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### DEMONSTRATION OF BROWN ROT SPRAY

(Continued from page 1.)

which come up through the ground, growing from old mummied prunes that have been buried in the ground. The mummied 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 through 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 mummied fruits in the fall, and turn in hogs. The hogs 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 sulfur. Bordeaux is usually put on at a strength of 4-4-50, while lime-sulfur is applied at a strength of 1 to 50. For spraying late in the season, when prunes are of good size, a resin-lye-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-sulfur mixture. Another important feature of spraying is timeliness. To be effective, these sprays must be put on at the proper time.

Four sprayings 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 shucks were off the young prunes; the third time, just two weeks after the second spray; and the fourth and last spray was given about one month before picking time. The exact time for spraying was noted in 1916 from year to year and will depend upon the weather conditions. However, the proper spray may 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 where more fruit growers fall down than 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 Bradburn 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 30 or 35. 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 materials and labor, amounted to about \$30.00 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 prices 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 infect 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.

Walter Hercher, of Dillard, was in city today for a short time, looking after business affairs.

### BRITISH SOLDIER ON FRISKY MOUNT



Here is a British soldier. But he isn't a native of the British Isles and he isn't fighting in France. Photo taken in Egypt shows the dusky fighting man teaching his camel to jump.

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