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## Some Bees From Western Canada

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## SOME BEES FROM WESTERN CANADA.

BY T. D. A. COCKERELL, UNIVERSITY OF COLORADO.

I am indebted to Dr. C. Gordon Hewitt for the loan of a small collection of bees obtained by Mr. T. N. Willing, of Regina, Saskatchewan. Although the number of species is not large, several are new to the Canadian fauna, or otherwise of interest. It is in this region that the arid transition zone enters Canada, and consequently, any one who will collect diligently there is sure to find a considerable number of species not otherwise known as Canadian. I have omitted from the list three species of *Andrena*, two from Regina and one from Mortlach. I do not recognize these at once, and it may be that some or all are new, but it does not seem worth while to spend time on them until Mr. Viereck's paper on the genus has been published.

*Colletes salicicola geranii* Ckll.—1 ♂, Pincher, Alta., July 10, 1904.

*Halictus lerouxii ruborum* Ckll.—♀, Mortlach, Sask., May 31.

*Halictus trizonatus* Cress.—♀, Mortlach, May 31.

*Agapostemon texanus* Cress.—♀, Mortlach, May 31, 1909.

*Andrena cockerelli* Græn.—♀, Lipton, Sask., June 5, 1907.

*Halictoides maurus* Cress.—♀, Kinistino, Sask., July 26, 1907.

*Coelioxys ribis* Ckll.—♂, Prince Albert, Sask., July 27, 1907. Like the male of *C. ribis kincaidi*, but hair a purer white, and scutellum subangulate in middle, with the lateral teeth short as in *ribis* ♀.

*Osmia novomexicana* Ckll.—Medicine Hat, Alta., one ♀, May 30, 1904.

*Anthidium tenuifloræ* Ckll.—♀, Radisson, July 29, 1907; ♂, Suks-town, July 18, 1909.

*Megachile calogaster* Ckll.—♀, Meota, Sask., July 8, 1906; ♀, Swarthmore, July 15, 1910; ♂, Macleod, July 2, 1904.

*Megachile manifesta* Cress.—♂, Davidson, Aug. 21, 1907.

*Megachile (Sayaphis) pugnata* Say.—♂, Radisson, July 29.

*Megachile (Anthemois) infragilis* Cress.—♂, Regina, July 11, 1909. A form with the light hair yellowish-white. Anterior coxæ with no spines.

*Megachile relativa* Cress.—Four ♀'s, three from Regina, Aug. 24, Sept. 4 and 7, one from Davidson, Aug. 21. Peculiar for having the hair on last dorsal abdominal segment partly or mainly black instead of orange.

*Megachile latimanus* Say.—♀, Regina, Aug. 15.

*Melissodes confusa* Cress.—Males from Meota, Sask., July 8; Macleod, July 8; Radisson, July 29; Prince Albert, July 28.

*Tetralonia medicata*, n. sp.—♀, Medicine Hat, Alberta, May 30, 1904. Length, about  $14\frac{1}{2}$  mm.; like *T. atriventris* Sm., but pygidial plate narrower (as in *fuscipes* Rob., from Washington, D. C.); hair of head (except occiput), of pleura and under part of thorax, *all black*, of thorax above creamy white; hair of legs black, or nearly, except on inner side of anterior and middle tibiae and anterior tarsi, where it is reddish, on middle tarsi, where it is red, brilliant on inner side, and the scope of hind legs, which is golden red; clypeus coarsely, irregularly punctured, with a median ridge; mesothorax dull, finely granular; mandibles with an orange patch; wings not so brown as in *atriventris* or *fuscipes*; abdomen without bands.

When working on this species, I had occasion to examine a cotype of Cresson's *Melissodes dubitata*. The specimen, which agrees excellently with the description, shows that *dubitata* is not *Tetralonia atriventris*, as has been supposed, but is a valid species of true *Melissodes*. It is readily distinguished from *T. atriventris* by the clypeal structure and sculpture (punctures very dense) and the shining mesothorax.

*Anthophora bomboides Willingi*, n. subsp.—♂, Prince Albert, Sask., June 18, 1905. Rather small; pale hair wholly dull white; middle of thorax with a small amount of black hair; first *two* abdominal segments with pale hair (first *three* in true *bomboides*); sides of second segment posteriorly with black; third and following with black hair; scape with a small light spot; clypeus yellow, except a crescent-shaped black mark on each side, the convexity inward, and the lower inferior corners broadly; *lateral marks reduced to narrow stripes contiguous with the black part of clypeus*; labrum yellow, except lateral and apical margins, and the usual lateral spots. Proportions of antennal joints, venation, toothed hind basitarsi, etc., normal.

#### A DECISION ON MEIGEN'S 1800 PAPER.

BY J. M. ALDRICH, MOSCOW, IDAHO.

In the CANADIAN ENTOMOLOGIST of October, 1908 (pp. 370-373), I published a discussion of this paper of Meigen's, to which I added a brief item the next month (p. 432). Some time afterward, learning that the International Commission on Zoological Nomenclature was accepting certain nomenclatural questions for consideration, expecting to render opinions on them, I sent to Dr. Charles Wardell Stiles, secretary of the Commission, copies of what I had published on the Meigen paper, and asked him to have the question taken up by the Commission. I did not precisely specify the question to be considered, but simply gave him my

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