A CATALOGUE OF THE COLEOPTERA OF COLORADO.

By H. F. WICKHAM.

The Coleoptera of Colorado have been made the subject of numerous memoirs, of more or less importance, since Congress gave the region its name and territorial standing in 1861. Most of the earlier explorations were made under the auspices of the Federal Government, and the results were published in the reports of the department which had the expedition in charge. A short sketch of these papers may not be out of place.

In the year 1869, C. Thomas made a collection which was reported upon by Dr. G. H. Horn.¹ The route followed ran from Cheyenne, along the eastern flanks of the Rocky Mountains, to Denver, whence side trips were made to Georgetown, Central City and the Middle Park. The party then went southward, through Colorado City, Soda Springs, Cañon City, and Trinidad, across the Raton Mountains into New Mexico. Returning, Colorado was again entered and collections made in the San Luis Valley, Poncha Pass, Arkansas Valley, South Park and Denver. No records of localities were kept and consequently the list has little value to the student of distribution.

A few years later, Lieut. W. L. Carpenter, U. S. A., collected some beetles at various points, among which may be noted Colorado Springs, Fairplay, Twin Lakes, the South

¹ A List of Coleoptera collected by C. Thomas in Eastern Colorado and Northwestern New Mexico during the Survey of 1869. By Dr. G. H. Horn. Hayden's Preliminary Report of the U. S. Geol. Survey of Wyoming and portions of contiguous Territories, for 1870. Washington, 1872.

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Park and Estes Park. Unfortunately but few of the locality records were preserved. The list is from the pen of Henry Ulke.¹ Lieut. Carpenter added to Mr. Ulke's paper a separate account of some forms taken at an altitude of more than 12,000 feet. A number of Colorado records are contained in an article by Mr. Ulke that appeared at a later late.²

The next contribution is by Mr. J. Duncan Putnam.³ He publishes a list of some two hundred and fifty species taken by himself, chiefly near the sources of Clear Creek, in the neighborhood of Empire City; a few are from the Middle Park, others from the base of the mountains at Denver, Boulder and Cañon City. The determinations are credited to Mr. Ulke. Exact localities are not quoted, and as he made excursions to the summits, the collection represents a mixed fauna and gives no data on vertical distribution.

Mr. P. R. Uhler follows with a report which is of interest and importance on account of the notes regarding localities and habits; his paper⁴ deals with what is now well-trodden ground,—the valley of Clear Creek, through Golden and Beaver Brook. He also spent some time in the Arkansas valley near Cañon City as well as at Denver, Manitou and Colorado Springs. All of this work was done in the month of August. Dr. A. S. Packard made a collection in the valley of Clear Creek and on Gray's Peak during the same summer, and has given careful records.⁵

¹ List of Species of Coleoptera collected by Lieut. W. L. Carpenter, U. S. A., for the U. S. Geological Survey of Colorado. By Henry Ulke. Seventh Annual Report of the U. S. Geological Survey, for 1873. Washington, 1874.

² Report on the collections of Coleoptera made in portions of Nevada, Utah, California, Colorado, * * * * * during the years 1871, 1872, 1873 and 1874. Report of the Geographical and Geological Explorations and Surveys west of the 100th meridian, Vol. V, Washington, 1875.

⁸ List of Coleoptera collected in the Rocky Mountains of Colorado in 1872. Proceedings of the Davenport Academy of Natural Sciences, 1876.

⁴ Report upon the Insects collected by P. R. Uhler during the Explorations of 1875. Coleoptera. Bulletin of the Geological and Geographical Survey, 1877, Vol. III.

⁵ Ninth Annual Report of the U. S. Geological and Geographical Survey, for 1875. Washington, 1877.

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The University of Kansas Expedition, in charge of Prof. F. H. Snow, made large collections in 1876, chiefly in the neighborhood of Colorado Springs, whence trips were made to the surrounding plains and mountains. The South Park was visited by way of the Ute Pass and a stay was made in Engelmann's Cañon on the Pike's Peak trail. The results were published by Prof. Snow.¹ The omission of locality from many of the records detracts much from the value. Two years later, another party from the same University camped near Dome Rock in the Platte Cañon and took nearly a hundred species. This collection was also reported upon by Prof. Snow.² About this time a list was published by Dr. H. Strecker, on a series of Coleoptera taken in the San Juan region.³ No definite localities are affixed to any of the names, but from a perusal of the accompanying notes on Lepidoptera it is evident that the expedition worked about Pagosa Springs and along the small rivers flowing southward out of the San Juan Continental Divide through Hinsdale, Archuleta and La Plata counties into the Ute reservation. Some may be from the adjacent regions of New Mexico.

Dr. J. L. Leconte is the author of some important memoirs on the Rocky Mountain fauna, though the material on which they are based was obtained by others. In the first of these papers⁴ no localities are cited for most of the species other than saying that they came from Southern Colorado and Northern New Mexico, chiefly from the eastern foot hills of the Rocky Mountains. The second and third papers appeared under

¹ List of Coleoptera collected in Colorado in June, July and August, 1876, by the Kansas University Scientific Expedition. Transactions of the Kansas Academy of Science, Vol. V, 1877.

² List of Coleoptera collected near Dome Rock, Platte Cañon, by the Kansas University Scientific Expedition for 1878. Transactions of the Kansas Academy of Science, Vol. VI, 1877-1878.

⁸ Coleoptera. Annual Report of the Chief of Engineers for 1878.

⁴ Report upon new species of Coleoptera collected by the expeditions for Geographical Surveys West of the 100th Meridian. Annual Report of the Chief of Engineers for 1876, Appendix jj. one title¹ and treat respectively of collections made by Mr. Fred C. Bowditch and Mr. E. A. Schwarz. Mr. Bowditch collected mostly in the vicinity of Georgetown, in the Leavenworth Valley, the South Park and near Florissant. A number of records, however, are of species taken at Alma, Garland and Manitou, or on high mountains. The collections of Mr. Schwarz are from the southern part of the state—Alamosa, Garland, La Veta and Veta Pass. These papers are of the highest scientific value.

