

7. *Grape Down Mildew.* Spray with Eau Celeste about ten days before blossom; give another application as soon as the berries are set, and a third about three weeks later.

8. *Raspberry Cane Rust.* Spray with Bordeaux mixture (No. 2) before the leaves appear and two or three times after; but not after the blossoms open.

9. *Potato Blight.* Apply Bordeaux mixture (No. 2) three or four times, administering the first when the plants are about six inches high. If $\frac{1}{2}$ lb. of Paris green be added to the mixture beetles may also be destroyed at soon as they appear.

10. *Smut.* (1) Immersing seed in hot water of 135° Fabr. for five minutes will destroy the spores of smut. 5° above or below that point will fail.

(2) Put 1 lb. of copper sulphate in 20 gallons of water and allow the seed to remain in this for about 15 hours; then put the seed for 10 minutes in lime water made by slaking the lime in ten times its weight of water.

REMEDIES FOR SOME COMMON INJURIOUS INSECTS.

1. All *Leaf-eating* insects, such as canker worms, tent caterpillar, grape flea beetle, Tussock moth, fall web-worm, etc., are readily destroyed by spraying with Paris green, 1 lb. to 200 gallons of water.

2. *Borers* of the apple tree trunk and peach can be overcome by applying late in May or early in June to the trunks and large branches the following solution: 1 quart of soft soap or 1 lb. of hard soap in 2 gallons of water; heat to boiling point and add 1 pint of crude carbolic acid. It is well to scrape off the rough bark first, and then rub the mixture well on.

3. *Bark Lice.* Scrape off the bark during the winter and early spring, and rub on a solution made by adding one part of crude carbolic acid to 7 parts of a solution of soft soap 1 quart, or hard soap $\frac{1}{2}$ lb. in 2 quarts of boiling water. As soon as the young lice are hatched and begin to move (about June) spray the tree with a kerosene emulsion.

4. *Codling Moth*, or apple worm. As soon as the petals have fallen spray with a solution of 1 lb. of Paris green in 200 gallons of water; ten days later give a second application, and if necessary a third spraying may be given later on.

5. *Plum Curculio.* Spray with 3 oz. of Paris green to 50 gallons of water as soon as the blossoms have fallen, and give two more applications at intervals of about ten days. Jarring the trees and collecting the insects as they fall upon sheets is also much followed.