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Contributions to the Entomology of New Mexico

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CONTRIBUTIONS TO THE ENTOMOLOGY OF NEW MEXICO.

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I. A CATALOGUE OF THE FOSSORIAL HYMENOPTERA OF NEW MEXICO.

Mutillidæ.

This family is at present being revised by Mr. Fox, who will treat of several new or little-known species found in New Mexico, but here omitted.


*Ephuta virguncula*, Blake, is reported from New Mexico; *E. californica*, Rad., *E. bioculata*, Cress., and *E. fulvohirma*, Cress., were taken by Dr. S. Lewis in 1867.

*E. bexar*, Blake — Continental Divide, Tenaja and Chaves (Townsend).

*E. occidentalis*, L. — Continental Divide, Tenaja (Townsend).

*E. macra*, Cress., det. Fox — Chaves, one ☉ (Townsend).


*E. agina*, Cress., det. Fox — Santa Fé, August (Edw. L'Engle). I think this Santa Fé insect should be called *E. bellona*, Cress., of which *agina* is probably a variety.

*E. townsendi*, Ckll. — Mr. Fox has referred to this species a specimen from Santa Fé (*V. Boyle*), and as a variety, one from Albuquerque, June 30 (Ckll.). They seemed to me hardly typical of *townsendi*.

E. propinqua, Cress., det. Fox — La Tenaja near Santa Fé, Aug., 1895 (Myrtle Boyle).

E. snoworum, Ckll. & Fox — Albuquerque (Snow).

E. coccineohirta, Blake, det. Fox — Santa Fé, Aug. 5; and rather common in the Mesilla Valley. The specimens are not typical in coloration.

E. creusa, Cress — Mesilla Valley, rather common.

E. gloriosa subsp. pseudopappus, Ckll.— Not rare in the Mesilla Valley. Grant County (Howard).

E. gorgon, Blake — Mesilla Park, not rare.

E. scevolella, Ckll. & Casad — Mesilla Valley, rare.

E. foxi, Ckll.— Very common in Mesilla. The female was described as S. heterosohroa, Ckll. & Casad, and is found with males which differ only a little, and that in color, from the original males of foxi from Mexico.

E. marpesia, Blake — Las Cruces, rare.

E. orcus, Cress.— Very common in the Mesilla Valley.

E. mixtura, Blake, det. Fox — Mesilla Park, on campus of Agricultural College, Sept. 16.

E. doneance, Ckll. & Fox — Mesilla Valley, rather common.

E. vesta, Cress., det. Fox — Mesilla, Sept. 3.

Chyphotes elevatus, Blake — Santa Fé.

C. picus, Ckll.— Santa Fé and Mesilla Valley. Perhaps the ♂ of elevatus.

C. helfragei, Blake, and var. melaniceps, Blake — Mesilla Valley.

C. peculiarius, Cress. (mirabilis, Ckll.) — Mesilla Park.

Photopsis territus, Ckll., P. nubecula, Cress., P. astyanax, Blake, P. concolor, Cress., P. danaus, Blake, P. clara, Blake, var. P. tapajos, Blake, and P. mesillensis, Ckll., all come to light in the Mesilla Valley. The last two were taken at Mesilla.

P. nokomis, Blake, det. Fox — Santa Fé.


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PHIANTHIDÆ.

*Philanthus ventilabris* var. *frontalis*, Cress., and *P. henricus*, Dunn, were taken by Townsend on the Gila River.


*E. punctatus*, Say, var. *cockerelli*, Dunn.—Common in the Mesilla Valley. At Rincon, July 5, at flowers of *Chilopsis linearis*, I took a form with rufous femora. This same form, which may be named *f. chilopsidis*, also occurred in Las Cruces, June 5, at flowers of *Chilopsis linearis*, one ♀. Another ♀, taken with the last-mentioned, has the femora basally black and apically rufescent.

*P. pacificus*, Cress.—Mesilla Valley, not rare.

*P. anna*, Dunn.—Mesilla Valley. The specimen so referred by Dunning, from Las Cruces, was perhaps *multimaculatus*.

*P. multimaculatus*, Cam.—Mesilla Valley, rather rare.

*P. cleoma*, Dunn.—Mesilla Valley; campus of Agricultural College, Sept. 5, on *Isocoma wrightii*.

*P. gloriosus*, Cress.—Mesilla Park, Oct. 11, 1893. (Agnes Williams.)

*P. scelestus*, Cress., det. Dunn.—Santa Fé, Aug. 5.

*P. psyche*, Dunn.—Mesilla Valley.

*P. albopilosus*, Cress., det. Fox — Las Cruces, Aug. 24, on *Solidago canadensis subsp. arizonica*.

