

The water also holds in solution a small amount of the hydrocarbon gas (together with carbonic oxide, oxygen and nitrogen), but this seems not to decompose at all during evaporation, as it does not contaminate the solid residue.

The temperature of the water as it issues from the well is constant throughout the year, and is about 61° Fah.

## LIST OF COLEOPTERA

Collected in Colorado in June, July and August, 1876, by the Kansas University Scientific Expedition.

BY PROF. F. H. SNOW.

Five members of the class of 1876 of the University of Kansas, after commencement, organized a scientific expedition for explorations in Colorado, and invited me to accompany them. The names of the students were as follows: George F. Gaumer, Charles W. Smith, Elmer B. Tucker, Miss May Richardson and Miss Lizzie Williams. My wife and son were also members of the party. Large collections were made of insects, plants, birds, mammals and reptiles, the chief attention being devoted to the first two of these departments. A few minerals were also collected. Three weeks were spent at Colorado Springs, from which point excursions were made to the Plains on the east, to the summit of Pike's Peak, Chiann Cañon, and various other localities. Three weeks were devoted to an expedition to the South Park by way of the Ute Pass. During the first week in August the students returned home, but the rest of the party remained in camp in Engelman's Cañon, along the trail to Pike's Peak, until September 1st, making large collections of insects.

Of the material thus accumulated, I have as yet had time to "work up" only a single order of insects, the Coleoptera. In this order three hundred and four species and twelve varieties were collected; among them twelve new species, and one of Thomas Say's "long-lost" species (*Diptyoptera sanguinipennis*). The list includes a few species taken by Mr. Edwin A. Popenoe, of Topeka, who spent two weeks in Colorado, and was with us for a single day at Colorado Springs.

For the determination of a large proportion of the species not previously in my collection, I am indebted to Dr. John L. LeConte, of Philadelphia, who will describe the new species discovered by our party. The number prefixed to the names are those of Crotch's "check-list." Instead of using the word "rare" to denote infrequent occurrence of a species, I have preferred to mention the exact number of specimens in each case obtained.

## LIST.

## CICINDELIDÆ.

1. *Amblychila cylindriciformis*, Say. A single specimen was found dead in a spider's web, in Webster Park, by Mr. Popenoe. The rarity and value of this insect may be inferred from the fact that \$12 are asked for a single specimen by Eastern dealers.

12. *Cicindela longilabris*, Say var. South Park, sandy plains, common; differs somewhat from the type-form.

22. *Cicindela purpurea*, Oliv. var. Audubonii, Lec South Park; same localities as the preceding.

23. *Cicindela cimarrona*, Lec. South Park, with the preceding. A large series of the last two forms was taken, convincing Dr. LeConte of what he had

long suspected, that they should not be considered distinct species.

25. *Cicindela venusta*, Lec. A single specimen only, on the plains near Colorado Springs.

27. *Cicindela fulgida*, Say. Banks of the Platte, in South Park; only five specimens.

28. *Cicindela tranquebarica*, Hb. var. Two specimens.

30. *Cicindela 12-guttata*, Dej. Abundant at Manitou and vicinity.

30b. *Cicindela guttifera*, Lec. Same localities as the preceding.

37. *Cicindela cinctipennis*, Lec. Only five specimens; locality not noted.

51. *Cicindela punctulata*, *Fab.* Abundant everywhere.

51a. *Cicindela mncans*, *Fab.* A green variety of the preceding; not uncommon.

## CARABIDÆ.

84. *Elaphrus Californicus*, *Mann.* One specimen only, at Manitou.

173. *Cychrus elevatus*, *Fab.* Two specimens only, taken in our tent at Engelmann's Cañon.

200. *Pasimachus elongatus*, *Lec.* Found abundantly under cattle "chips," near Colorado Springs.

340. *Loxopeza grandis*, *Hentz.*

344. *Loxopeza atriceps*, *Lec.*

394. *Glycia purpurea*, *Say.* Of each of the last three species, a single specimen only was obtained; locality not noted.

397. *Cymindis laticollis*, *Say.* South Park; not common.

