

**"I Have Every Reason to Praise Pe-ru-na,"**  
WRITES MRS. KANE, OF CHICAGO.



Mrs. K. Kane, 1729 Sebor Street, Chicago, Ill., writes:  
"Pe-ru-na has been used so long in our family that I do not know how I could get along without it. I have given it to all of my children at different times when they suffered with croup, colds and the many ailments that children are subject to, and am pleased to say that it has kept them in splendid health. I have also used it for a catarrh of the difficulty of long standing and it cured me in a short time, so I have every reason to praise Pe-ru-na."  
—Mrs. K. Kane.



Mrs. A. Hobson, 225 Washington St., Lansing, Mich., writes:  
"Pe-ru-na has been such a blessing to my only child, as well as myself, that I feel induced to give my testimonial. He has always suffered from catarrh of the head and throat, and I had to use extra precautions so as not to have him exposed to damp or cold weather. Last year he was taken with la grippe, and as it was a severe case, caused me much anxiety. No medicine helped him till he took Pe-ru-na. I noticed an improvement at once and in three weeks he was a different child. The grippe had been completely cured and I noticed that the catarrh was made better. He kept taking it two weeks longer, when he was entirely well. I now use it off and on for colds, cramps, indigestion and general indisposition, and find it superior to any doctors' medicine I ever tried. It keeps me, as well as my child, in perfect health, and I gladly recommend it to mothers."  
—Mrs. A. Hobson.

**Pe-ru-na Protects the Entire Household Against Catarrhal Diseases.**

One of the greatest foes with which every family has to contend is our changeable climate. To protect the family from colds and other mishaps, but one is shrewd enough to always avoid the inevitable catching cold. There is no fact of medical science better known than that Pe-ru-na cures catarrh wherever located. Thousands of families in all parts of the United States are protected from colds and catarrh by Pe-ru-na. Once in the family Pe-ru-na stays. No home can

**DAIRY**

**Boric Acid in Butter.**

The Australians never seem to get done considering milk and butter preservatives in some form or other. On account of having to send some of their products thousands of miles to market, they are perhaps more prejudiced in favor of preservatives than are the people in this country where the markets are nearer the places of production. At Sydney a parliamentary committee has been investigating the use of boric acid in butter, and in a report expresses the belief that 25 grains of boric acid per pound of butter will do no harm. It is to be inferred that above the 25 grains harm will result. Whether this be a point of danger or not we do not know, but the principal thing is that there is a danger point. The man that buys butter doctored with boric acid has no means of telling whether there be 25 or more grains of the preservative in it. There is likely to be more rather than less, as there is always a tendency to overdo a matter of that kind. It must be remembered that scientists are not the ones that add the preservatives, but usually ignorant people that know very little about such matters. What makes the matter worse is that the men that use preservatives are generally of the opinion that they are harmless and are hence ready to use all they can afford to.

**Food and Size of Cows.**

Good and persistent milking produces milkers and the development of milking qualities, whereas on the contrary if irregularity and neglect is practiced the talents which would develop with use will naturally disappear, even what there is. It is a great mistake to suppose that dairy cows all belong to one breed, says Robt. Pethbridge. They vary from the Small Kerry of Ireland, the fine Jersey and Guernsey of the Channel Islands, the Hardy Ayrshire of Scotland, the dual-purpose Shorthorn and Devon of the west of England, to the Red Polled Norfolk of the east of England and others, all of which with selection and development produce magnificent dairy cows. It is the character of the food more than anything else that determines the size. As we know, in those districts which do not produce rich and abundant grasses you will not find large cows, and in those districts which do produce the necessary constituents for growth and milk production, in a few years a small bred animal will become the parent of a large type, and with continuous milking will furnish many good milkers. Select and test your cows and use a bull from a family which has a milk record, and remember that your bull is half your herd.

