

# Independent of Hired Men



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## EMPIRE MECHANICAL MILKER

In half an hour one man can milk from 10 to 15 cows with a small "Empire" unit consisting of one double unit. One man can operate two double units. This makes milking a "snap".

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The action of the "Empire" scientifically imitates that of a sucking calf, drawing the milk in spirit, and in most cases it actually increases the flow of milk. It cannot harm the cows and it protects the milk from dirt, germs and all its odors.

We have an interesting booklet illustrating and describing the "Empire" mechanical milker which we will send you on request. Write Dept. 5

The Empire Cream Separator Co. of Canada, Limited

MONTREAL, TORONTO, WINNIPEG.



## Contagious Abortion: Its Spread and Control

(Continued from page 5.)

organs—vagina, uterus, oviducts, and ovaries—and learn the character of the disease. If it is curable, the necessary treatment should be applied; if incurable, the animal should be sent to the butcher.

When mastitis, of "target," of the above described type occurs, each case should be handled by a competent veterinarian. The dairyman should always bear in mind the danger of this infection being transferred from the diseased quarter to the healthy quarters of the same cow, and to the healthy udders of other cows, through error on the part of the milker. A diseased udder should be the last in the stable to be milked, and the diseased quarters should be milked last. The diseased milk should be drawn into a pail partly filled with a strong antiseptic solution and safely disposed of, and the udder, as well as the hands of the milker, carefully washed and disinfected.

### Treatment for Bull.

It is essential, in carrying out any plan of sexual hygiene, to include the bull. His sheath and penis should receive the same care as the vagina and vulva of the cow. In general, the sheath of the bull should be doctored two or three times a week throughout the year when not in active use. At the time of breeding, the parts should be doctored shortly before and immediately after each service.

The most practical method for carrying out the doctored of the vagina of cows and the sheath of the bull and washing the vulva, tail, thigh and udder, from the standpoint of efficiency and economy, is as follows:

For the irrigation of the genital organs and the tail, vulva, thigh and udder of the cow, we recommend a gravity apparatus consisting of an ordinary galvanized pail of about six gallons capacity (for large herds), fitted with a stopcock. To this stopcock attach a pure gum horse catheter with a tube. Having filled the pail with the desired solution, elevate the apparatus to about three feet above the cow, thus securing sufficient gravity pressure to cause the solution to flow freely. This is most conveniently accomplished by mounting the pail on a manure track or special track constructed for the purpose. The end of the stomach tube is inserted into the vagina and the solution allowed to flow into it by gravity until it is completely filled. Any time can make the pail to order. The stomach tube may be obtained from any dealer in veterinary instruments.

The tube recommended for cows is too large to enter the sheath of the bull freely. Instead, one should use a pure gum horse catheter. Since the catheter is too short to afford the desired gravity pressure, its length should be increased by the addition of a piece of ordinary rubber tubing of about the same size. The pail recommended for cows is unnecessarily large for bulls, and should be replaced by a vessel of one gallon capacity. In doctored the bull, the tube is first to be filled with the fluid, the end of the catheter introduced well inside the sheath, and the sheath opening compressed by the hand until the sheath is completely distended.

"The pig that is being grown and fattened for market," says the Indiana Farmer, "should have between six-tenths and seven-tenths of a pound of digestible protein daily, per lb. of live weight and this should be fed during the growing period. During the fattening period about half of this amount is sufficient. The reduction, however, should be made gradually, and extended during a period of four weeks time."

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1 lb. package, postpaid, at 30c; 1 lb. express or freight collect, 25c. In 10 lb. lots, 5 lbs. or more ordered of one variety, 25c lb. Same postpaid, 25c lb. Yellow Intermediate, M. & M. 604 Long Red, Plant Height 60c, 2c per lb. lower than above prices. White Intermediate Carrot, 2c per lb. Ask for complete catalogue.

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Canadian Blue Pearl ..... 2.15 and 2.00  
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