398. *Cymindis brevipennis*, *Zimm.* South Park; abundant under "chips."

399. *Cymindis abstrusa*, *Lec.* Found with the preceding species, and now considered identical with it by Dr. LeConte.

428. *Calathus ingratus*, *Dej.* Three specimens.

436. *Calathus dubius*, *Lec.* Five specimens.

511. *Platynus cupreus*, *Dej.* Two specimens.

514. *Platynus placidus*, *Say.* Two specimens.

520. *Platynus obsoletus*, *Say.* One specimen.

563. *Evarthrus incisus*, *Lec.* Abundant under "chips," near Colorado Springs.

581. *Pterostichus protractus*, *Lec.* Three specimens.

— *Pterostichus longulus*, *Lec.* One specimen.

679. *Amara hyperborea*, *Dej.* Three specimens, found a short distance below the summit of Pike's Peak, 14,000 feet above the sea. This species is also found on the summit of Mt. Washington, in New Hampshire.

694. *Amara impuncticollis*, *Say.* Five specimens.

— *Amara* sp. An undescribed species, not uncommon.

699. *Amara fallax*, *Lec.* Abundant under "chips" near Colorado Springs.

706. *Amara interstitialis*, *Dej.* Two specimens.

712. *Amara chalcona*, *Dej.* One specimen.

717. *Amara gibba*, *Lec.* Common under "chips."

815. *Nothopus zabroides*, *Lec.* Ten specimens.

818. *Cratacanthus dubius*, *Beauv.* Two specimens.

819. *Pisoma setosum*, *Lec.* Taken at Alpine by Mr. Popenoe.

834. *Discoderus parallelus*, *Hald.* One specimen.

872. *Xestonotus lugubris*, *Dej.* Five specimens.

925. *Harpalus retractus*, *Lec.* Two specimens.

926. *Harpalus amputatus*, *Say.* One specimen.

936. *Harpalus spadiceus*, *Dej.* Three specimens.

939. *Harpalus pleuriticus*, *Kirby.* One specimen.

945. *Harpalus ellipsis*, *Lec.* One specimen.

956. *Harpalus oblitus*, *Lec.* Eight specimens.

961. *Harpalus basilaris*, *Kirby.* Eight specimens.

— *Harpalus* n. sp. One specimen.

1033. *Bembidium bifossulatum*, *Lec.* Abundant in moist places on the plains east of Colorado Springs.

1055. *Bembidium Nebraskaense*, *Lec.* One specimen.

1067. *Bembidium lucidum*, *Lec.* One specimen.

1080. *Bembidium cordatum*, *Lec.* Not common, in same localities with 1033.

— *Bembidium* sp. Two new species, each represented by a single specimen.

## DYTISCIDÆ.

1255. *Hydroporus tristis*, *Payk.* Taken abundantly in the Ute Pass from the water below Bridal Veil Falls.

1317. *Rhantus binotatus*, *Harr.* One specimen.

1334. *Ilybius biguttulus*, *Germ.* Abundant below Bridal Veil Falls.

— *Gaurodytes* sp. An undetermined species, one specimen.

1381. *Anisomera cordata*, *Lec.* Seven specimens.

## STAPHYLINIDÆ.

1656. *Atemeles cavus*, *Lec.* Taken at Pueblo by Mr. Popenoe.

1771. *Creophilus villosus*, *Grav.* Common.

— *Philonthus* sp. An undetermined species, one specimen.

1961. *Oxyporus* (near) *5-maculatus*, *Lec.* Two specimens.

— *Anthobium* sp. A single specimen, provisionally referred to this genus.

## SILPHIDÆ.

2178a. *Necrophorus Hectate*, *Bland.* One specimen.

— *Necrophorus Hectate* var. Several specimens.

2185. *Necrophorus tomentosus*, *Web.* Several specimens.

2188. *Peltis lapponica*, *Hb.* Abundant everywhere.

2195. *Peltis ramosa*, *Say.* One specimen.

## DERMESTIDÆ.

2392. *Dermestes marmoratus*, *Say.* Abundant.

