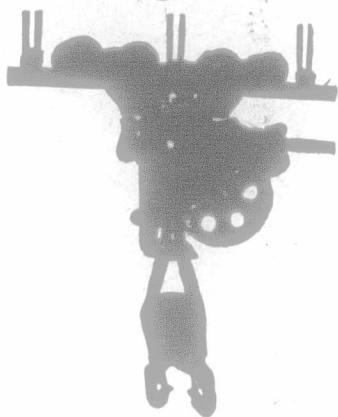


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Handle your hay, grain, straw or other feed in the most economical way. Don't get discouraged because the war has robbed you of your best help. Modern Equipment will help you to do alone, the work that previously demanded the services of yourself and two other men.

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are made for just such rapid work as is necessary in the hay harvest when help is scarce and work abundant. Two lifts and your biggest load is off. Ten inch roller bearing rope wheel makes this the fastest and easiest working carrier made.

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CRAMPSEY & KELLY
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Holstein Bulls

Ready for service and younger. Cows and heifers bred to ORMSBY JANE BURKE, whose two nearest dams average 38.82 lbs. of butter in 7 days. The three nearest sires' dams and his dam's records average 35.69 lbs. for 7 days, and 112 lbs. milk for one day.

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KING SEGIS PONTIAC DUPLICATE
A brother to the \$50,000 bull is the sire of our young bulls offered at present. Two of these are ready for service. Write us also for females.
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A choice selection of young bulls for sale from Record of Performance dams, imported and Canadian bred.

SIRE: Auchenbrain Sea Foam (Imp) 35758 many times grand champion.
Fairfield Mains Triumph (Imp.) 51137 a son of the noted Hobsland Perfect Piece.

Write for catalogue.
Geo. H. Montgomery, Proprietor, Dominion Express Building, Montreal. D. MacArthur, Manager, Phillipsburg, Que.

JAS. B. ROSS, MEADOWVALE, ONTARIO, for high-producing, show-yard AYRSHIRES. Herd headed by SNOW KING 47376, first-prize two-year bull at Toronto, 1917. Write me also for anything in Yorkshires.
Meadowvale P.O., Streetsville Station

Please mention this paper

occurred in some of the iron which had been ejected from the mass, and had not fully parted with its occluded gases. Considering the action in an ingot cooled simultaneously on all sides, it would appear that the solidified layer at 600 deg. C. is impermeable to gases. As the layer thickens, more and more gas is ejected from the metal and forced inwards. Quick cooling thus bottles up, and concentrates, into local spots and under high pressure, the occluded gases which under slow cooling would have escaped. The diamonds produced are thus under strain.

The striking conclusion finally reached is that diamonds are probably formed at a temperature of about 690 deg. C., or one of the points of recalcence, and that it would seem probable that if a large mass of iron, alloyed with other elements, was submitted to suitable heat treatment, and, after setting, but when still at a temperature at which it is permeable to gas, was subjected to carbon monoxide under pressure, segregations taking place within the mass might result in the production of diamond of payable quantity and size.—From the "Daily Telegraph", London.

Control of the Tobacco Horn Worm.

The results of two experiments, on the Harrow Tobacco Station, in combatting the tobacco horn worm have shown that spraying with Arsenate of Lead, as soon as the worms appear in appreciable numbers, is a most economical and effective method of eradicating this pest.

By spraying not only are all worms then damaging the tobacco killed but, under most conditions, all which hatch within the next few days after spraying are killed also.

Arsenate of Lead may be used either as a dust or powder or in solution. It has been found up until the tobacco is one half grown a solution consisting of six pounds of dry powdered Arsenate of Lead per hundred gallons of water is most effective, the solution apparently covering the plant more completely and adhering to it longer than the powder. However, after the tobacco becomes larger the middle leaves so nearly cover the bottom leaves as to render the solution and spray cart ineffective. Then the dust gun proves most efficient. For use in the dust gun the dry powdered Arsenate of Lead should be mixed with equal parts of dry sifted wood ashes, or if they are not obtainable the next best carrier is dry air-slacked lime. The powder should be applied early in the morning while the dew is still on the tobacco and when there is no wind blowing; at the rate of five pounds of the Arsenate per acre on large tobacco or three and one-half pounds per acre on small tobacco.