*Aphilanthops quadrinotatus*, Ashm., *A. taurulus*, Ckll., and *A. lati­ cinctus*, Cress., occurs in the Mesilla Valley. The second is found also at Rincon, and the third at Santa Fé.

*A. concinnulus*, Ckll.—Rincon Mr. Dunning has referred the ♀ of this to *utahensis*, Baker, but I feel certain it is distinct, and belongs with the males found associated with it.

*Eucerceris zonatus*, Say — Las Cruces (*Townsend*).

*E. canaliculatus*, Say — Las Cruces (*Townsend*).

*E. montanus*, Cress.—Las Cruces (*Townsend*).

*E. vittatifrons*, Cress., var. *tricolor*, Ckll., was described from the Mesilla Valley.

*E. fulviceps*, Cress., was described from New Mexico.

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Cerceris acanthophilus, Ckll.—Mesilla Valley; Deming. Mr. Fox formerly referred a Mesilla Valley example to C. finitima, Cress., but it was probably acanthophilus.

C. venator, Cress.—Las Cruces and El Rito (Townsend).

C. bicornuta, Guér.—Recorded by Townsend from Vega S. José.

C. frontata, Say—Vega S. José (Townsend).

Some other N. M. Philanthidæ still await study.

Bembecidæ.

Sphecius speciosus var. grandis, Say—Common in the Mesilla Valley.

Stizus flavus, Cam., var. subalpinus, n. var.—♂. Differs from the type, as described by Cameron, by having the fuscous pubescence of the head and thorax paler and scant, in fact scarcely noticeable, and the black markings much reduced, so that the abdomen may even become immaculate yellow above; while the hind tibia has no black streak.

Hab.—Santa Fé, N. M., at flowers of an unbellifer in July. (Ckll.)


Bembidula capnoptera, Handl., var. mesillensis, n. var.—♂. Legs black and yellow, instead of ferruginous, the black including much of the basal halves of the femora, the tibiae and tarsi wholly yellow. Wings with a strong fuscous stain immediately basad of the marginal cell, suffused in all directions, but otherwise nearly clear.

Hab.—Las Cruces, N. M., probably collected by Prof. C. H. T. Townsend.

B. variegata, Oliv.—Fox reports a specimen in Coll. Ashmead, from Albuquerque. It was doubtless collected by Wickham, though this is not stated.


B. spinoleæ, Lep.—Santa Fé, July 10. (Boyle); det. Fox.

Microbembex monodonta, Say—Common in the Mesilla Valley; also taken at Albuquerque.

Monedula pulchella, Cress., det. Fox—Las Cruces, June 13, preying on Lycana marina, Reak.


Steniolia duplicata Prov.—Common in the Mesilla Valley.
Nyssonidæ.

*Nysson texanus*, Cress., is common, and *N. solani*, Ckll., rare, in the Mesilla Valley.

*Gorytes pygidialis*, Fox, *G. bigelovia*, Ckll. & Fox, and *G. crucis*, Ckll. & Fox, were described from the Mesilla Valley.

*G. propinquus*, Cress., and *G. tricolor*, Cress., were described from specimens collected by Dr. S. Lewis in northern New Mexico in 1867. I have taken *G. tricolor* at La Junta, Colorado.

*G. venustus*, Cress.—Santa Fé, see Bull. 15, N. M. Agr. Exp. Sta., p. 63.


*G. bipunctatus*, Say, det. Fox—Common in the Mesilla Valley. Once at Santa Fé, on a hop vine.

*G. hamatus*, Handl.—One (det. Fox) coll. by Elgin Holt at Las Cruces, May, 1896.

*G. eximius*, Prov., det Fox—*On Bigelovia* in the Mesilla Valley.


*G. phaleratus*, Say—Mesilla, June 7, etc.

Larridæ.

*Trypoxylon texense*, Sauss., and what I take to be *T. tridentatum*, Pack., occur in the Mesilla Valley, the former being very common. *T. texense* was found also at Vega S. José (Townsend).

*Notogonia argentata*, Bve., is common in the Mesilla Valley.

*Ancistromma chilopsidis*, Ckll. & Fox, was described from Rincon; *A. rugosa*, Fox, is reported from New Mexico, but the locality of capture is unknown. It was probably taken by Wickham.

*Tachytes distinctus*, Sm.—Common in the Mesilla Valley.

*T. exornatus*, Fox—Mesilla Valley; also at Colora'0, near Rincon.

*T. spatulatus*, Fox—Santa Fé, see Bull. 15, N. M. Agr. Exp. Sta., p. 74.

*T. fulviventris*, Cress., is recorded by Townsend from Chaves and Sabinal; and *T. abdominalis*, Say, was taken by Dr. S. Lewis in 1867.

