

the material. At the same time, apart from the fact that there is considerably more foliage than fruit on a tree, and therefore a greater percentage apt to be missed, it must be remembered that in the case of the apple the spraying of the foliage is incidental to spraying the fruit, and so long as the fruit is covered no special care is given to the foliage unless there is a special object in view. The result, no doubt, is that sufficient food is provided in this way by the new foliage that is constantly being produced by the tree to sustain quite a large number of grubs, which later, when their strength increases and the strength of the spray decreases, may attack the fruit with impunity.

The means of reducing possible damage by the leaf-roller to a minimum necessitates frequent spraying with arsenate of lead, as recommended for the control of codlin-moth, taking care to cover the foliage as well as the fruit of the tree with the material.

Black-spot.

For the control of black-spot combine lime-sulphur with the arsenate of lead when spraying for moth. Should the weather during the month be favourable to the spread of fungus diseases, extra care will require to be taken to guard against outbreaks by taking advantage of any brief spells of suitable weather for spraying. Should the disease break out and the fruit become at all badly affected, it may be necessary to resort to 3-4-40 Bordeaux mixture as a means of checking its further spread; but this should be avoided if possible, owing to the russetting effect this spray has upon the fruit.

Brown-rot.

This disease usually attacks the fruit just prior to ripening, hence the name of "ripe-rot," by which the disease is also known. But its attacks are by no means confined to this period; if the weather is at all wet and favourable, stone-fruits very often become affected shortly after they are set. Brown-rot affects both pip and stone fruits, but is particularly destructive in regard to the latter. Thinning has a very beneficial effect, and for this reason alone should be carried out in districts affected with the disease. As soon as the disease is noticed all affected fruit should be picked off and destroyed, and the tree sprayed with a weak solution of Bordeaux mixture, or lime-sulphur 1-100 to 1-125.

Powdery Mildew, Mussel Scale, and Red Mite.

For powdery mildew remove all affected parts, and spray with lime-sulphur combined with arsenate of lead when spraying for moth. This will also prove satisfactory in keeping in check red