



There's a Right Way to Feed Stock

Millions more of good dollars would lie snugly in the pockets of American farmers and stock feeders, if the fundamental principle of successful feeding were better understood. And this principle is the same for sheep, cow, steer, horse or hog. In a word it's this—**keep the digestive function healthy and active.** Your fattening steer, growing sheep or milking cow, must consume large daily rations of rich foods, or they will not produce more than nature requires for maintenance. And—if the digestive organs are not strong, this heavy feeding will result in impaired appetite, stomach derangement and loss. To obviate this danger, Dr. Hess (M. D., D. V. S.) offers an unfailing preventive—

DR HESS STOCK FOOD

Not a food ration, but a **tonic**, which acts upon the digestive organs, and not only keeps them at healthy, normal activity, but gives **added power**, so that a feeder may steadily **increase** the mess up to the capacity of the animal. This is "**The Dr. Hess Idea**" of feeding, and to follow it on the farm means more milk from the cows; bigger, fatter steers; thrifty, growing sheep; vigorous, handsome horses, and fat, sweet, wholesome pork. Dr. Hess Stock Food is sold on a written guarantee. The dose is small and twice a day is often enough to give it.

100 lbs. \$7.00; 25 lb. pail \$2.00. Smaller quantities at a slight advance. Duty paid. DR. HESS & CLARK, Ashland, Ohio, U. S. A.

Also manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer. FREE from the 1st to the 10th of each month—Dr. Hess (M.D., D.V.S.) will prescribe for your ailing animals. You can have his 96-page Veterinary Book any time by asking.

Send 2c stamp and mention this paper.

DR. HESS POULTRY PAN-ACE-A

does away with the **doubtful side** of poultry keeping, and makes it a positively successful venture for the man or woman who uses it. Poultry Pan-a-ce-a aids digestion, promotes assimilation, makes pure blood and good health. Fed in small portions once a day in soft feed as Dr. Hess directs, it increases egg production as no other known preparation will. It is not a condiment but a tonic, and is as beneficial to growing chicks as to laying hens. It helps through the moulting period and fatten old fowls in a short time. It cures Gapes, Cholera, Roup, etc. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1 1/2 lbs. 35c.; 5 lbs. 85c.; 12 lbs. \$1.75; 25 lb. pail \$3.50. Duty paid.

Send 2 cents for Dr. Hess 48-page Poultry Book, free.

INSTANT LOUSE KILLER KILLS LICE



THE GOLDEN LAD BULL,

"Golden Fox of Dentonia," at 3 years old a Toronto champion, at the head of my St. Lambert herd. Some beautiful young stock of both sexes for sale from him.

T. PORTER, 360 St. Clair Ave., Toronto.

ARE YOU IN WANT OF A CHOICE BULL TO HEAD YOUR HERD?

We are offering choice bull calves sired by Fountain's Boyle, who won first prize at Toronto, London and Ottawa, who also headed first-prize herd at Toronto and Ottawa. Also offering some choice heifers.

D. DUNCAN, DON, ONT.

DUNCAN STATION, C. N. O.

WOODBINE STOCK FARM

Offer a number of Holstein cows, heifers and young bulls at moderate prices, sired by Sir Creamelle, whose breeding combines the blood of DeKol Creamelle, word's champion milk cow, with that of Duchess Ormsby, highest-testing family of the breed. Write for anything you want.

A. KENNEDY, Ayr, Ont.

Imperial Holsteins!

For sale: Bull calves sired by Tidy Abbekirk Mercedes Posch, whose seven nearest dams have records within a fraction of 27 pounds, out of show cows with high official records. A most desirable lot of coming herd-headers. W. H. SIMMONS, New Durham P. O., Ont., Oxford County.

Holsteins at Ridgedale Farm—Eight bull calves on hand for sale, up to eight months old, which I offer at low prices to quick buyers. Write for description and prices, or come and see them. R. W. WALKER, Utica P. O., Ont. Shipping stations: Myrtle, C. P. R., and Port Perry, G. T. R., Ontario Co.

Glenwood Stock Farm—Holsteins and Yorkshires. Holsteins all sold out. Have a few young Yorkshires sows, about 2 months old, for sale cheap. True to type and first-class. Bred from imported stock. Thos. B. Carlaw & Son, Warkworth P. O., Ont. Campbellford Station.

The Maples Holstein Herd!

RECORD-OF-MERIT COWS.

Headed by Lord Wayne Mechthilde Calamity. Nothing for sale at present but choice bull calves from Record-of-Merit dams. Walburn Rivers, Feiden's Corners, Ont.

