Cows. We have had cows running in a pasture where there were seedling apple trees whose fruit was only fit for cider and scarcely for that, says the American Cultivator, and when the apples were large enough to attract the attention of the cows we always found a falling off in the milk yield. We have seen similar results when a cow broke into the orchard and ate too heavily of the fruit that had fallen off. We ascribed this at first to the fact that green, hard apples did not digest well, and while they might not produce a colic in the cow, as they would in the small boy, they would do her more injury than good. Later we noticed that the cows in pasture where there were apple trees did not feed on grass, but were inclined to spend their time in seeking for apples, which they seemed to like better. Nor would they eat hay or corn fodder when they came to the barn. Their teeth were made sore by the acid of the apples. Later on we tried the experiment of feeding cider apples to them at the barn, giving but a few at first and increasing gradually, preferring sweet apples when we had them and avoiding the very hard and sour ones, and we found that a cow would eat a peck of apples twice as fast as she seemed to do her usual amount of feed and be as well as the same amount of potatoes or other roots. We think cider apples, nearly ripe and mellow, are worth more to feed to cows than they can be sold for at the cider mill, if they are fed in small amounts at first and not too liberally at any time.

Municipal Milk Regulations. The Boston board of health requires that all milk produced in that city shall be strained, cooled or stored as soon as it is drawn from the cow, all milk dealers being also forbidden to use in any way a milk vessel for other substances than milk, any person violating this regulation being liable to forfeiture of license. Further, everybody engaged in the production, storage, transportation, sale, delivery or distribution of milk is required, immediately on the occurrence of a case of infectious disease in his family or among his employees or within the building or premises where milk is stored, sold or distributed, to notify the board and at the same time suspend the sale and distribution of milk until authorized to resume by the officials. The statement which the board specifies to be filed during the month of May must include the name of the premises, town, state, whom supplied by and to whom for sale in the city of Boston, the condition of the stable, the number of cows kept, the approximate air space for them, the condition of the milk and its location; also the condition of the cows, with the date of the last examination of them and by whom.

DENMARK METHODS.

New Milk For City Use Is Handled In Copenhagen.

The Milk Supply association of Copenhagen, Denmark, requires each farmer supplying milk to bind himself to inquire about and truthfully report every case of infectious disease occurring on his premises or among persons in his employ, the association in return contracting to pay the highest price for such milk, although it is rejected. Every cow on farms supplying milk to the association is carefully examined fortnightly by skilled veterinary surgeons, as are also the stables, food, etc. Inspectors and experienced dairymaids also visit the farms to observe their management, cleanliness and methods of cooling the milk, regarding all of which there are strict regulations. The milk must immediately after milking be cooled to 41 degrees and must never be allowed to stand in the sun, which will ruin it. The milk is frequently such as turnips, must not be used, but carrots and mangels may be fed in small quantities, mixed with large quantities of corn. Stall feeding is not allowed in summer, when cows must be fed in the open air on grass and clover.

On the arrival of the milk in Copenhagen it is at once sampled by experts, its temperature noted, placed in cans surrounded by ice and the next morning run out into filtration tanks, which have three layers of gravel separated by perforated trays, the upper layer being covered with six thicknesses of fine cloth, the whole being kept in position by a pyramidal framework, which presses down the tin trays. As the milk rises to the tops of the tanks it passes into a large storage receptacle and thence to the bottling room, where it is bottled or canned, labeled, tied up with a thread, sealed with a leaden stamp seal and then taken to the carts for distribution, the carts being so constructed as to prevent tampering with the cans and the milkman being in uniform. The cans are scalded, steamed and sterilized daily, and the filter is boiled in hot water and steamed daily.

Effect of Dirty Milk. In the mind of a great many careless and indifferent people all this about cleanliness in the dairy is sheer nonsense, says Hoard's Dairyman. They happen never to have seen any bad effects from their own dirtiness, or if they did they did not know it. But nevertheless, whether they know it or not, dirt is dangerous in milk, dangerous to health, dangerous to flavor and consequently dangerous to profit. Every one who has heard cases of poisoning from milk, ice cream or cheese. This poison is called tyrotoxin and belongs to a family of poisons called pomatines. Professor Vaughan of the Michigan University has studied and traced out the history, character and source of these poisons to a greater degree than any other living man. Consequently what he has found out ought to be of value to any man who knows enough to appreciate knowledge. Professor Vaughan found that the almost invariable source of such poison, when found in milk or the products of milk, was simply dirt, the men or women who handled the milk were dirty in their ideas of milk handling and allowed the surroundings to be dirty and the milk utensils to be badly cleaned. Here is one of many cases of facts which will emphasize the value of this precaution for clean work in the dairy. For some time City Physician Nottingham of Lansing, Mich., has been at work urging those dairymen who supply the city with milk to take greater pains to keep their stables and utensils clean and sweet. The other night several families on the west side of the city were poisoned by using the milk which came from one of the dairies which had been ordered cleaned. No doubt the owner of that dairy thought in his wisdom that all this talk about the necessity of tight cleanliness was all humbug. Now he stands with a ruined business, all because he would not post himself as to what is the truth. How shall a man know the light who refuses to open his eyes?

