

## Agricultural Instruction Cars

THE GRAND TRUNK RAILWAY,  
in co-operation with the  
Provincial Department of Agriculture

Including the  
Agricultural College at Guelph

Are equipping a couple of baggage  
cars to be run over the GRAND  
TRUNK LINES of Western  
Ontario from

**January 8th to March 14th**  
inclusive. The exhibits are being prepared by the  
staff of the Agricultural College and specialists  
connected with various branches of the Depart-  
ment of Agriculture. Farm crops, soils, lightning  
protection, feeds, fertilizers, dairying, poultry and  
egg production, weeds, insects and fungous diseases,  
vegetable growing, household conveniences and  
labor-saving devices will be included in the exhibits.  
**This Miniature Agricultural College and  
Experimental Farm on Wheels**

will be found of great interest to those who are  
interested in seed improvement, cultivation, drain-  
age, potato growing, economical feeding of live  
stock, testing of milk, sanitary methods in han-  
dling milk, poultry and egg production, the erad-  
ication of weeds, the control of insect, pests and  
fungous diseases, the growing of vegetables for the  
household, canning of vegetables, water supply  
and sanitary conveniences in the home, labor-  
saving devices, etc.

Both the men and women, as well as the boys  
and girls, should find much of interest in the cars.

PLACE	DATE	HALL
Elora	Jan. 8th	Town Hall
Fergus	Jan. 9th	" "
Alma	Jan. 10th	Public Hall
Drayton	Jan. 11th	Town Hall
Palmerston	Jan. 12th	Library Hall
Mount Forest	Jan. 13th	Town Hall
Durham	Jan. 15th	" "
Clifford	Jan. 16th	" "
Mildmay	Jan. 17th	" "
Walkerton	Jan. 18th	Hall of Dis. Rep.
Pt. Elgin	Jan. 19th	Town Hall
Listowel	Jan. 20th	Christ Church Hall
Brussels	Jan. 22nd	Town Hall
Wingham	Jan. 23rd	Opera Hall
Lucknow	Jan. 24th	Town Hall
Ripley	Jan. 25th	" "
Clinton	Jan. 26th	" "
Seaford	Jan. 27th	" "
Mitchell	Jan. 28th	Town Hall
Shakespeare	Jan. 30th	" "
St. Mary's	Jan. 31st	Town Hall
Ailsa Craig	Feb. 1st	" "
Forest	Feb. 2nd	" "
Blackwell	Feb. 3rd	" "

Every Person Welcome! No Charge!

The cars will be open for inspection from 10.30  
a.m. to 5.30 p.m. each day, when competent in-  
structors will be in attendance to answer ques-  
tions and to explain exhibits. Special lectures for  
the school children will be given from 10.30 a.m.  
to 12 noon.

### MOVING PICTURES

Evening meetings will be held in the halls in-  
dicated, when lectures will be delivered and mov-  
ing pictures bearing upon agriculture exhibited.

Fare-and-a-third rates will be given on all Grand  
Trunk Railway trains within a radius of 80 miles,  
good going the date announced and preceding day,  
good returning date announced and following day.  
List for February 5th to March 14th will ap-  
pear in a later issue.

For folder giving fuller announcements, apply to

**GEO. A. PUTNAM**  
Dept. of Agriculture, Parliament Buildings  
TORONTO

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by CUTTER'S BLACKLEG PILLS  
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10-dose pkg. Blackleg Pills, \$1.00  
50-dose pkg. Blackleg Pills, \$4.00

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The superiority of Cutter products is due to over 15  
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The Cutter Laboratory, Berkeley, Cal., or Chicago, Ill.

**COMMISSION MEN PAY MORE.**  
Dealers at the Stock Yards pay  
more for cattle that have been  
dehorned. The hides are worth  
more, and the flesh has less  
bruises. It pays to dehorn your  
cattle. Write for booklet telling  
about the KEYSTONE DE-  
HORNER.

R. H. McKenna, 219 Robert St., Toronto

### ALLOWAY LODGE STOCK FARM

ANGUS SOUTHDOWNS, COLLIES,  
PRIZE BULL CALVES AND  
RAMS, COLLIE PUPS.

**ROBT. McEWEN,** R. R. 4,  
London, Ont.

### Beaver Hill Aberdeen-Angus

Males and females, all ages, for sale. Prices right.

ALEX. McKINNEY

Cheltenham, G.T.R. R.R. No. 1, Erin, C.P.R.

Buy Your Seed Oats Now—Now is the time to

make sure of getting good Ontario-grown seed. I

have a limited amount of good, clean seed oats

left, which I will sell reasonably. Samples and

prices sent on request. Apply soon.

BENJ. J. WAECHTER, Gold Medal Farm

R. R. No. 3 Walkerton, Ontario

## Questions and Answers.

Miscellaneous.

