

Welcome Stock Farm Holsteins

Out of "Netherlands Pride" (gave 55 lbs. milk as a three-year-old), by "Winies Count Pasma," a nice straight, well grown, bull calf, quality all over, considerably more white than black, and nicely marked. Should be ready for light service soon. First check of \$45 takes him.

C. BOLLERT, J. LEUSZLER,
R.R. No. 6, R.R. No. 1,
Tavistock, Ont. Cassel, Ont.


Holsteins of Quality

Write us to-day for our proposition, telling you how any good dairyman may own a registered Holstein bull from a Record-of-Performance cow without investing a cent for him. **Monro & Lawless, "Elmdale Farm," Thorold, Ont.**

MAPLE SOIL STOCK FARM

I have at present some young cows from three to five years old, got by Sir Hegeveld John De Kol and bred to Idalin's Paul Veeman; also a few heifers and young bulls from eight to ten months old, sired by Idalin's Paul Veeman; also booking orders for spring stock. Belmont Stn., C.P.R.

H. C. Holtby, Belmont, P.O., Ont.



Purebred Registered
Holstein Cattle
The most profitable dairy breed, greatest in size, milk, butter-fat and in vitality. Send for FREE illustrated descriptive booklets.
HOLSTEIN-FRIESIAN ASSO.
F. L. Houghton, Sec'y, Box 127, Brattleboro, Vt.

The Maples Record of Merit

A few choice bulls ready for service, sired by King Posch De Kol; also a few young bull calves, sired by Prince Aagie Mechthilde, whose dam won first at Toronto, 1911, and sire's dam first in dairy test at Guelph, 1908 and 1909; his three nearest dams average over 25 lbs. butter in 7 days.
WALBURN RIVERS, FOLDEN'S, ONTARIO

HOMESTEAD HOLSTEINS

Headed by Canary Rachel Clothilde, whose dam, sire's dam and two grand-dams average over 27 lbs. butter in 7 days. Yearling bulls and bull calves, also one bull rising two for sale.

G. & F. GRIFFIN, Box, 43, Burgessville, Ont.

Evergreen Stock Farm

offers a choice lot of bulls ready for service, from high-testing, de-milking Record of Merit ancestors. Also a few females for sale. Herd headed by Francy Sir Admiral; dam's record 26.71, sire Sir Admiral Ormsby. Write for prices.
F. E. PETTIT, Burgessville, Ont.

Elmwood Holsteins—Choice bred, registered Cows, Heifers, Calves, Spring Crop 1912. March, April and May delivery; Sired by Imported Y Rema Sir Posch and Elmwood Sarcastic, Grandson of Sarcastic Lad. Best breeding, right prices. Express pre-paid. Safe delivery guaranteed.
E. D. GEORGE & SONS, Putman, Ont.

HOLSTEIN BULL—If you want one of the richest bred bulls, and a grand individual, to head your herd with, write me. Will exchange for young females.
H. BOLLERT, Tavistock, R.R. No. 5, Ont.

For Sale—Holsteins and Yorkshires. Six choice grade Holstein heifers, 2 years old, due to calve in March; choice bull calves from tested dams, \$25 each. Reg. Yorkshire pigs, \$11 a pair.
W. A. BRYANT, Cairnform, Ont.

Glenwood Stock Farm—BULL CALVES fit for service, out of big milking strains, at low figure for quick sale. **THOS. B. CARLAW & SON, WARKWORTH, ONT., Campbellford Sta.**

Ridgedale Farm—We have four bull calves left for sale, from high-testing dams; sired by Imperial Pauline De Kol, whose 15 nearest dams average 26.20 lbs. butter in 7 days. Shipping stations: Port Perry, G. T. R., and Myrtle, C. P. R., Ontario County.
R. W. WALKER, Utica, Ont.

Having need of some small change, the mistress of the house stepped to the top of the back stairs, Punch says. "Bessie," she called to the maid below, "have you any coppers down there?" "Yes'm—two," faltered Bessie, "but they're both my cousins, please, m'm."

Your wife certainly will appreciate it when you bring home a can of SNAP

Soap won't clean her hands, after filling the lamps, milking the cows, peeling potatoes and onions. SNAP banishes dirt and every odor without hard rubbing. SNAP is soothing and healing—keeps the skin smooth and free of "chaps". Bring home a can—15c.



