

After Fourth Moul.—Length .36 inch at 12 hours; color in June dark brown, dotted with sordid white on dorsum; in October more white on dorsum than brown, the white sordid, the brown restricted to lines or narrow stripes, one of which runs with the dorsal spines, and one just inside the base of each upper lateral row; in both a whitish stripe runs with the upper laterals, and next under that is a broad dark brown band, in the summer larva, darker or more blackish than the dorsal color; under this band, in June, is a broad brown space much dotted and mottled with whitish, and next a basal whitish stripe; in the October larva the lower part of side is sordid white, mottled with pale brown to the yellow-white basal stripe; the June larva is more brown than white, the October larva more white than brown. To next moult in June about nine days, in October thirteen days.

After Fifth Moul.—Length in July .42 inch at 12 hours; as in previous stage in same month, except that the side below the dark brown band is lighter, more white, less brown.

MATURE LARVA.—Length .6 inch; cylindrical, even, armed with seven principal rows of short stout tapering spines, one dorsal, three lateral; the five uppermost rows thickly beset with short stiff brown hairs; the lower row with fewer, and these are yellowish; besides these is a row of small, similar spines over feet and along base; in June the spines are light brown, or yellow-brown in the five uppermost rows, the others yellowish; in October the spines of all the rows are yellow-green, from yellow bases; color of dorsum in June brown dotted with whitish; a narrow whitish stripe runs with the upper lateral spines; next under this and extending to the lower edge of middle lateral row is a dark brown band, a little dotted with whitish, from this to the whitish basal stripe the side is pale brown, dotted and mottled with whitish; in October the dorsum is yellow-white, with three pale brown stripes, one mid-dorsal, one just inside each upper lateral row of spines; the band as in June, but chocolate-brown; the lower part of side nearly white, the two or three anterior segments mottled with pale brown; on 2 is a black chitinous dorsal oval patch, from the front of which black hairs bend over top of head; under side, in June, greenish-brown, in October, yellow-green; feet and pro-legs concolored with under side; head cordate, the vertices rounded, shining dark brown; most examples have a yellowish bar on each vertex from back to front; in some this is partly or altogether want-