Finally we have the publications of Prof. T. D. A. Cockerell, who resided for some time at West Cliff, in Custer county, and who printed several articles on the insect fauna of Colorado, the most important being one dealing with the entomology of Custer county.² This memoir is not a mere list of species but contains numerous valuable notes on habits together with a discussion of several distributional problems. Other papers by this author treat of the insects of different parts of the state.

The amount of work done by investigators who have not published the results is very considerable and probably their records would more than equal those which have appeared in print. Some of the more important trips may be noted here. In 1877, the late Mr. H. K. Morrison spent three months in the state, making collections in all orders, but I believe that he did not furnish accurate localities with his material; at any rate I have seen nothing more definite than "Colo. Morr." on any of the labels. In 1885, Messrs. Roland Hayward and Fred. C. Bowditch made a long journey on horseback from Gunnison to Montrose, thence through part of the Uncompahgre country to Placerville, Rico, Durango and Northern New Mexico. Returning, they went back to Durango, thence eastward to Pagosa Springs, up the valley of the San Juan to

¹ The Coleoptera of the Alpine Regions of the Rocky Mountains. Part I. Bulletin of the U. S. Geological and Geographical Survey, Vol. IV, No. 2, 1878. Part II., t. c. Vol. V, No. 3, 1879.

² The Entomology of the Mid-Alpine Zone of Custer County, Colorado. Transactions of the American Entomological Society, Vol. XX, 1893. Summitville, down to Del Norte, through the San Luis Valley to Saguache and from there to Gunnison. Accurate records were kept and through the kindness of Mr. Hayward and Mr. Bowditch I am able to include them in this paper. The work done at the Colorado Agricultural College by Prof. C. P. Gillette and his assistants is very important, since they have brought together a great number of species from Fort Collins as well as many from other parts of the state. Having seen practically all of these collections, which were kindly sent me for study by Prof. Gillette, the data are now made available for reference. Mr. E. J. Oslar has sent me collections from the neighborhood of Denver, as well as some from other localities which have been useful. My own work as a collector in Colorado may be stated briefly as follows,-a stop at Greeley during the early part of May, 1889; a visit to Cañon City, Salida, Red Cliff and Grand Junction in May, 1891; about two months at Colorado Springs, Buena Vista, Leadville and Breckenridge in 1896, followed the next summer by a trip of several weeks duration to Denver, Georgetown, the Leavenworth Valley, Silver Plume and Ouray.

From the foregoing remarks it will be seen that nearly all of the collecting has been done in a strip extending north and south, embracing the territory covered by the principal mountain chains and their foot-hills, while the great slope of plains lying east of the longitude of Pueblo is practically untouched. Nothing is known of the extreme northwestern corner and in fact most of the region west of the 108th meridian is still waiting to be worked. Further study should be made of the very high peaks, in search of remnants of the Arctic fauna.

The phenomena of distribution in Colorado are of much interest. Within a radius of a few miles we may find assemblages of species representing at least three distinct faunæ. The first, that of the great plains surrounding the mountains, is marked by a great development of wingless or imperfectly winged forms, probably largely invaders from the south where we may suppose that the arid deserts first made their appearance and where this characteristic feature is more in evidence

among the beetles. Good examples may be found among the Meloidae, Tenebrionidae and epigæal Rhynchophora. Occasionally these forms leave their natural haunts and extend for long distances up the river valleys. Thus Eleodes may sometimes be met with at altitudes exceeding ten thousand feet. As we enter the timbered country on the higher foot-hills and lower mountain sides, we encounter a fauna which while not unmixed with species that have come up from the plains, shows a strong affinity to the life about our Great Lakes. Higher still-that is to say from about eight thousand to nine thousand feet, according to the exposure, presence or absence of near-by snow-fields and so on-we meet with many species of genera still more boreal in habits. We may mention Nebria with its many species, usually taken along the coldest mountain streams, the flattened Bembidia, and the large Aphodii. Above timber line the peaks sustain a few beetles which seem to be of arctic origin, left, probably, by the retreating ice-sheets of the Glacial period.

I cannot agree with Prof. Cockerell¹ who claims that the Glacial epoch would, for the time being, result in the almost complete extermination of the insect fauna of Colorado and the adjacent table-lands. He assumes that the arid region "where not actually glaciated would be a frozen desert," something which I think is not indicated by such geological evidence as we possess. The glaciation of Colorado was apparently not particularly extensive. Neither does it seem likely that the western ice-sheet went so far south as San Diego; at any rate the indications seem to show that along the highlands of Southern California only the loftier mountains were glaciated at all. Today great glaciers exist in the immediate vicinity of well-wooded districts rich in animal life. The same phenomenon may have occurred during ancient times.

For the present I refrain from discussing the correlation between alpine and isothermal life-zones; the more readily as I hope soon to treat the matter from a standpoint different

¹ Transactions of the American Entomological Society, Vol. XX, p. 319.

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from that usually taken. There is of course that parallelism between alpine and boreal productions which is due to conditions of climate and temperature, so that generally speaking, the ascent of a mountain takes us through a series of plants and animals corresponding more or less closely to what we should see in passing from south to north along the base of the chain. However, migration up or down a mountain-side is easy — often enforced by freshets or high winds — and insects may occasionally occur in great numbers in situations where they could not possibly breed.

LIST OF LOCALITIES CITED, WITH APPROXIMATE ALTITUDES.