### White Diarrhoea.

Is there any preventive measure or  
remedy for white diarrhoea, and scaly  
legs in mature hens? W. A. B.

Ans.—There are several forms of  
diarrhoea which arise from different  
causes. When the trouble is first no-  
ticed, the birds should be isolated, and the  
feed troughs and drinking fountains  
scalded daily. It is recommended that a  
little potassium permanganate be used in  
the drinking water, and powdered charcoal  
mixed with the mash. These are to a de-  
gree preventive measures. Feed little  
bran and more shorts. Sour milk is also  
beneficial. Care should be taken in feed-  
ing, as the trouble may be caused by un-  
digested feed setting up irritation in the  
intestines. Administer a teaspoonful of  
Epsom salts to each bird. This may be  
done by dissolving the salts in water and  
mixing in the mash. Medical treatment  
consists of the following: subnitrate of  
bismuth, 3 grains; powdered cinnamon or  
cloves, one grain; powdered willow char-  
coal, 3 grains. Give twice a day mixed  
with food. Diarrhoea may be prevalent  
in a weak bird. Keep the birds in good  
health by proper feed and housing. The  
following tonic is recommended: powdered  
fennel, anise, coriander and cinchona—30  
grains of each. Mix and give in the feed.  
Scaly legs are caused by a minute mite  
working under the scales. Individual  
treatment is necessary to cure the disease.  
Soak the legs and feet in warm, soapy  
water, then apply some penetrating oil  
to the diseased parts. A stiff toothbrush  
is useful in applying the remedy. One  
part oil of caraway to 5 parts vaseline is a  
good oil to use, or one part kerosene to  
two parts raw linseed oil is effective.

### Walls Under a Shed.

I purpose building two walls under a  
shed 24 feet by 40 feet. Would concrete  
be dry enough and suitable for a horse  
stable? It is much cheaper than stone.  
The shed runs north and south, with the  
horses facing west, and a box stall and  
harness-room at the south end. Give  
ideas how best to fit it up and ventilate  
it. Hay is to be stored overhead.

Ans.—Concrete and stone are similar  
as far as dampness is concerned. For a  
horse stable we would prefer a stone or a  
concrete foundation, possibly a couple of  
feet above ground and build the remainder  
of lumber. It will be drier and healthier  
for the horses. The width of the stable  
gives sufficient room for a nice-sized  
passageway behind the horses, and a good  
feed passage. Five feet is about the  
average width of the stall for horses.  
Therefore, you could put in eight single  
stalls, or six stalls and one box stall, which  
would be ten feet wide. A concrete floor  
is the most permanent, but we like to lay  
plank on top where the horses stand.  
The stalls may be separated by plank to a  
height of possibly five feet, and then iron  
bars could run from there to the ceiling  
to prevent the horses snapping at each  
other. A post could be put in at the front  
and back of each stall before the concrete  
is put in; this would make them stationary.  
We would prefer feeding hay in a manger,  
rather than in an overhead rack. The  
manger could be about two feet wide at the  
bottom and sloped towards the passage-  
way in front, thus facilitating the feeding  
of hay. The fresh air could be brought in  
through windows or intakes in the wall.  
Galvanized piping, possibly fifteen inches  
or a foot and one-half in diameter, extend-  
ing from within a foot of the floor to the  
roof, carries off the foul odors and gives  
very satisfactory ventilation. By having a  
slide in this ventilator, near the ceiling,  
the temperature of the stable can more  
easily be controlled.

### Veterinary.

#### Soft Swelling.

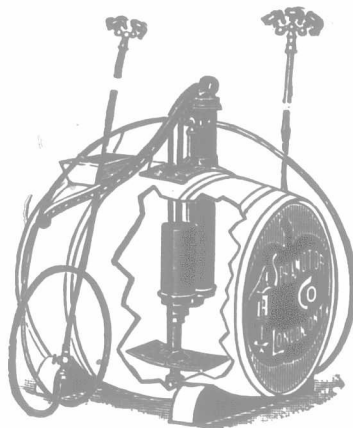
For several months a soft swelling has  
been coming on my cow's hind leg from  
the heel to about a foot up the leg on the  
outside. The leg now looks almost  
double size. She is not lame.

Ans.—It is possible that a veterinarian  
would operate and remove the contents.  
All that you can do is to apply absorbents.  
Get a liniment made of 4 drams each of  
iodine and iodide of potassium and 4 oz.  
each of alcohol and glycerine. Rub some  
of this well in once daily. Have patience,  
as quick results will not be noticed. V.

## The Most Modern Weapon

for protecting your field and orchard crops

from being destroyed (or their market value lessened) is the SPRAMOTOR.  
It will enable you to combat the potato-beetle and blight quickly and  
effectively. In the orchard—to produce 75% No. 1 fruit and have cleaner,  
healthier trees—free from scale and bark-louse.



