

has been actually demonstrated by altering the method of application but making no change in the material. In many districts of the Dominion showery weather frequently prevails during this month. Frequent showers and a humid atmosphere produce conditions especially favourable to the development of apple and pear scab, so that, in addition to previous steps that may have been taken to prevent infection, varieties known to be particularly subject should be kept under observation and sprayed with the Bordeaux mixture, 4-5-50 formula, if either of these fungi threatens to become troublesome. As mentioned in the October issue of the *Journal*, 1½ lb. of arsenate of lead should be added to the Bordeaux mixture in districts where codlin-moth exists, in order to save the trouble and expense of spraying for pest and fungus separately.

#### BRONZE-BEETLE.

In some districts growers have found it difficult to keep bronze-beetle under satisfactory control, in spite of spraying freely with arsenate of lead. It will be found that the addition of a small quantity of resin-solution will much increase the effectiveness of the arsenate of lead in preventing serious blemish to fruit through attack by this pest.

#### RESIN-SOLUTION.

Proportions : 1½ lb. resin, 1 lb. washing-soda, 2 gallons water. Preparation : Boil the water, dissolve the soda, add the resin, and continue boiling until the resin has thoroughly dissolved. Add about 3 quarts to each 50 gallons of arsenate-of-lead spray.

It is possible that in many instances the necessary treatment for the control of leech, mussel scale, red spider, scale on citrus trees, and pear-mite may not have been carried out, or perhaps proved ineffective, owing to faulty methods of applying or preparing the spraying-compounds. In such cases it is not yet too late to adopt the lines of treatment suggested in the October issue of this *Journal*.

#### IRISH BLIGHT OF POTATOES.

It has often been the case that a main crop of potatoes has been suddenly attacked and destroyed by the Irish blight during the month of December, owing to climatic conditions prevailing which have proved exceptionally favourable to the rapid increase and spread of the fungus. Such conditions may recur during any season, so that to prevent possible serious loss precaution against infection should be taken by spraying with the Bordeaux mixture, 4-4-40 formula.

#### TOMATOES.

In some districts tomato crops will now be well developed and subject to attack by both fungus and caterpillar. An effective combined pre-