2395. *Dermestes nubilus*, *Say.* Common.

2406. *Attagenus negatoma*, *Fab.* Taken at Pueblo by Mr. Popenoe.

2434a. *Orphilus subnitidus*, *Lec.* Common.

## ENDOMYCHIDÆ.

2441. *Mycetina morosa*, *Lec.* A common intruder in our camp, attacking the hams.

## EROYLIDÆ.

2537. *Triplax thoracica*, *Say.* Common upon fungi.

2541. *Cypherotylus Boisduvali*, *Chev.* Common upon pine fungi, upon which both larva and imago feed.

## TROGOSITIDÆ.

2682. *Trogosita virescens*, *Fab.* One specimen.

2688. *Tenebreoides corticalis*, *Mels.* Two specimens.

2699. *Ostoma ferruginea*, *Linn.* Four specimens, taken under pine bark in Engelmann's Cañon.

2703. *Calitys scabra*, *Thunb.* One specimen on pine bark in Chiann Cañon.

## NITIDULIDÆ.

2729. *Carpophilus pallipennis*, *Say.* Four specimens, Colorado Springs.

— *Epuræa* sp. An undetermined species.

## COCCINELLIDÆ.

2827. *Hippodamia 5-signata*, *Kirby*. Two specimens.  
 — *Hippodamia 5-signata*, var. (*vide Crotch.*)  
 One specimen.  
 2830. *Hippodamia glacialis*, *Fab.* One specimen.  
 2832. *Hippodamia convergens*, *Guer.* Common.  
 2835. *Hippodamia sinuata*, *Muls.* One specimen.  
 2837. *Hippodamia parenthesis*, *Say.* Abundant at Colorado Springs.  
 2847. *Coccinella 9-notata*, *Hb.* Not common.  
 2848. *Coccinella 5-notata*, *Kirby.* Common.  
 2858. *Harmonia picta*, *Rand.* "Not before found so far West" (*Dr. LeConte*); one specimen only.  
 2863. *Anatis Rathvoni*, *Lec.* var. Three specimens.  
 2872. *Exochomus marginipennis*, *Lec.* var. One specimen.  
 2872a. *Exochomus aethiops*, *Bland.* Three specimens.  
 — *Exochomus* sp. An undescribed species of this genus was taken by Mr. Popenoe at Pueblo.  
 2882. *Hyperaspis fimbriolata*, *Mels.* Taken at Pueblo by Mr. Popenoe.

## PARNIDÆ.

2977. *Helichus striatus*, *Lec.* Abundant in the water below Bridal Veil Falls.

## HISTERIDÆ.

3031. *Hister instratus*, *Lec.* One specimen.  
 3049. *Hister abbreviatus*, *Fab.* One specimen.  
 3131. *Saprinus lugens*, *Er.* Two specimens.  
 3133. *Saprinus Pennsylvanicus*, *Payk.* One specimen.  
 3134. *Saprinus Oregonensis*, *Lec.* Common.

## LUCANIDÆ.

- *Platycerns* sp. "Probably a new species, very close to *P. depressus*, but the hind angles of prothorax are obtuse; the male is required before it can be fully investigated." (*Dr. LeConte.*)

## SCARABÆIDÆ.

3219. *Canthon praticola*, *Lec.* One specimen.  
 3230. *Canthon hudsonias*, *Forst.* One specimen.  
 3254. *Aphodius* (near) *hamatus*, *Say.* One specimen.  
 3269. *Aphodius vittatus*, *Say.* Five specimens.  
 3295. *Aphodius Coloradensis*, *Horn.* One specimen.  
 — *Aphodius* n. sp. Five specimens; small, with pale elytra.  
 3381. *Trox Sonoræ*, *Lec.* Three specimens.  
 3427. *Dichelonycha sulcata*, *Lec.* Three specimens.  
 3429. *Serica vespertina*, *Schon.* One specimen.  
 3456. *Diplotaxis brevicollis*, *Lec.* Fifteen specimens.  
 3474. *Diplotaxis atratula*, *Lec.* Twenty specimens.  
 3564. *Tostegoptera lanceolata*, *Say.* Ten specimens.  
 3569. *Polyphylla decemlineata*, *Say.* One specimen, taken at Colorado Springs.  
 3597. *Cyclocephala immaculata*, *Burm.* Taken at Pueblo by Mr. Popenoe.

