

Cutter's Germ Free Blackleg Filtrate and Blackleg Tissue Aggressin

**The New, Safe
and Efficient Agents
for Protecting Calves
from Blackleg.**

Cutter's Blackleg Filtrate positively protects against Blackleg.

Cutter's Blackleg Aggressin, made directly from animal tissues, affords even greater protection and is recommended for Pure Breds.

Neither the Filtrate nor the Aggressin can possibly produce Blackleg in even the most susceptible animals since both are germ free.

Both have given 100% protection wherever used.

Prices—
10 dose pkge. Filtrate....\$2.00
50 " " "8.00
100 " " "15.00
10 dose pkge. Tissue Aggressin4.00

N. B.—Cutter's Filtrate (a "cultural product" aggressin) is full 5 cc. to the dose, as we believe that smaller doses, whether concentrated or not, afford less protection.

Write for booklet telling what germ free vaccines are and wherein "cultural product" Aggressin differs from Cutter's Aggressin made from animal tissues.

While these new "germ free vaccines" have advantages that should be known to every stock raiser, we see no reason for a quick change to them by stock raisers who have had satisfactory results from the use of

CUTTER'S BLACKLEG PILLS

**"California's Favorite"
for nearly 20 years**

Year in and Year Out they have given better satisfaction than any other vaccine made, and as far as price and convenience of administration are concerned, they have all the advantage.

Prices—
10 dose pkge. Single pills \$1.00
50 " " "4.00
10 dose pkge. Double Pills 1.50
50 " " "6.00
Cutter's Pill Injector.... 1.50

Insist on Cutter products. If unobtainable, order direct. We pay shipping charges.

The Cutter Laboratory, Berkeley, Calif.
(U. S. LICENSED)

"The Laboratory That Knows How"

The Cutter Laboratory of Illinois, Chicago
Eastern Agent

HOLSTEINS

1 bull 2 years old; 1 bull 18 mos. old, from a 23½ lb. 3-year-old dam. One bull 13 mos.; others younger.
R. M. Holthy, Port Perry, Ont.

KING SEGIS PONTIAC DUPLICATE

A ¼ brother to the \$50,000 bull is the sire of our young bulls offered at present. Two of these are ready for service. Write us also for females.
R. W. Walker & Sons, Manchester Station,
G.T.R., Port Perry, Ontario

BONANZA STOCK FARM

I am offering a few Holstein bulls, calves, and year olds, from a heavy milking strain. Priced right for quick sale. Herd headed for years by the best sires. Write for prices.
W. W. Scott, Moorefield, Ontario

The Silo an Economic Necessity.

The cheapest and best ration for live stock must contain a reasonable amount of succulent feed. An abundance of suitable pasture is unexcelled, and a substitute for this feed in winter or during a drought in summer is essential for greatest production and profits.

In view of the scarcity and high prices of grains and meals the silo takes on an increased value. For example.—100 pounds total digestible nutrients in corn silage has a net cost of 54 cents, in bran \$2.31, corn \$4.02, oats \$4.29, etc., when silage costs \$3.00 per ton to raise and store and other feeds are valued at present wholesale market prices. Even in these times of expensive labor, seed, horse labor and machinery, corn may be placed in the silo at the above cost. Surely this is sufficient reason why every live stock farmer should consider the increase in silage production.

The adaptability of the silo to various parts of Canada depends on the location, varieties of crops which may be grown, and, to a lesser extent, on the class of stock maintained. No farmer with two or three cows should think of building a silo, but for a herd containing ten cows or more, or the equivalent, a silo may advantageously be erected. Silage is fed pre-eminently suited to the feeding of dairy cattle. It, however, is a very excellent and cheap feed for beef cattle, sheep and horses. In the majority of the best live stock districts in Ontario and Western Quebec, silos should be on every stock farm. In the Maritime Provinces, Eastern Quebec and British Columbia, all large stock farms, particularly of dairy cattle, can use a silo to excellent advantage. If any particular district is not suited to corn growing, peas and oats, peas, oats and vetches, clover, alfalfa, etc., may be substituted for that crop. In the Maritime Provinces, silos on many farms, particularly on large stock farms, are operated satisfactorily.

Silage at \$3.50 per ton is cheaper cattle feed than mixed hay at \$12 per ton. Corn silage is 30 per cent. better than shocked corn from field. The same holds equally true of unthreshed oats or oats and peas saved for winter feed. Silage from peas and oats produced milk 20 per cent. cheaper than oat sheaves, 30 per cent. cheaper than straw and turnips, and 40 percent. cheaper than hay. At the same cost per ton, silage is better feed than roots for beef or dairy cattle. Moreover, considering present labor conditions as well as cost of harvesting, keeping qualities and cost of storage, silage, where grown successfully, is more economical than roots. Silage needs no pulping or other preparation for feeding. Silage for winter use is in itself the cheapest feed, and it also makes all other roughages and grains more palatable, wholesome and profitable.

Good pasture, if available, is the cheapest summer feed. Where permanent pastures fail, an annually sown pasture of rye or oats and barley may, under present labor conditions, be the cheapest substitute. However, the use of soiling crops or summer silage may be the only available means of providing succulents. As a rule, silage is more profitable and more cheaply grown than are soiling crops and is more cheaply harvested and fed during the busy season. Milk produced on corn silage and green cut alfalfa cost in feed 66 per cent. per cwt.; produced on corn silage and mixed hay may cost 70 per cent. per cwt.; produced on soiling crop (peas and oats) cost \$1.04 per cwt. With all lots, the heavy milkers received some grain. Where suitable pastures are not available the summer silo provides the cheapest feed and greatest profits.

