

The Coleoptera of the Sacramento Mountains of New Mexico.

BY W. KNAUS, McPherson, Kansas.

The writer spent a week in June, 1902, in the Sacramento Mountains of southeast New Mexico, and collected Coleoptera from an elevation of forty-five hundred feet at Alamogordo, to nine thousand feet at Cloudcroft on the summit. Alamogordo, on the western foot hills of the mountains, is eighty-seven miles northeast of El Paso, Texas. Until 1902 these mountains could only be reached by rail over a branch road from El Paso. In the spring of 1902 the Rock Island El Paso line was opened for traffic and access to this range of mountains became easy.

My first day's collecting was up La Luz and Fresnal Canons; from La Luz, at an elevation of forty-seven hundred feet to Highrolls, at an elevation of six thousand five hundred; my last day was on the fourteenth of June at Cloudcroft on the summit. The intermediate days were spent in the upper canons that have their beginning in the vicinity of Cloudcroft, the elevations being from seven thousand to nine thousand feet.

The lower La Luz and Fresnal canons contain little or no timber; what little is seen is the cottonwood and the quaking asp. The vegetation is semi-desert in character, thick fleshy leaves covered everywhere with spines. As the elevation increases pines and spruces begin to appear, and the semi-desert flora begins to change. At Toboggan, at an elevation of eight thousand feet, the flora has entirely changed owing to an abundant precipitation of moisture. The mountain sides are covered with pine and spruce forests which increase in density as the summit is reached. The canon sides and summit are covered thickly in places with a growth of shrubs and scrubby oaks, known locally as "shin oaks," and afford excellent collecting grounds for the entomologist.

At the higher elevations many species of Coleoptera occur which are found in northern New Mexico and southern Colorado; while the lower elevations show species peculiar to the semi-desert or arid fauna.

As my collecting was done the second week in June, before

the July rains, the collector who visits this region in August will find many forms that were absent at the time of my visit.

I collected from three to eight hours each day I was in the mountains, and took two hundred species and over fifteen hundred specimens. Mr. H. C. Fall, of Pasadena, California, kindly assisted in the determination of most of the material; Mr. P. Jerome Schmitt, of Beatty, Pennsylvania, determined the single species each of the Scydmaenidæ and Pselaphidæ taken, and Mr. Charles W. Leng, of New York, identified the Coccinelids; to all of whom, and to Mr. T. D. A. Cockerell, of East Las Vegas, N. M., who has added notes and ascertained the number of species new to New Mexico, many thanks are due.

Identifications are sufficiently complete to show that this part of the territory has been collected over but little, for of the two hundred species taken nearly fifty species, or one-fourth, are new or undescribed; a half dozen or more species belonging to new genera. Fifty-seven species are new to New Mexico, eighteen genera are also new to the territory. Forty-six species are new to southern New Mexico. The only Scydmaenid ever identified by name from the territory, *Scydmaenus californicus* Mots., a Pacific coast Alaskan species, I took at Cloudcroft. In the same upper canon I found three specimens, in ants' nests, of *Articerus fuchsii* Brend., a quite rare myrmecophilus Pselaphid previously recorded from near Las Vegas.

- 1, 33a *Cicindela oregona* Lec. Seven thousand feet. Wootens.
- 2, 179 *Notiophilus hardyi* Putz. Two specimens, James Canon; first record for southern N. M., 8,500 feet.
- 3, 215 *Pasimachus duplicatus* Lec. Cloudcroft; new to N. M.
- 4, 215a " *ensifer* Lec. Cloudcroft.
- 5, 219 " *californicus* Chd. Cloudcroft, 9000 feet. Several each of the above *Pasimachus* were taken.
- 6, 232 *Dyschirius globulosus* Say. James Canon; a dozen specimens.
- 7, 345 *Bembidium lugubre* Lec. Common.
- 8, 347 " *striola* Lec. Two specimens; new to southern N. M.
- 9, 351 " *lucidum* Lec. Several specimens; common in N. M.
- 10, 391 " *versicolor* Lec. One specimen; taken by Wickham at Albuquerque also.
- 11, 408 *Bembidium dubitans* Lec. Sixteen specimens, James Canon; new to southern N. M.

