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New Species of Andrena from Kansas

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NEW SPECIES OF *ANDRENA* FROM KANSAS.

By T. D. A. COCKERELL, New Mexico Agricultural College.

Andrena kansensis, n. sp.—♂. Baldwin, Kansas, April. (J. C. Bridwell.) Two.

Andrena bridwelli, n. sp.—♂. Baldwin, Kansas, April. (Bridwell.) Two. Also one from Hartford, Connecticut, April 30, 1893. (S. N. Dunning.) I formerly thought this a variety of *A. cressoni*.

Andrena cragini, n. sp.—♂. Baldwin, Kansas, August. (Bridwell.) One. Named after Prof. F. W. Cragin, who published a list of Hymenoptera, which he collected in Barber Co., Kansas.

These species will be best identified by means of the following table:

Male Andrenæ of North America, with the abdomen not ferruginous, and the clypeus and lateral face-marks yellow or white.

Abdomen of the tessellate and hardly or not punctured type 1.
Abdomen distinctly punctured 4.

1. Very small, not over 6 millim. long, face marks whitish *personata* Rob.

- Larger, between 7 and 9 millim., face-marks yellow or yellowish 2.
2. Late summer and autumn species, lateral face-marks only a spot 3.
- Vernal species, lateral face-marks triangular. Length about $8\frac{1}{2}$ millim.; pubescence dull white, long and quite abundant, on abdomen thin but conspicuous, not forming bands; only two submarginal cells; sixth ventral abdominal segment with a projecting point on each side (*Parandrena*) *andrenoides* Cress.
3. Thorax with sparse, feeble punctures, its pubescence dirty white; sixth ventral segment of abdomen normal. *asteris* Rob.
- Thorax minutely tessellate, with very strong, quite numerous punctures, its pubescence pale ferruginous; sixth ventral segment of abdomen with the apical margin broadly reflexed. Length 8 millim., black, the pubescence pale ferruginous, or reddish-ochreous; facial quadrangle about square; clypeus with strong, well-separated punctures; front very densely striate-punctate; flagellum, except the first joint, dull ferruginous beneath; clypeus bright lemon-yellow, with two conspicuous black spots; lateral marks reduced to small round yellow spots; process of labrum broad, truncate, with a shallow emargination; enclosure of metathorax granular, hardly defined; tegulae shining brown; wings dusky, stigma and nervures ferruginous; tarsi dark, but inclined to ferruginous; abdomen rather shiny, more distinctly punctate than usual in the group; hind margins of the second and following segments with pale ochreous hair-bands *cragini* Kll., n. sp.
4. Clypeus only partly yellow; autumnal species . . . 5.
- Clypeus light, except the usual dots; vernal species . . . 6.
5. Sides of clypeus black, wings dusky at apex, first two abdominal segments with orange fulvous bands.
- aliciarum* Kll.
- Anterior margin of clypeus broadly black, wings clear.
- pulchella* Rob.

6. Face-markings lemon-yellow 7.
 Face-markings cream-color 9.
7. Lateral face-marks in the form of a square, with the lower inner angle cut off by the clypeus, the upper side straight and about level with the lower edge of the antennal sockets, forming a right angle with the orbital margin 8.
- Lateral face-marks forming a nearly equilateral triangle, the upper angle about level with the top of the clypeus; pubescence dull white; flagellum dark; process of labrum truncate, but the edge concave; stigma and nervures bright orange-fulvous; apex of abdomen beneath a little brush of dark hair, present also in *cressoni*. All else as in *cressoni*. . . . *bridwelli* Ckll., n. sp.
- . Pubescence dull white *cressoni* Rob.
- Pubescence orange-fulvous; all the tarsi, and the hind tibiae, except a suffused spot within, bright ferruginous; femora and first four tibiae black; process of labrum with a concave truncation; antennae dark; sometimes a small yellow supra-clypeal patch; wings a little dusky at tips, stigma and nervures bright orange fulvous; other characters as in *cressoni*. . . *kanseensis*, Ckll., n. sp.
9. Length 12 millim.; flies in June . . . *rudbeckiae*, Rob.
 Not over 8 millim.; fly in March and April . . 10.
10. Larger; flagellum dark . . *capricornis* Casad and Ckll.
 Smaller (6 millim.), flagellum ferruginous beneath.
primulifrons Casad.

Mr. Bridwell also sent an example of *Calliopsis verbenæ* Ckll. and Porter, ined., collected at Baldwin, Kansas, in July. This species, the type locality of which is Las Vegas, N. M., is allied to *C. andreniformis*, but differs in the face-marks (♀) as follows: Clypeus strongly but not closely punctured, shining, black, with the anterior margin broadly white; no supra-clypeal mark; lateral white marks triangular, with the inner angle cut off, the upper angle not reaching the level of the antennae; labrum with a transverse light mark.