

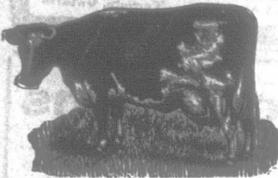
Cows from the ANNANDALE HOLSTEIN HERD

Have won during the past show season at Ottawa first and sweepstakes on cow, first on 2-year-old, first on 3-year-old class. At Guelph (dairy test) first and sweepstakes on cow, first and second in heifers. At Chicago (National) first and sweepstakes on cow, also second-prize cow, second and third on 3-year-olds, second on 1-year-old heifers, and a host of other prizes (different cows at different shows)

Bull calves, 4 months and under only, for sale from great dams and greatest of sires. Buy young if you want them from Annandale Stock Farm.

GEO. RICE, Tillsonburg, Ont.

HOLSTEINS FOR SALE



Four imported and one home-bred bulls, from 8 to 12 months old; also our entire crop of spring-bull calves, from week old up.

sired by the grandly-bred imp. bull, Sir Howitje B. Pietertje, whose dam record is over 82 lbs. milk in one day, and from great-producing cows of the most fashionable strains. Can spare a few cows and heifers, from one year up; 75 head to select from. Cheese 13c. Don't delay if you want one from this herd.

H. E. GEORGE, Crampton, Ont.

WOODBINE HOLSTEINS

Herd headed by Sir Mechthilde Posch, absolutely the best official-backed sire in Canada. Dam is the Jewel Mechthilde, 25.8 pounds butter in seven days. Champion cow of Canada ever all breeds. Sire's dam, Aaltje Posch 4th, holds the world's largest two-day public test record—6.6 pounds butter. Young bulls of the choicest quality for sale.

A. KENNEDY, Ayr, Ont.
Ayr, C.P.R.; Paris, G.T.R.

A FEW HOLSTEIN BULLS

fit for service, for sale at reasonable prices. Choice females, all ages. If you are willing to pay good prices for good stuff, write me.

G. W. OLEMONS, St. George, Ont.

Lyndale Holsteins.

For Sale A number of bull calves from one to four months old, out of Record of Merit cows, and sired by Beryl Wayne Paul Concordia, whose four nearest dams have official butter records averaging 23 lbs. 11 ozs. each. **BROWN BROS., LYN, ONT.**

Centre and Hill View Holsteins

We have four yearling bulls left which we will sell at reduced price to quick buyers; from good producing strain; our own raising. Sold out of females at present. **P. D. EDE, Oxford Centre P. O., Woodstock Station, C. P. R. and G. T. R.**

MAPLE GROVE HOLSTEIN-FRIESIANS

For Sale: Three bull calves, sired by Lord Wayne Mechthilde Calamity, and all out of Advanced Registry cows. Apply

WALBURN RIVERS, Folden's Corners.

Maple Glen Holsteins—Three sons of Sir Altra Posch Beets, whose grandam holds world's largest official record for her age, and grandsire has over 60 tested A. R. O. daughters—the most by any bull on record. Brother of Aaggie Cornuopia. Secure the best. **C. J. GILROY & SON, Glen Buell, Ont.**

Grove Hill Holsteins—Herd contains 55 head, a number of which are in the advanced registry. Our stock bulls have all been backed up by high records. Present offering: Several young bulls and a few females. **F. R. MALLORY, Frankford P. O. and Sta., C. O. R.**

IMPERIAL STOCK FARM HOLSTEINS

A prizewinning herd of imported, officially tested stock. Bulls of all ages for sale, also a few cows. **W. H. SIMMONS, New Durham, Ontario.**

"GLENARCHY" HOLSTEINS

We have for immediate sale several young bulls and a number of young females, that for ideal type and superior quality, backed up by gilt-edged breeding, are unsurpassed. **G. MACINTYRE, Renfrew P. O. and Stn.**

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., Campbellford Stn.**

Holsteins, Tamworths, Oxford & Dorset SHEEP FOR SALE.

At present we have 1 young bull, 8 Oxford ram lambs, Dorsets, 1 yearling and 1 aged ram, Tamworths, both sexes. **J. A. Richardson, South March P. O. and Stn.**

HOLSTEINS AND YORKSHIRES

R. HONEY, Brickley, offers for sale a choice lot of young boars fit for service; also sows ready to mate.

HILTON STOCK FARM—Holsteins,

Oxswolds and Tamworths—Present 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.**

QUESTIONS AND ANSWERS. Miscellaneous.

ALFALFA IN CAPE BRETON, N. S.

I am a subscriber of "The Farmer's Advocate," and, while not a farmer, appreciate its value and greatly admire the able manner in which it is conducted. I have a small estate here which I occupy as a summer home. I keep enough stock of all kinds to supply our needs, but the hay problem is, in dry seasons, a very difficult one to deal with. We are far from a market, and communication with the outside world is, even in summer, difficult and uncertain. In winter it is closed entirely. I want to try alfalfa, but as I know nothing whatever about practical farming, I am anxious to have the advice of experts. The ground here is very rocky. The soil is a clay, shallow, but very fertile. As fertilizers, we have kelp and rich bog; sometimes it is possible to get codfish offal. These conditions being stated, will you have the kindness to answer, categorically, the following questions:

1. How should ground be prepared for alfalfa?
2. How fertilized?
3. When should seed be sown?
4. How much to the acre?
5. Where can the seed be procured?
6. Will crop grow on steep hillsides?
7. If there is a simple, practical treatise upon the subject, please send me a copy. The man in charge of our place is a fisherman, who, like myself, is wholly ignorant of farming. All directions, therefore, must need be very simple and plain.