Sound Statement. American butter sells for less in the Cuban market than butter from France, Holland and Denmark, says the Philadelphia Press, and yet American butter is generally better than that coming from the other countries. The trouble is that oleomargarine and other imitations are sold in Cuba as American butter. It is precisely the same dishonest method which have so greatly injured the American butter trade in Europe. When our government stops this fraudulent trade, American butter and cheese will sell again in the markets of the world at prices as high as similar articles from other countries. This dishonest practice on the part of exporters not only disgraces the United States, but takes millions of dollars annually out of the farmers' pockets by depreciating the value of their products.

Cooling Milk. It is essential that milk be cooled as soon as possible after being drawn from the udder to a temperature below 50 degrees F. At this temperature the growth of bacteria will cease. These bacteria are really a low order of plant life, and any temperature that is best adapted to the growth of plants of the field will produce the rapid souring of milk and production of bad flavors. Milk in all cases should be removed at once from the stables to a place free from contaminating odors.—Tennessee Farmer.

Tuberculin Test. In the future all dairy and breeding cattle shipped into Illinois will first have to undergo the tuberculin test provided by the state live stock commission.

FRUIT-BLOWERS.

MULCHING FOR WINTER.

Forest Leaves One of the Best Materials—Fall Set Trees.

An important matter for consideration is the mulching of trees, shrubs and plants for the winter, and such excellent authority as Joseph Meacham has the following to say about it in Gardening:

The mulch which we apply in autumn is to accomplish a different purpose from our spring mulching. What we do now is mainly to prevent the soil freezing about the plants, to some extent at least. To newly planted trees and shrubs the mulching is almost essential, as unquestionably they are very much the better for having their roots in untrouled soil, and when there are cases of doubtful hardiness shrubs or trees which are known to suffer in hard winters just mulch them and see how much better they will thrive. We have our own experience I have been able to carry many such a plant through the winter by the aid of a good mulch.

In the cases of such things as have been recently transplanted many more will be alive and flourishing when spring comes if mulched at this time. There is such a check from the transplanting that they need help, and this the mulch gives by providing uniform ground for the roots. Manure is perhaps the best of materials to use because it accomplishes two objects—enriching the ground as well as protecting the roots. Aside from this, forest leaves are the best of all. They are easily handled, and it takes very few to keep out a great deal of frost. With zero temperature the soil would be open that was under five to six inches of leaves. But less thickness than this will answer, as it does not matter if a little freezing does occur.

A prominent and successful landscape gardener whom I have in mind had a way of mulching large trees set in the fall which answers well. His plan was to procure a half cartload of soil, and this much was mounded up about each tree. Not only did this keep out the frost, but it kept the tree steady in place, and better success than had could not be wished for. It is the swaying about of large trees of this character that causes so many of them to fall. There is not the close contact between root and soil that there must be to insure success. When spring comes, all mulchings except that of manure are to be removed. Manure will usually have pretty well disappeared by that time. Referring again to partly tender shrubs, although the rhododendron is so not so, it is very easily benefited by a mulching to keep frost from the roots. The great idea of recent times calls for the supply of moisture by the roots to make good what it loses in cold, windy weather, and these calls can be the better met when no frost is about their feet.

A Beautiful Japanese Vine. What would flower lovers do without Japan? New and beautiful things from that country are looked for as regularly each year as the Fourth of July or Christmas day. The present pretty climbing plant Clematis paniculata has long been known to botanists, but it has been only recently that it has come into cultivation. Thunberg says it is closely related to the American Clematis virginiana. It is, however, in every way a handsome plant that country are looked for as regularly each year as the Fourth of July or Christmas day. The present pretty climbing plant Clematis paniculata has long been known to botanists, but it has been only recently that it has come into cultivation. Thunberg says it is closely related to the American Clematis virginiana. It is, however, in every way a handsome plant that country are looked for as regularly each year as the Fourth of July or Christmas day. 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