

is bright yellow, reaching to the line containing the outer row of dorsal piliferous spots; below this line to the line below the subdorsal, pale whitish; below this the color is yellow. Duration of this period, 4 days.

After Fourth Moulting.—Length .55 of an inch. The plan of color and markings unchanged save that the subdorsal color is grayish white, the elevations on joints 5 and 12 more prominent, and in same the dorsal yellow brighter.

After Fifth Moulting.—Length 1 inch. Similar to the preceding stage, but varying a little in color. Dorsum clear yellow with three dark reddish purple stripes; below this grayish yellow, the two broadest of the three lines mottled, the upper one the most; below this, including the stigmatal line and the substigmatal space, reddish yellow; the stigmatal line red, much broken; venter concolorous with the substigmatal space. Thoracic feet, head and two spots on the neck jet black; joints 5 and 12 have each two prominent velvety black papillæ; a white hair from each piliferous spot, and in addition to this a fine short white pubescence covers the whole body, but not so thickly as to obscure the color.

Mature Larva.—Length from 1.10 to 1.20 inches; width of head .15 of an inch, of body .20. Dorsum lemon yellow with three purplish black stripes arranged as in preceding stages. Just above the stigmata is a narrow yellow line; between this and the yellow of the dorsum the ground color is gray, in some examples tinged with yellow on segments 2 to 5, in others it is a paler yellow; in the centre of this space is a purplish black line, and on both borders or edges of the space is a mottled stripe of the same hue. The stigmatal, substigmatal and ventral spaces, with the prolegs, somewhat carneous, the slight fleshy ridge below the stigmata being most so. In the upper part of the stigmatal space is a mottled line, the stigmata black. Head, thoracic feet and spots as at the first of the period. In some examples the stripes are more of a dark purplish red than black. Duration of this period from 4 to 7 days.

Chrysalis.—Length .55 of an inch; cylindrical; depth through thorax and the first abdominal segment .18 of an inch; through joint 3, .20; joint 4, .21; joint 5, .21; from here tapering gradually to the end, which is rounded, smooth, ending in a stylus with a hook at the end on each side. Surface smooth, shining, a few punctures between the joints, and the upper part of head and thorax a little roughened. Color dark chestnut brown, the eyes and a little shading at the end of the wing cases darker. Wing