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It isn't a SPRAMOTOR unless we made it.

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for every need, from the small hand outfit  
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range in price from \$6 to \$400.

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for our catalogue and FREE booklet on Crop  
Diseases. Get your copy to-day.

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## Individuality

The chief characteristic of a sire is firmly  
implanted in all our bulls. Some of the best  
herds in America to-day are headed by bulls  
bred by us. We have them out of champions,  
by champions, and champions. Come to us to  
get a sire if you want to pick from the best in  
the country to-day. We have them from two-  
hundred dollars up.

**A. F. & G. AULD**

A. GORDON AULD, Owner

Arnell Station, R. 2, Guelph, Ont.

FIELD MARSHALL = 100215 = the calf  
of 1915, sold June 7, 1916, for \$3,775.

## TWO BULLS--Born April 1916

Either will make show animals. No. 1: two nearest dams average 109 lbs. milk a day, and over 30  
lbs. butter a week. No. 2: dam and grandam average 24,000 lbs. milk in the year. Three nearest  
dams average 109 lbs. milk a day and over 30 lbs. butter a week. Can spare a few females.

**D. C. FLATT & SON,**

LONG-DISTANCE PHONE

R. R. 2, HAMILTON, ONT.

## ROYAL BREEDING SCOTCH SHORTHORNS HIGH-CLASS TYPE

of high-class, fashionably bred Scotch Shorthorns in calf to Sittytton Sultan's Dale, a Mina-bred son of  
Avondale, dam by Whitehall Sultan, is of interest, come and examine my offering.

**A. J. HOWDEN,**

Columbus, Ont.

Myrtle, C.P.R., Brooklyn, G.T.R.

## Spruce Glen Shorthorns

When in want of Shorthorns visit our  
herd. We have 70 head to select from  
Minas, Fames, Miss Ramsdens, Florences  
age—level, thick, mellow  
fellow and bred just right.

**James McPherson & Sons, Dundalk, Ont.**

## Young Bulls

Myrtle Station—  
C. P. R. and G. T. R.

**John Miller, Ashburn, Ontario**

## Pleasant Valley Herds

For sale: Several good young bulls, reds and roans, of  
the very best breeding; also females of all ages; all the  
leading families represented; 100 head to select from.

**Geo. Amos & Sons, Moffat, Ont.**

## BURNFOOT STOCK FARM

Breeders of high-record, dual-purpose Shorthorns with a splendid conformation for beef.  
Visitors welcome.

**S. A. MOORE, Prop.**

CALEDONIA, ONT

## IRVINEDALE SCOTCH SHORTHORNS

Our offering this year in Scotch Shorthorns is probably the best we have offered for many years, there  
are several young bulls of serviceable age, right good ones and breeding the very best; also females of  
any age.

**JOHN WATT & SON,**

ELORA, R.M.D.

## Shorthorns

Pure Scotch and Scotch topped—Booth. Also five (5)  
young bulls from ten to twenty months old, of the  
low down, thick kind, good colors—reds and roans.  
Prices reasonable.

**G. E. MORDEN & SON, Oakville, Ont.**

## IMPORTED SHORTHORNS

Cows and heifers in calf, or with calf at foot. Yearling bulls and bull calves. One of the best  
importations of the year. You will be surprised when you see them.

**WILL A. DRYDEN,**

Maple Shade Farm

BROOKLIN, ONT.

## SHORTHORNS AND SHROPSHIRE—T. L. Mercer, Markdale, Ont.

Have sold all the Shropshires I can spare this season. Present offering in Shorthorns—ten really choice  
young bulls, sired by Broadhooks, Golden Fame = 50018 = Imp., and out of such noted families as  
Campbell-bred Clarets, Nonpareils, Murr Missies, Stamfords, Crimson Flowers, Village Girls and  
Charming Gems, ranging from 9 to 16 months old. All good reds and roans.

## Imported Shorthorns

**J. A. & H. M. Pettit, Freeman, Ont.**

40 more imported Shorthorns have arrived home  
from quarantine. We now have 18 heifers in calf  
and 19 cows with calves at foot, also a few good  
imported bulls. They are all good individuals and  
represent the choicest breeding. We can meet  
visitors at Burlington Jct. at any time if notified.

**SCOTCH SHORTHORNS, YORKSHIRES & OXFORD DOWNS**  
Our Shorthorns are of the most noted Scotch families and the Scotch (imp.) bulls, Joy of Morning  
(imp.) = 32070 =, Benachie (imp.) = 69954 =, and Royal Bruce (imp.) = 80283 = have been used in  
succession. Two choice bulls of breeding age and heifers for sale. Also sheep and swine.

Erin Station, C.P.R.

L.-D. Phone

**GEO. D. FLETCHER, ERIN, ONT., R. R. 1**