

BIG MEETINGS HELD

Spraying Demonstrations Attended by Many Fruitgrowers

WALTER BROWN IN ATTENDANCE

In a Brief Talk Mr. Brown Advises the Fruit-growers Regarding Best Kind of Spray for Fighting Brown Rot

Many complaints having come in to the college in previous years concerning the destruction of stone fruits, especially the prune, by the disease called brown rot, it was thought best by the Horticultural Department of the Extension Service to obtain two orchards of prune trees in the vicinity of Roseburg for demonstration purposes. The blocks of trees chosen for this work were located in the orchards of L. B. Skinner and Sons and Dr. George A. Bradburn, both of Winstons. Each lot contained something over two acres of prune trees in full bearing. The object of the demonstration was the control of brown rot in ways suited to orchard practice. Although this has not been a year of heavy brown rot infection, still the comparative results between sprayed and unsprayed trees have been gratifying.

At a meeting of fruitgrowers which was held in the orchard of L. B. Skinner and Sons at 10 o'clock on Saturday morning, September 16, Professor W. S. Brown, field horticulturist from the College of Agriculture, was in charge. Mr. Brown has had the supervision of these demonstrations during the summer and has been ably assisted by the county fruit inspector, Fred L. Strang, together with the owners of the orchard tracts sprayed. At the meeting Mr. Brown gave a short talk in which he outlined the purpose of the demonstration, then took up the nature of the disease, together with the means of its control. He explained to the growers that brown rot is a fungus disease, spread by means of two kinds of spores or fruiting bodies. The first kind of spores are summer spores, and these spread the trouble during the summer, from branch to branch in the trees, either by being washed from one prune to the other by the rain or by being blown about in dry weather, and subsequently germinating when the rains come on. The second class of spores are called the holdover spores. These holdover spores are borne on little toadstools which come up through the ground, growing from old mummified prunes that have been buried in the ground. The mummified prunes which fell to the ground in the fall of 1915 will send up a crop of these toadstools in the spring of 1917, so that simply because there is a light infection of brown rot this year, there is no reason to expect that it will not be heavy next year. In fact, as the infection of 1915 was quite severe, there is every reason to suppose that there will be many toadstools coming up through the ground next spring. This spring when the first demonstrations were made in the orchard of L. B. Skinner and Sons, thousands of toadstools were thru the ground ready to send out their spores at blossoming time.

Mr. Brown mentioned two general ways of controlling the disease, first, through such orchard practices as early plowing, so as to destroy the little toadstools before they have a chance to send out their spores. Another good orchard practice is to shake off all mummified fruits in the fall, and burn in heaps. The heaps like the rotted fruit and the seeds as well, and will make a very thorough job of cleaning up the mummies. In the second place spraying can be used to control brown rot. A spray must be used which is a recognized fungicide. The ordinary sprays for this purpose are Bordeaux mixture, and lime and sulphur. The Bordeaux is usually put on at a strength of 4-4-50, while the lime sulphur is applied at a strength of 1 to 50. For spraying late in the season, when berries are of good size, a resin-ice-fishoil sticker may be used to great advantage, with the Bordeaux mixture. This, however, should not be used when arsenate of lead is present, or with the lime sulphur mixture. Another important feature of spraying is timeliness. To be effective, these sprays must be put on at the proper time.

Four sprays were given the demonstration orchard, except the check trees, which were left unsprayed. These trees were sprayed with Bordeaux first just as the buds were white and about to open; the second time just a month later, when the blossoms had fallen and the shoots were off the young prunes; third time, just two weeks after the second spray. The fourth and last spray was given about one month before picking time. The exact time for spraying will differ a little from year to year and will depend upon the weather conditions. However, the proper spray will be applied at the proper time and still not have successful control unless the work has been done in a very thorough way. This is why in any other phase of the spraying game. They think they are thorough, but they really do not cover the fruit as they should. In spraying prunes successfully it is absolutely necessary that there be an elbow near the

nozzle so that the nozzle may be turned at different angles while in the tree and that the spray may be directed from the inside of the tree so as to get underneath the flat prune leaves. In this way the fruit that often hangs in heavy clusters can be protected.

Now, as to results obtained in the Skinner and Bradford orchards. It was found by an actual count of the brown rotted prunes on trees that had been sprayed compared with others in the check plots that had not been sprayed, that in the Skinner orchard there were over six times as many brown rotted prunes on the check plot trees as there were on the sprayed trees; and in the Bradburn orchard the ratio was something like one to thirty or thirty five. This means that in the Bradburn orchard the prunes were almost absolutely free from brown rot in the section which had been thoroughly sprayed.

