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List of Aculeate Hymenoptera

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LIST OF ACULEATE HYMENOPTERA,

Taken at Fedor, Lee County, Tex. By G. BIRKMAN.

By far the greater number of the following species were determined by Mr. William J. Fox.

Mutillidæ.—*Mutilla montivaga*, *tisiphone*, *californica*, *occidentalis*, *comanche*, *orcus*, *gorgon*, *connectens*, *brazoria*, *scævola*, *waco*, *venifica*, *mollissima*, *vesta*, *simillima*, *canco*, *4-guttata*, *4-guttata* var. *electra*, *cypris*, *mutata*, *balteola*, *præclara*, *dubitata*, *grandiceps*, *pygmæa*, *euterpe*, *auripilis*, *pennsylvanica*, *castor*, *fulvohirta*, *zelaya*, *fenestrata*, *canella*, *macra*, *hexar*, *promethea*, *hexagona*. **Scoliidæ.**—*Tiphia inornata*; *Paratiphia albilabris*; *Myzine fuliginosa*, *hamata*, *dubiosa*, *6-cincta*, *fumipennis*; *Scolia nobilitata*; *Elis plumipes*, *4-maculata*. **Sapygidæ.**—*Sapyga centrata*. **Pompilidæ.**—*Pompilus philadelphicus*, *maurus*, *tenebrosus*, *fuscipennis*, *tropicus*, *interruptus*, *ferrugineus*, *marginatus*, *argenteus*, *cylindricus*, *cinctipes*, *algidus*, *americanus*; *Priocnemis flamipennis*, *fulvicornis*, *marginatus*; *Agenia belfragei*, *mellipes*, *accepta*; *Notocyphus dorsalis*; *Parapompilus vicinus*; *Aporus fasciatus*; *Ceropales bipunctata*, *fulvipes*; *Mygimima ustulata*; *Pepsis formosa*, *luteicornis*. **Sphegidæ.**—*Sphex ichneumonea*, *pennsylvanicus*, *texana*, *lauta*, *belfragei*, *tibialis*, *atrata*, *thormæ*, *abdominalis*; *Pelopoeus cementarius*; *Chalybion cæruleum*, *texanum*; *Ammophila grossa*, *gryphus*, *pictipennis*, *vulgaris*; *Chlorion cæruleum*. **Larridæ.**—*Tachytes aurulentus*, *elongatus*, *validus*, *breviventris*, *rufofasciatus*, *fulviventris*, *texanus*, *pepticus*, *abdominalis*, *obscurus*, *sericatus*; *Tachysphex punctifrons*, *terminata*, *montana*, *fusus*; *Notogonia argentata*; *Ancistromma consimilis*. **Bembicidæ.**—*Sphecius speciosus*, *Megastizus brevipennis*, *Bembecinus neglectus*, *Stizus uncinatus*, *Bembex nubilipennis*, *texana*; *Monedula carolina*, *pictifrons*, *ventralis*, *speciosa*; *Bembidula fodiens*, *ventralis*, *capnoptera*, *insidiatrix*. **Nyssonidæ.**—*Gorytes moneduloides*, *phaleratus*, *phaleratus* var. *rufoluteus*, *propinquus*; *Hoplisis bollii*, *Alyson texanus*, *Nysson texanus*. **Philanthidæ.**—*Philanthus ventrilabris*, *punctatus*, *dubius*, *politus*; *Cerceris mimica*, *gnara*, *fumipennis*, *venator*, *dufourii*, *bicornuta*, *fasciola*, *clypeata*, *compacta*, *kennicottii*, *rufinoda*, *finitima*; *Eucerceris*. **Mimesidæ.**—*Psen tibialis*. **Crabronidæ.**—*Trypoxylon albitarse*, *politum*, *clavatum*, *bidentatum*, *texense*, *fastigium*; *Crabro* *10-maculatus*, *rufifemur*, *scaberr*, *cognatus*, *flavicypeus*, *propinquus*; *Entomognathus texanus* var.; *Oxybelus cornutus*, *subulatus*, *4-notatus* var. *montanus*, *packardii* var. *texana*, *emarginatus*. **Eumenidæ.**—*Zethus spinosus*; *Eumenes fraternus*, *americanus* (*belfragei*), *bollii*, *Monobia quadridens*; *Odynerus dorsalis*, *fusus*, *clusinus*, *hidalgii*, *ductus*, *evectus*, *annulatus*, *manifestus*, *arvensis*, *foraminatus*, *campestris*, *firmus*; *anormis*, *fundatus*, *colon*, *fulvipes*, *austrianus*, *pedestris*, *taos*, *capra*, *tigris*, *delicatus* var., *unifasciatus*, *quadriseatus*, *Pterochilus* 5 *fasciatus*. **Vespidæ.**—*Polistes incertus*, *minor*, *annularis*, *perplexus*, *variatus*, *americanus*, *texanus*, *fuscatus* det. Schulth; *Vespa carolina*, *germanica*, *cuneata*. **Andremidæ** and **Apidæ.**—*Colletes americanus*, *compactus*? det. Friese; *Prosopis varifrons*, *affinis*; *Sphecodes* (near *mandibularis*); *Halictus tegularis*, *coactus*, *ligatus*, *pectoralis*, *hurdus*, *armaticeps* det. Friese; *Augochlora pura*, *sumptuosa*, *humeralis*; *Agapostemon nigricornis*, *texana*, *eruginosa*; *Andrena brunniventris*, *belfragei*, *miserabilis*? *Protandrena* sp. det. Friese; *Nomia nortonii*, *foxii*, *birkmannii* Friese MSS.; *Calliopsis ornatipes*, *rhodophilus* det. Friese,

