

Mr. ALLAN : I have tried for years to find out, but I cannot find any further difference between them than I can find between two plums taken off one tree. You will find differences in different soils in the same plums.

Mr. M. PETTIT : My experience is only of one year, and I do not know that it would be of any benefit. I thought this year spraying had been a great benefit, but possibly it might have been from some other cause. Where I used it was on Lombard plums that had rotted very badly the previous season. This year they commenced again when they were quite small—the size of a bean ; great blotches commenced to appear the same as they did before ; and I sprayed with sulphate of copper. I used two ounces of sulphate of copper in a forty gallon barrel, and left about six days between the sprayings, and this—or some other cause—entirely stopped it, and the plums were quite clean in comparison with the previous year.

The SECRETARY : I have been experimenting with these fungicides with a good deal of success. My plum orchard is too small to give me much experience with plums, but I think I can see an advantage in treating plum rot with copper. Mr. Blanchard, who has been conducting the experiments for me, is here and may have something to say.

Mr. BLANCHARD (foreman for Mr. Woolverton, the Secretary, Grimsby) : I have been treating a plum tree that was especially bad with the rot—a McLaughlin. For two years I have been trying the carbonate of copper. This tree is standing right alongside a spruce and it is growing partly into it ; and I think that is one thing that makes it rot more than others—because the spruce keeps it damp and wet, especially in cool weather. I sprayed it three times for two years now, and I find it completely prevents the rot and the tree bears every year a big heavy crop. Though this year has been especially bad for plum rot, I found the carbonate stop it suddenly. I use three ounces to 25 gallons ; this was the powder in connection with Paris green.

Mr. ALLAN : When do you apply it first ?

Mr. BLANCHARD : Just at the time when you spray for curculio. I find when they are grown to that size they rot the worst.

Mr. ALLAN : Did you ever try using the solution before the leaves appear at all ?

Mr. BLANCHARD : No.

Mr. CLINE : I have tried that.

Mr. ALLAN : Did you decide that there was benefit in doing so ?

Mr. CLINE : I only tried it one season. I sprayed it twice before the trees leafed out and also used the carbonate in suspension with Paris green, and also sulphur ; I had no rot that year, I also picked all the rotten plums off the trees ; and I would advise every person to clean the ground of every rotten plum they can find, and burn them.

Mr. ALLAN : There is no doubt benefit to be gained by using the solution at least once before the leaves appear at all.

Mr. CLINE : I think so.

The SECRETARY : I think Mr. Allan has struck a very important point, that our efforts to stop the plum rot must be by prevention, and that we want to begin in advance. We usually wait till we see the rot and the mildew appearing before we take any measures to treat them ; and then it may be too late. In using the Bordeaux mixture in the vineyard I have had almost complete success in preventing mildew.

Mr. PATTISON : Does not Mr. Cline find a great difference in the plum rot according to the soil the plum is grown on ? I have a plum orchard on a heavy clay soil, but I have had no rot whatever, I think Mr. Cline told me that those of his trees that are on heavy clay do not suffer from rot.

Mr. CLINE : Yes, that is true ; I find that the lighter and moister the soil, the plums seem to take the rot the more readily than they do on the heavier clays. Plums do not grow so large on those heavier clay soils. I have a small orchard that has been planted some twenty-five years, and there is very little if any rot in it ; although within less than

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