

deposit eggs crawls into some crevice and produces a cottony cushion on which it rests and secretes considerable white cotton over its entire body. Antennæ 9-jointed. Joint 1 longest and broadest, next in length is 2, then joint 9 and then 3. Joints 4, 5, 6, 7 and 8 are subequal, and are a little shorter than 3. Formula: 129345678. Legs long and stout. Tibia twice as long as tarsus, both very hairy. Claw long and stout. Digitules fine hairs. Body sparsely covered with long stout spines, especially along the margin and caudal end. Stigmatal tubes very prominent. Anal opening simple and quite large.

♂ larva much like that of ♀, but narrower and more oblong.

♂ second stage not observed.

♂ third stage like that of ♀, but smaller and more elongated.

♂ fourth stage (cast skin) without rostrum. Antennæ 9-jointed. Joints 1 and 9 longest and subequal; joints 7 and 8 subequal; joints 4 and 6 subequal; and joints 2 and 5 subequal. Each joint with long stout hairs. Joint 9 rounded at tip, with several stout hairs and spines. Formula: (19)(78)3(46)(25). Legs long and very stout. Femur much swollen, very little shorter than tibia. Tarsus $\frac{1}{2}$ of tibia. Claw stout and curved. Digitules simple hairs. Body covered with long fine hairs. There are several stout spines on caudal end of abdomen.

♂ pupa, about $2\frac{1}{2}$ mm. long and 1 mm. broad, enveloped in a densely-woven cottony sac about 5 mm. long and 2 mm. broad. Thorax, legs and antennæ light yellow, abdomen crimson. Wing-pads very broad. Legs long and stout. Tarsus $\frac{1}{2}$ as long as tibia. Femur stout and as long as tibia. No claw. Antennæ 9-jointed. Joint 1 stoutest. All joints annulated with white and subequal. Formula: 3.(2.9)4.5.6.7(18).

Adult ♂ about 3 mm. long and $1\frac{1}{2}$ mm. broad, slightly pubescent. Colour of abdomen reddish-brown. Mesothorax black, with four raised knobs. Front part of head black, eyes very prominent, strongly faceted, black. Legs and antennæ black and very hairy. Ventral surface of abdomen dark brown, segmentation distinct. Mesosternum black, a small black line on prosternum, and an irregular black patch on metasternum. Abdominal brushes with long stout glassy bristles about 6 mm. long. Style short, stout and conical. Antennæ 10-jointed, very hairy, reaching beyond end of abdomen. Joint 2 shortest, joints 3 and 10 a little longer, and the other joints subequal. Each joint with numerous hairs. Wings large, about 3 mm. long and 1 mm. broad, expanse about