

After First Moulting.—Length at 12 hours .18 inch; shape as before; color gray-green, the dorsum of 12, 13 discolored brown or blackish, and a sub-dorsal patch of same hue on 8 and 10; thickly covered with fine tubercles as at first stage; the rows of larger tubercles as before, ivory white, bell-shaped, the hair or process from top brown or black; the basal tubercles large, each with its crescent of smaller ones on lower side; head higher than broad, narrowing at upper part, depressed at suture; color of the upper front greenish, over mandibles yellow-white, at the back gray-green; on each vertex a low duplex black process, the outer part larger and higher than the other, each with a black short bristle at top; at back, on either side the suture, a duplex small yellow process and others down the side of face at back; over the front minute tubercles as at first stage, and in addition three large conical white tubercles on either lobe, each three in triangle with base above, so arranged that four tubercles cross the forehead in line. To next moult four to five days.

After Second Moulting.—Length at 12 hours .25 inch; shape as before; tuberculated as before; color gray-brown, discolored on posterior segments as before; head shaped as before; the processes on vertex larger, triplex, shining black, two being in line across front, the outer one larger, the third lying behind and between the others; the back and the front face armed as before. To next moult five days.

After Third Moulting.—Length at 24 hours .34 inch; shape, armature and color as before; there is much variation in the extent of the black; on one example 6 and 11 were quite black dorsally, on sides of 8, 9, 10 black patches, on sides of 3, 4, 5 paler black; another was pale black on 12, 13, a very little of same on 5 and 6, and the sides of 8, 9, 10 pale black; head as at last previous stage, the front greenish-black, the vertex processes black; of the four cones across front the outside ones were black, the others white, with brown rings at base. To next moult four and five days.

After Fourth Moulting.—Length at 24 hours .7 inch; after five days was fully grown.

MATURE LARVA.—Length 1.3 inch; stout anteriorly, thickest at 3, 4, tapering on dorsum and sides to 13; the end of 13 rounded and the dorsum much curved; color gray-green, segment 2 darker green; usually marked by patches of black on dorsum or sides of segments after 6, but some examples have little, or it is pale colored, and others have none at