

silk from an inner, oval, completely closed one surrounding the pupa. It is secured by its entire length to twigs, and is a conspicuous object easily seen and recognized in winter.

THE RED-NECKED APPLE-TREE CATERPILLAR.

(*Datana ministra*).

A moderately large black caterpillar, loosely clothed with soft hairs, and marked with parallel longitudinal yellow stripes. Disposed to be social, but makes no web. Adult a reddish brown moth.

While this caterpillar has never proved common in my experience, it sometimes attacks a tree or two in nursery or orchard, and then strips whole branches, or the greater part of whole trees, of leaves. The caterpillar when at rest elevates both head and hind end of the body and has a habit of gathering in large masses on the trunks of trees. A similar but duller colored caterpillar (*D. integerrima*) is very common on black walnut trees, to which it does a great deal of harm, and often renders them objectionable about dwellings.

The species passes the winter in the pupa stage in the soil under trees, and comes up as a moth in late spring to place its eggs on the leaves. Eggs examined were always in a single layer and on the under surface. They are white, smooth and very nearly spherical, but under a magnifier are seen to be a trifle flattened where attached to the leaf and also at the free end, where they are provided with a lid-like piece with a single median pit, giving the whole the appearance of a small bowl with cover.

The adults appear about the trees in June and July, and seem to produce but one brood of young during the summer. They descend from the trees and go into the soil a few inches to pupate, in one case noted, on August 26, and in another, in 1893, during the first two weeks of September.

Description.

Egg.—White, smooth, bowl-shaped, 0.0264 inch (0.66 mm.) in diameter.

Larva.—Clothed with long soft whitish hairs. Head shining black. Neck plate (dorsum of first body somite) yellow. Body black, with four yellow stripes along each side. Bases of jointed