

FAIRVIEW HERD offers you another son of the great Pontiac Korndyke, who has more high-testing daughters in the American Registry than any other living bull. We have four of his daughters that have seven days records that average over 28 lbs. each, and over 4% fat. This young bull was born Nov. 2, 1907, is two-thirds white, and a beauty. His dam is sired by a son of De Kol 2nd's Paul De Kol, the sire of Aggie Cornucopia Pauline. You cannot find better breeding than this. First check for \$150 takes him.
E. H. DOLLAR, Newellton, St. Law. Co. N.Y.
Near Prescott, Ont.

WOODBINE STOCK FARM Offers a few fine young Holstein bulls and bull calves, sired by Sir Mechthilde Posch. Sire's dam holds world's largest two-day public test record, dam Ianthe Jewel Mechthilde, 27.45 lbs. butter in 7 days; average best, 4.46 per cent. fat; out of dams with superior breeding and quality.
Shipping stations—Paris, G. T. R.; Agt. C. P. R.
A. KENNEDY, Agr. Ont.

Mr. A. I. Hickman
COURT LODGE, EGERTON, KENT, ENG.,
Exporter of pedigree stock of every description to all parts of the world. During the fall months light and heavy horses will be a specialty. Write for prices, terms and references.

LAKEVIEW HOLSTEINS
Herd headed by Count Hengerveld Fayne De Kol. His dam, Grace Fayne 2nd, 26.30 lbs. butter in 7 days, is dam of world's champion 4-year-old butter cow. Sire Count Hengerveld De Kol, 70 A. R. O. daughters, including world's champion milk cow. For sale: 1 service bull; 10 bull calves, by 20-lb. butter cows. 75 head to select from.
W. D. BRECKON, Mgr., Bronte, Ont.

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 to 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 Hermines, son of Hengerveld De Kol, world's greatest sire, head of herd. All leading breeds represented.
Putnam station, near Ingersoll.
H. E. GEORGE, Crampton, Ont.

Centre and Hillview Holsteins
125 head to select from. 35 in the R. O. M. Stock bulls Bonheur Statesman, high official backing, and is closely related to Colantha 4th's Johanna; Brookbank Butter Boy. All moment dams over 20 lbs. From these sires, out of R. O. M. dams, are several young bulls and a few heifers. Prices right. P. D. EDE, Oxford Centre, Ont. Woodstock Station.

Now is the time to buy a bull for service next year, because we sell CHEAPER now than we do next spring. Why not write to us RIGHT AWAY for a BARGAIN in bulls from R. O. M. dams? Or better yet, call and see us.
E. & F. MALLORY,
FRANKFORD, ONTARIO.

MAPLE GLEN HOLSTEINS
For Sale: Service bull, brother to Guelph dairy test champion, 1907; three bull calves, one from 22½-lb. cow, one from 17.80-lb. 4-year-old, a Top Notcher from 19.45-lb. 2-year-old. Come and inspect the herd.
G. A. GILROY, Glen Dale, Ont.

Maple Hill Holstein-Friesians
Special offering: Two bull calves eleven months old; well bred; in fine condition; now fit for service.
G. W. CLEMONS, St. George, Ont.

Only Bull Calves FOR SALE, HOLSTEINS and AYRESHIRE, Of the best performing strains.
GEO. RICE, ANNANDALE STOCK FARM, TILLSONBURG, ONTARIO.

The Maples Holstein Herd!
RECORD OF MERIT COWS.
Headed by Lord Wayne Mechthilde Calamity, also in the Record of Merit. Nothing for sale but choice bull calves.
WALBURN RIVERS, Falden's, Ont.

Glenwood Stock Farm—Holsteins and Ayreshires
Holsteins all sold out. Have a few young Yorkshire 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.

Hilton Stock Farm—Holsteins, Cotswolds and T. O. M. Present offering: Some young cows; a nice lot of young pigs; few boars six months old, and sows in pig.
R. O. MORROW & SON
Brighton Tel. and Sta. Milton Ont.

Ridgedale Farm Holsteins—For sale: 4 bull calves from one to ten months old; 2 heifer calves bred from choice dams. Also a pair of choice cows supposed to be in calf. R. W. WALKER, Utica P.O., Ont. Port Perry (G.T.R.) and Myrtle (C.P.R.) stations, Ontario Co.

Beaver Creek Holsteins—I have at present a few cows and heifers for sale, and three young bulls; all from good milkers. Apply to
ALBERT MITTFELFELDT, Etcho, Ont.

LYNDALE HOLSTEINS!
Bull calves out of cows with records of from 18 to 20 lbs., also three heifers coming two, and a number of young cows in Record of Merit, bred to a grandson of Pieterje Hengerveld's Count De Kol. BROWN BROS., LYN, ONT.
When Writing, Mention This Paper.

