2. Carbonate of copper in suspension—

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|---|---|
| Carbonate of copper | 2 oz. |
| Water | 25 galls. |

This is prepared for use in the same way as Paris green by mixing thoroughly with the water. A more evenly distributed mixture can be obtained by first stirring the carbonate of copper into one gallon of water, when well distributed this is poured into the remaining 24 gallons, and the whole thoroughly agitated. This mixture requires more care in application than the ammoniacal solution; it should be constantly agitated and laid on in a fine spray.

### A COMBINED FUNGICIDE AND INSECTICIDE.

A series of experiments were conducted at the Central Farm last summer by the writer, assisted by Mr. Shutt, Chemist to the Experimental Farms, with a view to test the degree of strength which a combined fungicide and insecticide could be applied without injuring the leaves. The following are extracts from the summary of conclusions reached after several applications.

The quantities of chemicals given are on the basis of using 22 gallons of water, with ammonia as the solvent.

Carbonate of copper, 3 oz. in solution, Paris green, $1\frac{3}{4}$ oz. (proportion of 1 lb. to 200 galls. of water) caused a slight injury on the third application.

Carbonate of copper, $1\frac{1}{2}$ oz. in solution, Paris green, $1\frac{3}{4}$ oz. caused very slight injury after the third application.

Carbonate of copper, 3 oz. in suspension, Paris green, $1\frac{3}{4}$ oz. caused slight injury in later applications.

Carbonate of copper, $1\frac{1}{2}$ oz. in suspension, Paris green, $1\frac{3}{4}$ caused no injury.

### RECOMMENDED FOR TRIAL.

In view of the above results I would therefore recommend for trial, to a limited extent, mixtures, as follows:—

| | | |
|---|---|---|
| (*a*.) | Carbonate of copper | $1\frac{1}{2}$ oz. |
| | Ammonia | $1\frac{1}{2}$ pints. |
| | Water | 25 galls. |
| | Paris green | $1\frac{1}{2}$ oz. |