The cost of spraying the Skinner orchard, including material and labor, amounted to about \$30 an acre, for four sprayings. It must be borne in mind, however, that the copper sulfate or bluestone is used in the making of Bordeaux mixture, and is very much higher than ordinary this year on account of the war. With the usual price of bluestone this spraying could have been done at about half the cost.

Next year these spraying demonstrations may be repeated in some of the prune orchards in the vicinity of Roseburg. While in case of a light infection of brown rot, the cost of spraying may not seem to be warranted, if the infection is heavy, this spraying may mean the difference between a good crop with good profits and no crop at all.

Cared Her Children of Colds.

"During the past winter I had occasion to give Chamberlain's Cough Remedy to my two children, who were at the time suffering from severe colds. It proved to be the very medicine they needed," writes Mrs. Myron J. Pickard, Memphis, N. Y. Obtainable everywhere.

SMITH RIVER NEWS.

J. O. Gunter made a trip to Roseburg one day last week to attend to business matters.

Everett Wright expects to attend the dance near Drain next Saturday evening.

E. J. Harris and sons went to drain the first of the week where they will haul several loads of straw.

Mrs. Clara Wright, who has been in the sick list the past week, is no longer so ill.

Will Traylor is busy this week putting in some fall grain. Arthur Woolley will help him.

So far as can be learned at the present time, J. T. Redford, the candidate for Representative, will carry the Gunter precinct to a vote. Mr. Redford has the respect and confidence of the people irrespective of their political belief. We wish him success next November.

Mr. and Mrs. J. O. Gunter and three small children, accompanied by their daughter and her husband, Mr. and Mrs. Fred Clark, spent the day talking with the former's son, Paul, and other friends in the upper section last Sunday.

Mrs. Polly (Clevenger) Coffey arrived on last Tuesday's stage for an indefinite stay with her parents, Mr. and Mrs. John Clevenger, of this place. She may remain her husband shortly in Pasadena, Calif., where he is at work on a streetcar line.

Sunday school was organized in the upper district last Sunday. There was quite a good attendance and good interest. Miss Millikin was selected teacher of the Bible class and Mrs. Emma Harris and Mrs. May Woolley as teachers of the primary class.

We wish to correct a mistake in last week's items where we stated Mr. Elson had moved his family in from Roseburg. We find we were misinformed, as the family will not arrive until later, probably some time next week. Mr. Warner has been hauling in household goods for them, however, bringing a load last Monday, and will go for another load Wednesday. Mr. Elson has shipped down about 4,200 pounds of household goods to Drain, which is being brought in as rapidly as possible.

YONCALLA NOTES.

Dr. Knott, of Glendale, spent Tuesday night visiting Dr. and Mrs. McCall, of Yoncalla. Mrs. McCall accompanied the Dr. on his return home for a visit with friends in Glendale.

Mr. and Mrs. L. A. Hays entertained Tuesday evening in honor of Dr. Knott, of Glendale.

The Farmers Security Bank of Yoncalla, by their statement, shows conservative banking with business growing rapidly.

"Homes" class, S. P. agent at Yoncalla, expects to leave shortly for his vacation.

Work on the new Yoncalla high school is rapidly nearing completion and will be ready for the opening of the fall term.

Harry Brown and family, of Hood River, returned to their home this week after a few days spent at the home of Mrs. Brown's parents, at Yoncalla.

N. Y. Z.

Rid Your Child of Worms.

Thousands of children have worms that sap their vitality and make them listless and irritable. Kickapoo Worm Killer kills and removes the worms and has a tonic effect on the system. Does your child eat spasmodically? Try out in sleep or grind its teeth? These are symptoms of worms and you should find relief for them at once. Kickapoo Worm Killer is a pleasant remedy. At your Druggist, 25c.

WEALTH NOT WANTED

To Much Money Is Handicap to Average College Student

JOY RIDES NOT A NECESSITY

President of Stanford University Advises Parents of the Students to Discourage Extravagance—Energy Needed

PALO ALTO, Calif., Sept. 21.—Wealth is a handicap to the college student and the poor boy has the advantages, according to Dr. Ray Lyman Wilbur, president of Leland Stanford University, in a statement today.

As a consequence of this belief Dr. Wilbur decreed that beginning this year autos may not be owned by students; that the frequent dances, the purchase of expensive flowers for co-eds and similar luxuries will be banned.

Dr. Wilbur is so convinced he is right about this that he has sent a circular letter to students' parents saying students with too much money are not desired at the school; if they are inclined to spend their time in the pursuit of pleasure.