- 12, 438 *Tachys pumilus* Dej. One specimen ; new to N. M.
- 13, 472 *Patrobus longicornis* Say. One specimen ; genus and species new to N. M.
- 14, 524 *Pterostichus substriatus* Lec.
- 15, 583 " *luczotii* Dej. Both species common in N. M.
- 16, 618 *Evarthrus torvus* Lec. Several specimens ; new to southern N. M.
- 17, 629 *Amara laticollis* Lec. Common ; new to N. M.
- 18, " New species.
- 19, 9270 " *nupera* Horn. Common at Wootens, seven thousand feet ; new to southern N. M.
- 20, 670 *Amara interstitialis* Dej. Common ; new to southern N. M.
- 21, 713 *Dicælus lævipennnis* Lec. Three specimens near Cloudcroft, also taken at Eagle Creek by Townsend.
- 22, 722 *Dicælus sculpitilis* Say. Three specimens ; new to southern N. M.
- 23, 751 *Calathus dubius* Lec. One specimen.
- 24, 815 *Platynus placidus* Say. Four specimens.
- 25, 855 *Zuphium americanum* Dej. One specimen, Alamogordo ; genus and species new to N. M.
- 26, 1080 *Harpalus retracus* Lec. One specimen.
- 27, 1081 " *amputatus* Say. Several specimens ; not found before so far south.
- 28, 1112 *Harpalus clandestinus* Lec. Several specimens ; one recorded at Las Vegas.
- 29, *Stenolophus*. Species probably undescribed ; common.
- 30, 1155 *Bradycellus cognatus* Gyll. Two specimens ; new to N. M.
- 31, 1188 *Anisodactylus harrisii* Lec. Two specimens ; new to southern N. M.
- 32, 1406 *Agabus cordatus* Lec. Several specimens ; Fresnal Creek.
- 33, 1413 " *lugens* Lec. Same as above ; new to southern N. M.
- 34, 1706 *Silpha lapponica* Hbst. One specimen ; new to southern N. M.
- 35, 1798 *Agathidium revolvens* Lec. One specimen ; genus and species new to N. M.
- 36, 1849 *Scydmaenus californicus* Mots. One specimen (genus and species new to N. M.) ; under bark of quaking asp, Cloudcroft.
- 37, 1864 *Articerus fuchsii* Bren. Three specimens, with ants, Cloudcroft ; new to southern N. M.
- 38, *Falagria* species. Several specimens, with ants under ash bark.
- 39, 2055 *Aleochara bimaculata* Grav. Two specimens.
- 40, *Aleocharina* ; genus and species dubious. One specimen.
- 41, " " " Two specimens.
- 42, 2105 *Quedius limbifer* Horn. One specimen ; new to N. M.
- 43, 2106 " *lævigatus* Gyll. One specimen ; new to N. M.

- 44, *Quedius ænescens* Makl. One specimen ; new to N. M.
 45, *Philonthus*. New species. Four specimens.
 46, 2150 " *furvus* Nord. James Canon, common ; new to southern N. M.
 47, 2268 *Xantholinus cephalus* Say. Two specimens ; new to N. M.
 48, *Tachinus*. New species, near *crotchii*. One specimen.
 49, 9712 *Oxytellus invenustus* Casey. Eight specimens, James Canon ; new to N. M.
 50, 2840 *Homalium lapponica* Zett. One specimen ; new to N. M.
 51, 9832 *Antobium tibiale* Casey. One specimen ; new to N. M.
 52, 3046 *Hippodamia convergens* Guer. Wootens ; common.
 53, 3049 " *sinuata* Muls. Wootens ; common.
 54, *Coccinella plagiata* Casey. One specimen, Cloudcroft ; new to N. M.
 55, 3065a *Coccinella abdominalis* Say. One specimen, Cloudcroft.
 56, 3078 *Psyllobora 20-maculata* Say. Two specimens, Fresno Creek.
 57, *Exochomus hoguei* Gorh. One specimen at Wootens ; common at El Paso, Tex.
 58, 3183 *Aphorista morosa* Lec. New to southern N. M. Several specimens at Toboggan.
 59, 3455 *Orphilus glabratus* Fab. One specimen ; new to southern N. M.
 60, 3494 *Hister depurator* Say. Common ; new to southern N. M.
 61, 3609 *Saprinus plenus* Lec. Several specimens.
 62, 3633 *Plegederus transversus* Say. Also taken at Albuquerque.
 63, 3634 " *sayii* Mars. One specimen ; new to southern N. M.
 64, 3635 " *consors* Horn. One specimen ; new to N. M.
 65, 3666 *Cercus sericans* Lec. Common ; genus and sp. new to N. M.
 66, 3673 *Carpophilus pallipennis* Say. Several specimens ; common in N. M.
 67, 3684 *Carpophilus zuni* Casey. One specimen ; new to N. M.
 68, 3689b *Colastus limbatus* Lec. Common under fresh cut bark ; genus and sp. new to N. M.
 69, 3704 *Epuræa immunda* Sturm. Under freshly cut bark ; new to N. M.
 70, 3704 " var. *flavomaculata* Mackl. Under bark with preceding sp. ; new to N. M.
 71, *Tenebroides* ; species. One specimen.
 72, 3923 *Dryops striatus* Lec. Fresno and La Luz creeks.
 73, 4210 *Elater cordatus* Lec. One specimen ; new to N. M.
 74, 4233 " *mærens* Lec. One specimen ; new to N. M.
 75, 4245 " *apicatus* Say. One specimen ; new to N. M.
 76, 4320 *Melanactes castanipes* Payk. Two specimens ; new to N. M.
 77, *Athous*, sp. not described. One specimen.
 78, 4628 *Anthaxia æneogaster* Lap. Two specimens.
 79, 4634 *Anthaxia flavimana* Gory. One specimen ; new to southern N. M.