H. C. C.
Ans.—While commending our friend's decision to try alfalfa, we do not counsel him to base too high hopes upon it. Alfalfa has not yet been proven a general success in Nova Scotia. The climate is so moist, and the soil, in most cases, so light that the latter has been leached poor in potash and lime, two constituents alfalfa imperatively demands. The soil, being leached poor in lime, is inclined to be rather sour, and the bacteria which gather nitrogen for alfalfa, and upon which its thrift largely depends, will not flourish in an acid soil. It is believed that the soil sourness might be corrected, and a supply of potash insured by fertilizing annually with a load of two of lime per acre, and, say, 30 bushels of unleached wood ashes. Applications of barnyard manure help materially in getting a catch, but barnyard manure contains too much valuable nitrogen to be a very economical fertilizer for legumes, which, given potash and lime, can collect their own nitrogen from the atmosphere. If you sow lucerne, do some experimenting with the manures you mention, but place your main reliance on wood ashes and lime. Alfalfa usually requires experience, gained by repeated attempts, in order to grow it successfully, but it is a grand crop where it succeeds, and is worth persistent efforts to establish. We are not favorably impressed by the description of your soil. Alfalfa prefers deep, well-drained land, but do not be discouraged; sometimes it succeeds where success was not expected, and vice versa.

Taking up the list of questions in order:

1. Select land that has been in hoed crop, or even grain. Fall plow, and work up thoroughly and repeatedly in spring. Take special pains to prepare a fine clean seed-bed.
2. It is well to apply a good coat of barnyard manure to the crop preceding the alfalfa seeding. In the spring, a short time before seeding, broadcast, and work in at least 30 bushels of fresh-slaked lime per acre; also, if you can get them, a wagon load of unleached wood ashes. In lieu of ashes, a potassic commercial fertilizer may be used, such as muriate of potash.
3. In your district, keep working the land, and sow the alfalfa toward the latter part of the grain-seeding season.
4. Sow at least 20 pounds of good seed per acre. We would suggest sowing it alone, though it may be sown with a nurse crop of barley (1 bushel per acre).
5. Order seed from any leading firm of seedsmen. Be sure to ask for their best. Cheap alfalfa seed is an expensive luxury.
6. In a wide observation, extending pretty well over the Province of Ontario, we find that once established on hillsides, it does better there than on level land. It does not winter-kill so

easily, nor does water have a chance to stand about the crowns of the plants—a fatal condition.

7. Write to the Central Experimental Farm, Ottawa, for their bulletin on alfalfa.

MISCELLANEOUS.

1. I have a cow which is subject to diarrhoea. She had it last fall, but I got it stopped, and since she has gone to grass she has got it again, and it has become chronic. Would you kindly give me the cause and cure, if any?

2. Which is the best way to feed oats to young calves? Should it be fed to them whole or ground?

3. What is oil of tar made of?

4. I have a mare which I am breeding. She missed last year, and she seems to be hard to catch this year. I am feeding her oil of tar for a cough she has had. Would it be the cause of her being so hard to catch, or would it have any effect on her?

5. What is the cause of horse spitting out lumps of hay (chewed)? He is in good condition.

6. Would you let me know the value of milk in making butter and cheese? Will milk that will make two pounds of butter make three of cheese, or could you give me an idea of the value of milk in making butter and cheese?

7. How should young apple trees be cared for the first two years after planting on loam land?

J. M.
Ans.—1. Try a quart of raw linseed oil.

2. Many good feeders, nowadays, prefer feeding calves whole oats.

3. Wood tar.

4. Not in that way. Try the operation of dilating the os-uterus frequently described in these columns.

5. Have his teeth examined. The trouble will likely be found there.

6. The value of milk for making butter depends upon the percentage of butter-fat contained. The value of milk for cheesemaking depends partly upon the percentage of fat, and partly upon the casein. The casein is a practically constant quantity; the fat is not; hence the closest way to estimate the value for cheesemaking of milk of different degrees of richness is to let 2 represent the value of the casein in each cwt. of milk, adding to it the percentage of fat in each case. For example, one sample of milk tests 5 per cent. fat, another sample tests 4 per cent. fat; the relative value of these two samples would be as 7 (5+2) to 6 (4+2). Rich milk is relatively more valuable for butter-making than it is for cheesemaking.

7. Cultivate till late July or early August, then seed down to cover crop of crimson clover or hairy vetches. Prune in spring, and spray according to directions frequently given in these columns. In early May plow about 5 inches deep and repeat cultivation till July, then seed again as before.