While many of the altitudes here cited are not quite exact, they are sufficiently accurate for our purpose. Some of the data are drawn from the publications of the United States Geological Survey, others from various railroad maps, and the remainder are estimates or measurements furnished by the collectors themselves. It must not be forgotten that the actual altitude at which a specimen was collected may differ by several hundred feet from that cited for the station, since many of the towns are built on mountain-sides and a collector, in order to save trouble, may label all of his captures alike. Others adopt the plan of inclusive labelling, giving the extremes of altitude reached during work in a certain neighborhood.

In addition, I have appended to each station of importance the name of the investigator, and where one of these localities is cited in the following pages the credit of collecting must be allotted accordingly. Some instances occur where a different plan had to be adopted and in these cases the collector or authority is mentioned directly in the proper connection.

Alamosa. 7,500. Schwarz. Alma. 10,250. Bowditch. Arapahoe Peak. 11,000–12,000. Summit 13,520. Argentine Pass. 13,286. Bowditch and Wickham. Arkins. 6,000. O. E. Buffum.

Aspen. 7,874. W. W. Willard. Bailey's. 7,714.

Beaver Brook. 6,391. Uhler.

Beaver Creek. Flows into the Poudre. Gillette.

Berkeley. Suburb of Denver. Oslar.

Big Narrows of Poudre. 6,800. C. F. Baker.

Boulder. 5,500.

Breckenridge. 9,674. Wickham. July.

Buena Vista. 7,925. Wickham. July.

Cañon City. 5,400.

Cañon of Big Blue. 8,500. Hayward and Bowditch. July. Cerro Summit. Above Montrose, on D. & R. G. R. R. Gillette.

Cheyenne Cañon. 6,200.

Chimney Gulch. 5,909. Oslar.

Cimarron. 6,874. Gillette.

Clear Creek Cañon. Near Denver, 6,000-8,000.

Cochetopa Pass. 10,000. Bowditch and Hayward. August. Colorado Springs. 6,000.

Cusack Ranch. In Wet Mountain Valley. 8,192. Cockerell.

Delta. 4,950. Gillette.

Dolores. Gillette.

Dome Rock. 6,200. Snow. July.

Durango. 5,500-7,000.

Engelmann's Cañon. 6,000-8,000. Snow.

Estes Park. 8,600. The toll road runs between the Park and Lyons.

Florence. 5,199.

Florissant. 8,184. Bowditch.

Fort Collins. 5,000. The collections from this vicinity were made by Professor C. P. Gillette together with his collaborators or assistants, C. F. Baker, E. J. G. Titus, E. D. Varney and Miss Emma A. Gillette. The same parties also took the species recorded from the following points in the same general neighborhood, at altitudes ranging from 5,000 to 6,000 feet. Dixon, Rist, Owl, Soldier's, Poudre and Spring cañons; Howe's Gulch, Horsetooth Gulch, Pleasant Valley, Baxter's Ranch, Bellevue, Laporte, Warren's Lake, New Windsor and Redstone.

Garden of the Gods. 6,100.

Garland. 7,900. Schwarz. (List by Leconte.)

Georgetown. 8,500.

Glenwood Springs. 5,758. Gillette.

Golden. 5,690.

Gore Pass. 10,000. Gillette.

Grand Junction. 4,561. Wickham. May.

Grape Creek. In Wet Mountain Valley. Cockerell.

Gray's Peak. Summit, 14,348; Kelso's Cabin, 11,200. Packard.

Greeley. 4,642. Wickham. May.

Gunnison. 7,500. Hayward and Bowditch.

Happy Hollow. Gillette.

Holly. 3,377. Gillette.

Horsefly Peak Divide. 8,000. Hayward and Bowditch. July.

Horseshoe Park. In Estes Park. Gillette.

Horsetooth Mountain. 8,000. C. F. Baker, J. H. Cowan. Hotchkiss. 5,000. Gillette.

Hourglass Lake. Almost at timber line, near Little South. Gillette.

Idaho Springs. 7,500.

La Junta. 4,000. June.

Lamar. 4,000. Gillette.

La Veta. 7,000. Schwarz. (List by Leconte.)

Leadville. 10,178. Wickham. July.

Leavenworth Valley. 9,000–10,000. Bowditch and Wickham.

Little Beaver. Gillette.

Little Willow Creek. 8,000. Bowditch and Hayward. July.

Little South. Small stream about thirty miles west of Fort Collins, flowing into the Poudre. Gillette.

Livermore. 6,000. E. D. Varney.

Long Gulch. 6,000-6,500. About six miles west and north of Stove Prairie. Gillette.

Longmont. 4,935. Gillette.

Long's Peak. Summit, 14,271; Lamb's Ranch over 9,000. Gillette.

Manhattan. 7,500. Gillette.

Manitou. 6,300.

Marshall Pass. 10,850. Gillette.

Micawber Mine. In Custer county, about 10,000. Cockerell.

Mineral Point Trail. Above Ouray, 9,000–10,000. Wickham. July.

Montclair. Suburb of Denver. Oslar.

Montrose. 6,000. Bowditch and Hayward. July.

Monument Gulch. 7,000–9,000. Bowditch and Hayward. July.

Moose Mountain. Above Leadville; about 11,000–12,000. Wickham. July.

Morrison. 5,753. Oslar.

Mountains southwest of Montrose. 9,000–10,000. Hay-ward and Bowditch. July.

Mount Abrams. In the vicinity of Ouray, about 11,000-12,000. Wickham. July.

Mount Lincoln. 11,000–12,000. Bowditch.

Nathrop. 7,673. Cockerell.

North Park. 8,000-9,000. Gillette.

Ouray. 7,640. Wickham. July.

Pagosa Springs. 7,100. The records sent by Mr. Hayward, for himself and Mr. Bowditch, call for 8,000-9000.

Palmer Lake. 7,238. Gillette.

Peak Eight. 10,000–12,000. In the Ten Mile Range near Breckenridge. Wickham. July.

Pike's Peak. Summit, 14,147.

Placerville. 8,388. Hayward and Bowditch.

Platte Cañon. Station, 5,492.

