

# FRUIT GROWERS PLAN CAMPAIGN AGAINST SCAB

### League Plans Warfare to Eliminate Latest Orchard Pest—Life History of Disease—How Infection is Developed and Methods of Combatting and Elimination.

The pathological committee of the Farmers' and Fruitgrowers' league have existed to assist the county pathologist in giving publicity to articles which he will furnish and herewith submit the following on pear and apple scab, which the committee begs to state has received the endorsement of the best authorities on the subject in the state of Oregon. This article is strictly up to date and if the directions given are carefully followed, scab infection will be controlled, and as the threat to the industry is exceedingly serious at the present time the committee requests every orchardist to cut out this article and preserve it for reference and guidance.

#### Pear and Apple Scab

Scab on pear and apple is one of the worst pests in the Rogue River valley. If not kept under control, it will prove to be a very serious menace to the fruit industry, as has already been demonstrated during the past season.

It is important that every fruit grower be familiar with the life history of this disease in order that he may successfully combat it. Infection takes place from two distinct kinds of spores: (1) Those which develop during the spring and summer in spots on the leaves, fruit and sometimes twigs; (2) those which develop during the winter, inside the fallen leaves.

At this time of the year the summer spores or conidiospores may be found in the olive-green spots on leaves, fruit, and in some cases twigs. The spots produced by the early infection will usually appear cracked and corky, but will still have the spores around the edges. The spots produced by a later infection will appear smaller and will probably be entirely covered with spores. These summer spores, as a rule, do not live through the winter.

#### Development of Spores

Just below each spot, and extending under the surface of the leaf, will be found a mass of threadlike filaments which is called the mycelium. At about the time when the leaves fall this mycelium begins to grow throughout the whole inner tissue of the leaf. From this mycelium and between the two leaf surfaces, sport fruiting bodies begin to develop in late fall and early winter. They do not mature, however, until spring, when the blossom buds begin to come out.

The spore fruiting bodies are hollow, flask-shaped and appear from the outside like little black pimples, often so small as to be invisible to the naked eye. They have a small opening at the surface of the leaf, which is protected by spines that surround it. Inside the spore fruiting bodies there are many elongate, sack-like bodies called asci, each of which contains eight winter spores or ascospores. When these mature, they push out through the opening in the leaf surface and shoot out the spores which are carried by the wind and air currents into the trees. It is these winter spores that cause the first spring infection.

From the winter spores, then, the olive-green surface spots develop. These spots soon begin to produce large numbers of summer spores, which are blown to other parts of the trees and continue to cause new infection as long as conditions are favorable. Moist, damp, cloudy weather is especially favorable for the spread of scab.

#### Methods of Control

The first step should be taken against scab this fall is to plow under the fallen leaves and in this way prevent the winter spores from getting out on to the trees in the spring. A permanent cover crop grown in an infected orchard is a serious handicap in combatting the scab, inasmuch as it prevents the plowing under of the leaves.

In the spring, just about the time that the tips of the leaves begin to push through the buds, apply lime-sulphur at the rate of 1 gallon to 9 gallons of water plus blackleaf 40, 1 pint to 150 gallons of the spray, as a general clean-up-spray.

Just after the cluster buds have opened, while the leaves are still expanding and the blossom buds are still in a compact clump in the center, spray with lime-sulphur, 1 gallon to 20 gallons of water.

The next spray should be applied

as the blossom buds separate in the cluster, but before they have opened. This is known as the "pink spray," and is considered the most important spray for scab. Use lime-sulphur at the rate of 1 gallon to 30 of water.

Make another application in combination with the calyx spray for rodding moth, after most of the petals have fallen. Use either lime-sulphur at the rate of 1 gallon to 35 of the arsenate spray, or atomic sulfur at the rate of 12 pounds per 100 gallons of lead arsenate.

If the scab is very bad and the weather is favorable for its development, it is advisable to make still another application ten days to two weeks after the calyx spray, using either lime-sulphur at the rate of 1 gallon to 35 of water, or atomic sulfur at the rate of 12 pounds to 100 gallons of water.

