



what follows it appears that Timothy went with Paul and Silas. Two words of Jesus in this lesson can mean everything to every one of us. Follow Me. What will your answer be to-day? He calls you now. Will you follow him trustfully into danger, into safety, into glorious service?



GROW YOUR OWN DAIRY FEED

Home Grown Alfaalfa and Cow Pea Hay Are Found to Be Valuable by Tennessee Dairymen.

(Copyright, 1929.) Too many dairy farmers are running to the mills and feed stores for supplies for their dairy cows. They know they need concentrates, but do not study the problem of feeding to a conclusion. Down in Tennessee they raise a great deal of cow pea hay and think much of it. Northern farmers might raise more to advantage. They are also beginning to know what alfalfa is worth there, and they are feeding it largely in many sections of the state.

The Tennessee experiment station has helped the farmers immensely by experimenting with the different feeds for dairy and beef cattle. The investigators found that the cost of milk can be greatly reduced by replacing a part of the concentrates in the dairy ration of the cow with some roughage rich in protein, such as alfalfa or cow pea hay.

It is an advantage to feed a dry roughage, which is intended to replace a part of the concentrates in a ration, with silage, because of its succulent and palatable nature. A ton of alfalfa or cow pea hay may be produced at a cost of from \$3.00 to \$5.00, whereas wheat bran costs from \$20 to \$25. From two or three tons of cow pea hay and from three to five tons of alfalfa can be obtained from an acre of land, hence there is a great advantage in the utilization of these roughages in the place of wheat bran.

Alfaalfa and cow pea hay cannot be substituted to the best advantage for cottonseed meal, as this feedstuff is so very rich in protein that a larger bulk must be consumed than the capacity of the average cow will permit. The substitution of a roughage rich in protein for an expensive concentrate will enable the dairyman to make milk and butter at a less cost and will thus solve one of his most serious problems.

In substituting alfalfa hay for wheat bran it will be best to allow one and one-half pounds of alfalfa to each pound of wheat bran, and the results are likely to prove more satisfactory if the alfalfa is fed in a finely chopped condition. These tests indicate that with alfalfa hay at \$10 a ton and wheat bran at \$20 the saving effected by substituting alfalfa for wheat bran would be \$2.00 for every 100 pounds of butter and 19.8 cents for every 100 pounds of milk. The farmer could thus afford to sell his milk for 19.8 cents a hundred less than he now receives and his butter for about 22 cents, as compared with 25 cents a pound.

These experiments show why alfalfa has been frequently used as a basis of manufactured foodstuffs, and indicate that the farmer who can grow it makes a mistake in purchasing artificial stuffs of which it forms the basis. When alfalfa was fed under the most favorable conditions a gallon of milk was obtained for 5.7 cents and a pound of butter for 10.4 cents. When cow pea hay was fed the lowest cost of a gallon of milk was 5.2 cents and of a pound of butter 9.4 cents. In localities where peas have grown well it can be utilized to replace wheat bran, and in sections where alfalfa can be grown this crop can be substituted for cow pea hay with satisfaction.

There is good profit in making butter at home, if you can make a high grade product and have a good market for it. The creamery pays you only for an exact pound of butter fat, with two or three pounds of milk thrown in for nothing. Churning the cream at home, you save the cost of churning which the creamery charges for; you gain about 16 per cent in weight of the butter; and you gain the buttermilk. These combined gains amount to about 25 per cent, or one pound in every four. In other words, you make about 25 cents on every dollar's worth of butter, if you make as good butter as the creamery product.

By the use of the hand separator it is possible to make the highest grade of butter at home, provided the cream is properly handled and churned. The use of the separator you are not only able to make a higher grade of butter and sell it for a higher price, but you will be able to extract more cream from the milk and hence make more butter. Also, the warm food value either for human use or for animal feeding. If you keep more than three or four cows, by all means buy a separator. It will soon pay for itself.

Hints for the Dairy. Here are a few hints as to how a dairyman can improve his milk. Use plenty of sawdust. Clip the flanks. Avoid feeding directly before milking. Use small top pails. Milk with clean, dry hands. Cool the milk quickly and keep it cold. There are only three requirements for good milk, simply healthy cows, cleanliness and cold.

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STOPS COW MILKING HERSELF.

Contrivance Arranged That Will Save to Dairyman Many Pounds of Butter and Much Milk.