- 80, 4639 *Chrysobothris femorata* Fab. Two specimens; new to southern N. M.
- 81, 4746 *Agrilus egenus* Gory. Six specimens; new to southern N. M.
- 82, 4761 *Brachys ærosa* Melsh. Two specimens; new to southern N. M.
- 83, 4767 *Rhyncheros sanguinipennis* Say. Two specimens; new to southern N. M.
- 84, 4771 *Lycostoma fulvellus* Lec. One specimen; genus and sp. new to southern N. M.
- 85, 4823 *Pyractomena angulata* Say. One specimen; genus and sp. new to N. M.
- 86, *Podabrus*, near *comes* and *mexicanus* Gorh. One specimen.
- 87, *Telephorus*, new sp.; two specimens.
- 88, *Telephorini*; genus and sp. dubious. One specimen.
- 89, *Polemius*, new sp. Two specimens.
- 90, *Pseudobæus* sp. One specimen.
- 91, *Attalus* sp. Several specimens.
- 92, *Trichochrus* sp. One specimen.
- 93, *Mecomycater fasciatus* Casey. One specimen; genus and sp. new to N. M.
- 94, 5164 *Clerus spinolæ* Lec. One specimen on yucca; Desert, N. M.
- 95, 5177 " *nigriventris* Lec. One specimen.
- 96, *Hydnocera*; species. One specimen.
- 97, *Hadrobregmus* sp. One specimen.
- 98, 5457 *Onthophagus coproides* Horn. One sp., dead; James Canon.
- 99, 5521 *Aphodius crassulus* Horn. New to southern N. M.
- 100, 5529 " *vittata* Say. Three specimens.
- 101, 5539 " *anthracinus* Lec. Common; new to southern N. M.
- 102, 5692 *Macroductylus uniformis* Horn. One specimen.
- 103, 5877 *Aphonus clunalis* Lec. Two specimens; new to southern N. M.
- 104, 5967 *Tragosoma harrisii* Lec. One specimen under pine bark.
- 105, 5971 *Asemum mæstum* Hald. One specimen; genus and sp. new to N. M.
- 106, 5973 *Nothorina aspera* Lec. One specimen; genus and sp. new to N. M.
- 107, 6244 *Toxotus vestitus* Hald. One specimen; genus and sp. new to N. M.
- 108, *Acmæops* sp. One specimen.
- 109, 6301 *Leptura propinqua* Bland. Three specimens; new to southern N. M.
- 110, 6453 *Pogonocherus mixtus* Hald. Six specimens on ash bark.
- 111, 6550 *Orsodachna atra* and var. Ahr. Common.
- 112, 6581 *Anomæa militaris* Lec. Three specimens; genus and sp. new to N. M.
- 113, 6582 *Euryscopa lecontei* Cr. One specimen.
- 114, *Coscinoptera* new sp. One specimen.

