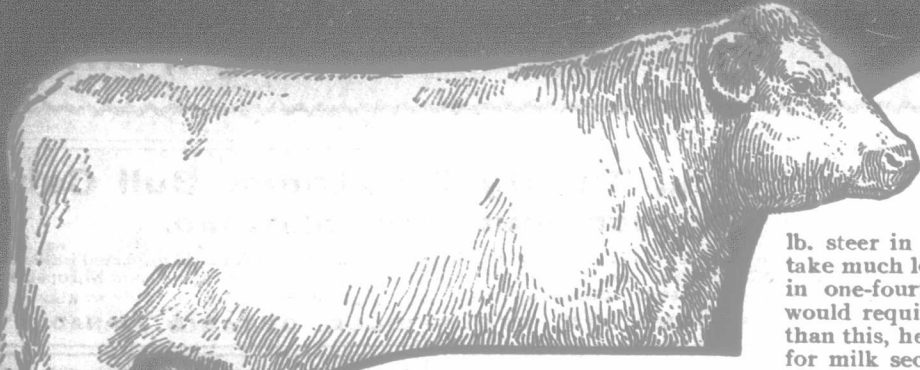


Do Healthy Animals Need A Tonic?



Probably not, if always permitted at liberty to secure such diet as Nature intended. We must remember, however, that the animal domesticated is subject to unnatural conditions. The feeder is striving to make a 1000 lb. steer in a year's time, when Nature would take much longer. He is making a 200 lb. hog in one-fourth the period unassisted growth would require for the same operation. More than this, he is asking the cow, whose capacity for milk secretion was limited to the brief infancy of the calf, to do violence to Nature's plan

and produce milk for eleven months. Now, of course, extra production means extra food, and extra food, if long continued, means a deranged digestive system. Hence it is easy to see that even a healthy animal continuously overfed needs the assistance of a corrective tonic.

DR. HESS STOCK FOOD

the prescription of Dr. Hess (M.D., D. V. S.) contains elements which the most advanced medical science recommends for the conditions we are considering—iron for the blood—bitter tonics for digestion and nitrates to expel poisonous matter. It gives appetite for roughage, thus saving more costly foods, and by increasing assimilation saves nutriment that would otherwise enrich the manure heap. Dr. Hess Stock Food makes more milk, hastens the fattening of a steer or hog and is the best known tonic preparation for horses. Sold on a written guarantee.

100 lbs. \$7.00; 25 lb. pail \$2.00

Smaller quantities at a slight advance. Duty paid.

Where Dr. Hess Stock Food differs in particular is in the dose—it's small and fed but twice a day, which proves it has the most digestive strength to the pound. Our Government recognizes Dr. Hess Stock Food as a medicinal compound and this paper is back of the guarantee. 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 for the asking. Mention this paper.

DR. HESS & CLARK, Ashland, Ohio, U. S. A. Instant Louse Killer Kills Lice.

Also Manufacturers of Dr. Hess Poultry Pan-a-cos and Instant Louse Killer.



ROCK SALT
for horses
and cattle,
in ton and
car lots.

**TORONTO
SALT
WORKS,
TORONTO.**

Brampton Jerseys!

Select your stock bull or family cow from Canada's most famous and largest Jersey herd.

**B. H. BULL & SON,
BRAMPTON, CANADA.**

Reinforce Your DAIRY HERD with the Blood of the Winners.

DON JERSEY HERD

can furnish you with young bulls sired by Golden Lad of Thorncliffe, who was the sire of the herd winning first prize for the progeny of one bull at the Toronto Exhibition, 1907. If you want practically money-making Jerseys secure one of these well-bred bulls. **D. DUNCAN, Don, Ont., Duncan Station, C. N. O.**

Jerseys & Extra Choice Young Bulls For Sale. 8 and 9 months old, grandsons of the great Financial King, out of large, heavy-milking dams. Inquiries solicited. **ARTHUR H. TUFTS, Box 111, Tweed, Ont.**

SPRING BROOK HOLSTEINS AND TAMWORTHS.—Holsteins of richest breeding and highest production. Tamworths of best British blood and ideal bacon type. Herd headed by prizewinning Imp. Knowle King David Stock of all ages and both sexes for sale. Young sows bred to imp. boar. Write, or come and see: **A. C. HALLMAN, Breslau, Waterloo Co., Ont.**

Holsteins and Yorkshires.



**R. HONEY,
Brickley, Ontario,**

offers a very choice lot of young bulls also boars and sows fit to mate.