Finally, the farmer with a silo need never fear losing a crop of clover, alfalfa or late-sown grain. Silage making does not depend on the dryness of the weather. The silo is the cheapest storage building on the farm in proportion to the tonnage capacity. The silo allows the carrying of more stock per acre on the farm and is a labor saver, a money maker and a soil enricher. This is the season of the year to build more and better silos. Experimental Farms Note.

The total loans to the Allies from the United States now amount to over \$5,000,000,000

NINTH ANNUAL

Live Stock Show

of the Live Stock Breeders' Association of the district of Beauharnois Ltd., will be held at

Ormstown, Quebec, June 4, 5, 6, 7th

Prize List for 1918 is increased to

\$15,000 IN PRIZE MONEY

Show will open at 8 p.m., June 4th, in the large Stadium, with judging of driving horses, and continue daily at 10 a.m., 2 p.m., and 8 p.m.

Horse racing on June 5, 6, 7th.

Plan to visit this show this year and see one of the best live stock shows in Canada. Admission, adults 25c., children 15c.

Neil Sangster, President, W. G. McGerrigle, Sec.-Treas.

Manor Farm Holstein-Friesians

If it's a herd sire you want, write me. I have sons of both my senior and junior sires, King Segis Pontiac Posch and King Korndyke Sadie Keyes. All are from good record dams.

Choice bull calves at present to offer — average for two nearest dams, up to 34.71 lbs. butter in seven days. Correspondence solicited, visitors welcome.

Gordon S. Gooderham Stations: Clarkson and Oakville Farm on Toronto and Hamilton Highway Clarkson, Ont.

Hospital for Insane, Hamilton

We offer bulls only for sale, but they are from some of the choicest cows to be seen in any herd, and bulls equal to the best.

—Apply to Superintendent

CHOICE BULLS—Ready for Service

No. 1—By a son of MAY ECHO SYLVIA His two nearest dams (both Canadian champions) average 35.62 lbs. butter in seven days. Price \$1,000.

No. 2—By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old) average 34.17 lbs. butter in seven days. Price \$600.

Some extra choice young bull calves, from \$300 to \$1,000. We have sold 37 bulls this winter.

HIGHLAND LAKE FARMS

R. W. E. Burnaby - Farm at Stop 55, Yonge St. Radial - Jefferson, Ont.

"GOING TO SELL 'EM"

We have 5 thirteen-months bulls and are going to let them go. Three are by Pontiac Korndyke of Het Loo and brothers to Het Loo Pieterje (the world's champion heifer) while the other two are by King Segis Alcarra Spofford and Dutchland Colantha Sir Mona. Act quick if you want them
W. L. SHAW. (Electric cars from Toronto) Roycroft Farm, Newmarket, Ontario

SUMMERHILL HOLSTEINS

Present offering: Two bulls fit for service, both show animals, with excellent breeding, will be sold. Cheap if taken at once.

D. C. FLATT & SON

Long-distance phone

R.R. 2, Hamilton, Ont.

DUMFRIES FARM HOLSTEINS

Present Offering—A few bull calves.

S. G. & ERLE KITCHEN

ST. GEORGE, ONT.

SILVER STREAM HOLSTEINS

Present Offering—six extra well bred bull calves, sired by bulls with 34-lb. backing, and from tested dams, individually as good as their breeding. For fuller particulars and prices, write, or better come and see them.
J. MOGK & SON, R. R. 1, TAVISTOCK, ONTARIO

Cloverlea Farm Holstein-Friesians

Offers for sale a choice young bull three months old, out of a 20.3-lb. dam. For price and extended pedigree write to

GRIESBACH BROS.

COLLINGWOOD, ONTARIO

Choice Grandson of Queen Butter Baroness

I am offering a choice 14-months bull from a 21-lb. junior two-year-old daughter of Louis Prilly Rouble Hartog, and sired by Baron Colantha Fayne, a son of Queen Butter Baroness, the former 33-lb. Canadian champion cow. Also have others younger. T. W. McQUEEN (Oxford Co.) TILLSONBURG, ONT.

WALNUT GROVE HOLSTEINS

I am offering a choice lot of bull calves, all sired by May Echo Champion, who is a full brother to the world's champion, May Echo Sylvia. All are from R.O.M. dams and good individuals. Also have the usual offering in Tamworth swine.
C. R. JAMES. (Take Radial Cars from North Toronto) RICHMOND HILL, ONTARIO

SOVEREIGN STOCK FARM

The home of Baroness Madoline; 34.48 lbs. butter in 7 days, 1,043.75 lbs. in 335 days, over 87,200 lbs. milk in 47 months. We are offering a few of her grandsons up to 6 months old.
WM. STOCK & SON. Phone Innerkip 3, on line 25. R.R. No. 1, TAVISTOCK, ONTARIO

RIDGEDALE STOCK FARM

offers for sale young bulls from high-testing dams, such as Lakeview Dutchland Wayne Rose, the highest producing cow of her age in the world. It will pay you to inspect these before buying.
DR. F. A. HESLOP, Prop., R. R. No. 1, FREEMAN, ONTARIO. CHAS. HESLOP, Manager

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