Maple Grove offers a richly-bred bull calf, 6 weeks old, sired by an Aaggie, Cornucopia Pauline, A. R. O., 28.30 lbs. butter; his dam is sired by a son of Beryl Wayne, A. R. O., 27.14 lbs. butter. For particulars write:
H. BOLLERT, Cassel, Ont.

I CAN FURNISH JUST NOW A LARGE NUMBER OF EXTRA GOOD Shropshire and Cotswold Rams
A large number of extra good Shropshire and Cotswold ewes, twelve months old. And a few very high-class Shorthorn bulls and heifers. Any of which will be sold at moderate prices.
ROBERT MILLER, STOUFFVILLE, ONT.

Shropshires, Cotswolds
I am now offering a lot of large, well-covered rams. They weigh from 160 to 200 lbs. each. Also shearing ewes, ram lambs and ewe lambs, of both breeds, fitted for showing.
JOHN MILLER, BROUGHAM, ONT.
Claremont station, C. P. R.

Oxford Down Sheep
AT FARNHAM FARM.
We are at present offering a number of superior yearling rams and ram lambs, by imported sire and partly from imported dams. Some splendid yearling ewes and ewe lambs. Also a few imported yearling and ram lambs. Price reasonable.
Henry Arkell & Son, Arkell, Ontario.
Arkell, C. P. R., Guelph, G. T. R.

SOUTH DOWNS AND COLLIES!
Imported winning collie at stud.
HOLLYROOD PROFESSOR.
Breeding ewes, imported and home-bred; 15 shearing rams; 20 shearing ewes. Ewe and ram lambs by the same sire as the grand champion wether, over all breeds, at Chicago International, 1907.
ROBT. McEWEN, BYRON, ONT.
Long-distance telephone. Ry. Station, London, Ont.

FOR SALE—Pure Shropshire Ram and Ewe Lambs, born from 20th March to 1st of May. Price ten dollars each, including pedigree. Shearing rams and ewes at reasonable prices—130 to choose from. Also fine St. Lambert Jerseys. All ages. Prices right. H. E. Williams, Sunny Lea Farm, Knowlton, P. Q.

CLAYFIELD Buy now of the Champion Cotswold Flock of America, 1886. Flock FARM! headers, ranch rams, ewes of different ages. All of first-class quality, and prices reasonable. Write, or call on J. C. ROSS, Box 61, Jarvis, Ont.

Shropshire Rams Yearlings, Registered. Good individuals for flock headers. Prices right. Come and see or correspond. JOHN ROBERTSON WYOMING, ONT. About a mile from depot, G. T. R.

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Oxford Down Sheep, Shorthorn Cattle, Yorkshire Hogs—Present offering: Lambs of either sex. For prices, etc., write to John Cousins & Sons, Buena Vista Farm, Harriston, Ont.

QUESTIONS AND ANSWERS.
Veterinary.

WOUND.
Sheep had an abscess on her shoulder. I opened it and it became fly-blown and full of maggots. I put turpentine in to kill the maggots. The wound will not heal.
H. B.

Ans.—Wash the wound twice daily with warm water, and after washing, dress the external surface, and flush the cavity with a 5 per cent. solution of carbolic acid until healed.
V.

PERIODIC SEVERE LAMENESS.
Three years ago my broncho was supposed to have slipped on the road. Occasionally there is slight swelling and tenderness in tendons above fetlock. She seems all right in limbs and shoulders, but shows sudden lameness in fore legs from time to time, sometimes in one leg and sometimes in the other. She goes all right most of the time, but will unexpectedly show the lameness when on the road, fairly losing the use of the one foot, and her head will go down with sufficient force to break the check rein.
A. H.

Ans.—It is not probable that the slip she made over three years ago is responsible for the condition you describe. This is especially indicated by the fact that she is as liable to go wrong on one leg as on the other. I am of the opinion that there is no lesion, but that the mare simply stumbles and then may go lame for a few steps. A horse does not go sufficiently lame to break check reins, but a stumbling horse frequently does so. The leg whose tendons occasionally swell, should be blistered, and after the scale caused by the blister has come off, the leg should be showered with cold water and a cold water bandage applied and left on for three or four hours every evening after she has been driven.
V.

Miscellaneous.

PUMPING BY TREAD POWER.
We intend pumping water by tread power. In so doing we require about 30 feet of shafting. What size pulley would be right to put on shafting to give proper speed for pumping? Diameter of pulley on tread power, 5½ feet; stroke of pump, 5 inches. SUBSCRIBER.