In any case, where previous infection has been light, or where weather conditions prevent the application of the first spray on time as specified in these directions; then, in that case, the first spray may be omitted and the second spray applied as directed, with the addition of black leaf 40 at the rate of 1 pint to 150 gallons of the spray material.

Every grower should be prepared to spray at just the right time in order to get results. He should plan ahead and have his spray materials in readiness when the time for application comes.

L. G. GENTNER, Acting Pathologist, Jackson county.

## JAYHAWKER SIGNS AGAIN ON CROSSING

ern Pacific beat the council to any action by installing their own, before definite steps could be taken. The council at its next meeting will likely pass an ordinance prescribing the style of warning posts its wants, and let the S. P. and the Bulls line split the cost. The state railway commission ruled that the style of the protection be adjusted by the city and the railroad. The reappearance of the Jayhawker signs that are out of date on Arkansas cross roads caused disgust among the business men and effort.

Councilman Amy stated this morning that he was in favor of an ordinance regulating the whistling of trains within the city limits, particularly at the depot, upon the grounds "that there is more tooting in Medford than in the yards at Portland."

Example of how great the loss to New Orleans occasioned by the recent hurricane is shown by the banana situation, the boats from South America being unable to come in and unload resulted in all banana shipments coming in ripe. Medford received a car this morning, ripe, and all the grocers are giving the public benefit.

Hundreds of cars leave New Orleans weekly and this loss alone will be enormous.

## BARGAIN BANANAS OFFERED THE PUBLIC

Save Your Hair! Make It Thick, Wavy, Glossy and Beautiful at Once.

## YOU CAN'T FIND ANY DANDRUFF, AND HAIR STOPS COMING OUT

Try as you will, after an application of Danderine, you can not find a single trace of dandruff or falling hair and your scalp will not itch, but what will please you most, will be after a few week's use, when you see new hair, fine and downy at first—yes—but really new hair—growing all over the scalp.

A little Danderine immediately doubles the beauty of your hair. No difference how dull, faded, brittle and scraggy, just moisten a cloth with Danderine and carefully draw it through your hair, taking one small strand at a time. The effect is immediate and amazing—your hair will be light, fluffy and wavy, and have an appearance of abundance; an incomparable lustre, softness and luxuriance, the beauty and shimmer of true hair health.

Get a 25-cent bottle of Knowlton's Danderine from any drug store or toilet counter, and prove that your hair is as pretty and soft as any—that it has been neglected or injured by careless treatment. A 25-cent bottle will double the beauty of your hair.

## GEARY LECTURES ON FRUIT AUCTIONS NEXT SATURDAY

Arthur M. Geary, formerly of Medford, will arrive here Saturday morning to give his lecture upon the eastern fruit auction markets, scheduled for Saturday, October 16, at 2:30 o'clock that afternoon at public library.

It has been a little over two years since Mr. Geary left Medford to study law at Columbia university, New York City. While in New York he was in close contact with the fruit markets along Greenwich and Washington streets. During the spring after entering the employ of the American Fruit & Produce association, he made a study of the fruit markets of a number of the other large eastern cities.

During the summer Mr. Geary gave in all twenty-six lectures in the fruit-growing sections of Washington and Idaho. On one leg of his tour he spoke on fourteen successive nights traveling from Wenatchee through Spokane to Boise and back to Portland.

Mr. Geary was scheduled to give his Medford lecture early in September, but postponed it in order to find time in which to prepare for the bar entrance examinations, which have recently been held in Salem.

The lecture is illustrated by 100 slides, showing market conditions in a dozen eastern cities. It is free to all those interested in the marketing of fruit.

LONDON, Oct. 13.—The American can bill which was sanctioned yesterday by the house of commons, passed through all its stages in the course of lords today, and immediately thereafter received the royal assent.

## PLAN FOR CITY TO ASSUME HALF OF PAVING DEBT

The first steps in the remodeling of the Miles' bonding plan was taken at the first meeting of the bonding committee held Tuesday evening in the office of Judge W. S. Crowell. It was agreed that the paving indebtedness should be paid upon the 50 percent basis—an equal amount by the city, and an equal amount by the property owners, irrespective of location.