BARN PLAN WANTED.

Will you please give plan of barn? I would like a stable at one end for four horses—three stalls and a loose box stall—and the other end big enough to hold 10 head of cattle, and room in the top to hold about 14 tons of hay. I would like a loose box in the cow stable, too. **Temiskaming, J. W. P.**

Ans.—Anyone who has in actual use a barn planned like the one our inquirer desires, but different from others that have appeared in "The Farmer's Advocate," might send it in. If suitable in its layout, we shall be pleased to prepare a cut from a plain pencil plan.

SPRAYING FOR MUSTARD.

1. Is spraying the best way to kill mustard?

2. Give a good recipe for spraying mustard.

G. W. F.
Ans.—When a field is badly infested with mustard, spraying with a solution of copper sulphate is the best way to kill the plants, thus preventing seeding without seriously injuring the grain. Spraying is not equally effective against all kinds of mustard, but it is pretty fatal to the common rough-leaved kind known as charlock (*Brassica sinapstrum*).

2. To prepare the solution, dissolve nine or ten pounds of bluestone by suspending it in a coarse bag in about three gallons of boiling water. Strain into the pump barrel, and add enough water to make 40 gallons. It is too late to spray this season. It should be done before the weed is in bloom.

A BAD CASE

OF

KIDNEY TROUBLE

CURED BY

DOAN'S KIDNEY PILLS.

Kidney Troubles, no matter of what kind or what stage of the disease, can be quickly and permanently cured by the use of these wonderful pills. Mr. Joseph Leland, Alma, N.W.T., recommends them to all kidney trouble sufferers, when he says:—I was troubled with dull headaches, had frightful dreams, terrible pains in my legs and a frequent desire to urinate. Noticing DOAN'S KIDNEY PILLS recommended for just such annoyances as mine, it occurred to me to give them a trial, so I procured a box of them, and was very much surprised at the effectual cure they made. I take a great deal of pleasure in recommending them to all kidney trouble sufferers.

Price 50c. per box, or 3 for \$1.25; all dealers or The Doan Kidney Pill Co., Toronto, Ont.

PAROID

Before you buy roofing for any building, from a small poultry house to the largest mill or factory, it will pay you to get samples and complete proofs of quality from the oldest makers of ready roofing in America. (We originated the roll of roofing ready to lay with fixtures packed in the center.) Our concern was

Founded in 1817

We can show you why "Paroid" is the best of them all—lasts longer and saves most in repairs. Drop us a postal to-day.

F. W. BIRD & SON, Hamilton, Ont.

ROOFING

THE HAYES BULLETIN Issued quarterly, containing short articles on the origin, cause, and the principles involved in the successful treatment of Asthma and Hay-Fever. Special Hay-Fever and Summer Asthma number now ready. Free on request.

DR. HAYES, Dept. D. D., Buffalo, N. Y.

FOR SALE: 26 JERSEYS under ten years of age. Prime condition. Sound. Nine due to calve August and September. **Cheviot and Dorset Horned Sheep, 1 Poland-China Sow, and 3 Boar Pigs. F. S. WETHERALL, Rushton Farm, COOKSHIRE, QUE.**

Brampton Jersey Herd For sale: 10 bulls, old, descended from St. Lambert, imported stock; also females of all ages. For full particulars address: **B. H. BULL & SON, Phone 68, Brampton, Ont.**

HIGH-GROVE JERSEY HERD. Our present offering is: a few choice heifer calves from 3 to 8 months old, which, considering quality, will be sold reasonable.

ROBT. TUFTS & SON, Tweed P. O. & Sta.

Pine Ridge Jerseys—Present offering: Some choice lot of heifers, all ages, from 4 months up; also some good Cotswold sheep (registered). **WILLIAM WILLIS, Newmarket, Ont.**

SPRING BURN STOCK FARM, North Williamsburg, Ont. **H. J. WHITEKER & SONS, Props.** Breeders of Pure-bred Yorkshire Cattle, Oxford Down Sheep, Berkshire Pigs and Bull Orington Fowls. Young stock for sale. Eggs for hatching, \$1 for 13, and \$4 per 100.

HIGH-CLASS AYRSHIRE CATTLE Bulls and heifer calves, two to nine months old, cows and heifers all ages. Prizewinners from this herd include Tom Brown and White Floss, sweepstakes at Chicago. **DAVID BENNING & SON, "Glenhurst," Williamstown, Ont.**

Wardend Ayrshires We are offering young bulls from 1 to 2 years old; also a choice lot of spring calves from deep-milking dams. Sired by White Prince of Menie No 1825; bred by A. Hume, Menie. **F. W. TAYLOR, Wellman's Corners, Hoard's Stn., G. T. R.**

Select Ayrshire Bulls—Four choice last calves. Special low price on five March and one May calves. Phone to farm. **W. W. BALLANTYNE, Neidpath Farm, Stratford Ont.**

Stockwood Ayrshires for Sale.—Have some nice yearling heifers, also a few aged cows. All in fine condition. Write or call and see them. Address: **D. M. WATT, ST. LOUIS STATION, QUE.**