

short and black, the dorsal posterior pair of spots on joints 8 and 11 a little more prominent than the others. All the legs pale except at the tips. Duration of this period 3 days.

After 3rd Molt.—Length 1.30 inches. Color and markings about the same as before, the lines separating the stripes not quite so distinct. The head not striped continuous with the body, but is black across the top and down the sides, with a black parenthesis mark in front a little above the middle on each side; the rest pale. The head had these marks during the last period. The first and second pairs of abdominal legs developed so as to be used. Piliferous spots rather prominent, but concolorous with the body. Duration of this period 3 days.

After 4th Molt.—Length 2.00 inches. In color and stripes about the same as before, except the color has more of a pinkish tinge. The spiracles show more distinctly than before and are gray ringed with black; the stigmatal stripe or line a little more of black than the dorsal. The black stripes on the head are mottled; the one over the top of the head reaching down the sides two thirds of the way to the mouth, an unmottled black spot at the base of the jaws, another mottled stripe lower down from the jaws back. This is lower on the head than the one that runs over the top. Front of head and sides of face pale whitish mottled with pale pinkish gray. The 6 ocelli on each side black. Slight fleshy fringe along the sides.

Mature Larva.—Length 2.50 to 2.60 inches. Width of head .20 inch, the length about the same, width of middle of body .40 inch. The color of body gray in nine more or less distinct stripes, three dorsal and three on each side, the dorsal faintly purplish and the lateral faintly yellowish, the arrangement and boundaries of the stripes the same as above. The posterior dorsal piliferous spots to each joint are more prominent than the others, have a kind of horny look and slightly ochraceous tinge, all the spots partaking a little of this. Stigmata black. Venter rose, somewhat purplish with the dark spots in the centre of joints 4 to 8 and traces of these in the others. Legs pale, spotted a little. Ocelli black, jaws black, antennæ and palpi pale. Duration of this period from 6 to 9 days.

Chrysalis.—Length 1.45 inches, of wing and tongue cases, .80 inch, these reaching to the posterior part of joint 5. Width of thorax .45 inch, depth of thorax .40, depth of joint two, .40; joint three, .43; joint four, .42; joint five, .40 inch, from which it tapers in a cone backwards. The outside of the abdominal joints punctured, with the exception of the last two. Wing