- 115, 6601 *Chlamys plicata* Fab. One specimen. Also Mesilla valley.
 116, 6614 *Cryptocephalus 4-maculatus* Say. One specimen.
 117, 6617a " *4-guttatus* Suffr. Two specimens; new to southern N. M.
 118, *Pachybrachys*. Two specimens.
 119, " new sp. Several specimens.
 120, " new sp. One specimen.
 121, 6711 *Diachus æruginosus* Lec. Two specimens; new to N. M.
 122, 6722 *Xanthonia stevensii* Balv. Common; new to N. M.
 123, 6767 *Graphops pubescens* Melsh. One specimen; new to N. M.
 124, 6819 *Chrysomela flavomarginata* Say. Several specimens, James Canon; new to N. M.
 125, 6821 *Chrysomela auripennis* Say. One specimen; new to southern N. M.
 126, 6889 *Diabrotica lemniscata* Lec. Two specimens; new to southern N. M.
 127, 6933 *Ædionychis lugens* Lec. Common in James Canon; new to southern N. M.
 128, 10419 *Disonycha politula* Horn. James Canon.
 129, " near *mellicollis*. One specimen.
 130, 6980 *Crepidodera helxines* Linne. One specimen; new to southern N. M.
 131, 10440 *Longitarsus bicolor* Horn. Common.
 132, 7058 *Psylliodes punctulata* Melsh. One specimen; genus and sp. new to N. M.
 133, 7217 *Zopherus concolor* Lec. Four specimens.
 134, 7316 *Eleodes obscura* Say. One specimen; Ancho, N. M.
 135, 7319 " *pedinoides* Lec. Two specimens; James Canon.
 136, 7327 " *extricata* form *cognata* Hald. Common; *cognata* form new to N. M.
 137, *Eleodes*, species dubious; three specimens.
 138, " " common.
 139, 7350 " *lecontei* Horn. One specimen; new to N. M.
 140, 7394 *Iphthimus serratus* Mann. One specimen; new to southern N. M.
 141, *Temnochila*, new sp. One specimen.
 142, 7417 *Tenebrio molitor* Linn. One specimen; Alamogordo.
 143, *Blapstinus*, sp. dubious; common below Cloudcroft.
 144, 7532 *Hypophlæus parallelus* Melsh. One specimen; genus and sp. new to N. M.
 145, 7661 *Carebara longula* Lec. Two specimens, under pine bark; new to southern N. M.
 146, 7719 *Salpingus tibialis* Lec. One specimen; new to N. M.
 147, 7766 *Anaspis atra* Lec. Common.
 148, 7770 *Anaspis rufa* Say. Not so common; new to southern N. M.
 149, 7780 *Mordella scutellaris* Fab. One sp.; new to southern N. M.

- 150, 7895 *Corphyra lewisii* Horn. Five sp. ; new to N. M.
 151, 7922 *Notoxus calcaratus* Horn. Common along Fresno Creek.
 152, *Lappus cursor* Casey. Two spec. ; Fresno Creek. New to N. M.
 153, *Anthicus* near *parallelus*. One specimen.
 154, 8037 *Nemognatha immaculata* Say. Two specimens.
 155, *Epicauta*. New species ; two specimens ; James Canon.
 156, " " " " at Wootens.
 157, 8072 *Tetraonyx fulva* Lec. Two specimens.
 158, 8207 *Eucnamptus collaris* Fab. Several specimens. Genus and species new to N. M.
 159, *Rhynchites*. New species ; near *ætatus*. One specimen.
 160, 8216 *Deporans glastinus* Lec. Several specimens, beating scrub oak ; genus and species new to N. M.
 161, 8228 *Attelabus rhois* Boh. Two specimens ; new to N. M.
 162, New species, probably a new genus near *Anametis* ; several specimens.
 163, 8262 *Crimodema protracta* Horn. Four specimens, beaten from oaks. Genus and species new to N. M.
 164, 8266 *Peritaxia rugicollis* Horn. Several specimens ; new to southern N. M.
 165, 8294 *Thricolepis inornata* var. Horn. Two specimens ; new to southern N. M.
 166, *Thricolepis*, new species. One specimen.
 167, New specimen, new genus, near *Pandetejus*. Several specimens by beating scrub oaks.
 168, *Pandetejus*, new species. Several specimens.
 169, *N. Sp.* Genus dub., near *Cyphormimus*. Several specimens.
 170, 8408 *Apion proclive* Lec. One specimen, new to N. M.
 171, *Dorytomus*, sp. dub. One specimen.
 172, *Smycronyx*, sp. dub. One specimen.
 173, 8563 *Phyllotrox nubifer* Lec., common. Genus and species new to N. M.
 174, 8613 *Magdalis lecontei* Horn. One specimen ; new to southern N. M.
 175, *Magdalis*, new species. One specimen.
 176, 8641 *Anthonomus sycophanta* Walsh. One specimen ; new to N. M.
 177, 11055 *Tychius subfasciatus* Casey. One specimen ; new to N. M.
 178, 8711 *Læmosaccus plagiatus* Fab. Common ; on shin oaks ; new southern N. M.
 179, 8808 *Piazurus californicus* Lec. One specimen ; genus and species new to N. M.
 180, 8845 *Ceutorhynchus pusio* Mann. One specimen ; new to N. M.
 181, " *ætatus* Dietz. One specimen ; new to N. M.
 182, 11022 *Baris aprica* var. Casey. One specimen ; new to N. M.