QUESTIONS AND ANSWERS.

Miscellaneous.

MAPLE-SYRUP MAKING.

1. What is the nature and composition of what is called "sugar sand," found in boiling maple syrup? Is it not more plentiful as the season advances, and if so, why?

2. It is said by some of my neighbors that in finishing maple syrup, as the season advances, more boiling is required to reach the standard density as indicated by the saccharometer or thermometer, than with the early runs of sap; and also that the later syrup is more apt to crystallize?

3. Do you not think that this proposed new standard of the Inland Revenue Department for syrup and sugar is needlessly high? **ONTARIO.**

Ans.—1. Boiling, of course, drives off water from the sap. When the syrup becomes sufficiently concentrated, those constituents of the sap which require most water to hold them in solution separate out as a precipitate. The main constituent of this precipitate is calcium malate (malate of lime). This constitutes about 70 per cent. of the washed and dried sugar sand, which also contains about 12 per cent. of silica. It is the general experience that the sugar sand gives more trouble towards the end of the season.

2. The amount of boiling required to make syrup of standard density depends on the concentration of the sugar in the sap—in other words, on the sweetness of the sap. The sweeter the sap, the less boiling will be required. In some observations made by the New Hampshire Experiment Station in 1892-4, it was found that the sap towards the close of the season contained neither as much sugar nor as much solids as at the beginning of the season. The quantities did not, however, decrease continually, but fluctuated up and down. On the other hand, the richest sap on record (10 per cent. sugar) was obtained by Wiley, late in the season, from a tree which showed an unusually high average (5 per cent.) for the season. Syrup of standard density will not crystallize. It is possible that your neighbors overboil their late-run syrup.

3. No. Syrup below the standard in density is apt to ferment, and no cake sugar is in danger of exceeding the 10 per cent. limit in moisture. I am not sure about tub sugar, but this is, as a rule, an inferior product, and its making ought not to be encouraged. As to the other points of the standard, none of them are, in my opinion, too high. The total ash might safely have been placed at 0.65 per cent. of the total solids, instead of 0.60. The requirements for lead precipitate and malic acid value are distinctly lower than those upon which the Inland Revenue Department has been basing its decisions for some years past. These older standards were found to be too high for the best quality of modern genuine maple syrups.

J. F. SNELL,
Macdonald College.

On the subjects of the new standards adopted, W. J. Gerald, Deputy Minister of Inland Revenue, Ottawa, furnishes us the following statement from Dr. A. McGill, the Chief Analyst: "A 65-per-cent. solution of cane sugar has a specific gravity of 1.3575. We have fixed (Bulletin 228, p. 7) 1.320 as a specific gravity for standard maple syrup which contains 35 per cent. of water, the balance being essentially cane sugar, but containing small percentages of somewhat variable matters (calcium, malate, ethers, mineral salts, etc.). This specific gravity corresponds to 13.2 lbs. 3 ounces per imperial gallon. A difference of one ounce means a variability of less than half of one per cent., and is a negligible quantity."

TRADE TOPIC.

The attention of readers interested in telephone instalment is directed to the advertisement on another page of this issue, of the Kellogg Switchboard and Supply Co., Chicago, whose booklets, written by practical telephone men, tell how to build and operate rural telephone companies, and are mailed free to applicants.

Belleville District Holstein Breeders' Second Annual Sale April 3rd and 4th, 1912

The greatest ever held in Canada, both in quality and members of high-class officially-tested cows and their progeny.

175 Head Mostly Females

Bulls, cows and heifers sired by the greatest bulls of the breed. Cows and heifers bred to and in calf to such bulls as Plus Berk, Inka Sylvia Beets Posch, Francy 3rd's Admiral Ormsby, Count Gerben, Pontiac Hermes, Count Segis Walker Pietertje and other high-class bulls.

Mature females with records up to 25 pounds of butter in 7 days. Numbers of them giving close to 90 pounds of milk per day. Two-year-old heifers with extra good records, up to 19,000 pounds of milk in official R. O. P. test.

For one, or for a carload, attend this great sale.

