

Save Money on Feed

In its natural state an animal eats to satisfy hunger, not to produce fat. But in its domesticated condition, quick growth and abnormal milk supply are the sole purposes in view. Now, with such unnatural conditions a breaking down or at least an impaired condition of the digestive organs is almost sure to occur. Then again, even a healthy animal wastes a large portion of its food through non-digestion, as is shown frequently by whole grain in the manure. The very fact that hogs can be fattened on the grain that passes through the other stock undigested is proof of wasted nutrition. Saving a part of this wasted feed by improving digestion is known as "The Dr. Hess Idea" of Stock Feeding.

DR. HESS STOCK TONIC

positively saves a part of the feed that naturally would be wasted by the healthy animal, and corrects digestive disorders due to heavy feeding; besides, it expels the worms and relieves the minor stock ailments.

Eighteen years on the market has firmly established Dr. Hess Stock Tonic as the necessity to profitable feeding for horses, cattle, hogs and sheep, and besides, every ingredient has the endorsement of our best medical writers. Dr. Hess is an M. D. and also a D. V. S. Now, about the cost—One additional pound of pork per month or an extra quart of milk a week pays for Dr. Hess Stock Tonic.

Our proposition. You get of your dealer a 25 lb. pail of Dr. Hess Stock Tonic at \$2.25 or 100 lbs. at \$7.00. (Duty Paid.) Use it all winter and spring. If it doesn't pay you and pay you well, get your money back. Every pound sold on the guarantee. If your dealer cannot supply you, we will.

Free from the 1st to the 10th of each month—Dr. Hess (M. D., D. V. S.) will prescribe for your ailing animals, 96-page Veterinary book free for the asking. Mention this paper and enclose 2c stamp.

DR. HESS & CLARK
Ashland, Ohio

DR. HESS POULTRY PAN-A-CE-A. This splendid poultry tonic and conditioner will make your hens lay better and help you trade off eggs to pay the family grocery bill. Wards off cholera, roup, gapes and other poultry ailments. Cost hardly worth considering—a penny's worth to feed 30 fowl per day. Sold under written guarantee.

1½ lbs. 35c; 5 lbs. 85c; 12 lbs. \$1.75; 25 lb. pail \$3.50. (Duty Paid.)
Send 2c for Dr. Hess 48 page Poultry Book, free.

INSTANT LOUSE KILLER KILLS LICE

SHORTHORNS, COTSWOLDS, BERKSHIRES.

11 bull calves, 10 heifer calves, and 40 head cows and heifers. Ram and ewe lambs and breeding ewes. Young boars, April and September litters.

Chas. E. Bonnycastle,
P. O. AND STA., CAMPBELLFORD, ONT.

Shorthorn Heifers

Have some excellent heifers all ages. Will make it worth your while if desiring anything in this line to call. Have also got some very nice bull calves.

WM. SMITH, COLUMBUS, ONTARIO

MAPLE LODGE STOCK FARM

1854—1911
Am offering a splendid lot of young Shorthorn bulls for sale now; good colors and choice individuals; several of them from high-class milkers. A few select Leicesters for sale yet.

A. W. SMITH, Maple Lodge, Ontario
Lucan Crossing, G. T. Ry., one mile.

OAKLAND SHORTHORNS

We have another lot of young bulls ready for fall and winter trade, out of good breeding dual purpose dams and sired by our herd header, Scotch Grey, 72692, one of the best bulls in Ontario; good cattle and no big prices. Will also sell a few cows and heifers; about 50 to select from.

JOHN ELDER & SON, HENSALL, ONTARIO

Fletcher's Shorthorns and Yorkshires

Stock bull "Spectator" (imp.) = 60094 = for sale or exchange; also choice heifers. I also offer my (imp.) Yorkshire boar for sale or exchange.

GEO. D. FLETCHER, Binkham, Ont.
Erin station, C. P. R.

SPRING VALLEY SHORTHORNS

Herd headed by the two imported bulls, Newton Ringleader, = 73783 =, and Scottish Pride, = 36106 =. The females are of the best Scotch families. Young stock of both sexes for sale at reasonable prices. Telephone connection.

KYLE BROS., - - - - - Ayer, Ontario

Shorthorns of Show Calibre

I have only three young bulls left, but every one will be a topper; sons of the greatest stock bull in Canada, Mildred's Royal, out of big, thick Scotch cows. For a show bull or show heifer, write us.

GEO. GIER & SON, Grand Valley, Ont.

Shorthorns

Choice selections of bulls and heifers at all times for sale at very reasonable prices. **Robert Nichol & Sons,** Hagersville, Ont.

Shorthorns and Oxford Down Sheep

Trout Creek Wonder at head of herd. Young bulls and heifers of richest Scotch breeding. Phone connection.

Duncan Brown & Sons, Iona, Ontario.

CALVES WITHOUT MILK

Write for Free Booklet

"How to Raise Calves Cheaply and Successfully Without Milk"

Contains full information and complete feeding directions for using

Blatchford's Calf Meal—The Perfect Milk Substitute

Three or four calves can be raised on it at the cost of one where milk is fed. No milk feed. The only calf meal manufactured in an exclusive Calf Meal Factory.

Established at Leicester, England, in 1800.

STEELE, BRIGGS SEED CO., LTD.
WINNIPEG, MAN. HAMILTON, ONT. TORONTO, ONT.



ARTHUR J. HOWDEN & CO.

