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The Bees of Kansas

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Recommended Citation

Cockerell, T. D. A., "The Bees of Kansas" (1899). Ca. Paper 255.
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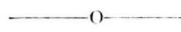
ENTOMOLOGICAL NEWS.

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after part of the day they may be found resting on the tips of reeds or sticks in the vicinity of water. When the collector approaches they flit away, but in case no effort is made to capture them they come to rest again on the same perch. I have seen an individual duplicate this performance no less than four times.

I have before me at the present time four specimens from Akron, Ohio, taken by myself on June 23 and July 20, 1898; and two specimens from Indiana, taken by E. B. Williamson. Chas. Dury has taken the species at Cincinnati, Ohio.

The accompanying drawings will explain themselves. They represent the right wings of six different specimens. I made them to show the variation in the outline of the dark markings. I have never seen two specimens exactly alike in this respect.



THE BEES OF KANSAS.

By T. D. A. COCKERELL, N. M. Agr. Exp. Sta.

The bee fauna of New Mexico and Illinois are fairly well known, and have very few species in common. It is interesting to ask, where do the eastern types find their extreme western limit, and at what points do they give way to those of the West and South? With these questions in mind, any information about the bee-fauna of Kansas is particularly welcome; and I have been very glad to learn from Mr. J. C. Bridwell, of Baldwin, that he is about to make a study of the bees of his region.

Baldwin is in Douglas county, at the eastern end of the State. A box of bees collected at that place has just been received from Mr. Bridwell, and the species, so far as I have determined them, are the following:

Bombus virginicus, Oliv., *B. separatus*, Cress., *B. pennsylvanicus*, Deg., *Anthophora abrupta*, Say, *Synhalonia frater*, Cress., *Melissodes bimaculata*, Lep., *M. obliqua*, Say, *M. perplexa*, Cress., *Epoclus bifasciatus*, Cress., *Calliopsis andreniformis*, Smith, *Prolandrena cockerelli*, Dunning, *Prosapis pygmaea*, Cress., *Sphecodes mandibularis*, Cress., *Augochlora humeralis*, Patton, *A. viridula*, Smith, *A. similis*, Rob., *A. confusa*, Rob., *Halictus parvulus*, Say, *H. ligatus*, Say, *H. fasciatus*, Nyl., *Andrena maria*, Rob., *A. erythrogaster*, Ashm., *A. vicina*, Smith, *A. salicinella*,

Hymenoptera - apoidea - (list of species)

Ckll., *A. geranii*, Rob., *A. claytoniae*, Rob., *A. say*, Rob., and also an *Halictus* which might be *forbesi*, Rob., but for its dark wings.

This list shows that the Baldwin bee-fauna is essentially the same as that of Southern Illinois. There are two western types only: *Andrena salicinella*, hitherto only known from New Mexico, and the *Protandrena*, a Kansas species of a western genus. It is to be remarked that Mr. Baldwin sends both sexes of *Protandrena cockerelli*, the species being hitherto known only by a single ♀ from Topeka. The ♂ is practically identical with that of *P. asclepiadis*, Ckll., of which the ♀ is unknown; but it does not necessarily follow that *cockerelli* is a synonym of *asclepiadis*, since *mexicanorum*, the ♀ of which is quite distinct from *cockerelli*, has also a nearly identical ♂.

It is worth while to remark that *Andrena claytoniae* is so like *A. hippotes* that they would certainly be confused by one not specially looking for the differential marks, the best of which is in the shape of the process of the labrum.

From Northwestern Kansas we have a list of bees collected by Dr. Williston, and recorded by Mr. Patton in Bull. U. S. Geol. Surv., Vol. V. The species are *Colletes armata*, Patt., *Augochlora humeralis*, Patt., *Nomia nortoni*, Cress., *Halictus parallelus*, Say (*occidentalis*, Cress.), *Calliopsis coloradensis*, Cress., *Epeolus occidentalis*, Cress., *Nomada texana*, Cress., *Bombus pennsylvanicus*, Deg., *B. scutellaris*, Cress. This is a mixture of Eastern and Colorado types.

From Barber county, in Southern Central Kansas, bordering on Oklahoma, we have a list of species collected by Prof. Cragin, published in Bull. Washburn College Lab. of Nat. Hist. (1885). The species are *Bombus pennsylvanicus*, Deg., *B. scutellaris*, Cress., *Anthophora occidentalis*, Cress., *A. smithii*, Cress., *Synhalonia albata*, Cress., *Melissodes menuacha*, Cress., *M. atripes*, Cress., *Centris lanosa*, Cress., *Melecta interrupta*, Cress., *Nomia nortoni*, Cress., *Agapostemon radiatus*, Say (*tricolor* Lep.), *Augochlora viridula*, Sm. (*lucidula*, Sm.), *Pseudopanurgus athiops*, Cress.

This list is very different from the others, and nearly agrees with the fauna of Central Texas. The *Centris* is quite a Mexican type. There are other Kansas bee-records, but without precise localities, so it is not worth while to enumerate them.

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