For a catalogue, address:

F. R. MALLORY, Frankford, Ont.

IN J. A. CASKEY'S CONSIGNMENT

To B. D. H. B. Second Annual Consignment Sale, April 3rd and 4th, 1912, will be Clintonia Hartog De Kol 3rd, whose dam has an A. R. O. record of 32 lbs. of butter in 7 days, and 130 lbs. in 30 days. She herself has a 2-year-old record of over 17 lbs. of butter. Due to freshness after sale. Dolly Inka 1st Kol, butter, R. O. M. 7 days, 23.5; 30 days, 93.5. Dam of Dolly Echo De Kol, butter, 25.77. Sister of Duchess Echo 1st Kol, butter, 24.77. Six grand-daughters of Lord Netherland De Kol (104 A. R. O. daughters. Thirteen other grand, good ones. All of the above bred to Francy 3rd's Admiral Ormsby, whose dam has a 7-day R. O. M. test of 29.16 lbs. of butter.

J. A. CASKEY, Madoc, Ontario.

Fairview Farms Herd

Is where you can see a son of Pontiac Korn-dyke, admitted by all breeders to be the greatest Holstein sire that ever lived. Look what his daughters are doing. Two of them with records over 7 lbs. each. Then, look at the work his sons are doing. HE IS THE GREATEST PRODUCING SIRE OF THE BREED, THROUGH HIS SONS. Every son of Pontiac Korn-dyke that has daughters old enough to milk is a sire of good ones. We can offer you several young ones that will give you great daughters.

E. H. DOLLAR, HUEVELTON, N. Y.

Near Prescott

SUMMER HILL HOLSTEIN CATTLE and YORKSHIRE HOGS

Our senior herd bull, Sir Admiral Ormsby, is the sire of the world's record 2-year-old for yearly butter production. Also sire of the three highest record four-year-olds in Canada. The dam of our junior herd bull made 34.61 lbs. butter in 7 days, and gave 111 lbs. milk per day. Come and make your selections from over 70 head.

In Improved English Yorkshires we have won 95 per cent. of all first prizes at Toronto Exhibition for ten years. We are still breeding them bigger and better than ever.

Buy Summer Hill Yorkshires, the big, quick-maturing kind, and double your profits.
D. C. FLATT & SON, R. F. D. No 2, Hamilton, Ontario, 2471, Hamilton.

Centre and Hillview Holsteins—We are offering young bulls from Sir Ladie Cornucopia Clothilde, the average of his dam sire dam and grand dams is 662.8 lbs. milk and 30.38 butter, 7 days, and 2,750.80 milk and 114.6 butter in 30 days; also Brookbank Butter Baron, who is a proven sire. He is sire of champion 3-year-old 30-day, 2-year-old 7-day and 2-year-old 30-day. Long-distance phone. **P. D. EDE Oxford Centre P.O. Woodstock Sta.**

Maple Hill Holstein-Friesians—Special offering: Bulls from one to fifteen months old. The growthy kind that will give good service. One from a son of Evergreen March, and all from Record of Merit dams. Write for particulars.

G. W. CLEMONS, St. George, Ont.

IMPERIAL HOLSTEINS—I can supply bulls ready for service and younger ones, also heifers out of R. O. M. cows, female relatives have records and sired by Tidy Abbecker Mercena, whose seven nearest female relatives have records averaging 27.19 pounds. **W. H. SIMMONS, New Durham P.O., Oxford Co.**

Woodbine Holsteins—Herd headed by King Segis Pontiac Lad, whose sire's dam is the champion cow of the world. Sire's sire is the only bull that has sired five four-year-olds that average 30 lbs. each. Dam's sire is the bull that has sired two 30-lb. three-year-olds. His two great grand sires are the only bulls in the world that have sired two 37-lb. cows. Bulls and bull calves for sale. **A. KENNEDY, Ayr, Ontario.**

Evergreen Stock Farm—High-class Registered Holsteins for Sale. A splendid lot of heifers rising one year old, and heifer calves, good enough for foundation stock. Come and see them, or write for what you want. Satisfaction guaranteed.
A. E. HULET, Norwich, Ontario

MENTION THE FARMER'S ADVOCATE WHEN WRITING ADVERTISERS.