3609. *Ligyris gibbosus*, *DeGeer.* Taken at Pueblo by Mr. Popenoe.

3645. *Euryomia Kernii*, *Hald.* Several specimens.  
 3646. *Euryomia inda*, *Linn.* Common at Colorado Springs.  
 3659. *Cremastochilus Knochii*, *Lec.* Two specimens.  
 3672. *Trichius affinis*, *Gory.* Abundant in the cañons, and on the mountains nearly to timber line.

## BUPRESTIDÆ.

3689. *Dicerca prolongata*, *Lec.* One specimen.  
 3696. *Dicerca tenebrosa*, *Kirby.* Two specimens.  
 3707. *Pœcilonota cyanipes*, *Say.* One specimen.  
 3713. *Buprestis confluens*, *Say.* Taken at Pueblo by Mr. Popenoe.  
 3716. *Buprestis Nuttalli*, *Kirby.* Two specimens.  
 3718. *Buprestis maculiventris*, *Say.* Abundant; nearly all our specimens were taken from a single dead pine tree in Engelmann's cañon.  
 3719a. *Buprestis Langii*, *Mann.* One specimen, taken in Bear Creek cañon, on the trail to Pike's Peak.  
 3733. *Melanophila atropurpurea*, *Say.* Common upon pines.  
 3734. *Melanophila Drummondi*, *Kirby.* Four specimens.

- *Melanophila Drummondi*, var. Six specimens.  
 3738. *Anthaxia inornata*, *Rand.* One specimen.  
 3756. *Chrysobothris trinervia*, *Kirby.* Six specimens.

3790. *Acmæodera ornata*, *Fab.* A common species at the base of the mountains.  
 3791. *Acmæodera pulchella*, *Hbst.* Common upon flowers in the same localities with the preceding.  
 3791b. *Acmæodera mixta*, *Lec.* Taken at Pueblo by Mr. Popenoe.  
 3816. *Agrilus interruptus*, *Lec.* One specimen.  
 3841. *Brachys aërosa*, *Mels.* One specimen.

## ELATERIDÆ.

3902. *Anelastes Druryi*, *Kirby.* One specimen.  
 3925. *Lacon rectangularis*, *Say.* Taken at Pueblo by Mr. Popenoe.  
 3935. *Alaus melanops*, *Lec.* One specimen was taken in Chiann cañon.  
 4017. *Elatér phænicopterus*, *Lec.* One specimen.  
 4036. *Elatér mixtus*, *Hbst.* One specimen.  
 — *Elatér* sp. An undetermined species.  
 — *Athous simplex*, *Lec.*, n. sp. (*Wheeler's Report.*) One specimen.  
 4333. *Asaphes coracinus*, *Can.* Two specimens.  
 4337. *Asaphes mennonius*, *Hbst.* One specimen.  
 4340. *Asaphes decoloratus*, *Say* var. Two specimens.

## LAMPYRIDÆ.

- *Dietyoptera rubripennis*, *Lec.* Six specimens, taken at Manitou.  
 — *Dietyoptera ruficollis*, *Lec.* One specimen.  
 4427. *Cænia sanguinipennis*, *Say.* A "long-lost species." Six specimens were taken at Manitou.  
 — *Cænia* ——. "Probably a new species." (*Lec.*)  
 4439. *Eros modestus*, *Say.* Two specimens.  
 4453. *Photinus nigricans*, *Say.* Three specimens

## TELEPHORIDÆ.

4481. *Chaulognathus basalis*, *Lec.* Exceedingly abundant.

— *Podabrus lateralis*, *Lec. ms.* A new species, first taken by Lieut. Wheeler's expedition. Five specimens were taken by our party.

