

than mounding trees, is the use of stiff paper one foot high about the base, extending some two inches below the surface, and fastened at the top with string or wire. The washes recommended for the apple tree borer are also good to be used on the peach.

BLACK SPOT OR FUNGUS.

(*Fusicladium drudriticum*.)

This disease that the apple and pear are subject to is doing a good deal of damage to those fruits in some portions of British Columbia. It is more apparent and destructive on some varieties than upon others. The causes which produce this disease are somewhat uncertain. Suffice it that those longest in cultivation, most productive, and in confined situations, appear to be most liable to it. It is a fungus growth, presenting, when examined by the microscope, a mossy, spongy character, occupying the skin so as to prevent the development of its tissues, and result in checking the growth at that point, thus creating a black spot and a deformity. When the malady spreads, as it sometimes does, over half or more of the apple or pear, it tends to a deeper nature and causes the fruit to crack open and become corky and worthless.

FORMULAS FOR FUNGICIDES.

BORDEAUX MIXTURE.

This fungicide originated in France and has become one of the leading combinations of copper salts. Since its introduction into America there has been a constant tendency to dilute the mixture more and more. The results from the diluted mixtures have been apparently as good as from those of full strength, and of course the cost has been proportionately lessened. The different formulas are indicated below :

ORIGINAL FORMULA.

Dissolve six pounds copper sulphate in one gallon hot water in an earthen or wooden vessel. In another vessel slack three pounds fresh lime in one gallon water. Strain the latter and add to twenty gallons water. Now pour in the dissolved copper sulphate and mix thoroughly; keep the mixture stirred while using.

GREEN FORMULA.

In 1891 Mr. W. J. Green, of the Ohio Experiment Station, used on apples, plums, pears, cherries, raspberries, etc., a still more dilute mixture, viz., four pounds copper sulphate and four pounds lime to fifty gallons of water, and obtained very good results.