

**Ration for the Calf.**

There is nothing better than the ration which nature provides, but unfortunately the farmer on \$100 land cannot afford to feed his calves in nature's way. As a rule that would cost him more than they are worth on the market.

In the dairy sections calves are raised on skimmed milk, and the result will depend, not on the amount of skimmed milk that is fed, but on the way in which the ration is balanced. For the first ten days the calf should have nothing but mother's milk. For the next ten days or two weeks it should gradually be put on a skimmed milk ration.

As soon as it has a grain and grass stomach, it should receive all the grass it wants, or good, bright clover and timothy hay. These feeds should be balanced with a carbonaceous feed. The best and cheapest for the calf six weeks old and over is cornmeal.

In milk, nature provides a balanced ration, but in running it through the separator, or removing the cream in any other way, the fat is removed. This must be supplied and the carbohydrates of corn prove an excellent substitute.

The milk should be as sweet as possible when fed and about the temperature of the cow, or about 100 degrees. It may then be balanced with shelled corn and fed in a clean trough.

Many farmers, of course, shake their heads and bring out the old saw: "When creameries come in, good calves go out," but it is none the less true that hundreds and thousands of farmers have shown themselves fully capable of developing a calf raised on skimmed milk that cannot be distinguished in the feed lot from the calf that has run with the cow and been fed in nature's way.

The mistakes farmers make in raising skimmed-milk calves, are feeding the skimmed milk sweet one day and sour another, feeding irregularly and feeding without a balance. If a calf does not do well, farmers double the skimmed milk ration, and the animal naturally becomes spindle-shanked. After two or three months of treatment of this kind, it cannot by any means be developed into a first class steer.

Another common mistake is in feeding oil meal as a balance for skimmed milk. Instead of balancing the ration, it makes it more unbalanced, for skimmed milk and oil meal are both highly albuminous, or nitrogenous products. The skimmed milk itself has this element in excess. Neither will oats, barley or wheat balance the ration.

Skimmed milk may be balanced by corn or Kaffir corn. These are the cheapest and also the best ingredients. Therefore if the calf is not doing well, don't double the amount of skimmed milk, but divide the latter between the calf and the pig and divide the corn between the pig and calf.

Corn alone is an unbalanced ration for the young and growing pig, just as skimmed milk is for the calf. On the ordinary farm the calf needs what the pig gets in excess, and on the average farm where dairying is followed, the pig needs what the calf gets in excess. Divide their rations and you will benefit both.

**Growing Fine Tomatoes.**

Tomatoes require good, rich soil, such as should be found in all gardens. They should be grown from plants that have been developed in the hotbed and gradually hardened. Care should be taken to protect them from frost. Set the plants out three feet each way and cultivate as you would corn. Alongside of each plant put down a good stake about five feet high and three inches in diameter. As soon as the tomato plant is five or six inches high, take a cloth or soft twine and tie the bottom of the plant loosely to the stake and pinch off all side branches. As the plant develops, tie it to the stake every six inches or so, tying tighter as it nears the top. The side shoots should be pinched off. This insures a vigorous stalk with fine fruit. It will require only a few stalks handled this way to supply an average family.