- 183, 8883 *Trichobaris texana* Lec. One specimen ; common in Mesilla Valley.
- 184, 11180 *Calandrinus obsoletus* Casey. One specimen, Ancho, N. M. New to N. M.
- 185, *Balaninus* sp. One specimen.
- 186, 9059 *Pityophthorus retusus* Lec. Ten specimens ; new to southern N. M.
- 188, 9093 *Xyloterus bivittatus* Kirby. Three specimens ; new to southern N. M.
- 188, 9025 *Tomicus plastographus* Lec. Two specimens under pine bark ; new to southern N. M.
- 189, 9149 *Scolytus praeceps* Lec. Three specimens ; new to N. M.
- 190, " species probably new. One specimen.
- 191, *Chramesus*, new species. Two specimens.
- 192, *Hylesinus*, species probably new.
- 193, 9179 *Dendroctonus terebrans* Oliv. One specimen.
- 194, 9180 " *similis* Lec. Three specimens.
- 195, *Hylastes*, new species. One specimen.
- 196, 9201 *Hylurgops subcostulatus* Mann. Three specimens ; new to N. M.
- 197, 9207 *Allandrus bifasciatus* Lec. Three specimens ; new to southern N. M.

Also several specimens not sufficiently studied to allow of recognition.

Before stopping in the Sacramento Mountains, I spent three days at El Paso, Texas, and devoted a few hours each day to collecting in the Rio Grande valley above and below El Paso, and in the foot hills just north of the city. Owing to the prolonged drouth, vegetation was badly parched, and insect life was reduced to the minimum. Only about twenty-five species were taken as the following list shows :

- 1, 39 *Cicindela tenuisignata* Lec. A specimen on saline bar near Rio Grande river, north of El Paso.
- 2, 51 *Cicindela sperata* Lec. Three specimens as above ; fairly common.
- 3, 367 *Bembidium nubiculosum* Chd. One specimen in the Rio Grande valley.
- 2, 2251 *Actobius paederoides* Lec. Two specimens.
- 5, *Exochomus hogei* Gorh. Common on flowering shrubs in foothills north of El Paso.
- 6, 3101 *Hyperaspis fimbriolata* Melsh. Several specimens beaten from flowering shrubs north of El Paso.
- 7, *Hyperaspis* var. *pluralis* Casey. Same as species.
- 8, 3102 " *lateralis* Muls. Two specimens, foothills north of El Paso.

- 9, 3750 *Cybocephalus nigritulis* Lec. One specimen.
 10, 6141 *Batyle suturale* Say. Common in Rio Grande valley.
 11, 6584 *Coscinoptera æneipennis* Lec. One specimen by beating.
 12, 6587 " *axillaris* Lec. Several specimens by beating.
 13, *Chlamys memnonius* Lec. One specimen by beating.
 14, 6622 *Cryptocephalus leucomelas* Suffr. Two specimens, beating
 willows along Rio Grande River.
 15, *Pachybrachys* sp. One specimen Rio Grande valley.
 16, 6738 *Myochrous denticollis* Say. One specimen Rio Grande valley.
 17, 10416 *Disonycha crenicollis* Say. Common, Rio Grande valley.
 18, *Bruchus* sp. One specimen.
 19, 10500 *Emmenastæ nitidus* Casey. Rio Grande valley.
 20, 7307 *Eusattus reticulatus* Say. Two specimens.
 21, 7599 *Hymenorus punctatissimus* Lec. One specimen.
 22, 7644 *Hyporhagus opuntia* Horn. One specimen by beating; Rio
 Grande valley.
 23, 10785 *Elissa laticeps* Casey. Beaten from low flowering shrub
 north of El Paso.
 24, *Apion*, new species. Beaten from flowering shrub same as
 above. Common.
 25, 11052 *Tychius simplex* Casey, common. Beaten from flowering
 shrubs with new species of *Apion*.

Culex atropalpus Coquillett.

BY HARRISON G. DYAR.

This rather pretty little mosquito is found in the vicinity of swift streams. The larvæ are found only in the water-filled pot holes that occur in the rocks along such places. I have recorded the species from New Hampshire and on the Potomac River in Maryland. In the latter place it was abundant, both as larvæ and adult. The adults were very troublesome on and about the river, biting freely. The eggs are laid in patches on the rock sides of the pot hole, just at the surface of the water, usually at a time when the water is low. The winter is passed in this state. Doubtless some of the eggs must be destroyed during the winter and spring when the pot holes are filled by the swollen stream and disturbed by ice and stones carried by the current. Those that remain hatch early, but in an irregular manner. Eggs obtained in October began to hatch in March and continued to hatch irregularly for some weeks, so



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