abdominalis; *Perdita*, 4 to 5 undet. sp.; *Nomada texana*, *belfragei*, *bisignata*, *electra*? *Epeolus occidentalis*, *texanus*, *remigatus*; *Epeolus lunatus*, *scutellaris*; *Phileremus*, sp.; *Melecta interrupta*; *Stelis costalis*; *Celioxys insita*, *texana*; *Osmia texana*, *bucconis*? det. Friese, *chalybea*, det. Friese, *subfasciata*; *Heriades variolosus*, *denticulatus* det. Friese; *Andronicus*, sp.; *Alcidamea*, sp.; *Anthidium zebratum*, *concinnum*; *Lithurgus gibbosus*, *compressus*; *Megachile facunda*, *pruinosa*, *optiva*, *albitarsis*, *montivaga*, *latimana*, *fortis*, *exilis*, *pollicaris*, *pugnata*, *frigida* det. Friese, *inimica*, *brevis*, *perbrevis*, *conrata*; *Ceratina strenua* det. Friese; *Melissodes confusa* det. Friese, *menuacha*, *suffusa fimbriata*, *rustica* det. Friese, *afflicta*, *intorta*, *texana*, *intermedia*? *obliqua*, det. Friese, *comanche*, *atripes*; *Synhalonia albata*; *Synhalonia honesta*; *Podalirius smithii* det. Friese; *Anthophora texana*, *montana*, *abrupta*; *Xylocopa micans*, *texana*, *virginica*; *Centris birkmanii* Friese; *Apathus variabilis*, *elatus*; *Bombus pennsylvanicus*, *scutellaris*, *americana*. Addendum.—*Exomalopsis*, sp. det. Friese.

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GEOGRAPHICAL DISTRIBUTION OF LIMENITIS WELL ILLUSTRATED.—In the Geographical and Geological Exhibition now being held at the new Science Museum Building in Springfield, Mass., is a curious map, the work of Miss Anna Dimmock, a grammar school girl of that city. This map illustrates the distribution of the two butterflies *Limenitis arthemis* and *L. ursula* in relation to their intermediate form *L. proserpina*. On the map of the United States and British North America, which is perhaps 10x18 inches in size, the area from which *L. arthemis* is known is indicated by oblique blue shading, and the area occupied by *L. ursula* by yellow shading in the same direction. Where both species occur the yellow lines interlace with the blue ones, thus giving a mild greenish shade to that portion of the map. Where *L. proserpina* has been found is indicated by green shading lines at right angles to the other shading-lines. At one side of the map hangs a box with four specimens of *Limenitis*, grading from *L. arthemis* through *L. proserpina* to *L. ursula*.

At the other side of the map, which is entitled "A Study in Geographical Distribution," hangs a sheet with brief explanation of the facts concerning these butterflies, and a short statement of Mr. Scudder's opinion that *L. proserpina* is a hybrid form of *L. arthemis* and *L. ursula*, and Mr. Edward's reasons for the view that *L. proserpina* is a variety of *L. arthemis*. Miss Dimmock has not only indicated the distribution of the species as given in Scudder's "Butterflies of the Eastern United States," published in 1888, but has carefully compiled, from the various entomological periodicals, later recorded captures, so that her map is a graphic presentation of the hybrid-variety question in regard to *L. proserpina*, brought down to 1899. It is unnecessary to add that this map was not a part of its author's school work in natural science.

FREDERIC KNAB, Chicopee, Mass., June 30, 1899.