**Quality of Butter.**

Quality and uniformity are the two main factors to be considered by the buttermakers at present and for each step he is taking these two factors should be kept in view and be the main centers for all his labors, says M. Mortensen. Some think that in order that such butter may be produced it is necessary that the butter be made in smaller creameries where all of the territory is within easy reach of the factory. Others claim that the central plants have advantages over the smaller ones in manufacturing butter of that quality, while still others claim that this is easily done in a whole milk plant, but not in a creamery run on the hand separator plan. These various ideas are not really true. We are able to make a high grade of butter under any of these systems providing the proper methods are adopted. Some of the main factors to be considered in this connection are, the condition of raw material, pasteurization and the use of commercial starters.

**Feeding Grain to Cows on Pasture.**

It will pay to feed some grain to the cows on pasture unless conditions are exceptional. The amount fed in the winter should be cut in half in the summer, except in the drier months, when the grain ration may be temporarily increased. Some of the best dairymen in the country are doing this, though they are not getting their money back for it in the summer time. But their cows go into winter with more vigor and are healthier as a rule for the good summer treatment they have received. It is simply one way of investing money for the future. Its results are not seen so much in the milk pail as experienced in various ways in the thrift of the calf that is born later and in the ability of the mother to make the most of the food that is given her in the winter.

**Good Feed for Dairy Cows.**

Sooner or later we are going to have trouble in some of our western states on account of fermented foods fed dairy cows and the unsophisticated state of some of the men engaged in enforcing dairy inspection laws. We heard recently of the attempt by an assistant dairy and food commissioner to stop the feeding of waste from the distilleries. Now, distillery waste, brewers' grains and silage are all more or less fermented when they come to the cow, but they are good feeds for all that. Sauerkraut is a partly fermented food, but it is served on all our tables, and no one finds fault with it because of its partial fermentation.

**Funds for Iowa Dairy Commission.**

The Iowa legislature has passed a bill appropriating an additional \$1,200 for the salary of an assistant dairy and food commissioner. For a long time there has been but one man to do the great amount of inspection required in this, one of the largest dairy states of the Union. But the work has been well done, and the dairy interests of the state have profited greatly thereby. The additional help will enable the commissioner to carry out much of the work he has planned, but which could not be done on account of the many duties pressing upon the commissioner.

There is endless hope in work—Carlyle.

**LIVE STOCK**



**Soft Corn as Feed.**

The soft corn problem is a serious one. In many sections of our state during the past two years there were large areas on which the corn was worthless from a market standpoint. It must either be fed to live stock or allowed to rot in the field. To the man who had plenty of stock the commercial value of this product was not a serious question. He could solve the same by feeding it to his animals. We have a large number of farmers, however, who belong to the class called grain growers. Thus, they had to either sell this soft corn for feeding purposes, or else allow it to rot in the fields. To them the commercial value of this product was an important question. It was also an important question to the cattlemen who had to purchase soft corn for feeding purposes. We received a great many requests from parties belonging to both classes asking for information concerning the feeding value of this soft corn.

We therefore conducted some experiments with the hope of giving them some aid. It is very likely that in the future, we will conduct some further experiments with the hope of finding some feed stuffs which perhaps can be fed to advantage with soft corn for fattening cattle. Many attributed the large losses which resulted in many sections of the country last year from the cattle feeding business to the fact that the corn was of poor quality. Perhaps some of these losses might be attributed to this cause. In the majority of cases, however, I think the trouble was due to the fact that feeding cattle in the fall of 1902 were unusually high in price, and the finished cattle in the spring of 1903 were rather low in price. In too many instances cattle which were bought for five cents per pound as feeders had to be sold for less when sent to the market as finished animals.

