
* DESCRIPTION OF PREPARATORY STAGES OF THAROS.

EGG.—Conoidal, truncated, depressed at summit, rounded at base the lower half indented like a thimble, the excavations being shallow and arranged in close and regular rows; the upper half smooth, with about 15 slightly raised vertical ribs, terminating at the rim above; color pale green. Laid in clusters on the leaves of any species of Aster. Duration of this stage 4 to 7 days.

YOUNG LARVA.—Length .06 inch.; cylindrical, largest anteriorly, the segments each well rounded; sparsely pilose, the hairs black, and on the anterior segments directed forward; color yellow-green clouded with brown; head ob-ovate, deeply cleft; pilose; color dark brown. Duration of this stage .5 to 6 days.

AFTER FIRST MOULT.—Length .1 inch.; cylindrical, stoutest in the middle segments; armed with 7 rows of short, fleshy, brown spines, each thickly set with short, concolored bristles; there is also at the base of body a row of small spines, similar to the others, one on each segment from the 3rd, and over the pro-legs two on each; the 2nd segment with a collar of minute spines; body striped longitudinally with light and dark brown and sordid white; the dorsum light brown edged with white, and on this brown area are two interrupted white streaks; on the side a dark brown stripe on light ground; and in line with the lower lateral spines a white ridge; under side, feet and legs brown; head sub-cordate, the vertices rounded, and across each a gray band; another band on front lower face; color shining black. Duration of this stage 5 to 6 days.

AFTER SECOND MOULT.—Length .22 inch.; same shape; the stripes almost the same, the white dull, the brown darker; head sub-cordate, dark brown or black; on each vertex a white spot and one on front lower face. To 3rd summer moult 3 days. Where the larva passed 3rd moult in the fall, the interval was from 7 to 14 days.

* NOTE.—As the publication of this paper has been delayed, I am able to say now (March 24th), that the hibernating larvæ spoken of have gone through their larval changes and are now in chrysalis, 11 of them. These all had passed 3 moults last fall, and have passed 2 since hibernation ended. As will be seen below, the coloration at both these moults differed in several respects from the summer coloration. I did not succeed in bringing alive through the winter any of those larvæ which hibernated after 2nd fall moult, but of those which passed 3rd in the fall, the larger part were living when I placed them in the greenhouse, 7th Feb'y.