

DAIRY.

DAIRY COWS.

BY A CONTRIBUTOR.

If forgetting the cows served there are many important questions to be considered. If there is a heifer in the herd, at what age should she drop her first calf? Is there an aged cow, at what period does she cease to be profitable for the dairy? Does the farmer want to raise beef or dairy stock, or does he want to combine these industries by raising a class of animals suitable for all purposes? Now is the time to determine the character of the herd for all time to come. In sections where only one breed exists, and where only one line of live stock industry prevails, there can be no difficulty in selecting a sire; but in an all-purpose district where there are different stampings of native cows, as well as different breeds, it would frequently pay to go a score of miles in search of a desirable sire. It is against the laws of animal economy that perfection can be attained both in the milking and the beefing qualities of the same breed. Even if an equilibrium were once established, it could not be maintained until a much profounder knowledge of the breeding art than usually exists in the farming communities be first acquired. A cow that keeps in a uniformly good condition carries on her bones an investment sunk for years, which would have yielded quick and profitable returns had it been converted into milk or young. In beefers the desirability of early maturity cannot be questioned; but in dairy stock care must be taken not to do violence to conflicting laws. If early maturity in the later be encouraged, fecundity becomes impaired by the process of high rearing; if the feeding be moderate or scanty, a late maturing propensity will be developed in the offspring. Our conditions not naturally favoring early maturity, the question of maternity should incline more to the third than to the second year, even in the lighter classes of dairy cows. The principle involved is this: A heifer rationally fed always assimilates a uniform percentage of her food, and if she is served while immature, a portion of the nourishment which should have been expended in building up her frame is transformed into young, whereby either the mother or the calf, or both, must suffer in development; and while she is giving milk, there still remains a double strain on her system. It will not do to avoid this by milking her sparingly the first season, for then her udder and secretory vessels would remain but partially developed, and her usefulness for the dairy would be checked. There is still another violation of the same principle amongst farmers and dairymen. Forgetting that a calf is nothing but condensed milk, they sometimes expect the cow to give as large a yield of milk all the year round as if she were not pregnant. If their expectations were realized, how could there be a calf? Hence the desirability of letting her dry six or eight weeks before calving. What is lost in milk is gained in the calf; and in this case the "quick returns" argument has no weight; in fact the slower the returns, within certain limits, the greater the final profit. Another advantage in allowing a heifer to mature before dropping her calf is that the period of her dairy usefulness will be lengthened. Having a beefing propensity, she cannot be profitably kept for the dairy after her sixth year, while, if she is exclu-

sively of a milking stamp, and allowed to mature before parturition, she will be profitable till her eighth or even tenth year. It costs considerable more to fatten old than young animals. The most profitable age for the production of beef ceases between the fifteenth and eighteenth month of the animal's age. A well-fed beefing grade will gain an average of 2.25 pounds per day during the first eighteen months of its life, while in its sixth year it will scarcely gain a pound a day, proving that it cannot be profitably fed at this age, for the reason that it will be more profitable to feed at an earlier period. The same principle holds good with regard to the production of milk; that is, although a cow may yield ever so much profit, the investment may in one sense be regarded as a loss so long as the same quantity of food invested in another cow would produce a still greater profit. If the cow is old, and belongs to a beefing breed, the loss is ruinous. Deal peremptorily with superannuated cows.

The most desirable qualities of a dairy cow are large digestive organs, indicated by a full barrel; a wedgy frame; a large, well formed udder; large, winding milk veins; a gentle disposition, and a sound constitution.

HINTS OF VALUE.

The milking qualities of a cow depend more upon those of her sire's mother than upon those of her own mother.

One cow which will give 5,000 pounds of milk in a season, will bring more net profit than three cows producing only 3,000 lbs. each.

Good butter and cheese can not be made from the milk of cows which are deprived of pure water.

A putrid carcass polluting the air of a pasture will spoil not only the milk of the cows running there, but also the entire contents of the vat into which the tainted milk is poured at the factory.

The patron who will bring impure or imperfect milk to the factory, is like a passenger boring holes in the ship which keeps him and all the others afloat.

"IT WAS HIS LAST NIGHT'S TRAVELING."

"Yes, sir, I am going home to see my folks in New York," said a young man as he sat between his frequent spells of painful coughing. His face was thin and each of his cheeks dotted with a small pink spot; his eyes were bright but sunken; his hands limp and fleshless; his voice hollow and his breath short. "I've been out West a couple of years, sir; went out for my health, which was poor. I got better, a good deal better, and went to work. Think I must have worked too hard, as I was anxious to get enough money ahead to build a nice house for somebody from back in New York. Anyhow I got sick again and concluded to go home. But I'll pick up wonderful after I get there, I'm sure I will. There's my mother, you know, to take care of me, make beef tea for me, and herb medicine. And she'll undress me and put me to bed until I get strong enough to do it myself. I haven't been undressed for five nights. Father'll buy me everything I want, and there's old Nell, my favorite horse—I'll drive her around till I am able to get on her back as I used to. And there's the somebody I spoke of—she'll be there, too, and I know I shall get well when I'm with her. What a nice time I'll have. I don't mean to work any

for two or three months—but walk about the dear old place, help father feed the calves, watch the pigs eat in the barnyard, ride old Nell up and down the lane and over the fields, sit and fish for bass down at the pool, and go bathing in the creek just the same as I did when I was a boy. And I must go to the old school-house too—the old school-house where I went for ten years except during harvest and haying. And the white church house at the corners—won't the folks be surprised to see me there next Sunday? Yes, sir, I am going home, and it makes me so happy I feel almost well again. I think a night's rest on one of mother's feather beds with my clothes off will make a new man of me. Good night, sir, if you're going. Only one night more travelling for me. I'll be home in the morning."

At the station next morning were the young man's friends to meet him with a carriage. The conductor had telegraphed them at midnight. They were sobbing. The carriage wore black plumes. Its occupant was lifted from the baggage car. "Old Nell!" was latched near by with the family chaise, in which sat a young girl with her face between her hands. At the white church up at the corners the next Sabbath they were surprised to see him.

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