4542. *Telephorus fidelis*, *Lec.* One specimen.

## MALACIIDÆ.

4582. *Collops bipunctatus*, *Say.* Common at Colorado Springs.

— *Collops hirtellus*, *Lec.* First taken by Lieut. Wheeler's expedition. We took one specimen only.

— *Pristoscelis*, n. sp. Two specimens.

4683. *Listrus senilis*, *Lec.* Several specimens.

## CLERIDÆ.

4716. *Clerus ornatus*, *Say.* Common upon flowers, especially upon geranium.

4736. *Thanasimus nigriventris*, *Lec.* One specimen.

4738. *Thanasimus mæstus*, *Klug.* Three specimens.

4753. *Hydnocera subænea*, *Lec.* One specimen.

4756. *Hydnocera pubescens*, *Lec.* One specimen.

4791. *Corynetes violaceus*, *Linn.* One specimen.

## CERAMBYCIDÆ.

4907. *Ergates spiculatus*, *Lec.* Three specimens, taken in Engelmann's cañon.

4918. *Prionus Californicus*, *Motsch.* Ten specimens, Engelmann's cañon.

4923. *Homæsthesis emarginatus*, *Say.* Eight specimens, taken on the plains east of Colorado Springs.

4928. *Asemum atrum*, *Esch.* var. With brown elytra; a single specimen.

4930. *Nothorhina aspera*, *Lec.* One specimen.

4931. *Criocephalus productus*, *Lec.* Six specimens, South Park.

4933. *Criocephalus asperatus*, *Lec.* Seven specimens, South Park.

4939. *Tetropium cinnamopterum*, *Kirby.* Two specimens.

4948. *Phymatodes variabilis*, *Fab.* One specimen.

4953. *Phymatodes dimidiatus*, *Kirby.* Two specimens.

5063. *Tragidion coquus*, *Linn.* One specimen, Engelmann's cañon.

5065a. *Tragidion fulvipenne*, *Say.* Three specimens, same locality.

5077. *Batyle ignicollis*, *Say.* Four specimens.

5081. *Batyle Pearsalli*, *Bland.* Common upon *Solidago* in Engelmann's cañon, Ute Pass, and other localities.

— *Xylotrechus*, n. sp. Fifteen specimens, taken on pines in Engelmann's cañon.

5134. *Neoclytus leucozonus*, *Lap.* One specimen.

5180. *Pachyta liturata*, *Kirby.* Ten specimens upon pines in Engelmann's cañon.

5195. *Acmæops tumida*, *Lec.* Three specimens.

5198. *Acmæops longicornis*, *Kirby.* Two specimens.

5198a. *Acmæops longicornis*, *Kirby* var. Two specimens.

5205. *Acmæops strigilata*, *Fab.* Common on flowers, especially in cañons on eastern border of South Park.

5223. *Typocerus brunnicornis*, *Lec.* One specimen, South Park.

5224. *Typocerus sinnatus*, *Newm.* One specimen.

5229. *Leptura propinqua*, *Bland.* Common upon thistles in Bear Creek cañon, along the trail to Pike's Peak.

5249. *Leptura subargentata*, *Kirby.* Common in cañons along east border of South Park.

5250. *Leptura similis*, *Kirby.* Common in same localities with the preceding.

5257. *Leptura instabilis*, *Hald.* var. A black variety, one specimen.

5257a. *Leptura convexa*, *Lec.* Five specimens, at an altitude of 10,000 ft., upon *Astragalus flexuosus*.

5264. *Leptura nigrella*, *Say.* One specimen.

— *Leptula nigrella*, var. A variety with testaceous elytra; one specimen, chopped from a pine log in a cañon on east border of South Park.

5266b. *Leptura eribripennis*, *Lec.* Eight specimens, taken under pine bark on eastern border of South Park, and in Engelmann's cañon.

5272. *Leptura sanguinea*, *Lec.* Rather common in cañons along east border of South Park.

5276. *Leptura chrysocoma*, *Kirby.* Common in Chianu cañon and Engelmann's cañon.

