

Bombus pleuralis (Nyl.) Franklin.

Bombus pleuralis Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 361.

MALE. Head and thorax clothed with yellow pile; a few black hairs on the inner and outer margins of the eyes and around the ocelli and a well-defined black interalar band. Abdomen with segments 1 and 2 yellow; segments 3 and 4 bright red, with a few black hairs at the bases of the segments in one specimen; segments 5 to 7 black, a few red hairs on segment 5; venter mostly pale yellow. Length, 13-14 mm.

WORKER. Head black with a small patch of yellow between the antennae and extending above them, and another on the vertex. Thorax yellow with a well-defined black interalar band. Abdomen: segments 1 and 2 yellow with, in three specimens, a few dark hairs in the middle, segments 3 and 4 red, 5 and 6 variable. Length, 10-12 mm.

Two males from Nome, Alaska, August 24-25, 1916 (F. Johansen); four workers, Nome, Alaska, August 24-25, 1916 (F. Johansen).

This is Franklin's "colour variant" of *pleuralis*. In the red band on the abdomen it approaches *flavifrons* Cr. and *centralis* Cr. but is distinguished therefrom by the clear black interalar band and the weak yellow on the face. However, extensive collecting of the three forms in Western Canada by the writer shows that *flavifrons* and *centralis* are merely varieties of *pleuralis*. The name *pleuralis* is applied by Vogt to one of the forms of the *Kirbyellus* group.

Bombus frigidus, Smith.

Bombus frigidus, Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 360.

MALE. Head and thorax pale yellow, a few black hairs around the margins of the eyes, the insertion of the antennae and the ocelli, and a well-defined black interalar band. Abdomen: segments 1 and 2 pale yellow, segments 3, 4 and base of 5 black. Apex of 5 and remaining segments dingy white with a ferruginous tinge, evidently faded. Length, 12½ mm.

WORKER. Face black, vertex pale yellow. Thorax pale yellow with a broad black interalar band. Abdomen: segments 1 and 2 pale yellow, segment 3, and base of 4, black; apex of segment 4 and remaining segments pale ferruginous. Length, 10-11 mm.

One male, Nome, Alaska, August 24, 25, 1916 (F. Johansen); two workers, Nome, Alaska, August 24, 25, 1916 (F. Johansen). (The Canadian National Collection contains a worker of *Bombus mixtus* Cr. taken in the Porcupine Mountain district, Yukon Territory, on June 15, 1912, by D. D. Cairnes.)

Terrestris Group.

Terrestris Group, Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 261.

Distinguishable from the other groups by its broad face, very short malar space, less than one-fifth as long as the eye, and the very different genitalia of the males.

Bombus lucorum, L., variety **moderatus** Cr.

Bombus terrestris, var. *moderatus* Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 262.

WORKER.—Head black; thorax black, with an anterior pale yellow band. Abdomen: segment 1 black, pale yellow at the sides; segment 2 pale yellow, segment 3 and base of segment 4 black; apex of segment 4 and segments 5 and 6 white. Length, 12 mm.