Poncha Springs. 7,480. Oslar.

Poudre Cañon. N. Anderson.

Pueblo. 4,669.

Red Cliff. 8,650. Wickham. May.

Red Mountain Road. 8,500-10,000. Above Ouray. Wickham. July.

Rico. 8,500–10,000. Bowditch and Hayward. July. Rocky Ford. 4,160. F. A. Huntley.

Rustic. 7,000. Summer resort 50 miles west of entrance to Poudre Cañon, on river. Gillette.

Salida. 7,028.

San Luis Valley. 7,700. Hayward and Bowditch. August. Short Creek. In Wet Mountain Valley. Cockerell.

Silver Plume. 9,176. Wickham. Most of my collections with this label were made in the creek valley a mile or two above the town. June.

Silverton. 9,400. Gillette.

South Fork of San Miguel. 8,500. Bowditch and Hayward. July.

South Park. 8,000-10,000.

Steamboat Springs. 6,500. Gillette and Baker.

Stove Prairie. 6,000. Eighteen miles west of Fort Collins. Gillette and Baker.

Summitville. 10,000–11,500. Hayward and Bowditch. August.

Swift Creek. In Wet Mountain Valley. Cockerell.

Texas Creek. Also in Wet Mountain Valley. Cockerell. Trinidad. 5,900.

Trout Lake. 9,700.

Twin Lakes. 9,357. Ulke.

Ula. In Wet Mountain Valley. Cockerell.

Ute Pass Road. 7,000-9,000. Snow.

Upper San Juan. 7,000–10,500. Bowditch and Hayward Veta Pass. 9,500. Schwarz. (Leconte list.)

West Cliff. 7,842. Cockerell.

West Las Animas. 3,886. Hayward.

Wet Mountain Valley. 8,000-10,000. Cockerell.

Williams River Valley. Bowditch.

The preparation of this paper was begun five years ago and has proceeded with more or less interruption up to the present. My thanks for aid are due to most of the active Coleopterists of the country, since help in one form or another has been rendered by nearly all. I wish, however, to acknowledge special indebtedness to these: the late Dr. Geo. H. Horn, who was always ready to examine puzzling forms; Mr. Henry Ulke, who gave me names of many species during the earlier years of my entomological studies; Major Thos. L. Casey and Mr. Chas. Liebeck for identifications in special groups; Mr. Roland Hayward for names of Bembidium and for a very large number of manuscript records; Mr. Fred. C. Bowditch and Prof. T. D. A. Cockerell for manuscript records; Prof. C. P. Gillette for allowing me to examine the entire collection of the Colorado Agricultural College and afterwards sending data corresponding to the accession numbers; and finally to my wife who has done the major part of the bibliographical and clerical work in connection with the preliminary construction of the catalogue.

LIST OF SPECIES.

CICINDELIDÆ.

- AMBLYCHILA CYLINDRIFORMIS Say. One specimen, found dead in spider's web. Webster Park, Snow.
- TETRACHA CAROLINA Linn. Colorado, Ulke.
- CICINDELA OBSOLETA Say. Southeastern Colorado, Horn.
- C. VULTURINA Lec. Durango, July 23-August 8, Hayward and Bowditch.
- C. PRASINA Lec. Colorado, Ulke.
- C. LONGILABRIS Say. Near Long's Peak; Bellevue and Rist Cañon, June; Stove Prairie and Little South, July; West Cliff; Brush Creek, 10,000 to 12,000 ft., June.
- C. LAURENTII Schaupp. Estes Park, Snow; Hall Valley, South Park, July, Oslar; Dolores and Silverton, June; Leadville and Breckenridge, July; Toll Road above Ouray, July; Georgetown and passes in mountains above, 8,500 to 11,500 ft., Packard, Bowditch, Wickham.
- C. PERVIRIDIS Schaupp. Red Mt. Road, July; Silverton, June; Horsefly Peak Divide, July; Rico, July; Pagosa Springs, August.
- C. SCUTELLARIS Say. Cañon City, May, Denver, June, Wickham; Bear Creek Cañon, Jefferson Co., April, Oslar; Bellevue and Lamar, May.
- C. NIGROCŒRULEA Lec. Colorado, Leconte.

- C. PULCHRA Say. South Park, Ulke; Pueblo, June, San Luis Valley, August, Hayward; Chimney Gulch, May; Cañon City, August, Uhler; Lyman Junction, August, Bruner; Fort Collins, June and August.
- C. PATRUELA Dej. West Cliff.
- C. PURPUREA Oliv. In the Putnam list and both of Ulke's reports; Veta Pass; Fort Collins, March and May. A variety was taken by H. G. Smith, Jr., at Denver, (Cockerell *in litt*.).
- C. AUDUBONII Lec. Bear Creek Cañon and Denver, Oslar, April; Fort Collins, April and May; Dome Rock, Snow; South Park, Snow and Bowditch.
- C. GRAMINEA Schaupp. Northern Colorado, August, Gillette; Lamar and Fort Collins, June; Denver, July, Wickham; Clear Creek, Oslar.
- C. CIMARRONA Lec. Southern Colorado or Northern New Mexico, Leconte; South Park, Snow.
- C. DECEMNOTATA Say. Colorado, Schaupp.
- C. LIMBALIS Klug. Horsefly Peak Divide, one specimen, July.
- C. AMŒNA Lec. Southern Colorado, and Northern New Mexico, Leconte.C. SPLENDIDA Hentz. Denver, July, Wickham; a record, with doubt, is given from the South Park in the Bowditch list.
- C. DENVERENSIS Casey. All of the specimens that I have seen were collected by Mr. Oslar. He has sent it to me from Platte Cañon, Boulder Cañon, Chimney Gulch and Denver. The dates are April and May.
- C. FORMOSA Say. Salida, May, Denver, June, July, Wickham; Rist and Poudre Cañons, April; Lamar, May.
- C. GENEROSA Dej. Colorado, Leng and Beutenmueller, Jour. N. Y. Ent. Soc., I, p. 92.
- C. VENUSTA Lec. Near Colorado Springs, Snow; same place, June, Wickham; Trinidad, May, Gillette.
- C. TENUICINCTA Schaupp. Colorado, Schaupp.
- C. FULGIDA Say. Cañon City, May, Wickham; Fort Collins, June; Banks of the Platte, South Park, Snow.
- C. VULGARIS Say. Cañon City, Grand Junction, Denver and Buena Vista, Wickham; Gunnison; Lamar, May; Trinidad, May, Montrose, June, Gillette.
- C. REPANDA Dej. Cañon City, Colorado Springs, Buena Vista, Wickham; Boulder, Packard; Arvada, Oslar; Lamar, Dolores, Trinidad and Poudre Cañon, Gillette. The dates run between the last week in April and the middle of June.
- C. OREGONA Lec. Gunnison, June; South Fork of San Miguel, July; Cañon City, May, Wickham; South Park, Bowditch; West Cliff.
- C. GUTTIFERA Lec. Manitou, Snow; South Park, Bowditch; Southern Colorado and Northern New Mexico, Leconte.
- C. 12-GUTTATA Dej. Manitou, Snow; Beaver Brook Gulch, Uhler; Plateau Creek, near Eagalite, Mesa Co., September, Cockerell; Dome Rock; Gunnison; road from Gunnison to Montrose; South Fork of San Miguel. I doubt if all of these records refer to the true 12-guttata.
- C. HIRTICOLLIS Say. Colorado, Ulke. I have seen a specimen from Trin-