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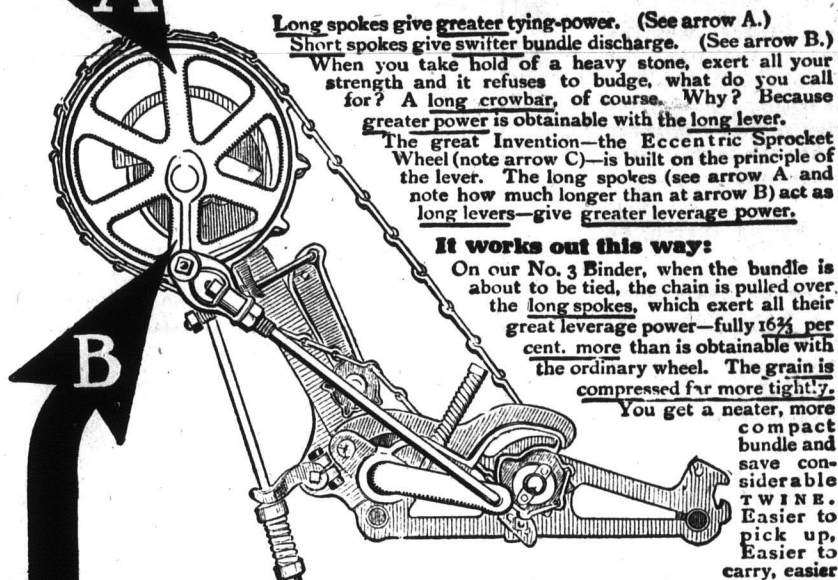
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Long spokes give greater tying power. (See arrow A.)  
Short spokes give swifter bundle discharge. (See arrow B.)  
When you take hold of a heavy stone, exert all your strength and it refuses to budge, what do you call for? A long crowbar, of course. Why? Because greater power is obtainable with the long lever.  
The great invention—the Eccentric Sprocket Wheel (note arrow C)—is built on the principle of the lever. The long spokes (see arrow A) and note how much longer than at arrow B) act as long levers—give greater leverage power.

#### It works out this way:

On our No. 3 Binder, when the bundle is about to be tied, the chain is pulled over the long spokes, which exert all their great leverage power—fully 167% per cent. more than is obtainable with the ordinary wheel. The grain is compressed far more tightly.

You get a neater, more compact bundle and save considerable grain. Easier to pick up, easier to carry, easier to shock.

Immediately after our Knotter ties the bundle, the chain is pulled over the short spokes (see arrow B) and note difference in length of spoke as compared with arrow A). The shorter spokes greatly increase the speed of the chain. The bundle is given a swifter discharge than with ordinary wheel, and the needle is speedily brought back, out of the way of the downcoming grain, into position for the next sheaf.

The Eccentric Sprocket does this, too—it prevents that "jar" or "jerk" always noticed on other machines when a bundle is being tied and discharged. You will not feel it on the No. 3; neither will your horses be annoyed by it, nor "the life" of the machine be shortened. Frost & Wood No. 3 runs along and does its work without even a suggestion of that "jerk."

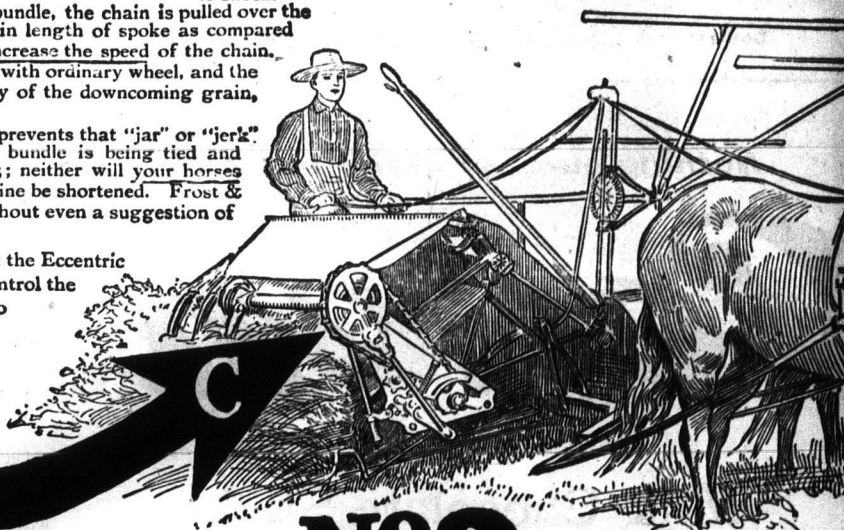
Now, you see why every maker would put the Eccentric Sprocket Wheel on his binder if we did not control the patents for Canada. You see why it's wise to invest a post card and get our Binder Booklet so as to become thoroughly posted on the peer of them all—the Frost & Wood No. 3.

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