FARMING, LIVE STOCK, HORTICULTURE AND EVERYTHING OF FARM INTEREST

A. C. INCUBATORS WILL HATCH 7000 CHICKS FROM CHOICE STOCK

Department's "Homozygous" Rooster Imparts Wonderful Egg-Producing Power to His Progeny-Problem of Experts is to Prevent Best Birds From Killing Themselves by Over-Production.

Prof. W. R. Graham, B. S. A. and als staff at the Ontario Agricultural-Oollege are being kept busy by a rush of spring work for their eggs to pack for hatching and for marketing; incubators show by the glow of their lamps that they are there for business and not for ornament and the brooders are already chirping with fluffy youngsters.

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Stock Exchange. CUPINE STOCKS

ler Free. LIFE BUILDING. 6: Night. P. 2717.

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breeding true among themselves but have not had sufficient work put upon flem to reach the standard of all-round perfection expected of them. The fact of their comblessness should make them excellent birds for cold districts, for as every poultry keeper knows, there is nothing like a frozen comb for checking winter laying.

The Sussex-Brahma cross itself, which has had many years devoted to which has had many years devoted to it, gives us a clean-legged bird, which is more active, a better layer and a superior mother than either of the pa-

rent breeds.

It is not the policy of the department to give free advertising by recommendation of any one make of incubator, but the incubators chiefly in use are the Chatham. Cyphers, Prairie State and Candee. The use of the latter for pedigree hatching shows the modern tendency towards larger incubators, the machines holding some 3000 eggs. The use of large incubators necessitates the use of larger brooders, and the writer noted that experiments were being conducted with three or were being conducted with three or four types of large brooder, some of them heated by coal stoves. It is expected that some 7000 chickens will

expected that some 7000 chickens will be hatched this year from pedigree stock of various breeds and strains. The department is fortunate in the possession of that "rara avis." a homozygous rooster, by which is meant a rooster which will without fail hand on the quality of great egg production to his daughters, even if he is mated to-a-hen with inferior laying qualities. The breeding of such a rooster is a to-a-hen with inferior laying qualities.
The breeding of such a rooster is a work of years and entirely beyond the power of the ordinary poultryman. It has, however, been advanced by Dr. Raymond Pearl of the Maine Agricultural Experiment Station, that such homozygous birds should be raised by

A MODEL CHICKEN YARD

ollowing "don'ts" on seeding:

Don't overwork the horses. Don't cultivate grass seeds

Don't sow too little seed. Don't sow too many varieties.

Don't sow poor seed.

Don't neglect thoro soil preparation.

AGRICULTURAL TIT-BITS

of good color. Nothing else is good then the place of P. M. Clement B. S. A., lecturer in horticulture at Mac-donald College, P. Q. Mr. Clement takes the position of director of the Vineland experiment station.

Now is the time to keep your eye open for wet spots. Close observation will help you out quite a bit when it comes to putting in that drainage scheme.

The following reasons are given and surface and surface in western Canada: Insufficient dairy stock, lack of proper transportation, general use of highly perfected machinery increasing the scheme.

"By all means let us be merry, and

operate in our business."--Peter Mc-

The following reasons are given for milk shortage in western Canada:

us add to this list a cold winter, a

in too Then we may learn how to co-

CATERPILLAR PEST THREATENS NOW

Use Ordinary Spring Strength Lime-Sulphur Spray to Check Orchard Plague

Eastern Ontario and Quebec are threatened by a dangerous enemy, and the invading hosts are spreading westward to Toronto and beyond. The importance of at once coping with the advancing hordes of tent caterpillars advancing hordes of tent caterphlars and destroying those already in possession cannot be exaggerated. They attack not only our fruit trees but a variety of shade and forest trees, being particularly fond of wild cherry and hawthorn. Square miles of poplar and birch have been known to be stripped by these insects, and their presence in large numbers in an orchard may mean a complete loss of crop. ard may mean a complete loss of crop. In such myriads do they advance that In such myriads do they advance that it was not uncommon in the summer of 1912 for trains on the Gatineau River line of the Canadian Pacific Railway to be stopped by them, their bodies effectively greasing the rails and necessitating much work on the part of the engine men before the trains could proceed. Similar stoppages of trains also occurred in New Brunswick and British Columbia. Millions of the moths collected around the arc lights of Ottawa and deposited their eggmasses on the city shade trees. Recurrences of these outbreaks have taken place from the earliest times, and any other is now with us.

Fortunately a remedy is at hand, and L. B. Caesar, B.A.,B.S.A., our leading provincial authority on economic entomology, has informed the world and the book of the sealest with Ac-

and not for consequent the will be provided the control of the con

usually applied by the fruit growers should be applied as usual, but that a slight alteration in the time should be made, adapting each spray to the periods when the tiny caterpillars are just emerging from the egg-cases. In the case of the third spray usually applied just after the blossoms have fallen, and before the calyces are closed, an increased amount of arsenate of lead should be used, 3 lbs. being taken instead of the 2 lbs. customary. This authority asserts that he has never seen any great damage to orchards by tent caterpillars where spraying has been methodically and intelligently carried on.

Carried on.

For the benefit of those interested Tards yesterday were 45 car loads, 535

For the benefit of those interested Tards yesterday were 45 car loads, 535

102 bors 73 sheep, and 103

For the benefit of those interested who may not be conversant with the usual practices of spraying. I append the following list of sprays with the filme for their application, as used by apple growers.

Ist Application.—Shortly before the buds burst. Use concentrated lime-culphur, strength 1030 specific gravity—commercial 1 gal. to about 8 gals, of water.