5299. *Leptura aspera*, *Lec.* Two specimens.

5306. *Monilema annulatum*, *Say.* A dozen specimens, chiefly upon *Opuntia*, at Colorado Springs.

5323. *Monbhammus scutellatus*, *Say.* Taken abundantly upon pines in Engelmann's cañon; also in South Park.

5377. *Acanthocinus obliquus*, *Lec.* Four specimens, Engelmann's cañon.

5378. *Acanthocinus spectabilis*, *Lec.* One specimen, Ute Pass—a rare species.

5381. *Dectes spinosus*, *Say.* Four specimens, Engelmann's cañon.

5387. *Pogonocherus simplex*, *Lec.* One specimen.

5388. *Pogonocherus mixtus*, *Hald.* Four specimens.

5424. *Mecas inornata*, *Say.* One specimen.

5425. *Mecas pergrata*, *Say.* One specimen.

5452. *Tetraopes annulatus*, *Lec.* Four specimens.

## SPERMOPHAGIDÆ.

5472. *Bruchus discoides*, *Say.* One specimen. "In seeds of *Ipomœa leptophylla*." (Dr. LeConte.)

— *Bruchus* sp. An undetermined species.

5506. *Bruchus seminulum*, *Horn.* One specimen.

## CHRYSOMELIDÆ.

5535. *Orsodachna Childreni*, *Kirby.* Common upon Pike's Peak.

— *Orsodachna Childreni* var. A black variety.

— *Zeugophora* n. sp. Common upon *Populus tremuloides* along the Ute Pass road, near "Castellar's."

5564. *Saxinis saucia*, *Lec.* Two specimens. "Not before found so far east." (Dr. LeConte.)

5574. *Coscinoptera vittigera*, *Lec.* Rather common in South Park, near Griten's Sulphur Springs.

