

Bombus kirbyellus (Curtis) Franklin.

Bombus kirbyellus, Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 291.

MALE.—Eighth ventral segment of abdomen (inner spatha) tridentate (see figure). Hair colour pale yellow; black between the antennae, on the inner margins of the eyes, on the outer margins of the eyes and on the third segment of the abdomen; there is an indistinct black band on the thorax between the wings but this is partly bleached, and the fourth to the seventh segments of the abdomen are pale red; on the underside the hairs are long, and almost white. Length, about 15 mm.

WORKER.—Hair on head black, on thorax black with a yellow band before and behind, pleura pale yellow. Abdomen; segments 1 and 2 yellow, segment 3 black, segments 4 to 6 dull red; underside with white hairs; legs with long largely pale hairs.

Two males, Nome, Alaska, August 21 to 25, 1916 (F. Johansen); one worker, Nome, Alaska, August 21-25, 1916 (F. Johansen); one worker, Collinson point, Alaska, July 10, 1914 (F. Johansen); one worker, Young point, Northwest Territories, July 21, 1916 (this specimen has the hairs on the legs and underside black).

Specimens of *B. kirbyellus* in the Canadian National Collection include a queen from Bartlett bay, Alaska (lat. 58°26', long. 135°53'), 1907 (D. H. Nelles), two from Fullerton, Northwest Territories, July, 1901 (A. Halkett), one from Nottingham island, Hudson strait, 1886 (J. McKenzie), and one from cape Chudleigh, Hudson strait; a worker from Laggan, Alta. (J. Fletcher), and males from Banff, Alta. (N. Sanson).

Bombus polaris (Curtis) Franklin.

Bombus polaris Franklin, Trans. Amer. Ent. Soc. XXXVIII, p. 299.

MALE.—Eighth ventral segment tapering to a blunt point, its side margins deeply incurved (see figure). Hairs on head black with more or less pale yellow on clypeus and vertex. Thorax pale yellow with indistinct interalar black band. Abdomen; basal portion pale yellow, apical portion pale red, with more or less black on the middle portion. Hairs on underside and legs pale with more or less black. Length, 11 to 15 mm.

QUEEN AND WORKER.—Head hairs black. Thorax black, with a broad yellow band in front and a narrower one behind, pleura yellow, lower part black. Abdomen with segments 1, 2 and 3 yellow; segment 4 black; segments 5 and 6 red. Length, queen 16 to 19 mm., workers 11 to 13 mm.

Two males from Nome, Alaska, August 24-25, 1916 (F. Johansen); one queen from west of Collinson point, Alaska, June 11, 1914 (E. deK. Leflingwell); one worker from Kamarkok, west of Herschel island, Yukon Territory, August 3, 1916, and one from Herschel island, near end of July, 1916 (F. Johansen) one queen from Bernard harbour, Northwest Territories, July 2, 1915; two males from Bernard harbour, July 10, 1916 (F. Johansen). The males from Bernard harbour have the coat bleached to a considerable extent, one of them has no black hairs on the abdomen. The queen from Collinson point differs from the description in having segment 3 partly black and segment 4 red.