

soil, well exposed to the sun, this coloring is heightened still more. *Berberis Thunbergii* is a variety introduced from Japan by the botanist Thunberg. It forms a dense graceful bush about three feet high and of rounded form. It is a most pleasing ornamental shrub with its bright red bark, its fruit which hangs throughout the winter, and its beautiful foliage in summer.

SOME DESTRUCTIVE INSECTS.



THE above is the title of Bulletin 68 of The Ohio Experiment Station, in which some destructive insects are well treated of.

The Canker Worm, one of them, is a very old one in Canadian orchards, which for some years past has been stripping some apple orchards east of Hamilton, to such an extent as to leave not a vestige of foliage. Mr. Orr, who is superintendent of spraying operations in Ontario, says this insect is wide spread and very destructive.

For the benefit of any readers who have never become acquainted with this insect we give the accompanying illustration, showing (a) a cluster of eggs, (b) some of same magnified; these hatch out as the leaves expand in the spring, into the well known measuring worm (c) which when disturbed drops quickly and hangs by a thread. If a tree is badly infested a smart knock will bring down hundreds, hanging by as many threads, ready to crawl back and continue their work of destruction. When full-grown the worm drops by the thread to

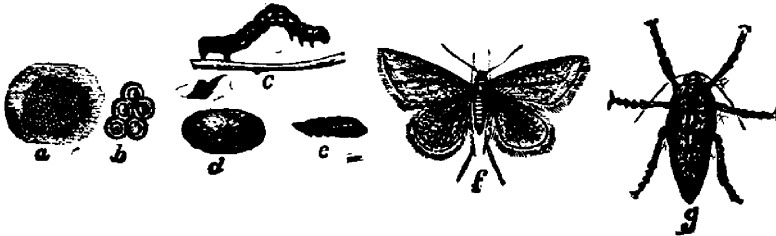


FIG. 966.—THE CANKER WORM.

the ground, and burying itself three or four inches below the surface forms a tough, buff colored cocoon (d) within which the chrysalis lies hidden till spring. Emerging with the first warm weather, the female moth (g) which is wingless, climbs the trunk of the nearest apple tree, awaits the company of the male (f) which is winged, and then proceeds to lay the eggs as first described.

Formerly the wingless female suggested the simple method of protecting the tree by bands of some sticky substance as practiced most faithfully by the writer about twenty years ago, when his orchard was attacked by this worm in great numbers. But since adopting the spraying with Paris green, no other means of