idad, collected in May by Prof. Gillette which might possibly belong here, but seems to me more like a slightly abnormal *repanda*.

- C. PUSILLA Say. Colorado, Ulke. Buena Vista, July, Wickham. In a swarm of Cicindelas taken at the place mentioned, I found a great variety of forms running from *pusilla* to *cinctipennis*.
- C. CINCTIPENNIS Lec. Buena Vista and Leadville, Wickham; Horsefly Peak Divide, July; Fort Collins, June, specimen of the green variety.
- C. PUNCTULATA Fabr. Fort Collins; Denver, July, August, September; Garden of the Gods, Packard; Clear Creek Cañon, Uhler; San Luis Valley, La Junta, Durango, Hayward; Colorado Springs, Pike's Peak, 9,000-10,000 feet, Wickham.
- C. MICANS Fabr. Red Creek, Custer Co., Cockerell; La Junta, June, Hayward; Denver and Colorado Springs, Wickham.
- C. MACRA Lec. "This species and *sperata* Lec., will undoubtedly, occur in Colorado, as I have them from a few miles south of the southern boundary" (Bowditch).
- C. LEPIDA Dej. Colorado, Leng and Beutenmueller, Jour. N. Y. Ent. Soc., II, p. 95.
- C. HÆMORRHAGICA Lec. Colorado, Ulke.

CARABIDÆ.

OMOPHRON AMERICANUM Dej. Bellevue, May; Berkeley; La Veta.

- O. TESSELLATUM Say. Fort Collins, at light, July.
- TRACHYPACHYS INERMIS Mots. Argentine Pass, Bowditch; Ouray; Veta Pass; West Cliff; Breckenridge, in moss under log.
- CYCHRUS ELEVATUS Fab. Reported from Colorado by Ulke, (coll. Carpenter) and by Leconte; Fort Collins, Wm. Fairfield, June; Engelmann's Cañon.
- C. SNOWI Lec. Durango, Bowditch and Hayward.
- CARABUS MÆANDER Fisch. West Cliff.
- C. TÆDATUS Fabr. This species and its varieties occur at many points in the state, but it seems likely that different recorders have carried their determinations to different grades of completeness. Under the name tædatus, we find the following localities:-Above 12,000 feet, Carpenter; Dome Rock; West Cliff; Kelso's Cabin, foot of Gray's Peak; Idaho Springs, Packard; Wales Cañon, Pueblo Co., Cockerell; Plains south of Denver and Roaring Fork, Ulke; Argentine Pass, 13,000 feet, Bowditch; Elk River, ten miles north of Steamboat Springs, Baker; vicinity of Fort Collins, April, May, July and August; Little Willow Creek; Cañon of Big Blue; Rico; Upper San Juan; Summitville; Mountains southwest of Montrose; South Park. For the variety agassii we have Leconte's record, Southern Colorado, and Putnam's record, with Ulke as authority. The localities credited with oregonensis are: Rist Cañon, June; Silver Plume; Leavenworth Valley (above Georgetown), 10,000 to 11,000 feet; Argentine Road and Argentine Pass, 12,000 to 13,500 feet; Georgetown; Ouray; Buena Vista, wooded bottoms; Leadville, along mountain streams; Moose Mountain (near Leadville), above timber line; Breckenridge, in deep woods.

