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 A SOLID PROPOSITION to send new, well made, very reliable, perfect separating separator for only \$17.00. Creamy skims warm or cold milk. Makes heavy or light cream. For a complete manual, apply at once. Different from others, which illustrate larger capacity machines. See our easy Monthly Payment Plan.
 Shipments made promptly from Winnipeg, Man., Toronto, Ont. and St. John, N. B. Whether dairy is large or small, write for literature, price catalog and easy payment plan.
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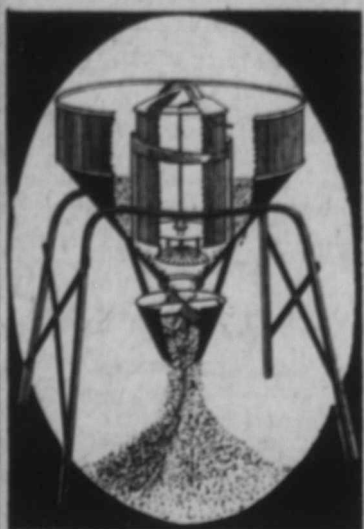
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Farm Machinery

The need of ordering farm machinery repairs now and not leaving it until nearly seeding time is imperative. No farmer has a right to expect any implement dealer to have a huge stock of supplies on hand waiting for the farmer to come in and get them. It is the duty of the farmer to let the implement man know ahead just what he requires. The demand for steel is too great at present and its cost too high for the dealer to keep a big surplus stored away awaiting contingencies. Manufacturers are short of material and may not be able to replace broken parts in time if they are not ordered immediately. Every day should be repair day until machinery is put in shape. In United States the government has recognized the importance of farm machinery by giving the raw materials from which it is made a rating of B1 on the railways, second only to munitions. This is so that farmers will not be delayed in receiving their new machinery. The part of the farmer is to do his ordering just as quickly as possible.

EFFICIENCY OF MILKING MACHINES

The Dominion Experimental Farms Branch at Ottawa in a recent Circular, No. 13, advocates the milking machine as a partial solution of the labor problem. The principal facts brought out by this pamphlet are set down below:—

There has been in the minds of many dairy farmers a great deal of prejudice against the use of a mechanical milker, but the present is no time to let prejudice stand in the way of increased production. Every dairy farmer

power, labor in caring for engine and washing machines, interest on investment, and ten per cent. depreciation on machine, would amount to approximately \$225. The above is approximately one-third of what the farmer is at present paying his hired man, whose board is not taken into account. Divided between 30 cows, this brings the running expenses to two cents per cow per day.

The average hired man will not milk more than seven cows per hour, which, at 25 cents per hour, costs 7.2 cents per cow per day for hand-milking. One man with a milking machine can milk 20 to 25 cows per hour, which brings the total cost of machine-milking, including the above-mentioned daily running expenses, to 4.5 cents per cow per day. This is a saving of considerably over one-third and in a large herd would enable the farmer to dispense with at least one, if not two, men, or it would liberate these men for other important lines of increased production. It also enables one man to milk many more cows than it is physically possible for him to milk by hand.

Not only does a machine decrease the cost of milking, but it gives uniformity in milking. All cows are milked in the same manner every day, and every good dairy farmer knows this is important and that it is hard to obtain with the general run of farm hands. A machine when properly installed and equipped with a reliable source of power is always there ready for work. Breakdowns are comparatively rare and usually easily remedied. Wear and tear is not excessive, considering the nature of the machine, and provided the latter is given proper attention.



A Home-made Tractor that Performs a Great Variety of Services on the Farm

with a herd of 12 or more cows should consider seriously the installation of a milking machine. The experience of an ever-increasing number of practical farmers, coupled with that of a number of the Experimental Farms and Stations, goes to prove that these machines are decidedly advantageous.

The average cost of installation, taking into consideration the five most popular machines on the market, would be about \$500 for an outfit to milk four cows at once. Such an outfit would be large enough for a 25- to 35-cow herd. For a 20-cow herd a 3-cow outfit would be sufficient. For a 12- to 15-cow herd a 2-cow outfit would be sufficient. For each reduction of one unit in the installation there will be a reduction of approximately \$100 in the cost price. This brings the average cost price to \$16.60 per cow for the large herd; \$20 per cow for the medium-sized herd; and \$25 per cow for the small herd. This in turn goes to show that while the cheapest installation for work done is with the large herd, nevertheless the first cost is not excessive in the case of a small herd.

Cost of Operation

The annual cost of operation for a 25- to 35-cow outfit, including repairs,

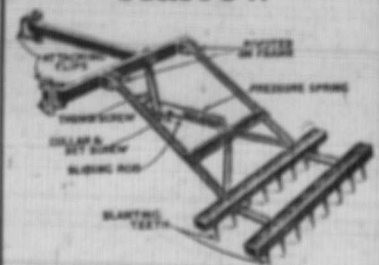
A machine that is properly adjusted and handled will not injure the cow's teats or udder any more than the average farm hand. Three years' experience of mechanical milkers on the Central Experimental Farm at Ottawa does not show that the cows dry off any more quickly than when milked by hand. There is no more, if as much, objection to the milking machine on the part of the cows than there is to hand-milking. Old cows used to hand-milking object most, and may not let down their milk readily, but heifers take to machine milking very readily and require hardly any stripping. Stripping by hand after taking the machine off is advocated by all users, as well as makers, as a precautionary and economical measure.

If the machines are properly handled in the barn and likewise properly washed in the dairy, the milk produced will be as good, or better, than that produced by hand-milking. Where extra pains are taken with the machines and the care of the milk a very high grade milk can be produced. Careless handling results in bad milk and ultimate failure of the machine.

Efficiency of Operation

Of more importance, however, than

The Ideal Harrow



The best, lightest, most efficient, and practical Harrow Attachment on the market. Fits any high lift gang plow. No extra horse necessary, no dragging while turning, the harrow rising with the plow when leaving the furrow. By simply tightening the spring any desired pressure may be used on the harrow.

You cannot afford to be without one of these harrows this spring—they pay for themselves several times over, by saving labor and conserving moisture.

Guaranteed to give perfect satisfaction on any kind of land, no matter how wet or stony. Price \$13.50 delivered at your station.

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 Has the unique low-lever with adjustable handle—movable to center, right, or left, as desired. Ask your dealer.
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Engine Gang Shares, all makes, each \$4.50
 Harrow Teeth, each .07
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