

## NOTES ON SOME CANADIAN BEES

BY J. C. CRAWFORD, WASHINGTON, D. C.

The specimens here recorded are part of a collection made at Medicine Hat, Alberta, by Mr. J. R. Malloch, between September 1st and October 15th, 1911. Other species of bees, which have not been studied, were also collected.

*Agapostemon viridulus* Fabr.—2♂.

*Bombus huntii* Greene.—1♂, 1♀.

*Calliopsis coloradensis* Cress.—6♂, 1♀.

*Diadasia diminuta* Cress.—1♂.

*Dialictus anomalus* Robt.—3♂, 1♀.

*Halictoides marginatus* Cress.—2♂, 2♀.

*Halictus aberrans* Cwfd.—1♂, 2♀.

*Halictus lerouxii* Lep.—8♂, 4♀.

*Halictus provancheri* D.T.—3♂, 1♀.

*Halictus pruiniformis* Cwfd.—5♂, 4♀.

*Halictus pruinus* Robt.—3♂.

*Neopasites illinoensis* Robt.—1♂, 2♀.

*Panurginus innuptus* Ckll.—1♂, 1♀.

*Perdita cockerelli* Cwfd.—2♂, 1♀.

*Perdita citrinella* Gräenicher—1♂, 2♀. Both the females have the hind tibiae darkened. In one female the first recurrent vein is interstitial; in the other it is received by the first submarginal cell as in a paratype of the species.

*Sphecodes minor* Robt.—2♀.

*Phileremulus mallochi*, new species.—Male: Length, 3 mm; head and thorax black, closely punctured (but the sculpture concealed by the pubescence), closely covered with white appressed pubescence, that on the dorsum of the thorax slightly tinged with yellowish; abdomen red, disks of segments 4–6 more or less suffused with dusky; apical margins of segments 1–6 with bands of white appressed pubescence, disk of first segment with similar pubescence; labrum and mandibles, except the reddish tips, testaceous; scape and pedicel black, rest of the antennae reddish; axillae produced, tooth-like; tegulae dark, the outer edge at middle obscurely reddish; scutellum bilobate at apex; metanotum medially strongly produced into a bilobate process; propodeum with a roughened basal triangular area without pubescence and with a strong median longitudinal carina; wings hyaline, marginal cell squarely truncate at apex; submarginal cell appendiculate at apex, receiving the recurrent vein slightly apicad of the middle; femora dark, tibiae and tarsi yellowish more or less suffused with dusky and the apical joints of the tarsi dark; abdomen rugoso-punctate.

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