From the 50-50 basis the committee will work out the problems of delinquencies, those unable to pay, and other details. Tonight the committee will meet with the four councilmen favoring the Miles plan, and Thursday night will meet with the full council for the finishing touches. The entire committee composed of Judge W. S. Crowell, chairman, Geo. Treichler, Attorney W. E. Phipps, Dr. E. B. Pickett, and H. U. Lumsden, were in attendance.

In the matter of the recall petitions there were no new developments today. The next meeting of the council promises to be an exciting session, as the supporters of the Medynski scheme, battling for the right to have his ideas submitted to a vote without competition of the Miles' plan, will likely hold the threat of the recall over the heads of the councilmen.

#### Slides Close Panama Canal

NEW YORK, Oct. 13.—The governor of the Panama Canal zone, because of the continued slides in the canal, has notified Panama Railroad company officials here to announce to shipping interests that he does not advise sailings by the Panama route until further notice, which will be promptly given as soon as conditions permit.



### "Never Mind the Rain, Son"

The germ-proof, dust-proof, moisture-proof wax-sealed wrapping keeps the

## New Post Toasties

in perfect condition.

But more important—these flakes are made by a new process that gives them a new form and a distinctive flavor, entirely different from other corn flakes.

In this new process, intense heat expands the interior moisture, producing little pearl-like "puffs," a distinguishing characteristic of the New Post Toasties.

These flakes have a body and firmness that don't mush down, even when cream or milk is added. Toasties come factory-fresh, as crisp and delicious as when they leave the big ovens.

### Try Them and Note the New Flavour

Your grocer has them now.

**MAIL ORDERS FILLED PROMPTLY. SEND FOR SAMPLES**

## Mann's Anniversary Sale

The Woman's Store

### Last Day of This Sale - - - Don't Miss the Bargains



### Sensational Sale of Winter Coats

300 Women's New Style Coats go on sale Thursday at wonderful low prices.

<p>Women's Winter Coats, made of many materials, all sizes, real \$10.00 values, this sale..... <b>\$5.98</b></p> <p>Women's Corduroy Coats, in brown, navy, green and black, worth \$12, sale, ea..... <b>\$6.98</b></p> <p>Children's Corduroy Coats, all colors, sizes 2 to 6 years, at..... <b>\$2.98</b></p>	<p>Women's Plush Coats, new style, well made, cheap at \$20, this sale..... <b>\$14.98</b></p> <p>Women's Heavy Winter Coats, made of fancy mixtures, with large fur collar, worth \$20, now..... <b>\$14.98</b></p> <p>Children's Heavy Winter Coats, sizes 6 to 14 years, very special, <b>\$4.98</b></p>
---	---

#### PETTICOATS

50 Near-Silk Petticoats, wide widths, in all colors and lengths, values up to \$1.50, this sale, **98c** each

#### HAND BAGS

All leather, new styles, fitted with mirror and pocketbook, worth \$1.50, sale, ea. **98c**

#### BLANKETS

Heavy Cotton Blankets, good size, cheap at \$1.25, this sale only, **98c** pair

#### UMBRELLAS

Steel rod, paragon frame, rainproof, good style handles, well worth \$1.25, this sale only, **98c** each

#### BED SPREADS

Full size, heavy weight, good patterns, cheap at \$1.25, for this sale **98c** only, each

#### Glove Sale

Women's Cape Kid Gloves, all sizes, \$1.25 grade, pair..... **89c**

Women's Washable Chamoisette Gloves, all colors, special, **50c** pair

Women's Reindeer Gloves, washable, special, **\$1** pair

#### New Dress Goods and Silks

<p>New Plaid Silk for waists, special, yard..... <b>98c</b></p> <p>Crepe de Chene, 40 inches wide, all colors, \$1.50 grade, now, yd..... <b>\$1.19</b></p>	<p>38 in. All Wool Serge, worth today 75c, special at, per yard..... <b>48c</b></p> <p>42-inch Fancy Dress Goods, up to \$1.50 values, now, yard..... <b>98c</b></p>	<p>New Coatings, 54 in. wide, worth \$2.50, very special, <b>\$1.75</b> yard,</p> <p>27-inch Corduroy, heavy quality, special, yd..... <b>98c</b></p>
---	--	---

**NEW OSTRICH RUFFS AT \$1.75 EACH**

