

it does not develop the vapor sufficiently strong. But the sulphide of soda, especially when the compound is used warm, gives a brisk action and the germs of the fuscladium are killed.

As the varieties of fruits suffering from the fuscladium are affected in very different degree and at different times of development, some apples and pears being attacked already in bloom, it is evident that they cannot successfully all be treated alike.

According to this theory we have arrived at the conclusion that the different varieties affected in different degrees require different modes of treatment.

Varieties of which the bloom already affected is not allowed to set.—For these I should recommend a very thorough spraying in the fall, and also in the spring before the blooming, and if the fruit should show signs of fungus, spray again after the setting.

Varieties blooming and setting before the fungus attacks them.—One thorough spraying after the fruit is set.

It should be distinctly understood that we do not claim to have Proved that the sulphide of soda is a perfect remedy for the Winter Nelis blight, or for apples blighting in bloom, but we think it will prove so. The following remedies are suggested for trial against the latter two afflictions:

REMEDIES TO BE TRIED.

1. Substitute, in place of concentrated lye or powdered caustic soda, *caustic potash* 98 per cent. now for sale in this city.

2. *Powder of lime and sulphate of copper*, as prepared in France and used successfully against the downy grape mildew. *Perenospora viticola* (see Lambson Scribner's report on fungoid diseases, published by the Department of Agriculture) as follows:

Have the quicklime entirely slaked in the air. Take two hundred pounds of the lime which has first passed through a coarse sieve so as to remove foreign bodies. With ten pounds of this lime and thirty of water make a clear milk of lime. Dissolve twenty pounds of bluestone (sulphate of copper, the purest possible) in sixty pounds of warm water. Let the solution cool to 68.77° F. Mix the solution with the milk of lime and stir well. The remaining one hundred and ninety pounds of lime is spread out on the hard ground preferably on stone flagging or concrete to a depth of about seven

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