Ans.—For the solution of the problem you should have given the diameter of the wheel with which the floor of the tread power engages. By measurement, I have found this wheel on a certain power to be 18 inches in diameter. You should also have given the rate of travel of the animal working the mill. Let us assume that the rate of travel is four miles an hour and that the diameter is 18 inches, the same as the one measured, then with a pulley on the shaft 6 ft. 10 in. in diameter you would get a stroke of the pump every second, which would possibly be a moderate rate, and the power required to do this would only be a small fraction of one horse-power. A pulley twice as large, that is 13 feet 8 inches in diameter, would give one stroke every two seconds, other conditions being the same as before.
WM. H. DAY.
O. A. C., Guelph.

JOINT WORM.

Find enclosed sample of wheat with eggs deposited therein. Kindly diagnose and answer through your journal.
SUBSCRIBER.

Ans.—The objects in the wheat joints which you send are not eggs as you surmise, but the larvae of the joint worm (Isosoma tritici). This insect is a true fly, with only two wings. It is very small, about 1-10 of an inch long, jet black with pale legs. The females pierce the straw, and lay from six to twelve eggs inside its tissues. These eggs hatch into very small, slender, footless grubs, of a pale yellow color, which when mature are about one-eighth of an inch in length. As the young grubs grow they cause a distortion of the stems a little above the first or second joints from the roots. Most of the larvae or grubs winter inside the galls or swellings, but a few transform and appear as flies in late autumn.
Remedies.—There is apparently only one

brood of these insects each year, and the larvae pass the winter in the straw, for the most part so near to the ground that a large proportion of them are in the stubble left on the fields, they can be largely reduced in numbers by burning over the stubble or by plowing it down deeply. Where seeding down has been done, deep plowing with wheat will be impossible, and this will mean the giving up of that practice with wheat for a time. Seeding down will have to be done with barley and oats, which are not attacked by this species of joint worm. The broken-off hard pieces of straw which become separated in threshing and cleaning should be gathered together and burned. Sometimes no apparent galls are formed, merely slight swellings with a hard, thickened condition of the straw, representing the galls. These portions break off in threshing, and many are carried off with the grain. Straw from an infested crop should be got out of the way, either by feeding or burning before the ensuing spring.

A regular short rotation of crops, while reducing the number of bad weeds and preventing them from increasing, will also do much to reduce the numbers of the joint worms. All recorded recurrences of joint worms in Canada have been of short duration. JAMES FLETCHER.

FUMIGATING FOR PEA WEEVIL.

Could you kindly tell me, through the columns of your valuable paper, whether there is any way to kill the pea bug when peas are in the bin? J. A. M.

Ans.—Fumigating in air-tight bins with carbon-bisulphide is effective, but as the vapor is very inflammable the work should be done at a distance from barns and other buildings, and no light of any kind must be brought near, nor may smoking be allowed near the building where the bisulphide of carbon is being used. For the treatment of small quantities of seed by farmers an ordinary coal-oil barrel is recommended by Dr. Fletcher. This will hold about five bushels, and may be treated with three ounces of bisulphide of carbon, which may be poured right on to the peas. The top should be closed tightly with a cap, made specially for the purpose, or with fine sacks dampened and laid smoothly on top, weighted boards being laid over them. The bisulphide of carbon should be of the best quality, which will volatilize without any residue, and the exposure should be for 48 hours. Peas should be fumigated as soon as possible after harvest, but they may be treated at any time when the temperature is above freezing. After the peas are treated they should be promptly bagged, and the bags kept tied until seeding.

GOSSIP.

An eight-year-old cross-bred cow of the Jersey type, exhibited at a show in Kent lately, yielded the extraordinary amount of 77 lbs. 12 ozs. of milk (7½ gallons) and 3 lbs. 9½ ozs. of butter in a twenty-four hours' test. This is a standard worth striving for.

Attention is directed to the advertisement in another column of the auction sale of Mr. David Clow, Whitechurch P. O., Ont., in which he is offering his entire herd of dairy-bred Shorthorns. For fuller particulars look up our next issue, and make a note of the date, as this offering is of a kind of cattle that is all too scarce in this country.

R. M. HOLTHY'S CLYDESDALES.

Mr. R. M. Holthy, of Manchester, Ont., is just now offering a few grand good imported Clydesdale mares and fillies personally selected by Mr. Holthy for their high-class character and quality, and right royal breeding, all in foal to the champion, Imp. Acme, by Baron's Pride; also several filly and horse colts. Some were imported in dam, others Canadian-bred, with imported sire and dam. This is an extra choice offering, and Mr. Holthy will sell well within their worth. Write him, or, better, go and see them. Manchester Station is on the Whitby-Port Perry branch of the Grand Trunk, and the farm is within a mile of the station.

SUBSCRIBE FOR "THE FARMER'S ADVOCATE AND HOME MAGAZINE."