The letter urges parents to refrain from too liberal allowances and warns them that as the number of entrants this year is limited, those students who fail to show they are being honest work will not be permitted to remain.

Stanford does not particularly seek poor boys and discourage the entrance of the wealthy, Dr. Wilbur explains, but experience has shown that the poor boy has, on the whole, made a better record, both as a student and afterwards. His appeal,



In "The Eternal Grains," at the Antlers tonight and tomorrow night.

Dr. Wilbur says, is an endeavor to save the wealthy lad from his own particular dangers.

"It takes time to run an automobile and it often leads to life of the campus, to extravagance and much foolishness," says the letter, adding: "There is plenty to do in the way of variety right at the university, with its swimming pools, athletic fields, gymnasiums, beautiful walks and the like. There is no need to go to San Francisco more than once or twice a semester and this trip can be conveniently and cheaply made by train. There is no need to supply money for orchids, for dance parties or for taxi hire.

"The students who cannot be content to lead the clean, simple, industrious life expected on the Stanford campus should go elsewhere. If you do not feel our idea of self government is right and if you do not feel that it expresses the right attitude toward alcohol, hazing, self control, payment of debts and things of that sort, it would be better to keep your son or daughter at home, or send them elsewhere. It will save them the trouble that is almost sure to come sometime in a four year course and will give the university more time to develop those who have the disposition to conform.

If you have something to sell or rent try an Adv. in The Review.

NOT MANY GOING.

Although quite well advertised, it is not believed Douglas County will send as many people to the state fair this year as previously. This situation can probably be attributed to the fact that the fair is being conducted on a strictly partisan basis, and is being governed by politics rather than by business methods. Last year there were more than 100 persons from Douglas County present at the state fair, while this year the number will probably not exceed 50.

Review Want Ads. bring results.

The dull throbs of neuralgia is quickly relieved by Sloan's Liniment, the universal remedy for pain. Easy to apply; it quickly penetrates without rubbing and soothes the sore muscles. Cleaner and more promptly effective than musky plasters or ointment; does not stain the skin or clog the pores. For stiff muscles, chronic rheumatism, gout, lumbago, sprains and strains it gives quick relief. Sloan's Liniment reduces the pain and inflammation in insect bites, bruises, bumps and other minor injuries to children. Get a bottle today at your Druggist, 25c.

How To Cure Your Sick Stock

You can treat most diseases, prevent sickness of your animals, by using Zenoleum as per directions on the can. The best veterinarians, the biggest breeders, 50 Agricultural Colleges use and recommend Zenoleum. It's the most powerful coal-tar disinfectant and germicide known. Its results are simply wonderful. Safe to use—harmless to stock and you, Won't burn—will make good every time.

Treat mange, wounds, sores, scab, cuts, galls, calf cholera, ring-worm in cattle, hogs, sheep and exterminate lice, fleas, ticks with Zenoleum. For poultry, better, safer, cheaper than home-made mixtures. Send a dollar for can of Zenoleum, postpaid. Makes 50 gallons positive disinfectant. Quarts can 50c postpaid—gallon \$1.50. Money back if it does not do all you want. Free-Zenoleum Veterinary Advertiser. Information worth dollars to you.

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Have Them Fitted by
A. S. HUEY, OPTOMETRIST

Quick Profits Count

When you buy a sack of flour here and save from 10c to 30c it counts. You can save in the same proportion on every thing in the

GROCERY LINE

Buy Your Fall Supply Now and You'll Save Considerable
No bad debts if you trade with us.

THE CASH STORE

The Year Ahead?

When "Little Willie" starts to School, how about the clothes he'll wear? From hat to shoe, he'll need things new—what will you do?

Patronize the stores that Advertise.

When winter comes with rain and sleet, you'll need new shoes on both your feet; likewise some food and fuel too—what will you do?

Patronize the stores that Advertise.

When you have something that's good, Advertise it as you should, remember people do not know, unless you make some kind of show.

Patronize The Stores That

Advertise!!



Like a snack before bedtime —they satisfy!

When you "rob the ice box," you know how you relish that last "bite" before bedtime—it does satisfy! When you smoke, Chesterfields do exactly the same thing—they satisfy!

Yet, Chesterfields are mild! This is something entirely new to cigarettes—this combination of mildness with "satisfy!" It hasn't been done before.

This new kind of enjoyment comes to you only in Chesterfields—because no other cigarette maker can copy the Chesterfield blend!

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They SATISFY!
—and yet they're MILD

The Chesterfield Blend contains the most famous Turkish tobaccos —SAMSOUL for richness, CAVALLA for aroma, SMYRNA for sweetness, XANTHIL for fragrance, combined with the best domestic leaf.

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