

then trampled under foot where they fall. The moth is pale brown in color, with darker lines across the wings, and a conspicuous dark velvety patch on the head and thorax.

THE RED-HUMPED APPLE-TREE CATERPILLAR (*Edemasia concinna*), Figs. 13 and 14. This insect resembles the preceding species very much in habits, stripping completely the foliage of the bough where it is feeding and crowding together when at rest. Similar measures may be adopted for its destruction. The caterpillar has a coral-red head and a hump on the back of the fourth segment of the same color, whence its name. The body is adorned with narrow, black, yellow and white lines and rows of black prickles on the back and sides; the hind segments taper toward the tail and are held up when the insect is not crawling.



Fig 13. Moth of the Red-humped Caterpillar.



Fig. 14. The Red-humped Caterpillar.

THE SPRING CANKERWORM (*Paleacrita vernata*) and **THE FALL CANKERWORM** (*Anisopteryx pometaria*), Fig. 15. These two species resemble each other so much that they may be considered together. The moths of the former come out during the first warm days in spring; those of the latter late in the autumn, sometimes after the first snow has fallen. In both the females are wingless, and therefore they do not spread from one orchard to another with much rapidity. Usually their arrival may be traced to some nearby forest tree, as they are very general feeders.



Fig. 15. Canker-worm; a, eggs, natural size; b, magnified; c, caterpillar; d, cocoon; e, chrysalis; f, male moth; g, female moth.

The eggs are laid in masses upon the twigs of the trees and the young worms hatch out as soon as the opening buds begin to unfold their leaves. They are slender pale green measuring-worms, so called from their method of crawling by alternately looping up and extending the body; this process is rendered necessary owing to the absence of pro-legs under the middle segments. (Fig. 15, c.) Feeding as they do upon the tender young foliage, they are capable of inflicting great damage both to