- C. SERRATUS Say. Near Manitou, Wickham; Buena Vista, in wooded creek bottom; Rist Cañon, April and June; Fort Collins, July; Denver, Ulke; Mace's Hole, Pueblo Co., Cockerell; West Cliff.
- CALOSOMA SCRUTATOR Fab. Southern Colorado, Leconte.
- C. PEREGRINATOR Guer. La Junta, Hayward.
- C. TRISTE Lec. Colorado, Ulke; Estes Park, August, Varney; vicinity of Fort Collins, July.
- C. OBSOLETUM Say. South Park, Ulke; plains west of Denver, Uhler; West Las Animas, Hayward; Dixon Cañon, September; Fort Collins, May; Greeley; Salida, Wickham.
- C. MORRISONII Horn. Colorado, Horn.
- C. HAYDENI Horn. Southern Colorado, Horn; Durango, Hayward and Bowditch.
- C. CALIDUM Fab. Plains south of Denver, Ulke; Southern Colorado, Leconte.
- C. TEPIDUM Lec. This name occurs in the Putnam list.
- C. LUXATUM Say. Denver; Fort Collins, April and June.
- ELAPHRUS CLAIRVILLEI Kirby. Leavenworth Valley, 9,000-10,000 feet; Georgetown; Buena Vista; Leadville.
- E. LECONTEI Crotch. Buena Vista.
- E. RIPARIUS Linn. Manitou, Snow; South Park, Ulke; Berkeley, Oslar; Garland; Alamosa; Placerville; Gunnison; Georgetown; Leavenworth Valley.
- E. RUSCARIUS Say. Warren's Lake, October.
- LORICERA CÆRULESCENS Linn. South Park; Georgetown; Cochetopa Pass.
- OPISTHIUS RICHARDSONII Kirby. Kemmling, Grand Co., Cockerell; Red Cliff; Ouray; Fort Collins, June; Trout Lake, Bowditch; Rico; South Fork of San Miguel; Gunnison; Pagosa Springs; Upper San Juan.

NOTIOPHILUS SEMISTRIATUS Say. Southern Colorado, Leconte.

- N. SIBIRICUS Mots. West Cliff; Leadville; Veta Pass, 9,000 to 9,500 feet.
- N. HARDVI Putz. Georgetown; Silver Plume; Argentine Pass, 13,000 feet, Bowditch; Leavenworth Valley, Wickham; Breckenridge; Veta Pass; Cochetopa Pass; Rico; Little Willow Creek; Mountains southwest of Montrose; Durango; Little Beaver Creek, July.
- NEBRIA PURPURATA Lec. First taken above Georgetown, in the Leavenworth Valley, by Mr. Bowditch; afterward found in the cañon of the Big Blue by Hayward and Bowditch. As the stream was very high and the beaches covered, specimens were found under the bark of halfsubmerged logs. San Juan river, 9,000 feet, August; South Fork of San Miguel; I took it at various points above Georgetown, representing altitudes from 9,000 to 11,000 feet.
- N. OBTUSA Lec. North Fork of the South Platte, 6,000 to 7,000 feet, Bowditch; South Fork of San Miguel; Upper San Juan; Garland, Bowditch; Ouray, and points above, Wickham.
- N. OBLIQUA Lec. North Fork of the South Platte, Bowditch; Gunnison; Monument Gulch; South Fork of San Miguel; Upper San Juan; San

Luis Valley; Garland; La Veta; Georgetown; Leavenworth Valley; Ouray; Leadville.

- N. LONGULA Lec. Colorado, Leconte.
- N. SAHLBERGI Fisch. Peaks above 12,000 feet, Carpenter; Rico; Summitville; Upper San Juan; Trout Lake; Leavenworth Valley; Silver Plume; Argentine Road and Pass.
- N. TRIFARIA Lec. Leadville; Red Cliff; Ouray; Red Mountain Road, 10,000 to 11,000 feet; Leavenworth Valley, 9,000 to 11,000 feet; Foot of Mam Mountain, Mesa County, Cockerell; Durango; Cañon of Big Blue; Mountains southwest of Montrose; South Fork of San Miguel; Rico; Upper San Juan; San Luis Valley.
- N. MANNERHEIMII Fisch. Mr. Hayward writes that he has a specimen from the South Fork of the San Miguel which he refers to this species.
- N. ESCHSCHOLTZII Men. I have taken a series of Nebria at various points which Mr. Hayward has compared with specimens in the Leconte cabinet and pronounces the opinion that they are a small race of this species. Silver Plume; Leavenworth Valley, 9,000 to 11,000 feet; Red Mountain Road and Mineral Point Trail, 9,000 to 11,000 feet.

PASIMACHUS DUPLICATUS Lec. Southern Colorado, Leconte.

- P. OBSOLETUS Lec. Colorado Springs, Wickham; recorded from the state without definite locality by Leconte and Ulke.
- P. ELONGATUS Lec. Colorado Springs; Denver; La Junta, Hayward; Durango, Bowditch and Hayward; Golden, Oslar; La Veta; Larkspur, Uhler; Vicinity of Fort Collins, May to September.
- P. CALIFORNICUS Lec. Colorado, Leconte.

Dyschirius ÆNEOLUS Lec. Garland; Alamosa.

- D. GLOBOSUS Say. Rico.
- D. SPHÆRICOLLIS Say. Southern Colorado, Leconte.
- D. TRUNCATUS Lec. West Cliff; Garland; La Junta, Bowditch.
- D. ERYTHROCERUS Lec. A specimen from the Leavenworth Valley is referred here with some doubt.
- D. MONTANUS Lec. Garland; Alamosa.
- D. SETOSUS Lec. One specimen marked Colorado is in my collection.
- SCHIZOGENIUS SALLEI Putz. A record, with the mark of doubt, is given in the Schwarz list, for the locality La Veta.
- S. AMPHIBIUS Hald. Durango, Hayward. I have an undetermined species from Colorado Springs.
- BEMBIDIUM NITIDUM Kirby. Gunnison; North Fork of South Platte, Bowditch; Dixon Cañon; Salida, Wickham; Buena Vista; Colorado Springs; West Cliff.
- B. INÆQUALE Say. Rocky Mountains, Leconte, Ann. N. Y. Lyceum, IV, 452.
- B. LITTORALE Oliv. Dolores; Gunnison; South Fork of San Miguel; Upper San Juan; Red Cliff.
- B. LORQUINI Chaud. South Fork of San Miguel; Upper San Juan.
- B. COXENDIX Say. La Junta, Hayward; Delta, April, Gillette.
- B. CONFUSUM Hayward. Colorado, Putnam. Mr. Hayward also gives me a state record.

