

After first moult, in spring: Length .11 inch; color brown-green; the spines in number and position as at maturity, and as in the genus, black, as well as the tubercles from which they spring; beset with many short, divergent, black bristles; head obovoid, black, with black hairs. Duration of this stage about 10 days.

After second moult: Length .16 inch; color gray-black with a green tint over upper side; under side pale green; the spines black, with black bristles; all the tubercles pale yellow; head as before, black. To next moult about 14 days.

After third moult: Length .32 inch; color gray mottled with black; a double dorsal stripe of gray; spines black; the bases of dorsal rows black on dorsal side, but yellow on outer side; of middle and lower rows dull yellow; head as before, but reddish-yellow, the back less red, more yellow. To next moult about 10 days.

After fourth moult: Length .5 inch; very much as at last previous stage, the dorsal lines same, spines same. To next moult about 6 days.

After fifth moult: Length .74 inch; slender; color brown-black, with a dorsal band of grayish-brown and not clearly defined markings elsewhere; these markings became distinct as the stage progressed.

**MATURE LARVA.**—Length 1.5 inch; slender, somewhat thickened in middle, the segments well rounded; on dorsum a broad greenish-yellow band, with a black line through the middle, edged by a little green; a narrow greenish-gray band between the dorsal and middle rows of spines, and a short band between the base of each dorsal spine and the next in advance of the middle row; these gray bands are of irregular width and the edges are whitish; the spaces between the bands brown-black; the sides, from middle row to the outside of lower row, gray with a rust-red tint in the middle of this area, and below to feet a darker, or more brown shade of gray; the spines are rather slender, swollen next base, above this tapering to a small conical top, from which proceeds a straight bristle; a few bristles about the sides, each from a tubercle, and standing at about 45° with the axis of its spine; the dorsal row are gray, the middle row gray tipped with rust-yellow, the lower row all rust color of deep shade; feet black, pro-legs gray-brown; head sub-cordate, the vertices rounded; color dull dark brown in front, dull yellow at back, with many short black hairs. From fifth moult to pupation 9 days.