

ONTARIO DEPARTMENT OF AGRICULTURE.

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INSTRUCTIONS IN SPRAYING.

SOLUTIONS RECOMMENDED.

1. BORDEAUX MIXTURE.

Copper sulphate.....	4 pounds.
Lime (fresh .....	4 "
Water .....	40 gallons.

Suspend the copper sulphate in five gallons of water. This may be done by putting it in a bag of coarse material, and hanging it so as to be covered by the water. Slake the lime in about the same quantity of water. Then mix the two and add the remainder of the 40 gallons of water.

Warm water will dissolve the copper sulphate more readily than cold water. If the lime is at all dirty strain the lime solution.

If the lime is good the above amount is likely to be sufficient. It is an easy matter to know how much lime is required by using what is termed the ferrocyanide of potassium test. This substance can be got at any druggist's, and very little is required. Take a small bottle (2 oz.) and get it filled with a saturated solution of this compound. If there is not plenty of lime in your mixture, a drop of the test added to it, turns brown. Add more lime and stir. As soon as the test fails to color in coming in contact with your mixture, it indicates there is sufficient lime present to neutralize the effects of the copper sulphate. Use wooden vessels in preparing the Bordeaux mixture.

2. AMMONIACAL COPPER CARBONATE SOLUTION ("Cupram").

Copper carbonate.....	1 ounce.
Strong ammonia sufficient to dissolve the copper carbonate.	
Water.....	10 gallons.

This solution is not much used, and is recommended only in cases where the fruit is so far advanced that it would be disfigured by using the Bordeaux mixture.