

# Stolen from Farmers in 1917- \$100,000,000

The enemy is upon us again--the invasion of fungi and insects commences. These pests last year destroyed crops worth \$100,000,000. Can we save this huge sum in 1918?



ONTARIO

We can save--most of it. Every year the knowledge of how to control insect and fungus pests is being rapidly increased. More advance has been made in the last ten years, in this line of work, than in the previous hundred. There are to-day thoroughly tested and efficient remedies for most of our important pests. The Ontario Department of Agriculture now desires to bring these to the attention of every farmer in the province.

## Barrage Against Fungus Invaders

**Oat Smut, Bunt or Stinking Smut of Wheat and Covered Smut of Barley** destroy these crops and reduce profits. The formalin treatment is not expensive or difficult--and it will control these diseases.

**Apple Scab** still collects its annual toll of hundreds of thousands of dollars. Intelligent and careful spraying with proper pruning will almost always prevent it, no matter how wet the season.

**Potato Blight and Rot** destroys thousands of bushels of potatoes every year--but the Bordeaux mixture properly applied will check its ravages.

**Peach Leaf Curl, Potato Scab, Black Knob of Plums and Cherries, Brown Rot of Plums and Cherries, Celery Blight and Tomato Blight**--all can be prevented from exacting their yearly tribute by efficient methods of control.

## A Vigorous Offensive Against Insects

The San Jose Scale is smaller than the head of a pin--but it has ruined hundreds of thousands of fruit trees in Ontario.

The Codling Moth occurs in every apple and pear orchard in the Province.

The Plum Curculio often destroys nearly every plum in many orchards.

Maggots in Cherries may destroy 50 per cent or more of the crop. Yet all these Pests can be controlled.

It is not difficult nor costly to destroy Grasshoppers, Cut-worms, Army Worms, or Cabbage Worms.

The Hessian Fly, Wheat Midge, White Grub and Wireworm, weaken our war-time strength--but much may be done, too, to check their ravages.

Horn and Stable Flies and Cattle, Hog and Poultrey Lice yield to proper treatment.

Ants, Cockroaches, Bed Bugs, Buffalo Carpet Beetles, Clothes Moths, House Flies--all the household insect pests, in short--may be partially or completely controlled.

## A Few Timely Suggestions

**Treatment for Smut**--Mix one pint of formalin with thirty gallons of water. Place grain on clean floor and sprinkle with formalin solution. Stir grain and repeat until every kernel is moistened by solution. Cover pile with sackings and leave for couple

of hours. Then spread grain out thinly to dry.

**Late Blight and Rot of Potatoes**--Commence spraying with Bordeaux mixture when plants are six inches high. Spray thoroughly so every leaf is drenched. Add arsenate of lead or Paris green when necessary for beetles. Spray regular, throughout season--from three to seven applications are necessary, according to wetness of weather.

**Grasshoppers**, no matter how abundant, can readily be controlled. Mix 20 lbs. bran with 1 lb. Paris green. Squeeze juice of three lemons into 2 gallons of water, chop pulp and rinds of lemons and add to water; then add a gallon of molasses to water and stir well. Mix poisoned bran and molasses mixture until every part is moist and will run through fingers like sawdust. Scatter this mixture between 5 and 7 o'clock in the morning thinly over infested field, so that quantity given will be sufficient for 4 or 5 acres.

**Maggots in Cherries**--This curse to the cherry grower can be absolutely controlled at a cost of about 5 cents per tree. Spray with 2 lbs. arsenate of lead paste in 40 gallons water; first, when the early varieties begin to turn red; second, two weeks later.

**Blister Mite** can be annihilated by a single spraying of trees with lime-sulphur wash, 1 gallon to 9 gallons water.

There are a few methods of control. There are as efficacious remedies for most of pests. Methods sometimes need to vary according to local conditions, but the result is the same. To assist the farmer in this regard the

## Ontario Department of Agriculture

has the following up-to-date bulletins ready for distribution: Nos. 219, 227, 228, 240, 250, 251, 257, and 258. These treat the subject from every angle, and in them the farmer may find with very little trouble just the information regarding this question he requires. A Spray Calendar will also be sent upon request, which gives very briefly complete directions for treating all ordinary fungi and insects. All bulletins are free.

## Personal Attention

Will also be given to any Ontario farmer or fruit-grower requesting information. All are invited to write regarding their peculiar problems of this nature. Experts of the Department will give requests prompt attention. Each case will be considered and as exact information as possible will be forwarded.

In writing give complete details of your particular case and address all correspondence to the Office of the Commissioner, Ontario Department of Agriculture, Parliament Buildings, Toronto.

## TRACTORS

The Canada Food Board, Ottawa, has purchased 1,000 Fordson tractors for distribution among the farmers of Canada at cost price. They have asked the Provincial Department of Agriculture to co-operate with them in the distribution in the respective Provinces. In accordance with this arrangement this Department is now prepared to accept orders for these tractors for delivery in this Province. The price is \$750, f.o.b. Detroit, Mich., duty free. Deliveries begin under the contract on the 1st of April, and will continue thereafter as rapidly as possible in the order in which orders are received. Cheque must be forwarded with order, and should be made payable to the Ontario Department of Agriculture.



Codling Worm



Oyster Shell Scale



Apple Scab



Loose Smut--Barley



White Grub



Plum Curculio



Peach Leaf Curl  
Lowers Vitality of Tree



Late Blight of Potato



Potato Scab  
Destroys Crops for Market Purpose



Black Knot  
Has destroyed thousands of Plum and Cherry Trees



Army Worm  
Caused great damage in 1915



Cut Worm  
Destroys to Vegetables



San Jose Scale

SIR WM. H. HEARST,  
Minister of Agriculture

DR. G. C. CREELMAN,  
Commissioner of Agriculture

## Ontario Department of Agriculture

Parliament Buildings, Toronto