

Pyrethrum. Made from the powdered flowers of the genus pyrethrum, a plant of the sunflower family. It should be fresh, and hence ought to be kept in closed vessels. It may be used in dry form, 1 part pyrethrum to 5 or 8 parts of flour, or in liquid form in the proportion of 1 oz. in 3 gals. of water.

Carbolic Acid Emulsion. Consists of 1 part carbolic acid to 7 parts of a solution consisting of 1 quart of soft soap or 1 lb. of hard in 2 gals. of water.

Tobacco. The refuse from cigar factories is good, either dusted on in the form of a powder, or used as a solution in the proportion of 1 lb. in 2 gals. of water.

Whale Oil Soap. This may be used in the proportion of 2 oz. of the soap to 1 gal. of water.

Alkaline Wash. A strong solution of washing soda mixed with soft soap until about as thick as paint.

Carbolized Plaster. Consists of 1 pint of carbolic acid and 50 lb. of land plaster.

Combined Mixtures. By the combination of an insecticide with a fungicide we are able at the same time to cope with injurious insect and plant life. A good example of this can be seen in the application of a combined mixture to potatoes, in which case the beetle may be destroyed and the blight prevented. While combatting the "spot" of the apple the codling moth may also be fought if a combined mixture be used.

(1) 4 oz. of Paris green added to Bordeaux mixture (No. 2 or 3) makes an excellent combination.

(2) The following is also recommended: 2 oz. of Paris green and 2 oz. of copper carbonate dissolved in 3 pints ammonia, $\frac{1}{2}$ lb. of lime added to 32 gals. of water, and the whole thoroughly mixed. It is necessary to add the lime, or the foliage will be damaged.

PRECAUTIONS IN SPRAYING.

1. Keep poisons labelled, and out of the way of children.
2. Do not spray so far into the season as to affect the fruit.
3. In making emulsions remember the inflammable nature of coal oil.

4. *Never spray trees in bloom.*

5. Try solutions on a small scale if likely to injure foliage, and watch results.

6. Be careful and thorough in your work.

Careful analyses show that there is no ground for alarm regarding the effect of spraying fruit trees with Paris green.

The foregoing mixtures are usually applied by spraying machines, which can be procured through any responsible seedsman. As copper