ARE OFFERING

15 High-class Scotch Shorthorn Heifers

At moderate prices, including Cruickshank Nonpareils, Cruickshank Villages, Marr Emmas, Cruickshank Duchesses of Glosters, Bridgemaids, Bruce Fames, Kinellars, Clarets, Crimson Flowers, and other equally desirable Scotch families, together with a member of the grand old milking Atha tribe, which have also been famous in the showing.

Arthur J. Howden & Co., Columbus, Ont.

SHORTHORNS

Have now a choice lot of young bulls to offer; also with something nice in heifers. Catalogue of herd and list of young animals on application.

H. CARGILL & SON, Proprietors, Cargill, Ont., Bruce Co.
JOHN CLANCY, Manager

Shorthorn Bulls and Clydesdale Mares

If you are in the market for a young bull, write us for particulars, or, better still, come and see them. We have 13 young bulls, from 8 to 14 months old, of good breeding and quality. We also have four imported Clydesdale mares, safe in foal.

W. G. PETTIT & SONS, Freeman, Ontario

Bell phone. Burlington Jct. Sta., G. T. R., ½ mile from farm

THIS IS A GOOD TIME, AND I HAVE A GOOD PLACE, TO GET A HIGH-CLASS

SCOTCH SHORTHORN BULL CALF

by my great Whitehall Sultan sire, or a young cow in calf to him, to start a herd that will be gilt-edged.

SHROPSHIRE RAMS AND EWES, too, at low prices. **CHILDREN'S PONIES.** A **CLYDES-**

DALE FILLY, such as I can send you, is one of the best things any man can buy. Just write me and

say as nearly as possible what you want, and I will surprise you with prices on goods that are genuine.

ROBERT MILLER, STOUFFVILLE, ONTARIO

Clover Dell Shorthorns—Choice young animals, red and roan. Prices right. Write, or better come and see.

I. A. WAKELY, Bolton, Ont.
Bolton Sta., C. P. R., ½ mile from barns. Phone.

High Grove Jerseys & Yorkshires
No better blood in Canada. Present offerings: Choice young sows due to farrow in March. Jerseys, all ages, both sexes.

Arthur H. Tufts, P. O. Box 111, Tweed, Ont.

Brampton Jerseys
Bulls fit for service are getting scarce. Just a few left. Yearling heifers in calf are in great demand; 6 for sale; 6 now being bred.

B. H. BULL & SON, BRAMPTON, ONT.

QUESTIONS AND ANSWERS. Miscellaneous.

WEIGHT OF HAY IN MOW.

Would you kindly let me know the formula for estimating how many tons of hay are in a mow by measuring the mow?

P. J. R.

Ans.—There is no rule that will hold good uniformly. The number of cubic feet to the ton varies with the kind of hay, the condition in which it has been put into the barn, the depth and width of the mow, and the weight, if any, on top of it. The only way to get at anything definite would be to weigh a section of the hay. Estimates are made of from a cube of 7 feet up to a cube of 8 feet, or from 343 cubic feet to 512 cubic feet per ton. If well packed, the former estimate would likely be closer to the actual weight. Four hundred and twenty-five cubic feet is sometimes given as a ton of packed hay.

PROBABLY ROUP.

My hens have hard sores on the side of their eyelids and under their bills, somewhat like a wart. They are healthy and well housed and ventilated, and some are laying. What is best to do for them?

W. R. F.

Ans.—The symptoms indicate roup in one of its many forms. Disinfect the chicken house with an application of whitewash containing a five-per-cent. solution of carbolic acid. Feed well. Avoid drafts and bad ventilation. Keep house clean. Treat the sores with a five-per-cent. potassium permanganate solution. Give potassium permanganate or Epsom salts in the drinking water, about what can be held on a five-cent piece, to a gallon of water of the former, or a dessertspoonful of the latter. In bad cases it is better to kill and burn the birds, but as you say they appear healthy, a cure may be affected.

SILo FEEDING AND MEAT-CURING QUERIES.

1. How many tons of corn would a silo 14 x 26 hold?
2. What sized silo does it take to hold 100 tons?
3. Does corn keep as well in a 14-foot silo as in a smaller one?
4. How many tons is there in an acre of average corn?
5. Do you think a silo is a paying investment?
6. I am thinking of building a stave silo of double-inch lumber, nailed to strips on outside. Would half-inch lumber do just as well?
7. Would soft elm last as long as hemlock?
8. Would the staves made of soft elm do as well as rock elm?
9. Is there any way of curing beef for summer use?
10. Are oats fed whole as good for young pigs as crushed?

A. A.

Ans.—1. If allowed to settle and refilled, this silo would hold, approximately, 80 tons of silage.

2. A silo 30 feet high and 15 feet in diameter, or one 27 feet by 16 feet, would hold about 100 tons.

3. Yes; provided cattle are kept in large enough numbers to consume a reasonable quantity each day. About an inch and a half over the top surface should be used daily, and under no consideration should less than an inch be used.

4. From twelve to fifteen tons is usually calculated as a fair crop of corn.

5. A large one has been erected at "Weldwood," "The Farmer's Advocate" farm.

6. We think not. Why not build cement?

7 and 8. Elm would be likely to check and warp. The hemlock would doubtless be more satisfactory.

9. Many good recipes are known. We quote the following: Make a mixture of 9 lbs. salt, 3 lbs. sugar, 1 pint molasses, 3 ounces saltpetre, 1 ounce baking soda, 5 to 6 gallons water. Heat slowly till salt is dissolved, then boil and skim. Cover the meat with the mixture for five or six weeks, then smoke every day for a week.

10. Oats should be finely ground for young pigs.