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CAUSTIC  
BALSAM.

A safe, speedy and positive cure. The safest, best BLISTER ever used. Removes all bunches from horses. Impossible to produce scar or blemish. Send for circulars. Special advice free.

THE LAWRENCE-WILLIAMS CO., Toronto, Canada

R.M.S.P.

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HALIFAX (N.S.)TO THE  
WEST INDIES

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R.M.S.P. "Chignecto"

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Local TICKET AGENCIES.

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—by removing the cause—and  
cured to stay cured—If 3 boxes  
of

Fleming's

Tonic Heave Remedy

fail to effect a cure of any case,  
old or new, we will refund the  
full amount paid.

Per Box, \$1.00; 3 for \$2.50.

Mailed on receipt of Price.

Scratches Disappeared

Gentlemen:—I gave a course

of your Tonic Powders, which

has put a horse and his mate

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scratches has quite disappeared.

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Fleming's Vest Pocket

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with CONTRACT or we send by Parcel Post.

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Angus, Southdowns, Collies

Special this month

## Southdown Prize Rams

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Balmedie Aberdeen-Angus—Get a high-  
class Angus bull and breed the  
champion steers. I have show-ring quality bulls  
from 10 to 24 months of age; also choice 1- and  
3-year-old heifers.

T. B. BROADFOOT, Fergus, Ont.

Aberdeen-Angus Cattle. Several choice  
young bulls from the  
imported sire "Pradamer" for sale. Apply  
A. DINSMORE, Manager, "Grape Grange"  
Farm, Clarksburg, Ont.  
1 1/4 miles from Thornbury, G.T.R.

Questions and Answers.  
Miscellaneous.

## Size of Pulleys.

1. I am going to put in a line shaft  
for a gasoline engine 1 1/2 horse-power,  
500 revolutions per minute, with a 3-  
inch pulley on engine. Give me an  
idea of size of drive wheel to use on  
shaft, and size of pulley to run a separa-  
tor 60 revolutions per minute. I have  
a 12-inch pulley on separator. I have  
a speed governor which reduces speed  
one-half for separator.

2. What size pulley is required on a  
shaft to run a churn about 50 revolutions  
with an 8-inch pulley on churn? R. F.

Ans.—1. Make the diameter of the pulley  
on the shaft half the diameter of the  
driving wheel. This combination with  
a three-inch pulley on the engine and  
a twelve-inch one on the separator  
will run the latter exactly one-quarter  
as fast as the engine, namely, 62 1/2  
revolutions per minute. Throttle the  
engine down to 480 revolutions per  
minute, and the separator speed will  
be 60, or by your governor reduce the  
separator speed from 62 1/2 to 60 revo-  
lutions per minute.

2. Make diameter of pulley on shaft  
one-quarter as great as that on driving  
wheel, and the churn will run 47 revo-  
lutions per minute.

## When to Sow Alfalfa Seed.

1. Is August the best time to sow  
alfalfa?

2. Would it be advisable to sow  
with a nurse crop this time of year?

3. Will you get as good a catch  
if sown now as in the spring?

4. Have you had any experience  
with basic slag fertilizer?

5. Is it a good fertilizer for fall  
wheat on clay loam soil? A. D. P.

Ans.—1. It has not proven to be.  
There are usually several weeks of hot,  
dry weather in late summer that either  
prevents the seed from germinating,  
owing to lack of moisture, or else burns  
up the young plants. Sowing with a  
nurse crop in the spring or sowing  
without a nurse crop after a shower  
in the early part of July is preferable  
to August seeding.

2 and 3. We think not.

4 and 5. We have seen a number of  
fields where this kind of fertilizer  
was used, and in most cases the re-  
sults were very satisfactory in the wheat  
crop as well as with other crops. It  
is a good fertilizer, but results will  
depend on the soil to which it is applied.  
If it is well supplied with the materials  
which the fertilizer contains the results  
will not be so noticeable as on a soil  
which is lacking in plant food.

## Control of Cabbage Root Maggot.

1. I would like if you could tell  
me, through the columns of your paper,  
how to protect newly transplanted  
cabbage plants from a small white  
grub or worm which attacks the root  
and kills the plant.

2. Is it the same pest which destroys  
radishes?

3. Will kerosene emulsion kill bugs  
on cucumber vines and lice on roses  
without injury to the foliage?

4. Is there a government bulletin  
issued dealing on this work? If so, could  
you give me the name or number and  
tell me where to write? D. B.

Ans.—1. Tar-paper discs placed  
around the plant at time of setting  
it out have proved effective. White  
hellebore or pyrethrum insect powder  
either as a decoction or dry, mixed  
with flour or land plaster, have been  
used with satisfactory results.

2. It is believed so.

3. Kerosene emulsion is a remedy for  
sucking insects and would not prove  
effective against insects which bite.  
Aphids and lice can be controlled by  
the emulsion, which should not injure  
the tenderest vines. Poison material  
must be used for biting insects.

