

had over his neighbors. Mr. Brodie has carefully sprayed his orchard for several years. His trees are in a far healthier condition than his neighbor's, and this year he tells me he produced 1,500 barrels of apples. Now, I saw the trees of his neighbor, and I saw there was scarcely any fruit on them, and Mr. Brodie tells me that they were none of them worth picking; in fact the man had nothing in his orchard. I think this example alone will show fruit growers how important it is to spray their trees thoroughly.

Mr. PATTISON: Some years ago, having some leisure about the 13th August, and noticing that the codling moth, the second brood, was working badly, I took the trouble to thoroughly spray the orchard with Paris green at that date. I am sorry to say that I found as far as I could see that it did no good whatever. I could not ascertain that I had benefitted in the slightest degree from it, and I am afraid that spraying at that time of year we do not seem to get at the insect sufficiently to do it any serious damage.

Mr. HUGGARD: I have a small orchard, about 80 apple trees, that I have sprayed some six or seven years. These last two seasons our first spraying was before the buds came out, and I consider is as important a spraying as there is the whole year for the black spots. Out of 130 barrels that we just shipped recently we did not have one bushel of wormy apples. I attribute the whole thing to careful and intelligent spraying at the right time.

Mr. TWEDDLE: I had some experience this year as well as years before in spraying, not only in my own orchard but in that of other parties, and I must agree with Mr. Orr that it was of a great deal of value. I was so unfortunate that I had to take to the road in selling spraying pumps. In my work I had a great deal of opposition from people whom I tried to sell to, and it occurred to me that I would try to take some means of convincing them from a financial standpoint that these things could be accomplished; so I arranged with a neighbor to spray his orchard and pick the crop for one-half. He thought it was a good idea; as he said "If you do not make anything I will not have to pay you, and it won't cost me much; if you make anything I will make something." So he told me if I would spray his summer apples, Astrachan and Duchess, for nothing, give them a couple of applications, he would give me one-half of the balance. The orchard consisted of two parts of 10 acres each, both the same aged trees, about the same cultivation and the same kind of soil and everything alike as near as I could tell. The trees were not pruned sufficiently, or as thoroughly as I would have done. The arrangement was made about the 7th May, and I sent a rig down to work right away; we put on what we could. Some of the trees bloomed before we got over it. In all we gave it four applications; the last one was about the last of July. I think we finished on the 30th July, and when we picked the apples some of them had the Bordeaux mixture on them. We used more Paris green and lime; we used six ounces of Paris green, forty gallons of water, and six lbs. of lime. When I finished on the 30th July the apples on both orchards, as far as size was concerned, seemed about alike, and in one orchard there seemed to be about as much crop as the other. I never went back to the orchard till about the middle of September, and I went into the nearest one first, and I was surprised to see the amount of fruit and the size and condition of them. I said to myself, "Why, here is a bonanza for me as well as for the owner," and I felt very well pleased. When I went over to the other orchard, where I expected to see three times as much fruit, I was very much disappointed in the quality and condition both in the variety and fruit. I could not understand; I sprayed both orchards alike, and they looked to me just alike as near as I could tell, and cultivated alike; but I found that the first orchard had been quite well manured with ashes and some barnyard manure, while the other had been pretty badly neglected in that way. From that orchard—and it was the off year—I took about 225 or 250 barrels, and the other orchard, instead of having three times as many, there were only 150 barrels of first-class fruit—hardly first-class; we called it XX No. 1 and the other XXX. In the orchard which was not manured we took off about two carloads of peaches and one carload of Duchess, and one carload of the other, in all about forty-six tons. In the other orchard we took off about 480 barrels. That does not seem a large number of No. 1 fruit, but the unmanured orchard rendered a very small proportion of saleable apples; there is where we had the loss. I may safely say

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