In purchasing the powdered form the buyer should demand Arsenate of Lead having at least 30% Arsenic Oxide; other forms of the poison with smaller Arsenic Oxide content are too slow in their action to give the best results.

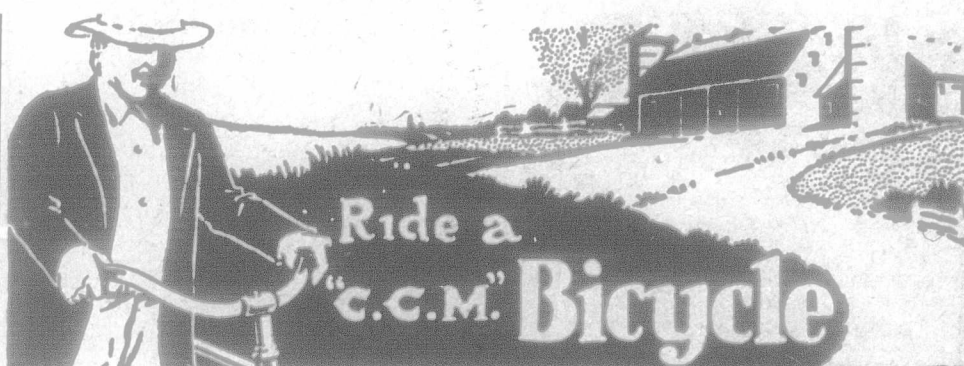
If the paste form is used the amounts previously recommended should be doubled as the paste form contains only one half the strength of the powder.

Paris green is also a good insecticide for combatting the worm. However, due to its tendency to burn the tobacco; the fact that it washes off more readily; and the quickness with which it becomes ineffective, as compared with the Arsenate of Lead, the use of the latter is to be preferred.

D. D. DIGGES,
Supt. Harrow Tobacco Station.

Gossip.

James Douglas, of Caledonia, has his recent importation of Leicesters landed at home. From all accounts they are a choice lot of 16 shearling ewes. "The North British Agriculturist" has the following to say regarding Mr. Douglas' importation: "They were selected for their good style and breeding, the purity of their color and the cover of their wool. Seven of the shearlings are by the Nisbethill-bred ram, Nisbet Idol, and a number are by Falkland Redoubtable, a son of The Redoubt 4178. The shearlings are of good size and have nicely-cut heads and a good class of wool." Mr. Douglas also has a number of imported rams and shearlings, and a number of home-bred shearlings, which are right good individuals. The imported rams were secured in last fall's importation. Anyone wishing to secure Leicesters of high quality should communicate with Mr. Douglas.



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YOU need a Bicycle NOW as never before. Help is scarce. Feed for the horse is dear. The most sensible and the cheapest means of getting there and back is a "C.C.M." Bicycle—the best that money can buy. Useful in a thousand ways on the farm. No cost for upkeep.

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Canada Cycle & Motor Co., Limited,
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HET LOO PIETERTJE

THE \$12,750 HEIFER

Sold at the great Milwaukee Sale, was only one of the many daughters we have of our senior sire Pontiac Korndyke of Het Loo. We also have sons—brothers to this world's champion heifer; and for the next few weeks, these, along with several other young bulls of serviceable age, are priced exceptionally low. Let us hear from you if interested—at once.

W. L. Shaw, Roycroft Farm, Farm on Yonge St., Toronto & York Radial, 1 1/2 hours from Toronto. New Market, Ont.

Manor Farm Holstein-Friesians

If it's a herd sire you want, write me. I have sons of both my senior and junior sires, King Segis Pontiac Posch and King Korndyke Sadie Keyes. All are from good record dams.