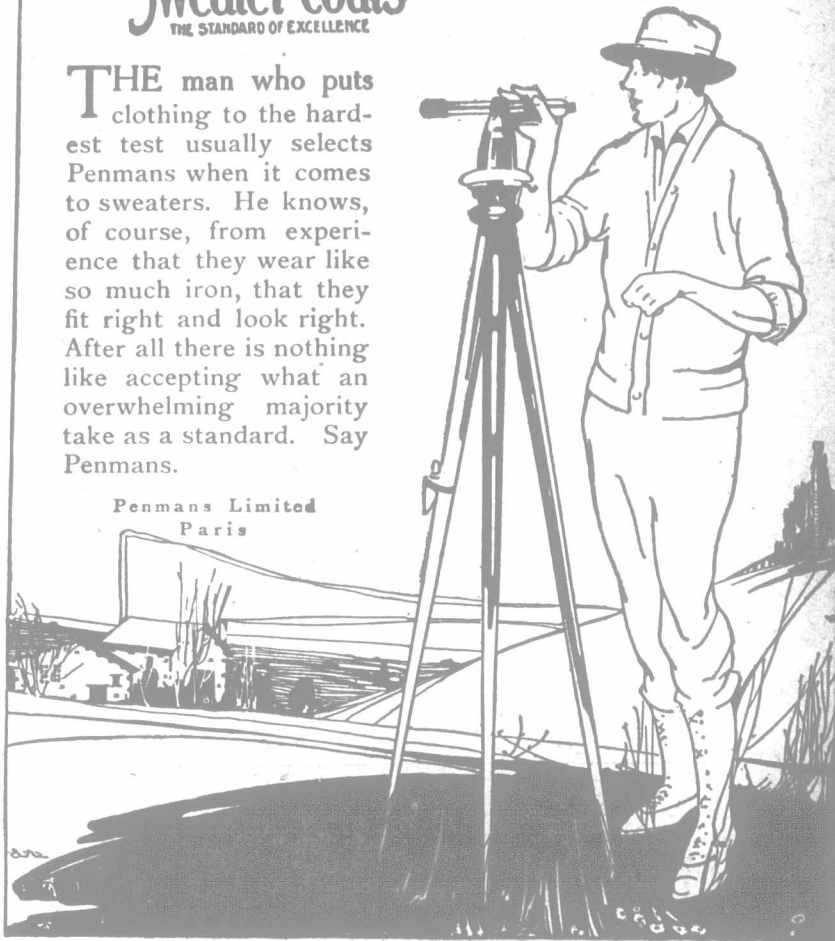
4. The subject of root maggots is  
fully discussed in Bulletin No. 12,  
which may be obtained from Depart-  
ment of Agriculture, Entomological  
Branch, Ottawa, Ontario.

## Penmans

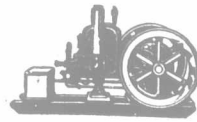
## Sweater-coats

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THE man who puts  
clothing to the hard-  
est test usually selects  
Penmans when it comes  
to sweaters. He knows,  
of course, from experi-  
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fit right and look right.  
After all there is nothing  
like accepting what an  
overwhelming majority  
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Penmans.

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system. A Windmill, or gasoline engine, a sheltered  
tank, pump, piping, and automatic self-filling water  
basins in the stalls, cause a tremendous saving of work,  
and an enormous advantage to the cattle in beef-  
raising and dairying. Where cattle are watered by  
hand-pumping, they never get all they would like and  
do not make as good a showing. Plenty of water to  
drink means productivity and health in cattle. Together  
with our Litter Carrier, Steel  
Stanchions, etc., the barn work  
is so reduced that one man can  
care for 25 to 40 head of cattle.  
This saving of labor means  
saving of hired help and a  
chance to expand on a larger scale and make more  
profit. Write for our Book on "Barn Equipment."

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After all, life on the farm is worth while,  
in proportion to the reasonable comforts  
that are supplied. With inexpensive power to run pumps, feed  
grinders, wood saws, washing machines, churns, separators,  
etc., the labor of the farm is lightened. With running  
water in the house, the home is made as comfort-  
able as a city home, and the cost is very  
slight indeed. Write us for  
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Windmill, easy-run-  
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constructed, pumps water,  
even in a light breeze.  
For pumping to water  
cattle, there is no method  
so inexpensive. Write for  
Windmill prices.

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The same Windmill or Engine  
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A piped, self-regulating  
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figures on the entire cost of a water system for  
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Clydesdales We have still left some exceptionally good drafty stallions,  
ranging in age from one to eight years, prizewinners, including  
champions; also in-foal mares and fillies. There is a horse boom coming. Buy now.  
SMITH & RICHARDSON, Columbus, Ont.

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Have several young bulls and heifers for sale. Satisfaction guaranteed.  
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## Spring Valley Shorthorns

Herd headed by the two  
great breeding bulls,  
imp.) 73783, and Nonpareil Ramsden 83422. Can supply a few of either sex.  
Kyle Bros., Drumbo, Ont. Phone and telegraph, via Ayr.

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Our recent importation of thirty head has arrived at  
our farms. We have imported cows with calves at foot,  
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meet trains at Burlington Jet. at any time if notified.  
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## Canada's Grand Champion Shorthorns of 1914-1915

are headed by the great "Gainford Marquis" Imp. Write your wants.  
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## When writing please mention this paper