

2. A modified form has given better results, viz.: 2 lb. copper sulphate dissolved in two gals. water, $2\frac{1}{2}$ lb. sodium carbonate (washing soda) dissolved in another vessel. Mix these, and when chemical action has ceased add $1\frac{1}{2}$ pints of ammonia and dilute to 22 gals. Some dilute even to 30 with good results.

Eau Grison (Grison Liquid). This consists of sulphur, lime and water. Boil 3 lb. sulphur and 3 lb. lime in 6 gals. water until reduced to 2 gals. When settled pour off the clear liquid; this may be bottled and when used dilute with 100 parts water. This is used to destroy downy mildew and powdery mildew of the grape and the mildew of the gooseberry.

Copper Sulphate. 1 lb. in 25 gals. water is used to spray on vines and trees in early spring to destroy the winter spores of Fungi.

**Ammoniacal solution of copper carbonate*.—Copper carbonate, ammonia and water. Dissolve 4oz. copper carbonate in 2 quarts ammonia, and when about to use dilute to 30 gals.

Potassium Sulphide. 1 oz. potassium sulphide to 2 gals. water.

**Galloway's mixture No. 5* is equal parts ammoniated copper sulphate and ammonium carbonate. 10 oz. of the mixture to 25 gals. water. Combined Insecticide and Fungicide, 4 oz Paris green to 50 gals. of Bordeaux Mixture, No. 3.

REMEDIES.

"Spot" of Apple. 1. Spray in spring before the blossoms open with Bordeaux mixture No. 3, then as soon as fruit is well formed, again with the same, and repeat about twice at an interval of two weeks. If 4 oz. of Paris green be added to the barrel when spraying 2nd, 3rd and 4th times, it will be effective against insects. 2. Galloway mixture No. 5. 3. Ammoniacal solution of copper carbonate. 4. Modified Eau Celeste. 2, 3 and 4 may be applied once before blossoming, next when fruit is about the size of peas, and the last time about two weeks later. Nos. 3 and 4 have been very successful.

"Brown Rot" of stone fruits found on the cherry, plum and peach.

The same as remedy No. 1 for "Spot" on apple.

"Pear Leaf Blight". 1. Spray with ammoniacal solution of copper carbonate as soon as the leaves begin to unfold, repeat 3 times at intervals of two weeks.

2. Dilute Bordeaux mixture as for apple "spot."

Strawberry Leaf Blight. Spray with ammoniacal solution of copper carbonate, Bordeaux mixture or eau celeste every two weeks during July and August.

Gooseberry Mildew. Spray with a solution of potassium sulphide 1 or to 2 gals. water. Begin as soon as the leaves commence to open, repeat every three weeks.

Black Rot of Grape. Spray with ammoniacal solution of copper carbonate 6 times commencing early in May and repeating every 15 days.

Downy Mildew of Grape. Spray eau celeste upon the vines 10 days before they blossom; a second time when berries are well set, and a third three weeks later.

Anthracnose of the Raspberry or Cane Rust. Spray Bordeaux mixture No. 3. Apply once before the leaves come out, twice after, but not after the blossoms open. Spray especially on the young growth.

II. INSECTICIDES.

Compounds or mixtures used to destroy insects injurious to vegetation:

Paris Green (arsenite of copper containing 50 to 60 per cent. of arsenic). Applied dry or in solution. In the dry form best mixed with 50 to 100 parts plaster, wood-ashes, flour or air-slaked lime and dusted upon the affected plants. The wet form is usually used in the proportion of 1 lb. Paris green to 200 gals. of water, but if the foliage is ten-

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