

DESCRIPTION OF PREPARATORY STAGES OF ARGYNNIS
IDALIA, DRURY.

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EGG—Shaped like that of *Diana* and *Cybele*; conoidal, truncated, rounded at base, the sides well rounded; depressed at summit; marked vertically by about 18 vertical ribs, somewhat wavy, half extending from base to summit, the remainder ending irregularly at about three-fourths the distance from the base; between each pair of ribs are equi-distant, transverse, slightly raised striæ. Duration of this stage about 25 days.

YOUNG LARVA—Length .08 inch; cylindrical, somewhat thickest in middle; color pale yellow-brown, translucent; each segment from 3 to 12 marked by a transverse row of eight elongated, sub-ovate, tubercular dark spots, of which six lie on dorsum and upper part of side, and one below spiracle, the whole forming eight longitudinal rows; from each spot spring one or two long black curved hairs; head scarcely broader than 2nd segment, rounded in front, bilobed, the vertices rounded, sparsely pilose. The larvæ at this stage cannot be distinguished from *Diana*, *Cybele* or *Aphrodite*. The 1st moult occurred 23 days after the close of hibernation.

After 1st Moulting—Length .15 inch, cylindrical, stout, tapering from middle either way; color cinereous, mottled and striped with brown; a macular stripe running with the dorsal spines, and another just outside 1st laterals; the spines form six longitudinal rows, two dorsal and two on either side, and are long, fleshy, black, each beset with short black hairs; head black. Duration of this stage 12 days.

After 2nd Moulting—Length .3 inch; stouter; mottled and striped with light and dark cinereous; the spines longer, more tapering, each dull yellow at base; head black. Duration of this stage 15 days.

After 3rd Moulting—Length .7 inch; same shape; the dark portions quite black, the light of a dirty white; on dorsum a white stripe through which runs a black line; at the junction of the several segments a transverse white stripe, on which are short black lines; each segment crossed longitudinally by black stripes, interrupted by the spines, with a wedge-shaped mark between the spines; these are long, shining black, with black bristles, and mostly rise from pale orange tubercles; head flattened frontally, bilobed, the vertices rounded; color light brown. To next moult 17 days.