W. J. Kennedy,  
Iowa Agricultural College.

**Good and Poor Steers.**

If a man will visit the Union Stockyards, Chicago, and watch the buyers selecting cattle he will soon come to understand that an animal, to bring the good prices desired by the seller, must have something more than weight and fat. The good cattle are in demand and the buyers compete with each other in bidding for them. But when they get to the rough cattle it is different. These do not catch the eyes of the buyers and the latter do not feel the interest in buying that they evince when bidding for the other animals. The easy sellers are high grade, which means that they show in their conformation and coloring much blood from some one of the accepted beef breeds. The really good cattle do not comprise one-tenth of the total number going to the yards. It not infrequently happens that a farmer takes a bunch of steers to market and works hard to sell them, but finally gets for them only about one-half the price he expected to receive. Professor Munford tells the writer that the buyers value the cattle largely according to the proportion of improved blood they show, unless this improved blood is dairy blood, in which case it is a detriment rather than a help. The dairy cow or steer may get fat, and show good weight but the butcher knows that when he comes to kill and dress the animal he will find the greater part of the fat on the intestines where it has but little commercial value. A very large per cent of the animals coming to the stockyards are poor, inferior animals, both in finish and form.

**Profit in Young Animals.**

The profit in beef and mutton production lies in the young animals. There was a time, but that was many years ago, when the big boned steer that weighed 1,800 to 2,000 pounds was looked for by the buyers of beef, but now the animal that is sought by the butchers is one that weighs from 1,200 to 1,500 pounds. We have long since found out that the cheapest meat is made on young animals, and the money thus invested is soonest ready to be turned over. Not only is the money tied up longest in old animals but the cost of producing meat on them is so great that our best beef feeders are no longer attempting to do that. The method advocated now is to keep the animals growing right along from birth to the period when they weigh what the market demands. Steers are now ready for the market at two years old or under. If all the animals shipped to the stockyards were of this kind there would not be much complaint about poor returns in stock breeding and beef making. A good many farmers are still trying to make profitable beef on old steers. But the young steer is the only animal that gives us any promise of a profit.

**Corn a Too Carbonaceous Food.**

Corn is by no means a balanced ration, though it is considered by many men the best single stock food known. This opinion is erroneous. The nearer a grain comes to being balanced the more nearly is it a perfect food. Corn contains a very large amount of carbonaceous matter and a small amount of protein. Corn to be used to the best advantage must be combined with some protein that will act as a balance to the elements that make up the starch, fat, sugars, and digestible nutrients. It has been demonstrated over and over again that by combining corn with some food that will increase the total amount of protein to a point where it will be a fair balance for the carbohydrates, the steer will be more smoothly finished and his coat will be more glossy than where corn is the single grain food.

The economy of feeding silage in preference to any other soiling crop was demonstrated at the Pan-American Model Dairy, where the exhaustion of the silage supply caused a decided advance in the cost of making both butter and milk.

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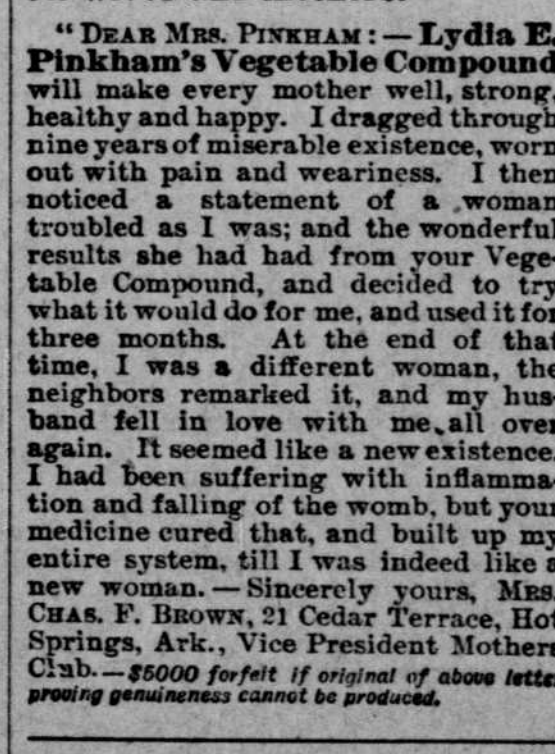
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