Choice bull calves at present to offer—average for two nearest dams, up to 34.71 lbs. butter in seven days. Correspondence solicited, visitors welcome.

Stations: Clarkson and Oakville
Gordon S. Gooderham Farm on Toronto and Hamilton Highway Clarkson, Ont.

CHOICE BULLS—Ready for Service

No. 1—By a son of MAY ECHO SYLVIA. His two nearest dams (both Canadian champions) average 35.62 lbs. butter in seven days. Price \$1,000.

No. 2—By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old) average 34.17 lbs. butter in seven days. Price \$800.

Some extra choice young bull calves, from \$200 to \$1,000. We have sold 37 bulls this winter.

HIGHLAND LAKE FARMS
R. W. E. Burnaby - Farm at Stop 55, Yonge St. Radial - Jefferson, Ont.

Hospital for Insane, Hamilton

We offer bulls only for sale, but they are from some of the choicest cows to be seen in any herd, and bulls equal to the best.

—Apply to Superintendent

Cloverlea Farm Holstein-Friesians

Offers for sale a choice young bull three months old, out of a 20.3-lb. dam. For price and extended pedigree write to

GRIESBACH BROS., COLLINGWOOD, ONTARIO

DUMFRIES FARM HOLSTEINS

Cows for sale, bred to Plus Evergreen, son of Evergreen March,

S. G. & ERLE KITCHEN Bell 'phone. ST. GEORGE, ONTARIO

SILVER STREAM HOLSTEINS

Present Offering—six extra well bred bull calves, sired by bulls with 34-lb. backing, and from tested dams, individually as good as their breeding. For fuller particulars and prices, write, or better come and see them.

J. MOGK & SON, R. R. 1, TAVISTOCK, ONTARIO

Choice Grandson of Queen Butter Baroness

I am offering a choice 14-months bull from a 21-lb. junior two-year-old daughter of Louis Prilly Roubie Hartog, and sired by Baron Colantha Fayne, a son of Queen Butter Baroness, the former 33-lb. Canadian champion cow. Also have others younger. T. W. McQUEEN (Oxford Co.) TILLSONBURG, ONT.

WALNUT GROVE HOLSTEINS

I am offering a choice lot of bull calves, all sired by May Echo Champion, who is a full brother to the world's champion, May Echo Sylvia. All are from R.O.M. dams and good individuals. Also have the usual offering in Tamworth swine.

C. R. JAMES, (Take Radial Cars from North Toronto) RICHMOND HILL, ONTARIO

SOVEREIGN STOCK FARM

The home of Baroness Madoline; 34.48 lbs. butter in 7 days, 1,043.75 lbs. in 835 days, over 87,200 lbs. milk in 47 months. We are offering a few of her grandsons up to 6 months old.

WM. STOCK & SON, Phone Innerkip 3, on line 25. R.R. No. 1, TAVISTOCK, ONTARIO

SPRUCE GLEN FARM

Herd headed by Nonpareil Ramsden—101081—and Royal Red Blood—77521—. At present we have nothing to sell but we have some very good ones coming on. James McPherson & Sons, Dundalk, Ontario.

Cloverlea Dairy Farm Holsteins

Present offering consists of three choice young bulls ready for service. Will be priced right for quick sale. For price and particulars apply to GRIESBACH BROS., COLLINGWOOD, ONTARIO.

HILLHOUSE AYRSHIRES—F. H. Harris, Mt. Elgin, Ont.

Headed by Burnside Lucky Master Swell, a combination of blood so hard to equal, being of the Masterpiece and Lucky Girl families, a combination which means quality, production and constitution. Ninety head to select from. Special offering—20 yearling heifers and 3 bulls. Inspection invited.

GLADDEN HILL AYRSHIRES

A choice bull calf two months old; sire, Fairvue Milkman, dam, a granddaughter of Primrose of Tanglewyld, for sale. Also a few females. Laurie Bros., Agincourt, Ontario