Holsteins—Maple Grove offers a few richly-bred young cows, safely in calf to Sir Abbekirk De Kol 2nd and Mercena's Sir Posch; also young stock sired by above bulls. For description and prices write

H. BOLLERT, Cassel, Ont.

Holsteins

the "world's champion milking" day, over 10,000 lbs. in 100 days. Also for sale daughters of De Kol 2nd Mutual De Kol, which gave over 31 lbs. butter in 7 days, also daughters of Hengerveld De Kol. Other leading breeds represented. Putnam station, near Ingersoll.

H. E. GEORGE,

CENTRE AND HILLVIEW

Holsteins

140 head, 45 females in R. O. M. Herd headed by Brookbank Butter Baron, Bonheur Statesman and Sir Sadie Cornucopia Clothilde. The average of dam, sire's dam and granddam is: milk in 7 days, 662.85 lbs.; butter in 7 days, 30.58 lbs. We have bulls born Mar., '09, to two weeks old for sale, from Record-of-Merit dams. Long-distance telephone. P. D. Ede, Oxford Centre, Ont., Woodstock Sta.

Lakeview Holsteins Herd headed by Count Hengerveld Fayne De Kol, son daughters averaging over 30 lbs. butter in 7 days, and whose dam (26.30 lbs. in 7 days) has a daughter with a record of over 35 lbs. in 7 days. Five bull calves from nine months old down from this sire for sale. G. T. R. and Hamilton Radial close to farm. Visitors met by appointment. E. F. OSLER, BRONTE, ONTARIO.

WORLD'S CHAMPION BRED BULL

Grace Fayne 2nd's Sir Colantha.

Sire Colantha Johanna Lad. Dam Grace Fayne 2nd. Average butter record for 7 days of his dam, sire's dam and sister is 32.35 lbs. Average milk for one day of dam and sire's dam is 104 lbs. Choice young bulls for sale.

M. L. & M. H. HALEY, Springfield, Ontario

HERE AGAIN!

With high-class HOLSTEINS for sale, of all ages, except bulls for service. CHEESE is HIGH! Why not invest AT ONCE? We sell at BARGAIN prices. Write or call, we're always home. Railway connections good.

E. & F. MALLORY, Frankford, Ont.

High-class Holsteins

Head of herd, Pietie nearest dams average 26.09 lbs. butter in 7 days. Two sire's dam, Pietertje 22nd, has a record of 31.62 lbs. butter in 7 days. Present offering: 2 heifers, due to calve in April, at a bargain before Dec. 1 to make DeKol, out of officially-tested cows.

WM. C. STEVENS, PHILLIPPSVILLE, ONT.

Maple Hill Holstein-Friesians

FOR SALE—Julia Arthur 2nd, calved Aug. 1st, 1905, 9,219 lbs. milk and 312 lbs. fat in one year; calving in Aug. at 3 yrs. 8 days old. Freshened Oct. 19th, '09. Price \$200 cash. Also bull calves. G. W. CLEMONS, ST. GEORGE, ONT.

HOLSTEIN CATTLE!

If you are thinking of buying a choice young cow or heifer in calf, come and see our herd. Will sell anything. Have a dozen beautiful heifers safe in calf to Summer Hill Choice Goods (imp.), who has five sisters averaging 29 1/4 lbs. butter in 7 days, and one sister that held world's record as 4-year-old with 31.60 lbs. butter. Write us what you want. We will guarantee everything just as described. Visitors met at Hamilton by appointment.

D. C. FLATT & SON, Millgrove, Ont.

L. D. Telephone 2471, Hamilton.

FOR SALE: COWS AND HEIFERS

All ages. Also bull and heifer calves, including daughter and granddaughters of Pietertje Hengerveld Count De Kol, whose TWO famous daughters made over 32 lbs. butter each in 7 days, and sire of cow, De Kol Creamelle, which gave 119 lbs. in one day, over 10,000 lbs. in 100 days. Also for sale daughters of De Kol's 2nd Mutual De Kol, which gave over 31 lbs. butter in 7 days, also granddaughters of Hengerveld De Kol. Other leading breeds represented. Putnam station, near Ingersoll.

H. E. GEORGE, CRAMPTON, ONTARIO.

Fairview Herd

offers for sale a son of Rag Apple Korndyke. His dam is a daughter of Pontiac Korndyke, with an A. R. O. record of 13.88 lbs. butter in 7 days at two years. Price, \$150.00.

E. H. DOLLAR, Heuvelton, N. Y.

NEAR PRESCOTT.

