

Measurements: Length of body, 2 mm.; width, .87 mm. Length of wing, 3.87 mm.; width, 1.52 mm.; total expanse, 8.61 mm. Length of antennal segments, I, .066; II, .11; III, .51; IV, .242; V, .3; VI, .154; spur, .066 mm.; total length, 1.448 mm. Length of nectaries, .045 mm.; cauda, .176 mm.

Females along tips of needles, depositing from 5 to 8 eggs.

*Lachnus occidentalis* Davidson.

Quite abundant in spring and fall on the terminal shoots, where it causes the undersides of the twigs to appear bluish or smoky.

*Stem-mother*.—Collected on *Abies grandis*, near Corvallis, Oregon, March 18, 1911. Gregarious individuals from just hatched to two-thirds grown. Colour dark brown, body pruinose. Head and legs black except tibiae, which are dark brown. Body with four rows of spots on the abdomen, which resemble dried spots of some white crystalline substance. The more mature specimens taken later are darker and have more of the pruinose covering. The spots are more distinct, and the underside of the body and the sides are white with this covering.

Measurements: Adult females. Length of body, 3 mm.; width, 2 mm. Length of antennal segments, I, .09; II, .09; III, .35; IV, .154; V, .198; spur, .198 mm. Spur tapers into joint so that it is not distinct from segment. Total length, 1.08 mm.; length of cauda, .27 mm. Nectaries small, cone-shaped, with chitinous ring at opening. Body, antennae and legs bearing long hairs.

*Spring migrant*.—Found on twigs, on underside, and causing bluish colour intermixed with white flocculent castings of Aphids.

General colour; head black; rest of body dark green but whitish in appearance from flocculence which covers body and legs. Legs and antennae light brown with dark joints, tarsi dark to black. Antennae slender and apparently without sensoria except one large one at the distal end of the fifth segment. Third segment the longest and about equal to four and five in length. Nectaries cone-shaped, placed on the side of the body and much larger than those of the apterous forms. Fore wings with the median vein and branches indistinct, present as a mere outline. Hind wings with normal venation of two oblique veins.

Measurements: Length of body, 2.1 mm.; width, 0.9 mm. Length of antennal segments, I, .066; II, .09; III, .44; IV, .176; V, .22; VI and