5609. *Cryptocephalus notatus*, *Fab.* One specimen.
5642. *Pachybrachys atomarius*, *Mels.* Three specimens.
5661. *Pachybrachys litigiousus*, *Suffr.* One specimen.
5664. *Pachybrachys hepaticus*, *Mels.* One specimen.
- *Pachybrachys* sp. An undetermined species.
5665. *Adoxus vitis*, *Linn.* Three specimens, taken above timber line on Pike's Peak.
5672. *Heteraspis marcessita*, *Germ.* One specimen.
5688. *Chysochus auratus*, *Fab.* Rather common at Colorado Springs.
5719. *Colaspis tristis*, *Oliv.* var. (*vide Crotch*). Two specimens.
5729. *Chrysomela exclamationis*, *Fab.* Common at Colorado Springs upon *Helianthus lenticularis*.
5730. *Chrysomela conjuncta*, *Rog.* var. *pallida* One specimen at Colorado Springs.
5750. *Chrysomela* (near) *auripennis*, *Say.* One specimen; elytra more finely punctured than in the typical form.
5751. *Chrysomela inornata*, *Rog.* One specimen.
- *Chrysomela* n. sp. One specimen.
5754. *Gastrophysa dissimilis*, *Say.* Two specimens.
5791. *Luperus cyanellus*, *LeC.* Several specimens.
- *Luperus* sp. An undescribed species.
5800. *Diabrotica tricornata*, *Say.* One specimen at Colorado Springs. Taken also at Pueblo by Mr. Popenoe.
5811. *Diabrotica atripennis*, *Say.* Two specimens.
5831. *Monoxia debilis*, *LeC.* One specimen.
- 5834b. *Trirhabda Canadensis*, *Kirby.* One specimen.
- 5835a. *Trirhabda luteocincta*, *LeC.* Two specimens. "Not before found so far east." (Dr. LeConte.)
- *Graptodera* sp. Resembles *foliacea*, but the antennæ are yellow instead of dark.
- *Graptodera* sp. An undetermined species.
5886. *Graptodera foliacea*, *LeC.* Taken at Pueblo by Mr. Popenoe.
5913. *Dibolia area*, *Mels.* One specimen.
5942. *Chatocnema denticula*, *Ill.* Common at Colorado Springs.
5969. *Microrhopala cyanea*, *Say.* Taken at Pueblo by Mr. Popenoe.
- TENEBRIONIDÆ.
5993. *Edrotes rotundus*, *Say.* Thirty specimens were taken at Colorado Springs, all of them under "chips" upon an area not more than five rods square.
6002. *Trimyctis pruinosa*, *LeC.* Taken at Pueblo by Mr. Popenoe.
6029. *Emmenastus acutus*, *Horn.* Abundant under "chips" in South Park.
6068. *Asida opaca*, *Say.* One specimen only was taken at Colorado Springs. Abundant in the Upper Arkansas valley, west of South Park.
6070. *Asida polita*, *Say.* Common at Colorado Springs under "chips."
6071. *Asida sordida*, *LeC.* One specimen at Colorado Springs.
6094. *Asida convexicollis*, *LeC.* Rare near Colorado Springs.
6097. *Asida elata*, *LeC.* One specimen.
6098. *Ologlyptus anastomosis*, *Say.* Taken at Pueblo by Mr. Popenoe.
6105. *Eusattus reticulatus*, *Say.* Taken at Pueblo by Mr. Popenoe.
6109. *Eusattus difficilis*, *LeC.* One specimen.
- 6109a. *Eusattus convexus*, *LeC.* Three specimens, at Colorado Springs.
6126. *Conioutis obesa*, *LeC.* Several specimens.
6131. *Elcodes tricornata*, *Say.* Common at Colorado Springs, under "chips."
6132. *Elcodes carbonaria*, *Say.* Taken by Mr. Popenoe in Pleasant Valley, Arkansas river.
6133. *Elcodes obsoleta*, *Say.* Exceedingly abundant at Colorado Springs.
6137. *Elcodes extricata*, *Say.* Common at Colorado Springs.
6149. *Elcodes nigrina*, *LeC.* Common in South Park.
6150. *Elcodes hispilabris*, *Say.* Eight specimens, at Colorado Springs.
6165. *Elcodes cordata*, *Esch.* One specimen.
6167. *Elcodes opaca*, *Say.* Twenty specimens, found under old bones near Colorado Springs.
6202. *Iphthimus serratus*, *Mannh.* var. Common under pine bark in Engelmann's cañon.
6208. *Upis ceramboides*, *Linn.* One specimen.
6244. *Blapstinus pratensis*, *LeC.* Abundant in South Park.
6266. *Tribolium madens*, *Charp.* One specimen.
6320. *Platydemia Oregonense*, *LeC.* One specimen.
- ALLECULIDÆ.
6375. *Hymenorus obscurus*, *Say.* Three specimens.
- ANTHICIDÆ.
6432. *Stereopalpus guttatus*, *LeC.* Three specimens.
6442. *Corphyra Lewisii*, *Horn.* Five specimens.
- *Notoxus* sp. An undetermined species.
6511. *Anthicus granularis*, *LeC.* One specimen.
- *Anthicus* sp. An undetermined species, probably new, two specimens.
- MELANDRYIDÆ.
6578. *Anaspis nigra*, *Hald.* Abundant everywhere below timber line, upon *Solidago*.
6583. *Anaspis rufa*, *Say.* Common in cañons along eastern border of South Park.
6593. *Mordella melena*, *Germ.* Common.
6594. *Mordella scutellaris*, *Fabr.* Common.
- *Mordella* sp. Probably a new species. Common.
- MELOIDÆ.
6701. *Meloe sublaevis*, *LeC.* Common at Colorado Springs.
- *Meloe* sp. An undetermined species, one specimen.
6702. *Nomaspsis parvula*, *Hald.* One specimen.
6731. *Epicauta ferruginæa*, *Say.* Common in Engelmann's cañon, Manitou, Ute Pass, etc.

6732. *Epicauta sericans*, *Lec.* Common.  
 6733. *Epicauta pruinosa*, *Lec.* This and the preceding species were found upon potatoes wherever cultivated, and upon *Astragalus flexuosus* in the mountains.

6738. *Epicauta maculata*, *Say.* Common.