- B. BIFOSSULATUM Lec. Warren's Lake, October; Clear Creek Cañon, August; Beaver Brook Gulch; South Platte River, west of Denver, Uhler; Colorado Springs, Wickham; Denver, Packard; Alamosa; Garland; La Veta; Gunnison; Durango; West Las Animas; La Junta, Hayward.
- B. AMERICANUM Dej. Near Sloan's Lake, west of Denver, Uhler.
- B. CHALCEUM Dej. Greeley, Wickham.
- B. LONGULUM Lec. Georgetown; Leavenworth Valley, 9,000 to 10,000 feet; Garland; La Veta; Gunnison; Cañon of the Big Blue; Horsefly Peak Divide; Durango; Pagosa Springs; Cochetopa Pass.
- B. QUADRULUM Lec. Gunnison; Placerville; Red Cliff.
- B. RECTICOLLE Lec. Gunnison; Monument Gulch; Mountains southwest of Montrose; Durango; Upper San Juan; Florissant.
- B. PLANATUM Lec. Red Cliff; Gunnison; South Fork of San Miguel; Pagosa Springs; Upper San Juan; Ouray; San Luis Valley; Ironton, Gillette.
- B. PLANIUSCULUM Mann. Trout Lake; Ouray; Red Mountain Road, 9,000 to 10,000 feet; Gunnison; Cañon of the Big Blue; Pagosa Springs; Upper San Juan; San Luis Valley; South Fork of San Miguel; Leavenworth Valley; Silver Plume.
- B. COMPLANULUM Mann. Upper San Juan.
- B. MÆKLINI Lec. San Miguel County, Hamilton; Red Cliff.
- B. INCERTUM Mots. Plentiful above Leadville, along little streams; South Park; Alma; Mountains southwest of Montrose; Williams River Valley; Alamosa; Ouray; Leavenworth Valley; Argentine Road, 12,000 to 13,000 feet.
- B. BREVE Mots. Silver Plume.
- B. NEBRASKENSE Lec. Cochetopa Pass; Gunnison; Cañon of Big Blue; Mountains southwest of Montrose; Horsefly Peak; Durango; South Fork of San Miguel; Leadville; Colorado Springs; Buena Vista.
- B. FUGAX Lec. Red Cliff.
- B. TRANSVERSALE Dej. Pueblo and Trout Lake, Bowditch; Colorado Springs and Cañon City, Wickham; Spring Cañon; Georgetown; Ouray; Red Cliff; Garland; La Veta; Gunnison; Upper San Juan; a common species found indiscriminately on alkaline flats and margins of streams.
- B. LUGUBRE Lec. Cañon City and Colorado Springs, Wickham; La Veta; Pagosa Springs; vicinity of Fort Collins, March and April.
- B. CONSANGUINEUM Hayward. Cañon City, Wickham.
- B. STRIOLA Lec. Cañon City; Mountains southwest of Montrose; specimens which Mr. Hayward doubtfully refers here were taken at Ouray and in the Leavenworth Valley.
- B. BIMACULATUM Kirby. West Cliff; Idaho Springs, Packard; South Park, 8,000 to 10,000 feet; Gunnison; Leavenworth Valley; Garland; Buena Vista; Breckenridge; Leadville.
- B. USTULATUM Linn. Cañon of Big Blue; Upper San Juan; Gunnison; South Fork of San Miguel; Florissant; Idaho Springs.
- B. LUCIDUM Lec. Near Fort Collins, March and April; Dome Rock; West Cliff; Garland; La Veta; Veta Pass; Florissant; Ouray; Georgetown; Leavenworth Valley; Buena Vista; Breckenridge; Leadville; Colorado

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Springs; La Junta; Gunnison; Cañon of Big Blue; South Fork of San Miguel; Durango; Pagosa Springs; Upper San Juan; Salida; Cañon City.

- B. FUSCICRUM Mots. Salida; Leavenworth Valley; Poudre Cañon; Florissant; Gunnison; San Luis Valley; Buena Vista; Breckenridge; Leadville.
- B. SCOPULINUM Kirby. Vicinity of Fort Collins, March and April; Georgetown; Leavenworth Valley; Mountains southwest of Montrose; North Fork of South Platte; Garland; Colorado Springs; La Veta; Veta Pass, 9,400 feet.
- B. GRAPHI Gyll. Leavenworth Valley, 10,000 to 11,000 feet; Alma; Rico; Cañon of Big Blue; Dolores, June; Breckenridge; Leadville; Peak Eight, above timber.
- B. CONSIMILE Hayward. Colorado Springs, Wickham, on alkaline mud.
- B. CORDATUM Lec. Warren's Lake, October; Colorado Springs; La Junta; West Las Animas; La Veta; Veta Pass, 9,400 feet.
- B. DENTELLUM Thunb. Garland; West Cliff; both of these records are under the name *arcuatum* Lec.
- B. COLORADENSE Hayward. Mountains southwest of Montrose; Monument Gulch; Horsefly Peak; South Fork of San Miguel; Rico; Upper San Juan; Williams River Valley, 9,000 feet.
- B. INDISTINCTUM Dej. West Cliff; Little Blue Creek, Gunnison County, Cockerell.
- B. UMBRATUM Lec. Montrose; Durango; Garland.
- B. ÆNEICOLLE Lec. Garland; Mr. Hayward writes that a single specimen from Colorado is in the Horn collection.
- B. VARIEGATUM Say. Vicinity of Fort Collins, March, April, June, July, October; Manitou; Colorado Springs; Denver; Ouray; Leavenworth Valley.
- B. NIGRIPES Kirby. Buena Vista; Leadville; Gunnison; Little Willow Creek; Mountains southwest of Montrose; Durango; San Luis Valley; Florissant; Leavenworth Valley; Georgetown.
- B. INTERMEDIUM Kirby. South Park, 8,000 to 10,000 feet, Bowditch; Garland; Veta Pass; Colorado Springs; La Junta, Hayward; Grand Junction, Wickham.
- B. TIMIDUM Lec. Mountains southwest of Montrose; Durango; Upper San Juan; Colorado Springs; Spring Cañon, March; Warren's Lake, October.
- B. VERSICOLOR Lec. Warren's Lake, October; La Veta; Alamosa; Garland; Breckenridge; Colorado Springs; Grand Junction.
- B. DEJECTUM Casey. Colorado Springs, June, Wickham.
- B. OBTUSANGULUM Lec. South Park, 8,000 to 10,000 feet, Bowditch; San Luis Valley; Salida, Wickham.
- B. RUBIGINOSUM Lec. Garland; Veta Pass, 9,400 feet.
- B. CONSTRICTICOLLE Hayward. Colorado Springs, July, Wickham.
- B. DYSCHIRINUM Lec. Leavenworth Valley; Breckenridge; Leadville.
- B. PRÆCINCTUM Lec. Alamosa; Florissant; Gunnison; Horsefly Peak; Leadville; Buena Vista; Leavenworth Valley; Ouray.
- B. DUBITANS Lec. Garland; Buena Vista; Ouray; Leavenworth Valley.
- B. MUTATUM G. & H. Durango; Mountains southwest of Montrose; Veta Pass, 9,350 feet; Leadville; Williams River Valley, 9,000 feet.