Holstein Bulls For sale: One three-year-old; active, sure and perfectly quiet. Also bull calf two months old. Prices right for this class of stock. **JAS. M. BOYD, Grey Gables Stock Farm, Lynden, Ont.**

MAPLE GROVE HOLSTEINS.—Herd headed by Sir Abbekerk De Kol 2nd, whose dam is Tidy Abbekerk—butter record 25.49 lbs. He is assisted by Mercena's Sir Posch, son of Mercena 2nd—butter record 25.78 lbs. in 7 days. If you want young stock of such breeding write: **H. BOLLERT, Cassel, Ont.**

A newly-imported Norwegian girl, sent upstairs to tell the master of the house that dinner was waiting, found that gentleman brushing his teeth. "How soon will Mr. — be down?" the mistress asked when Karan returned. "Right away," answered Karan; "he is just sharpening his toothbrush."

HOLSTEINS

We must sell at least 25 cows and heifers at once in order to make room for the increase of our large herd. This is a chance of a lifetime to buy good cattle at bargain prices. The best way: arrange to come and look the herd over. If you cannot, we will do our best for you by correspondence. Also a few young bulls. 100 head to select from. Imported Pontiac Hermes, son of Hengerveld De Kol, world's greatest sire, head of herd. All leading breeds represented. **H. E. GEORGE, Crampton, Ont.** Putnam station, near Ingersoll.



RECORD OF MERIT HOLSTEINS



Herd 110 strong. Over 40 head now in the Record of Merit Two of the richest-bred bulls in Canada at head of the herd. For sale: 18 bulls, from 9 months to 1 year of age, all out of Record of Merit cows and sired by the stock bulls.

P. D. HDE, Oxford Centre P.O., Woodstock Station.

RIVERSIDE HOLSTEINS

For sale: Eight young bulls from 3 to 8 months old, out of Record of Merit cows, sired by Johanna Rue 4th's Lad and Sir Pieterje Posch DeBoer, whose dam and sire's dam average in official test 25.87 lbs. butter in 7 days, and 87.6 lbs. milk 1 day.

J. W. RICHARDSON,

Caledonia, Ont.

FAIRVIEW HERD is the place to buy your next bull. I can furnish you with a bull sired by our great herd bull, **PONTIAC KORNDYKE**, who has 19 daughters in the last year's report that made official records from 19 pounds at less than two years old to over 311 pounds at four years, and the whole number averaged over 4 1/2% fat. No other bull in the world has ever made such a showing in one year. I have just tested another of his daughters that made 26.40 pounds butter in seven days with second calf. I have over 60 cows and heifers in calf to him. Come and look my herd over before making your selections elsewhere. **E. H. DELER, Havelton, St. Lawrence Co., N. Y., near Prescott**

Maple Hill Holstein-Friesians

Bull calves from No. 1 dams, sired by bulls with great official backing. Write for prices.

G. W. Clemons, St. George, Ont.

Annandale Great Dairy Herd

ONLY BULLS, 4 to 10 months old, for sale at present. Bred from great producing ancestors. Bred right. Fed right.

Holsteins and Ayrshires

GEO. RICE, Tillsonburg, Ont.

"THE MAPLES" HOLSTEIN HERD

is made up of Record of Merit cows and heifers with large records, and headed by Lord Wayne Meethilde Calamity. Bull calves from one to five months old for sale.

Walburn Rivers, Folden's, Ont.

Lyndale Holsteins

Bull calves for sale out of cows with records of from 18 to 30 lbs., and sired by a grandson of Pieterje Hengerveld's Count De Kol.

BROWN BROS., LYN, ONTARIO.

Grove Hill Holstein Herd

Offers high-class stock at reasonable prices. Only a few youngsters left. Pairs not sibs. **G. T. R. MALLORY, Frankford, Ontario** G. T. R. and C. O. Railway connections

HILTON STOCK FARM—Holsteins, Cotswolds and Tamworths—Free ant offering: Some young cows; a nice lot of young pigs; few boars six months old, and sows in pig. **R. O. MORROW & SON, Hilton P. O., Brighton Tel. and Stn.**

Homestead Holsteins Yearling bulls for sale, out of cows with records from 16 to 21 lbs., and sired by Rottie Bros' famous bulls, Cornelius Posch and Count Mercena Posch. Write for prices. **G. & F. Griffin, Box 43, Burgessville, Ont.**

STEVENS DAIRY FARM HOLSTEINS

I have now for sale two bull calves 6 months old sired by a grand son of Pieterje Hengerveld's Count De Kol; also four choice young cows due to calve in February.

