

in the plots receiving spray 2 and 3 together they averaged 22.1 per 100 buds, or the number of Bud-moths was reduced by 60.75 per cent.

The infestation of Fruit Worms at the end of the first season in the checks (unsprayed) was 12.44 injured apples per 100 picked, while in the plots receiving spray 2 and 3 together there were 4.33 injured apples per 100 picked, or the injury by Fruit Worms was reduced by 65.19 per cent. The second season, with a much lighter infestation throughout the orchard, the benefit was 63.56 per cent. reduction in Fruit Worm injury.

The Codling Moth infested 4.54 per cent. of the apples in the checks in 1913. It was found that spray 2 gave 71.3 per cent. reduction in injury. Spray 3 gave 89.2 per cent. reduction, and spray 4 gave 65.6 per cent. reduction. From the fact that the Codling Moth is, as a rule, an insect of minor importance in Nova Scotia, and that it is largely controlled by sprays other than the regular Codling Moth spray, the Nova Scotia apple growers are free to advance or retard by two or three days the first spray after the blossoms, as may be advantageous to them in controlling any other pest, with practically no reduction in benefit to Codling Moth.

The injury done by the three insects under observation was divided into two classes; the first, reduction in the set of fruit, and the second, injury to the picked fruit.

Effect of Bud-moth in Reducing Set

In the Experimental orchard 59.56 per cent. of the blossom buds in the checks contained Bud-moth. Counts of 1000 blossom clusters infested with Bud-moth showed 305 apples set, while 1000 blossom clusters free from Bud-moth on the same trees set 1205 apples. In other words, the reduction in set in the blossoms infested is 75 per cent., or in the checks where the infestation was 59.56 per cent. the reduction in set was approximately 45 per cent. By the use of spray 2 and 3 we reduced the number of Bud-moths by 60.75 per cent., so instead of growing 55 apples where 100 would have set if no Bud-moth had been present, we increased the set to 82, or an increase in set of 49.09 per cent.