

In the table, Spray 1 refers to that applied when the leaves were the size of a ten cent piece, Spray 2 immediately before the blossoms, Spray 3 immediately after the blossoms, and Spray 4 and 5 ten and twenty days after.

The two highest lots, it will be noticed, were sprayed twice before and three times after the blossoms, with a Drive nozzle in both cases. The next two lots were sprayed once before and three times after the blossoms, the four lots receiving the fifth spray coming at the top of the list—showing up the importance of the fifth spray in 1915. Of the three lots sprayed twice before and twice after the blossoms, the one sprayed with the Drive nozzle leads; and in the next lot to it the fruit was thinned on the trees. Of the lots sprayed once before and twice after the blossoms, the two top ones were sprayed with a Drive nozzle. Others of these lots were sprayed with the Drive nozzle, but in each case there was some defect in time or thoroughness of application, which modified the results. The lots at the bottom of the list speak for themselves and show that one or two sprays—and those perhaps not thoroughly applied—are very little better than no spray in giving quality to the fruit, although Spray 2 and 3 will give enough benefit in insect control to increase the crop by about 80 per cent.

The best sprayed lot averaged \$2.08 per barrel through the Fruit Company, while the best unsprayed lot, No. 18, averaged \$1.43 per barrel through the same company. The best lot was grown in a very close planted, thick orchard, while lot No. 18, the best unsprayed lot, was grown on open, scattered trees, giving it every advantage.

It cost a trifle less than 15 cents per barrel to spray five times the best lot which packed out 68 per cent. Nos. 1 and 2; and from this and other evidence it is apparent that the average cost of spraying once for one barrel of apples this year, at the price at which spray material was purchased through the Fruit Companies, was about 3 cents per barrel.

In the column marked "Profit per barrel over cost of spray", No. 18, the best unsprayed lot of Gravensteins seen this year, was used as a basis. The returns averaged \$1.43 per barrel. In the remainder of the column we have reckoned up the average selling price of each lot on company prices, and have subtracted the cost of spraying and the price obtained for lot No. 18, the best unsprayed lot, and the remainder stands as clear profit attributable only to spraying. This profit does not take into consideration the increased quantity of fruit, which amounts to some 80 per cent., but the increased quality only. Examination of this column shows that even though the cost of spraying has been all charged against quality, the profit from quality is still greatest where the most spray material was used, and least where the least spray was used. Only one exception is found to this—that in lot 8 and 9, which goes to show that three sprays with a Drive nozzle bring the grower more than his neighbour who applies four sprays with a Mist nozzle. In lots 14, 16, 17 and 19 there are glaring factors which show why good results were not obtained. This profits column is decidedly interesting and shows that if a man desires to secure profits he must spray thoroughly. Those who half spray, such as Nos. 13, 14, 15, 16, 17 and 19, do not get the most profitable returns.

A sheet similar to this, but with the owners' names attached, is posted in the Round Hill warehouse, following the plan of last year. This plan has resulted in the Round Hill Company's lot of fruit being one of the best lots in the Valley this season. It gives each man a chance to compare his own with his neighbour's spraying and his actual results, for, after all, the packing table is where we get the final impartial record of the results of our work. The posting of the sheets of the Gravenstein pack-out in every warehouse will, without doubt, instil a competitive spirit into the spraying of next year, and cause more thorough spraying to be done. We would heartily recommend the general adoption of such a plan.