W. C. STEVENS,

PHILLIPSVILLE P. O., DELTA STATION.

MAPLE GLEN HOLSTEINS

Herd of 35 head with A. R. O. breeding, backed up by butter tests of over 16 lbs. as a two-year-old to over 26 lbs. as a cow. A good herd to select from. Two spring bull calves on hand. A. R. O. test of one is over 26 lbs. for dam and 6. dam. Come and inspect the herd. Any animal will be offered for sale.

G. A. GILROY, GLEN BUELL, ONT.

EVERGREEN FARM HOLSTEINS are headed by the richly-bred bull, Sir Mercena's Faforit Dam, Faforit 7th, and sire's dam, Mercena 3rd, have records averaging 25 1/2 lbs. butter in 7 days—85% fat. Young bulls for spring service, out of Advanced Registry cows; also young cows and heifers for sale. **F. G. PETTIT, Burgessville, Ont.**

QUEEN CITY HOLSTEINS.

For sale: seven bulls from twelve months down; good individuals; some have record of merit dams; several of them have full sisters in record of merit.

R. F. HICKS, Newton Brook P. O.

QUESTIONS AND ANSWERS. Miscellaneous.

CONTENT OF A BUSHEL OF CORN.

What is the authorized cubic content of a bushel of corn in the ear, i. e., a comprehensive rule whereby the contents of a box or crib can be legally reduced to bushels?

T. H.

Ans.—A box 12 x 18 x 16 1/2 inches will hold one bushel of ears of corn, which will shell, in the case of flint varieties, 27 to 28 pounds, and 28 to 30 pounds of the dent varieties. No fixed rule can be made, as the proportion of cob to grain varies considerably.

J. O. DUKE.

SPACING OF BUSH FRUITS AND PLUM TREES.

1. We are planting out this fall and next spring one acre of gooseberries and currants, both varieties. We have about half an acre already in; some of them three-year-old plants that fruited last year. As we have not too much land here for a fruit place (20 acres), and as we have some eleven acres in, we are getting short of room, and have planted the gooseberries (Am.) and the currants 4 x 4. In bulletin, "Bush Fruits," by Macoun, he advises 6 x 5. We had many of them planted before we got this. We would like to know now, would they do that distance we have already planted, and would it be advisable to go on planting them the same distance, viz., 4 x 4? We are of the opinion that, by keeping them well pruned and cut back, they will do that distance, will give us as much fruit per acre as if planted the wider distance, and be finer; also, being so well cut back, the bushes are more likely to be regular bearers.

2. A neighbor has four acres of plums; they are planted 10 x 12. Now, at six years old, they almost touch. He claims that by such close planting he takes a heavier crop the first few years, and when they begin to touch he prunes severely, keeping them from interlacing, and that by this system he gets more fruit, and finer, with regular bearing. They have certainly carried good crops of nice stock each year for the past three years to the writer's knowledge. Our plum trees, set out last spring, are planted 18 x 18, with the intention of planting, as an experiment, peach trees alternately. As these are such a gamble, am thinking of planting more plums in the plum rows, to make them 9 x 18, with peaches in between the rows. How would this do? If the peaches kill out, will the plums stand 9 x 18? Is our idea correct, re planting bush fruits close together and pruning severely, with a view to getting larger fruit, and still a great crop?

S. B.

Ans.—1. It is not advisable to unduly crowd trees or bushes in a fruit plantation. It is, of course, quite possible, by good cultivation, liberal applications of fertilizers, and careful pruning, to grow fruit much more closely than might be done where such attention is not given. In the case of the currants, you will find, after a time, that 4 x 4 is rather close planting, and I would advise, in your new plantation, that the plants be set 5 x 6, or, at least, 5 x 5 feet apart. You would then have an opportunity to judge for yourself which distance gave the better results. I am of the opinion that the heading back of bearing wood on currants and gooseberries is sometimes overdone. It is better to thin out every year a few branches of the older wood, and allow a few of the new canes to take their place. These, of course, should be well shortened back to induce them to branch low; but the two- and three-year-old wood, which bears the greater part of the crop, will bear good fruit right to near the ends of the branches.

2. With regard to the close planting of plum trees, I may say that the distance you mention (10 x 12) may be all right for a few years, until the trees begin to touch; but you will find that it will then become necessary to cut out the alternate trees, and give those which remain room for full development. I fully approve of the plan of close planting to begin with, in order that we may get as much as possible from the space available; yet, when the time comes to thin out, it requires nerve to cut out the alternate trees which are crowding.

O. A. C.

H. L. HUTT.