

After 2nd Moulting—Length .24 inch, color chocolate-brown, the lower lateral spines pale yellow at base and for one third up; both other rows have the bases more indistinctly yellow and then mostly on the outer sides, the inner being nearly or quite black; spines otherwise shining black, the bristles black; head subcordate, flattened frontally, the vertices rounded, and at top of each on front side a little conical black process; minute processes or tubercles are scattered over the face, the hairs springing from them; color shining black. To next moult 4, 6 and 9 days, according to the state of the weather.

After 3rd Moulting—Length .4 inch; color dark velvety brown; the spines black; all of the lower laterals yellow at base and for about one third up; the upper laterals distinctly yellow at base on the anterior segments, the yellow gradually fading to the last segments; the dorsals also distinctly yellow on anterior segments, the last wholly black; the dorsal spines on 2 are directed forward, but are no longer than others; head as at next previous stage, black in front, but yellow behind; all yellow is reddish, or honey colored.

At this stage there was some variation in individuals in the color of the spines. One had all distinctly yellow at base except the dorsals on 2 and 12, which were black. To next moult 5 to 8 days.

After 4th Moulting—Length .6 inch; color velvet-black; lower laterals wholly bright yolk-yellow; upper laterals same on anterior half, the remainder duller yellow; dorsals bright yellow on anterior half, but after 6 less so, and on 9 to 12 black; on 2 dorsals wholly black; in line with the dorsal spines on segments from 3 to 11 two gray dots; head as before.

Another larva had all three rows of spines largely reddish-yellow, fully half way up from base; the last two pairs of dorsals shading into brown. To 5th moult 4 to 8 days.

After 5th Moulting—Length 1.1 and 1.2 inch. Reached maturity in six to eight days.

MATURE LARVA—Length 1.8 inch at rest, 2 inches in motion; greatest breadth at rest .35 inch; color velvety-black, under side chocolate-brown; between each pair of dorsal spines from 3 to 11 two gray dots transverse; the spines throughout slender, beset with short black bristles; the bases of all spines reddish-yellow, and for about two thirds up, the rest