

Rural Economy.

THE COW.

The milch cow is, so to speak, a highly artificial animal; she is, to a great extent, what her breed and keeper made her.

More attention should be bestowed upon the milch cow with us than upon stock intended for the yoke or shambles.

Good milk is a most important article—it is a benison to childhood; while bad milk is as fatal as the sword of Herod.

Milk drawn from the cow in the morning is thought to be of better quality than that of the evening; and a remarkable difference is perceived in the proportion of cream in the first and last portion of milking.

PROTECTING THE WHEAT PLANT.

All experience teaches that over a great portion of our country the wheat crop is liable to be seriously injured by our severe winters.

As a protection, the *Prairie Farmer* recommends the following: A top dressing of manure or compost spread over the wheat field late in the fall or in early winter.

CUTTING TIMBER FOR FENCING.

A correspondent of the *Germantown Telegraph*, who was brought up in the belief that the old of the moon in February was the best time for cutting timber for durability, and that fence posts ought to be seasoned, says he has learned by dear experience that both theories are wrong.

"I had posts made from the body of a large chestnut tree that grew by itself; it was cut about the middle of April, made into posts, and put up without seasoning.

"Again, I cut another chestnut, an eighteen feet from the stump I made a gal of the body, peeled off the bark and planted it while yet green. The post has been standing since 1811, and it shows no signs of being rotten except a small hole in the top of it.

and planted the posts the spring following. The ground in which the fence was set, in all three classes, was alike. At the end of six years, from planting this batch of posts, there were so many of them rotten as to be easily broken off even with the top of the ground.

RINGBONE IN HORSES.

During a residence of over fifteen years in the State of Wisconsin, I have met with a great number of cases which generally pass under the name of ringbone.

Anchylolysis is a stiff joint arising from the intimate union of those bones which form the joint. Anchylolysis is distinguished by true and false. In the former, the bones have grown together so completely as not to admit of the slightest motion taking place between them.

Complete anchylolysis of a joint renders it utterly and absolutely immovable, and no mortal hand can restore it to its original state; yet, in the face of this fact, we find that almost every village and cross-road contains some bright genius who has found the way to humbug you out of your money, in making you believe he can cure what is absolutely incurable.

Should any shining light wish to illuminate the arena of veterinary science, let him step forward and restore a case of complete anchylolysis in the horse to its original state, and gain for himself immortality, or what is more tangible, two hundred dollars as a reward for his genius or smartness, which I offer to any one, at any time.—A. T. W., in *Northern Farmer*.

ACTIVE MANURE.

One of the most active manures, and readily within the reach of most farmers, is a mixture of leached ashes and night soil mixed with fine soil.

BEAUTIFUL EXPERIMENTS.

Fill a wide-mouth glass jar with water, and cover it with a piece of "foundation" (the ladies will understand this), cover that over with a layer of peas, pressing it down so that the peas will lay in the water.

If an acorn be suspended by a piece of thread to within half an inch of some water contained in a hyacinth-glass, and so permitted to remain without being disturbed, it will in a few months burst and throw a root down into the water, and shoot upward its tapering stem, with beautiful little green leaves.

CREAM.

A correspondent of the *Boston Cultivator* has been investigating the proper form for vessels in which to place milk from which it is intended to collect the cream.

Scientific.

NATIONAL ACADEMY OF SCIENCES.

This body held its annual meeting for 1866 in Northampton, commencing August 7. We give an account of its most important proceedings, following the reports in the *New York Tribune*. The last paper of the first day was by Prof. Agassiz, on

TRACES OF GLACIERS UNDER THE TROPICS.

It embraced the result of his explorations in the Valley of the Amazon, and gave many most interesting statements as to the traces of glaciers there found.

Prof. Agassiz spoke of the first observations made in Switzerland, showing the much greater extension in ancient times of the Alpine glaciers, which filled up the whole valley between the Alps and Jura, and rose to the height of 3000 or 4000 feet against the latter chain.

Prof. Guyot held that at the temperature of the atmosphere claimed it could not have contained more than an inch of rain. Prof. Frazer continued with similar views.

Prof. Henry said that, before Prof. Agassiz's discoveries, he had considered the glacial theory pretty thoroughly worked out, and had subscribed to the conclusions which Prof. Guyot had reached and set forth.

Prof. Peirce said that it was natural to suppose that that era was caused by a colder climate of the earth, whereas it might as well be the result of a hotter one; in fact, only the latter could explain the greatly increased deposition from the atmosphere; it needed more heat to raise so much vapor.

Prof. Guyot spoke of his own explorations for a series of years in North Carolina, and his failure to find in that region any scratches, (such as were made by the mass of drifting ice in more northern regions, and which are found with more or less frequency from the North Pole to Pennsylvania, but especially in New England.)

Prof. Agassiz called the attention of the Academy to some facts which had not previously been clearly considered. Wherever scratches had been observed near the seacoast, it was seen that they extended under the water as far as the eye could reach.

Assume that it is proved that glaciers extended all over the country as low as 32° or even 36°, what must have been the temperature of the earth's surface? He had reached the conclusion that a temperature of 17° Fahrenheit lower than now would answer the conditions.

His reference to the small quantities of matter and periods of time with which physicists deal, as compared with the masses of matter and vast periods of time with which geologists have to do, together with the wide difference of view between himself and Prof. Guyot, called up the latter, who again referred to the lack of evidence of glacial action on the North American continent south of the 32d degree, and urged extreme caution in assigning causes and drawing conclusions while the facts were still so few and so far from exhaustive.

Prof. Agassiz explained that he had entirely abstained from trying to set causes or press them in any way, but had kept silent as to them, in order to press facts more earnestly.

Agassiz insisted, there must have been greater heat for evaporation. There must have been a greater evaporation because there was a greater surface. He could not believe that the surface of the ocean had been lowered 1500 feet, as many had claimed, with so great an elevation of snow upon the land.

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Prof. Peirce apprehended that it was necessary to suppose that the heat of the ocean was as great in that day as now, while he thought that Prof. Agassiz's views must give a far different temperature. With the depth of ice on which Prof.

felt bound to say that he did not think it could be sustained. Prof. Peirce, Newton, and Dr. B. A. Gould were appointed a committee to examine the paper and report. (To be continued.)

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