— *Epicauta maculata* var. A variety with large spots, much more common than the typical form of the species.

6750. *Pyrota mylabrina*, *Chev.* Abundant in vicinity of Denver.

6772. *Cantharis viridana*, *Lec.* Exceedingly restricted in its distribution, but found in abundance in two or three half-acre spots at an altitude of about 10,000 feet, upon *Astragalus flexuosus*, which seems to be the natural food-plant of several species of *Meloidæ*.

6791. *Cautbaris sphaericollis*, *Say.* Two specimens.

6808. *Nemognatha bicolor*, *Lec.* Four specimens were taken on thistles at Colorado Springs.

6809. *Nemognatha lurida*, *Lec.* Common on thistles (*Cirsium undulatum*) at Colorado Springs and along the Ute Pass.

6821. *Nemognatha nigripennis*, *Lec.* One specimen.

6825. *Nemognatha immaculata*, *Say.* Twelve specimens were taken at Colorado Springs.

6830. *Gnathium minimum*, *Say.* Taken by Mr. Popenoe at Pueblo.

OEDEMERIDÆ.

6841. *Ditylus obscurus*, *Lec.* One specimen.

CURCULIONIDÆ.

6953. *Ophryastes vittatus*, *Say.* Four specimens, at Colorado Springs.

6954. *Thecesternus affinis*, *Lec.* One specimen.

— *Cleonus 4-lineatus*, *Chev.* One specimen.

7106. *Balaninus nasiceus*, *Say.* One specimen.

— *Balaninus quercus*, *Horn.* One specimen.

— *Acalles basalis*, *Lec.* One specimen.

— *Tricalaphus planirostris*, *Lec.* n. sp. One specimen, described in Dr. LeConte's monograph on the "Rhynchophora of N. America," p. 413.

— *Baris* sp. An undetermined species.

— *Aulobaris ibis*, *Lec.* Three specimens, South Park.

7281a. *Sphenophorus vomerinus*, *Lec.*, var. *baridoides*

7400. *Dendroctonus terebrans*, *Lec.* Eight specimens, at Colorado Springs.

SCOLYTIDÆ.

7410. *Hylastes macer*, *Lec.* One specimen.

— *Hylastes longus*, *Lec.*, n. sp. Described in Dr. LeConte's "Rhynchophora," p. 389. One specimen.

ANTHRIBIDÆ.

— *Brachytarsus griseus*, *Lec.*, n. sp. Described on p. 405 of LeConte's "Rhynchophora." Taken in abundance at Girten's Sulphur Springs, in South Park, upon *Actinella Richardsonii*.

SUMMARY OF SPECIES (not including varieties).

Cicindelidæ .....	10
Carabidæ .....	42
Dytiscidæ .....	5
Staphylinidæ .....	5
Silphidæ .....	4
Dermestidæ .....	4
Endomychidæ .....	1
Erotylidæ .....	2
Paruidæ .....	1
Histeridæ .....	5
Trogositidæ .....	4
Nitidulidæ .....	2
Coccinellidæ .....	12
Lucanidæ .....	1
Scarabæidæ .....	19
Buprestidæ .....	15
Elateridæ .....	10
Lampyridæ .....	6
Telephoridæ .....	3
Malachidæ .....	4
Cleridæ .....	6
Cerambycidæ .....	40
Spermophagidæ .....	3
Chrysomelidæ .....	32
Tenebrionidæ .....	25
Alleculidæ .....	1
Anthridæ .....	5
Melandyridæ .....	2
Mordellidæ .....	5
Meloidæ .....	15
Oedemeridæ .....	1
Curculionidæ .....	11
Scolytidæ .....	2
Anthribidæ .....	1
Total: families, 34; species.....	304

In order to furnish the means of estimating the success of our expedition in collecting insects, it may be stated that the number of species of coleoptera collected in Colorado in 1873 by the Government expedition under Lieut. Carpenter, was 165. In the summer of 1872 Mr. J. D. Putnam, of Davenport, Iowa, collected 250 species in the same region.