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our orchardists are well aware that spraying trees with the usual poisonous mixtures while in blossom is not only injurious to the blossoms themselves by destroying the pollen, but also poisons the bees which visit them, thus defeating the object every orchardist should keep in view—the cross-fertilisation of the blossoms. In a number of the American states there are laws against doing so.

Fortunately, the ignorant prejudice against bees common some years ago amongst viticulturists and other fruitgrowers is fast dying out. It was believed at one time in America that bees punctured and destroyed grapes and other delicate fruits, and, notwithstanding that the results of exhaustive experiments tonclusively proved the contrary, it took a long time to convince them they were wrong. Bees cannot puncture sound grapes, but during a dearth of honey they will suck the juice from ripe grapes and other fruits after they have been punctured by some other animal, or have burst through over-ripeness. grapes smeared with honey have been put into a hive containing a starving conony of bees; the honey has quickly vanished, but not a grape has been in-Bunches of ripe grapes have been left in four or five hives at a time, directly in contact with the bees, and after three weeks every grape was perfectly intact, but glued to the combs.

I could go on quoting the opinions of many other able authorities in the same strain, but enough has been said to convince orchardists, if it were needed, that it is vital to their interests either to keep bees or to see that there are plenty in the neighborhood of their orchards. It remains only for me to say to those who wish to follow up their investigations on this subject, I would recommend them to read the works of Darwin, Mulled, Lord leagh (Sir John Lubbock, and Cheshire.

I would point out that in New Zeaand we have not the number of fertilising insects there are in Europe or America, consequently we are even more dependent on the hive-bees than are orchardists in those quarters of the globe. I think I am correct in saying there are practically no other insects but the hive-bees about in New Zealand when fruit-trees are in blossom. Finally, as a summary, I will quote the conclusions of Herman Muller on the comparative value of bees as fertilisers. He says in his great work on "The Fertilisation of Flowers,"—

"Bees, which not only feed on the produce of flowers, but nourish their young also thereon, are in such intimate and lifelong relations with flowers that they show more adaptation to a floral diet, and are more important for the fertilization of our flowers, and have, therefore, led to more adaptive modifications in these flowers, than all the foregoing orders (of insects) put together.

Bees, as the most skillful and diligent visitors, have played the chief part in the evolution of flowers; we owe to them the most numerous, the most varied, and specialised forms. Flowers adapted to bees probably surpass all others together in variety of color. The most specialised, and especially the gregarious, bees have produced great differentiations in color, which enable them on their journeys to keep to a single species of flower. While those flowers which are fitted for a miscellaneous lot of short-lipped insects usually exhibit similar colors (especially white or yellow) over a range of several allied species, the most closely allied species, growing in the same locality, when adapted for bees, are usually of different colors, and can thereby be recognised at a glance (e. g., Trifolium, Lamium, Tenerium, Pedicularis).-Isaac Hopkins.

Remember—bees have no food where they are rearing their babies. Feed them.