The following instructions are given in answer to an inquiry regarding a device to prevent a cow from sucking herself:

Securing two lengths of small cord, also six pieces of round, light wood about 12 inches long and 1 1/2 inches in diameter. I bored 3/8 inch holes at each end of the sticks, then having tied a knot at one end of the rope, I threaded on the sticks. Not having shorter pieces of wood, I bored through the



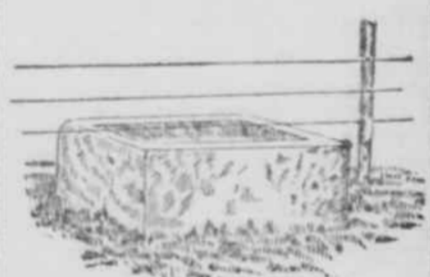
A Milk Saver.

center likewise to thread between the longer sticks. I knotted the cord on either side of the sticks, then throwing the same across the cow's neck (having regulated the knots and sticks to suit the small of the neck and also the shoulder), I tied the ends of the cords around the first knot. The accompanying illustration shows the result. This device prevents the cow from reaching her flanks and in my case has stopped the falling and will save quite a few pounds of butter.

WATER STOCK IN TWO FIELDS

One Can Be Constructed Without Making Trouble or Interfering on Either Side.

This cut shows a concrete trough so arranged that the stock in two separate fields can obtain water from the same place without interfering or



Concrete Water Trough.

making trouble. Such a trough may be built with a solid base or set on blocks. The common size in use is 8 feet long, 2 feet wide at top and 1 1/2 feet deep, all inside measurements.

GOLDEN RULE IN BREEDING

By Careful Study Breeder Will Have No Trouble in Producing Like from Like.

"Like produces like" is the golden rule and summary of the science of breeding, says the American Cultivator. It must be remembered that the resemblance is decided not only by the immediate parents, but by the grandparents and the great grandparents, etc., all being connected like the links in a chain, or rather like the twigs of a tree to the main branch. Hence the qualities of the family must extend through several generations, better a dozen generations, to appear with fair certainty in the offspring.

When a characteristic has once struck into the organization of a line of stock it remains with great persistence, even when mated with unlike individuals, as, for instance, the broad belt of the Dutch cattle, which is nearly always impressed upon a cross of that breed; or the peculiar build and disposition of the Morgan horse which persists in spite of many removes from the pure Morgan stock. These prepotent families are usually established and fixed by considerable inbreeding at the start, which is the readiest way of uniting individuals possessing similar good qualities.

Then, by careful selection and outbreeding, the qualities once fixed have been maintained. By taking into account the influence of the remote, as well as the direct ancestors, the breeder will have no great trouble in producing like from like with regularity.

How Much Feed for Milking Cows. For milking cows it is not desirable that more than five or six pounds of cottonseed meal per day should be fed. If this, in connection with the roughage she is getting, does not furnish the proper nutrients in amounts and proportions, other grain should be added. The cow giving but a small quantity of milk per day, say about a gallon, can be properly fed on cottonseed as the only grain if it is fed with some good roughage as prairie hay. With roughage like alfalfa it could be used as the sole grain ration for a cow giving two or three gallons per day.

Coloring Butter. There is no moral wrong in coloring winter butter judiciously. Almost anyone would prefer to eat butter that pleases the eye as well as the palate. A strain of Jersey or Guernsey blood in your cows will help you out on the coloring.

A Man's Opinion. "What do you think of the present day styles?" "I think they're all right. They enable a poor girl to look just as ridiculous as a rich girl."

Limitations. "A conscience is a persistent thing." "Yes; I can fool some of myself all the time, and all of myself some of the time, but that ends it."

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PAVEMENT PHILOSOPHY. High steppers are in danger of losing lots of time. When real spring steps in it also gets into the step.

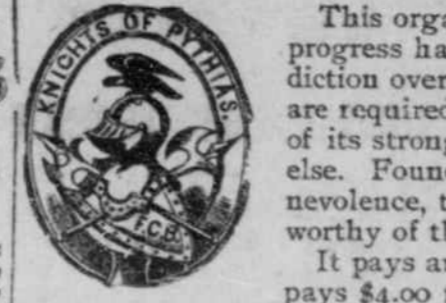
ONE-SENTENCE PHILOSOPHY. Diligence is the mother of good fortune.—Cervantes. Where an opinion is general it is usually correct.—Jane Austen.

BAD LUCK. It is unlucky to be kicked on the head by a chestnut horse on a Friday. It is unlucky when traveling by rail to be alone in the carriage with a homicidal maniac.

IT'LL KILL HIM. "Give a man enough rope, and he'll hang himself," quoted Bigsby. "I beg your pardon," sighed Bigsby, "if you give a man enough of the rope you're handing me as cigars, he won't even have to hang himself."

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