

### MAKE YOUR LAND FULLY PRODUCTIVE Get a SPRAMOTOR!



The man who owns a Spramotor cannot understand why other men will get tilling and cultivating for weeks, then leave the crop to be devoured, and a field ruined by insects, scale, rot and other pests.

A Spramotor owner gets all this done to get in fruit, potatoes, berries, row crop and grain. He is the man who always has a bumper crop, always has a good season, always makes a profit.

You may be a farmer in a small way. We have a Spramotor selling as low as \$10. You may be the owner of several hundred acres of field and orchard. We make power Spramotors up to \$50, and also a wide range of styles and prices in between. We can fit your needs exactly.

Write us a short letter detailing your requirements. By return mail we will send you FREE a copy of our valuable book on Crop Diseases, also particulars of a Spramotor that will best do your work, at lowest cost. Don't delay, write us now!

HEARD SPRAMOTOR CO., 1785 King Street, LONDON, CAN.

### RIDER AGENTS WANTED

Everywhere to ride and exhibit a sample 1914 Flying High with contest breaks and all latest improvements.

We ship on approval to you, and allow 15 DAYS TRIAL. It will not cost you a cent if you do not desire our bicycle.

**DO NOT BUY of street, lamp, or newsstand or any pedlar until you receive our latest 1914 Illustrated catalogue and have finished our special price and accepting program.**

**ONE CENT** is all it will cost you to write us to write us a postal and catalogue and full information will be sent to you. **FREE** Postpaid by return mail. **One cent** will wait. Write it NOW.

**HYBLO BROTHERS, Limited**  
Box K TORONTO, Canada



### CHALLENGE COLLARS

Adapted to be fastened to the front of the collar. We have used Collars ever made. Ask us to see and buy no other. All for 25c.

THE ARLINGTON CO. of Toronto, Ltd. 80 PRINCE AVENUE TORONTO

All "ARLINGTON COLLARS" are good, but our CHALLENGE BRAND is the best



## ORCHARD AND GARDEN

### Orchard and Garden Notes

Rake and cart away all trash from the premises as soon as possible.

Onion sets may be planted as soon as the ground is workable. White sets are best.

Spinach may be planted at any time now. Cover not over one-half inch deep.

Has the orchard been sprayed? There is still time if the leaves have not started.

Plant sweet peas early. They require cool, moist weather for best growth.

A good lawn and garden will make the home brighter and better.

Forty-two pounds pure Kentucky blue grass, five pounds redtop, and three pounds white clover per acre make a good lawn grass mixture.

Better results are obtained by planting asters and sweet peas in colors, although mixtures are cheaper and if good do very well.

Attractive surroundings both indoors and out will help to keep the boy and girl on the farm. Give them something of their own; some stock, or as much land as they can care for,

and they will become interested in and attached to the farm. Personal ownership goes far to interest us in things about us.

### Dormant Spraying

By R. C. Rose

All orchardists should purchase their spraying appliances early so as to be sure to have everything on hand at the proper time. If left till the last minute the shipment may be delayed for some time in transit and the spraying so delayed as to cause considerable loss to the orchard. It is very important that the spraying be done at the right time, for if applied too early or too late, its value may be greatly reduced. The mixtures used for dormant spraying are made much stronger than for later applications, and hence should never be used after growth has started in the spring.

The dormant wash is especially important for the orchard which has previously shown disease. The spores of the disease may live over winter on the dead leaves or fruit or in the crevices of the bark or the root-like mycelium of the organism may live over in the dead branches of the trees and thus be a continual source of infection for other trees. Therefore the logical thing to do is to cover the trees thoroughly with a fungicide that will kill the infection through the minute spores start growth in the spring. It is imperative that the trees be thoroughly covered with the spray or otherwise the work will not be worth while. As a primary measure of precaution, all dead and diseased branches should be pruned out and burned before spraying is done, and the wounds covered with white lead to keep them from rotting while healing.

There are several different kinds of spraying compounds in use at the present time. The most important for dormant spraying are commercial lime-sulphur which is mixed with water at the rate of one gallon to nine gallons of water; self-boiled lime-sulphur (15-20-50) and copper sulphate, 3 pounds to 50 gallons of water. The first of these seems to be the most satisfactory and its use is gradually increasing each year.

### Big Crops of Roots

One of the most appreciated addresses at the last Guelph Winter Fair was that given by Paul A. Boving, Root Specialist at Macdonald College, Quebec. In the report of this address which appeared in Farm and Dairy, April 2nd, several serious errors crept in through careless proof-reading.

In the third paragraph it should read 75 lbs. of Muriate of Potash, instead of 25. In the table under the heading "Best Yielding Varieties," "tons dry matter" and "tons roots," should be reversed.

In the third column the sentence starting "comparing No. 2 and No. 3," the last word of the sentence should be "former" instead of "latter."

The last line on page three reading "point. As a general rule carrots should be sown," should be omitted, reading from "The former is advisable in two cases," right on to page six.

Errors such as these will creep in at times, and we regret them exceedingly.

### Reply to

W. R. Austin, WITH the information in the Wm. D. advertisement

in Farm and Dairy, I wish, it is not surprising, that Hunter felt prompt protest against such a surprise that anyone would be so surprised at the O. A. his name go as sponsor's statements. I writing clear to readers of Farm and Dairy, however, that my name in connection with this entirely without my consent. I altogether agree with the letter that the advertiser including since the cost which these results were not taken into account information on fertilizer to believe that the information obtained by the student mixed fertilizers is due of goods. Such importations as soil conditions cropping, spraying, etc. hinted at as being largely responsible for yields.

The following conditions were these two young men with respect to your readers, as possibly be taken into account in accounting for the results.

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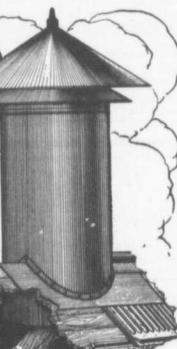
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## Ventilation in Your Barn



Pedlar's Superior Barn Ventilator



Too many farmers are content to overlook the important question of proper ventilation in their barns, yet nothing is more essential to the health of their live stock and the preservation of their crops and buildings.

### Pedlar's "Superior" Barn Ventilator

is especially adapted for ventilating barns and large buildings.

It provides a constant upward current without any down draught, working continuously and most efficiently. It is priced much lower than other ventilators not nearly so satisfactory. Fully protected from the bird nuisance.

Get our Folder on "Barn Ventilation."

For Roofing your Barns, the big

"George" Shingle (24 in. x 24 in.), with its positive four-side interlocking device, affords ideal protection against fire, wind, snow, and rain.

And for your dwellings and out-houses the "Oshawa" Shingle (16 in. x 20 in.), of identical quality and design, is equally effective. Get our Shingle booklet.

Best grade Corrugated Siding, and a variety of Sheet Metal products always in stock at all our branches.

Write nearest address for Catalogue 22 F.D.

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