

which is light yellow ; ends of tails pink ; under side, feet and legs green ; head sub-globose, depressed at top, the surface much covered with white tubercles and hairs ; color green. Duration of this stage about 11 days.

After Second Moulting.—Length, at 24 hours, .3 inch ; shape as before ; color more green than yellow ; dotted as before with white tubercles ; tails rough with tuberculations, reddish ; stripes as at last previous stage, the two lateral less distinct ; the basal ridge yellow ; head emerald, tubercles as before. To next moult 6 days.

After Third Moulting.—Length at 24 hours, .42 inch ; in six days, one larva of the brood was full grown.

MATURE LARVA.—Length .7 inch ; cylindrical, a little thickest anteriorly, dorsum and sides sloping very gradually, the former to 10 and then rounding to 13, ending in two conical, short, stout tails, which meet at base, and are rough with tuberculations ; whole surface covered thickly with fine rounded white tubercles, each of which gives out a fine short hair, making a downy coating ; these hairs are clubbed, or tapering, or cylindrical ; color dark green, the sides yellow-green ; the tails reddish ; a mid-dorsal darker green stripe ; on the sides traces of two stripes (the sub-dorsal having disappeared) ; the basal ridge light yellow ; under side, feet and legs green ; head broader than 2, sub-globose, a little depressed, beset with white tubercles and hairs, the surface finely granulated ; color yellow-green, the principal ocellus emerald in brown ring. From third moult to pupation 10 days.

After Fourth Moulting, after hibernation.—Length .49 inch ; not differing in color or markings from third summer moult.

CHRYSLIS.—Length .4 inch ; greatest breadth, at mesonotum, .12, at abdomen, .14 inch ; shape of *Galactinus* ; cylindrical, stout, the upper end truncated, the abdomen swollen, conical at extremity ; head case narrow, ending in a sharp cross ridge which is a little arched, the sides excavated roundly ; mesonotum prominent, arched, the carina rounded transversely, the sides slightly convex, followed by a shallow depression ; color delicate green ; marked by nine black stripes placed as in *Galactinus* ; of these, one on dorsal edge of each wing case from base to inner angle of wing ; a curved stripe on middle of each wing reaching the hind margin ; a short stripe on same margin on ventral side of the curved one ; two short stripes on the antennae cases ; besides these, there is a black mark on either side of 13 ; top of head case whitish. Duration of this stage