black spots (three per segment), besides the oblique black mark on subventral ridge and minute ventral dots anterior to the legs; all bear short, stiff, black setæ.

Fifth stage.—Head clear light orange-red, shining, minutely sparsely black pilose; eye on black spot; width, 1.4 mm. Abdominal feet on joints 6-10 and 13, small with indications of feet also on joints 11 and 12; thoracic ones pale with slight black marks. Body as before; anal

plate black.

Sixth stage.—Head well rounded, full at vertex, but narrowing to a central apex; sutures obsolete, but four dents in front indicate clypeus; shining light red with a few black setæ; eye black; width, 1.8 mm. Body cylindrical, of nearly even width to joint 13, which is a little smaller; abdominal feet, corresponding spots on the apodal segments and anal plate black; no cervical shield: thoracic feet pale brownish. Segments not annulate, shining green, yellowish laterally; nine large elevated rounded black spots, .2 mm. in diameter, in a square on each side above the stigmatal line on each segment, one below posteriorly to the spiracle, and several small ones on the conspicuous, obliquely divided sub-ventral ridge; a small black patch at base of abdominal feet 7–10 and minute ventral spots. Anal feet pale orange. A series of round medio-ventral orange spots, almost between the feet on joints 7–12.

Seventh stage.—Width of head, 2.2 mm. (1.8 mm. in male?). Much as before throughout, but the black spots are larger (.25 mm.), shining blue-black.*

Cocoon.—Double, open reticular, of yellow silk, the outer layer of large meshes; spun at the surface of the ground.

Lophyrus Lecontei, Fitch.

Gregarious, eating down the needles of the pine. When disturbed, the larvæ raise the thoracic feet and eject a white fluid from their mouths.

Head light red, eye and mouth black; width: 3, 1.8 mm.; 9, 2.2 mm. Thoracic feet rather small, black except at the joints. Abdominal feet present on joints 6–12 and 13 (22 feet), all well-developed. Body rather greenish-white, nearly opaque, slightly shining; segments not very distinctly 4-annulate, with rows of microscopic black spinules on the

^{*}The eighth stage was not noted. It probably escaped observation, as there should be no increase in size of the head, and I neglected to isolate one larva.