

would permit I could tell you something of my experience at home, but I hardly feel like taking up time when there are other papers on the programmes. I purpose giving my experience in spraying peaches in an article in the *Horticulturist*.

Mr. COLE (St. Catharines): There has been nothing said here to-day about the spraying of grapes. We all agree with Mr. Orr that it is very essential for fruit growers to spray their orchards. About six or seven years ago my vineyard—about 50 or 60 ton vineyard—was badly injured with black rot, something new to us in this section of the country; but we were advised to spray, and we did so next year with a great deal of benefit. My vineyard was hurt so badly that it took a great deal of time to repair it for the market, and then my crops were not in a very good condition; but I sprayed thoroughly that season, and out of 54 tons I am satisfied I did not have 500 pounds of culls, and I attribute the whole thing to the spraying. Since that we spray our vineyards thoroughly, which we feel it is a necessity to do in this vicinity in order that we may get first-class crops. It is as essential to spray our vineyards as it is apples.

Mr. ORR: The instructions for spraying apple trees apply to all other fruits. The necessity of spraying apples particularly is because we go over the whole Province, in sections where they have never seen the work done. You spray pear, peach, vineyards exactly in the same way and with the same material as apples. I will tell you what I did with my peach trees. I had heard that experimenters were spraying with a preparation of lime in the fall and winter to keep the buds back in the spring. They calculated by having the trees white that it would not attract the sun, and delay the blooming period a week or ten days. Last December I sprayed my peach trees thoroughly with preparation of lime alone, and in February and March they looked as white as snow. In the latter part of April and May, we sprayed the same trees with Bordeaux mixture. We just sprayed 100 trees with lime, and in the spring we sprayed all the orchard. The Bordeaux mixture I think was too strong for the narrow leaves or willow leaf peaches; after the spring came in they dropped the foliage and the crop, but all the rest of my peaches bore a good crop. I think when the trees were dormant that the Bordeaux mixture the regular strength did not injure them, but after the growth commenced I think it injured the wood so that they dropped their foliage. However, they got a new foliage and had a good crop of foliage later on, but they dropped their fruit. That was simply a few narrow leaf varieties. Where the broad leaf varieties took the material there was no harm done. I do not know of any peaches grown apart from what I had, and I attribute it all to spraying, preventing curling of the leaf which in my own case took the last leaf off the trees that were not sprayed.

A DELEGATE: What about the effects of the lime?

Mr. ORR: I was away from home, and I cannot tell you accurately as to that. Where they have been testing it for two years they claim they can hold buds back for a week or ten days.

Mr. PATTISON: Do you use any Paris green on peaches?

Mr. ORR: No.

Mr. PATTISON: What strength do you use if for plums?

Mr. ORR: I use the regular Bordeaux mixture, adding 4 ounces of Paris green to each 40 gallons of water for plums.

Mr. CASTON: There is one difficulty I have known in spraying with Paris green; if you stop with half a barrel of mixture and go to dinner, that Paris green goes to the bottom and I do not think there is an agitator made that would bring it up again if you do not use something else besides the agitator; and then when you come near the bottom you will have a very strong mixture. I would like to know Mr. Orr's experience as to that. When the Paris green mixes with the lime in the pump it forms a mass that you cannot get at with any ordinary agitator.

Mr. ORR: We never allow our appetites to drive us away with half a barrel of spraying (laughter); but if such a thing should happen I would not take the slightest hesitation in going right on with the agitators.

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