*Tachysphex amplus*, Fox, is recorded by Fox vaguely from "New Mexico."
P. parvus, Fox — The type specimen was taken at Las Cruces early in September.

P. propinquus, Fox, var. rufescens, n. var. — Basal portion of abdomen suffused with reddish. Santa Fé, N. M., Aug. 8 (Myrtle Boyle).

Astatus bigeloviae, Ckll. & Fox, was described from the Mesilla Valley.

A. nevadicus, Cress. — Santa Fé, July 28, 1895. Mesilla, on Solanum elaagnifolium, Aug. 25, 1896. The Mesilla insect I thought distinct, but Mr. Fox refers it to nevadicus.


A. bicolor, Say, det. Fox — Mesilla Valley (Clarence Rhodes); also Santa Fé.

A. bellus, Cress., det. Fox — Mesilla Valley, on Bigelovia.

A. nubeculus, var. nigropilosus, Cress., det. Fox — Mesilla Valley.

A. asper, Fox, det. Fox — Mesilla Valley (Clarence Rhodes).

Miscophinus arenarum (Ckll.) — Mesilla Park.

Sapygidae.


Scoliidae.

Tiphia — We have one or more species, not yet studied.

Paratiphia aibilabris, Lep. — Common in the Mesilla Valley; also taken at Albuquerque.

Myzine frontalis, Cress. MS., det. Fox — Rincon and the Mesilla Valley. This is a ♀ Myzine about 13 mm. long, black and yellow, with hyaline wings. Legs black, hind tibiae slightly rufescent; abdomen shiny; thorax with yellow marks; head above with a black triangle enclosed in a yellow one.

M. confluentes, Cress., det. Fox — Rincon, July 6, on Baccharis.
M. hamata, Say, det. Fox — Colora'o, near Rincon, July 11, at flowers of Koeberlinia spinosa, Zucc.

M. hyalina, Cress. — Common in the Mesilla Valley; on June 14, I found the males flying in a swarm, in great numbers.

Scolia flavocostalis, Cress., and S. lecontei, Cress., were taken by Dr. S. Lewis in 1867.

S. lecontei, Cress., S. dubia, Say, and S. dubia, var. hamatodes, Burm., are recorded by Townsend from Vega S. José.

S. ridingsii, Cress., det. Ashm., was taken behind the Agricultural College, Mesilla Valley, June 27, on mesquite.

We have also two doubtful species of Scolia; one, from Lone Mountain, is called by Mr. Fox S. costata, but I find no such name in the catalogues; the other, from the Mesilla Valley, is stated by Mr. Fox to be near S. consors.

Eris xantiana, Sauss., and E. zonaria, Cress., were taken by Dr. S. Lewis. The former is not uncommon in the Mesilla Valley.

E. plumipes, Drury, has been taken by Townsend in the Mesilla Valley. I have also an Albuquerque specimen, received years ago from Mr. Ashmead; it was probably collected by Prof. Wickham. I took a specimen at Bernalillo early in July.

Pompilidae.

Pompilus aethiops, Cress.—Recorded by Townsend from Vega S. José.

P. ferrugineus, Say — Recorded by Townsend from the Gila River.

P. marginatus, Say, det. Fox — Rincon, July 5.

P. porus, Fox, det. Fox — Las Cruces, June 5, on Chilopsis linearis.

A species of Lower California, now first reported from the U. S.

P. relativus, Fox, det. Fox — Las Cruces, July and August.

P. torridus, Smith, det. Fox — Las Cruces, July 12. A Mexican species, now first reported from the U. S.

P. parvus, Cress. (?), var., det. Fox — Mesilla, Oct. 29. Blue-black, 9 mm. long; abdomen quite bluish; upper wings fuliginous, lower wings hyaline except the ends.

Aporus fasciatus, Smith, det. Fox — Mesilla Park, April.

I have also taken a doubtfully new Aporus in the Mesilla Valley.
Priocnemis terminatus, Say, det. Fox — Albuquerque, June 30.

Ceropales fulvipes, Cress. — Collected by Townsend in the Mesilla Valley.

C. fraterna, subsp. occidentalis, Ckll. — Ruidoso, about 6500 ft. (Townsend).

Pepsis formosa, Say — Common in the Mesilla Valley. The females agree with formosa, but the males are P. chrysothemis, R. Lucas. Some specimens (♂♀) taken by Prof. Townsend at Las Cruces have the wing-coloring of P. nephele, R. Luc., which should be known as P. formosa var. nephele. The P. formosa of Lucas, distinct by the characters of the ♂ abdomen (See Fox's table, Proc. Ent. Soc. Wash., IV., 142), is apparently not known from the region whence came Say's type, being more southern in its distribution. It may be called P. pseudoformosa.