Maple Glen HOLSTEINS For sale: Two 3-year-olds, bred to a son of Brown Bros. 30 lb. cow, due to freshen next March. Netherland Johanna Mercedes, a 15.70 lb. Jr. 2-year-old, due last of December to King Fayne Segis, a son of world's champion cow. Also two bull calves, from tested dam, born last June, sired by King Fayne Segis. G. A. GILROY, June Buell, Ont. Long-distance phone.

AVONDALE HOLSTEINS

Offers for sale high-class Holsteins all ages. Herd headed by Prince Hengerveld Pietie, a son of Pietie 22nd's Woodcrest Lad, out of Princess Hengerveld DeKol, a daughter of Hengerveld DeKol, with record of 20.34 lbs. butter at 23 months. We also offer some fine young Yorkshires pigs of choice breeding.

ARTHUR C. HARDY, BROCKVILLE, ONTARIO

EVERGREEN STOCK FARM

offers choice young Holstein Bulls, from 10 to 11 months, sired by Sir Mercena Fatorite, whose dam and gr. dam averaged 80 lbs. milk per day, and 24.60 lbs. butter per week. Their dams also in A. R. Also choice females for sale. F. E. Pettit, Burgessville, Ont.

QUESTIONS AND ANSWERS. Miscellaneous.

RATION FOR STEERS.

Having no hay this year, have to feed beef cattle cut straw and silage, mixed, and have to be sparing of the silage; intend feeding twice a day. How much chop should I feed per day at two feeds to steers weighing now about 800 or 900 pounds each? The chop will be mixed chop, say three bushels oats, two bushels barley, and one bushel peas, by measure. Have had the steers in for two weeks, but am only feeding very light on chop yet. Would like to have steers ready for the block by first of May at the latest.

J. McL.

Ans.—Assuming that the steers are now eating about 30 pounds of silage and 8 pounds oat straw, we would recommend commencing with a pound of bran per day, added to whatever meal they may be getting. Then, in about two weeks' time, prepare a mixture of 8 parts of chop, by weight, to 2 1/4 parts oil cake, and substitute this for whatever chop the steers may be then receiving, with the bran extra to the end, the mixture of chop and oil cake to be fed in gradually increasing quantities until at the close of the feeding period the steers may take about ten pounds of the mixture besides the pound of bran. The bran should be mixed with the rest of the concentrates in feeding; we have mentioned it separately to make it clear that we would feed each steer about a pound per day, from beginning to end of feeding period.

RATION FOR COWS—PEA-AND-OAT HAY—PROBABLY WHITE GRUBS.

1. I have 7 cows milking, all due to freshen in March. Are giving an average of 11 lbs. of milk per day. Am feeding 30 lbs. turnips, 4 lbs. bran, one feed of swamp hay, and one of unthreshed oats to each cow per day. Can you suggest a more suitable ration for these cows? Bran is worth \$19, and shorts \$20 per ton. Oats 32c., peas 70c. and buckwheat 40c. per bushel.

2. How do peas and oats, cut green, and saved as hay, compare with clover hay and good oat straw, for feeding to milch cows and young cattle and colts?

3. I plowed up a field this fall which had been in sod for five years. In the bottom of the furrow I saw quite a lot of white worms an inch or more in length, with dark-red heads. Will those be likely to attack the grain next spring? Is there any way of poisoning or getting rid of them? What kind of crops will they be least liable to eat?

B. H.

Ans.—1. There is not much wrong with your feeding. It is not a balanced ration, according to the prescribed standard for milch cows, but as they are milking lightly, their needs are a sort of compromise between a maintenance and a milking ration. It would likely be an economical improvement to use less bran, adding some pea meal or oil cake instead, especially for the cows milking most liberally. For these, try two pounds bran, one pound pea meal, and one pound oil cake, making the change gradually. If they do not respond, go back to your present ration, which is a trifle cheaper. We rather think, however, that they will respond by maintaining, if not increasing their flow. With reference to the roughage mentioned, swamp hay is a very uncertain quantity. Henry gives the analysis of two kinds, one fifty per cent. richer in digestible nutrients than the other. He does not specify the varieties.

2. Very well.

3. We should judge the insects referred to are the white grubs which caused so much injury to pastures this past summer. They injure almost all crops, except clover, which is but little affected. There is no practicable method of extermination, save turning hogs into the field, these animals are fond of the grubs, and will root out and destroy many. Short rotation, leaving land seeded down not more than two years at a time, is a good method of treatment. The insects are likely to be more troublesome the second year than the first year after breaking. If you can sow rape or other crop for hog pasture the coming season, and then seed down with barley the next year, we should think you would be handling the field to best advantage.