2nd Application.—Just before the blossoms open. Use concentrated lime-sulphur, strength 1009 specific gravity—commercial 1 gal. to from 32 to 35 gals. of water.

3rd Application.—Immediately after the blossoms have all, or nearly all fallen, and before the calyces close. Use concentrated lime-sulphur, strength 1009 specific gravity—the blossoms have all, or nearly all fallen, and before the calyces close. Use concentrated lime-sulphur, strength 1008 specific gravity—commercial 1 gal. to from 35 to 40 gals. water. Mix with this 2 lbs. of arsenate of lead to each 40 gals, of the spray, or 3 lbs. if tent caterpillars are in the orchard.

The nests or webs of the tent caterpillars are known to all as it is common in orchards during May and June,

The supply of milkers was not equal to the buckers and feeders.

Trade in cattle was a repetition of Trade in cattle, 1369 hogs, 73 sheep, and 102 calves.

Trade in cattle was a repetition of Trade in cattle was a repetition of Trade in cattle, 1369 hogs, 73 sheep, and 102 calves.

Trade in cattle was a repetition of Tra

afterwards fastening a band of tangle-foot around the tree; destroy the tents \$5.50 to \$6.80; bulks, \$6.25 to \$7.

Steers and heifers at \$7.20 to \$7.95; cows.

The Swift Canadian Company bought flour—Fancy patents, \$4.60; colors and the steers and heifers at \$7.20 to \$7.95; cows.

Steers an



M. Americana (upper left, male; upper right, female); M. Disstria (lower left, male; lower right, female).

Lambs, Calves and Hogs Were Unchanged

cattle, 1369 hogs, 73 sheep, and 103

heifers at \$7.35 to \$7.75; cows, \$5 to \$6.50; bulls at \$6.25 to \$6.75.

Market Notes.

E. L. Woodward, well known to the trade in Canada, and buyer of cattle for Swift & Co. of Chicago, was a visitor at the market yesterday. Mr. Woodward is now a resident of Indianapolis, Indiana, where he has been stationed for some time.

BUFFALO LIVE STOCK.

EAST BUFFALO, N.Y., April 22.

Veals-Receipts, 22; slow and steady, \$6 to \$9.50.

Hogs-Receipts, 1,600; active; heavy, 10c lower; pigs 10c to 15c higher; heavy.
10c lower; pigs 10c to 15c higher; heavy.
89 to \$9.10; mixed and yorkers, \$9.15 to
\$9.20; pigs, \$9 to \$9.15; roughs, \$8.10 to
\$8.25; stags, \$7 to \$7.50; dairies, \$9 to

rive; lambs and wethers, 15c to 25c higher; wool lombs, \$7 to \$8.90; clipped lambs, \$5.50 to \$7.55; yearings, \$5 to \$6.75; wethers, \$5.75 to \$6; ewes, \$3.50 to \$5.50; sheep, mixed, \$5.50 to \$5.65.

CHICAGO LIVE STOCK.

CHICAGO. April 22.—Cattle—Receipts, 15,000; market, steady; beeves, \$7.05 to \$9.35; Texas steers, \$7.15 to \$8.20; stockers and feeders, \$5.50 to \$8.10; cows and heifers, \$3.70 to \$8.50; calves, \$6 to \$8.50. Hogs—Receipts, 20,000; market, weak; light, \$8.25 to \$8.55; mixed, \$8.25 to \$8.60; heavy, \$8.05 to \$8.55; rough, \$8.05 to \$8.20; pigs, \$7 to \$8.25; bulk of sales, \$8.40 to \$8.55. \$8.55. Sheep — Receipts, 23,000: market. steady; native, \$5.25 to \$6.75; yearings, \$5.70 to \$7.40; lambs, native, \$6.20 to \$8.15.

CHICAGO MARKETS. Erickson Perkins & Co. (J. G. Beaty), 14 West King street, Toronto, report the following fluctuations on the Unicago Board of Trade:

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 Wheat
 Open High Low Close Close

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MINNEAPOLIS GRAIN MARKET. MINNEAPOLIS. April 22.—Close: Wheat—May, 91½c bid; July, 92½c to 92½c; No. 1 hard, 95½c; No. 1 northern, 93½c to 94%c; No. 2 do., 91½c to 92½c.

Progressive Jones Says:

"Here is the Right Fertilizer For Lawns and Vegetables"

The most effective method of nourishing grasses and vegetables to get rich yields should also be the cleanest and handiest way. If you want these results, I

say-use Harab Fertilizers. Manures are not only offensive to handle but they sow weed seeds. Fertilize the Harab way; there is a Harab Fertilizer specially adapted for the kind of grasses, flowers and vegetables you want to grow. Harab Fertilizers are food for both land and crop.



If your dealer does not handle Harab Fertilizers write direct to the makers and send for this Harab Fertilizer
Booklet which the Harris Abattoir Co.
would like to send you free.

Yours for bumper crops; Progressive Jones

The Harris Abattoir Co., Ltd. Fertilizer Dept. Toronto, Canada

By G. H. Wellington

That Son-in-Law of Pa's

SAY! GET OUTA THAT CHAIR! HERE FURNITURE, NOT SLEEP ON IT?

ountants. VEST, TORONTO. dicine Hat. gan & Co. COUNTANTS ET, TORONTO.

GRANTED. 22.—The sense of Mrs. Florence r a divorce from Norris Merritt. presented before sorge R. Sweens.

DAWGGONE IT, I THOUGHT MA SAID YOU WAS GOIN T' HELP ME WITH THIS STUFF?

HOW WHERE'N TH' DEUCE CEDRIC! COME'N HELP ME MOVE THIS HERE TABLE, GOSH-BLINK IT!





TIGHT BINDING