Mixed with the males of P. formosa, I find I have a Mygnimia (presumably M. ustulata, Dahlb.) looking exactly like them. It was taken at Las Cruces by Prof. Townsend.

Sphecidae.

Ammophila wrightii, Cress., and A. varipes, Cress., were collected by Dr. S. Lewis in 1867.

A. argentifrons, Cress., is not uncommon at Santa Fé.

A. communis, Cress., det Fox — Gila River (Townsend).


A. pictipennis, Walsh, det. Fox — Las Cruces.

A. pruinosa, Cress., det. Fox — Common in the Mesilla Valley; taken at flowers of Solanum elaeagnifolium, Aster spinosus, Chrysanthemum (cult.), Melilotus indica and Bigelovia or Isocoma heterophylla var. wrightii.


A. vulgaris, Cress. (?), det. Fox — Las Cruces, June.

A. ferruginosa, Cress. — Mesilla Valley.

A. sp. incert., det. Fox — Las Cruces, July 12. About 28 mm. long, abdomen red with a black dorsal patch, legs red.
Pelopæus servillei, Lep.—Mesilla Valley, very abundant. Also at El Rito (Townsend) and Albuquerque (Ckll.).

Sphex ichneumonea, L.—Santa Fé (Ckll.), Vega S. José (Townsend), El Rito (Townsend).

S. belfragei, Cress.—Las Cruces, June 9.

S. nearcticus, Kohl—Common in the Mesilla Valley.

S. caruleus, L.—Vega S. José, according to Townsend.

S. occultus, Kohl—Vega S. José and El Rito (Townsend).

Priononyx thomae, Fabr., was taken by Dr. S. Lewis.

P. atrata, Lep., is common at Santa Fé.

P. foveotatus, Tasch., det. Fox—Taken by Townsend in great numbers on the Gila River.

Mimesidæ.

Psen frontalis, Fox, and P. suffusus, Fox, occur in the Mesilla Valley; the latter also at Rincon.

Pemphredonidæ.

Spilomena pusilla, Say—Las Cruces, June 4.

S. foxii, Ckll.—Santa Fé.

Diodontus gillettei, Fox, det. Fox, ♂—Mesilla Park, on Sophia, March 31, 1896.

D. leguminiferus, Ckll. and Fox—Santa Fé, July 10.

D. nigritus, Fox, det. Fox—Mesilla Park, at Melilotus indica, May.

D. rugosus, Fox, det. Fox—Santa Fé, July 5, at foliage of apricot.

D. occidentalis, Fox, det. Fox—Las Cruces.

Stigmus inordinatus, Fox, det. Fox—Santa Fé, Aug. 18, in Archbishop Lamy's garden.

S. fraternus, Say, det. Ashm.—Mesilla, Aug. 29, on Isocoma wrightii.

Ammoplanus mandibularis, Ashm. MS.—Santa Fé, July 19.

A. levius, Prov., det. Ashm.—Mesilla, May; Mesilla Park, June 24. I have also taken it at El Paso, Texas. The species was described as an Anacrabro.

Passaloecus annulatus, Say—Santa Fé, July 10.

P. armeniacaæ, Ckll. & Fox—Santa Fé, July 4.
Anacrabro boerhaavii, Ckll. — Mesilla Valley.

Crabro dilectus, Cress., is recorded by Townsend from the Continental Divide, Tenaja.

C. packardii, Cress. — Ruidoso, about 6500 ft., July 21, on flowers of Cicuta occidentalis; coll. Townsend.

C. minimus, Pack., C. centralis, Cam., C. errans, Fox, C. decorus, Fox, C. salicis, Ckll., and C. abdominalis, Fox, occur in the Mesilla Valley. The record of C. minimus is based on a ♂ identified by Fox in 1893, but as the locality is not mentioned in his later revision of Crabro, there may have been some error. C. abdominalis was recognized recently by Fox in a specimen taken on Isocoma wrightii at Mesilla Park, Sept. 12. C. decorus I took at Mesilla, May 8, burrowing in a sandbank.

C. errans, Fox, also occurs at Santa Fé, in August.

C. maculiclypeus, Fox, det. Fox — Santa Fé, July 10.

Oxybelus quadricolor, Ckll. & Baker, O. trifidus, Ckll & Baker, O. quadrinotatus, Say, and var. montanus, Rob., occur at Santa Fé.

O. heterolepis, Ckll. & Baker, and var. defectus, Ckll. & Baker, O. packardii, Rob., and O. cornutus, Rob., are found at Albuquerque.