- B. QUADRIMACULATUM Linn. Reported from the state by Ulke; vicinity of Fort Collins, March; Colorado Springs.
- B. AFFINE Say. Colorado, Hayward, in litt.
- B. ACUTIFRONS Lec. Alamosa; La Veta; Veta Pass; Ouray; Williams River Valley.
- B. CAUTUM Lec. La Veta.
- B. CONNIVENS Lec. La Veta.
- B. ASSIMILE Gyll. Ouray; Colorado Springs, Wickham.
- TACHYS NANUS Gyll. Veta Pass; Ouray; Rist Cañon, April, under pine bark; Colorado Springs in same situations.
- T. INCURVUS Say. West Cliff; Salida; La Veta.
- T. DOLOSUS Lec. Colorado, Hayward.
- T. AUDAX Lec. Western Colorado, Hayward.
- T. NEBULOSUS Chaud. Cañon City; Colorado Springs.
- T. FERRUGINEUS Dej. Recorded from Colorado by Leng and Beutenmueller.
- T. VITTIGER Lec. Colorado Springs, Wickham; the name is from Dr. Horn.
- T. CORAX Lec. Colorado, 10,000 feet, Hayward.
- PATROBUS LONGICORNIS Say. Garland; La Veta; Boulder, Packard; Colorado Springs; Buena Vista.
- P. SEPTENTRIONIS Dej. Aspen; Leadville; Gunnison; Ouray; Silver Plume; Leavenworth Valley.
- P. ATERRIMUS Dej. Idaho Springs, Packard; Nathrop, Cockerell; Gunnison; South Fork of San Miguel; Ouray; Red Mountain Road; Georgetown; Silver Plume; Leavenworth Valley.
- TRECHUS CHALVBEUS Mann. Garland; Plateau Creek, near Eagalite, September, Cockerell; Mountains southwest of Montrose; Rico; Durango; Red Cliff; Breckenridge; Leadville; Peak Eight, above timber; Mineral Point Trail, 9,000 to 10,000 feet; Leavenworth Valley.
- PTEROSTICHUS HERCULEANUS Mann. Wales Cañon, Pueblo County, Cockerell.
- P. VALIDUS Dej. Colorado, Bowditch.
- P. PROTRACTUS Lec. Dome Rock, Snow; Roaring Fork and Fort Garland, Ulke; Marshall Pass; Fort Collins, September; Estes Park, July; Ironton, Gillette; near Long's Peak; Red Mountain Road, 8,000 to 9,000 feet; Leavenworth Valley; Durango; Horsefly Peak; Pagosa Springs; Red Cliff; Colorado Springs; Buena Vista; Breckenridge; Leadville; often found under logs in wooded districts.
- P. LONGULUS Lec. Omitting several more or less indefinite localities, we have the following records for this widely distributed species; Cimarron, Cockerell; West Cliff; San Luis Valley; Roaring Fork; Red Cliff; Garland; Veta Pass, 9,000 feet; Durango; Rico; Summitville; Upper San Juan; Georgetown; Silver Plume; Leavenworth Valley, 10,000 to 11,000 feet; Red Mountain Road; Breckenridge; Leadville.
- P. SUBSTRIATUS Lec. Pueblo, Bowditch; Colorado Springs, common under stones and about Yucca roots, August, Uhler.
- P. CONSTRICTUS Say. Southern Colorado, Leconte; Colorado Springs, Wickham.

- P. INCISUS Lec. Colorado Springs, Snow; La Junta, Hayward; La Veta; Greeley.
- P. LACHRYMOSUS Newm. Colorado, Bowditch.
- P. SCITULUS Lec. Pueblo; Berkeley, July; Colorado Springs, June and July; Fort Collins, May and October.
- P. LUCUBLANDUS Say. Berkeley, May; Colorado Springs.
- P. CONVEXICOLLIS Say. Alamosa; vicinity of Fort Collins, March to May.
- P. CAUDICALIS Say. Fort Collins, April; Greeley, May.
- P. LUCTUOSUS Dej. Fort Collins.
- P. MUTUS Say. Red Cliff, determined by Dr. Horn; Nathrop, Cockerell.
- P. ORINOMUM Leach. South Park, Bowditch; Leavenworth Valley, 9,000 to 10,000 feet; Ironton, Gillette; Salida; Red Cliff; Garland.
- P. LUCZOTH Dej. Vicinity of Fort Collins, March and June; Idaho Springs, Packard; Berkeley, June; South Park, 8,000 to 10,000 feet, Bowditch; West Cliff; San Luis Valley, Ulke; Pleasant Valley, Fremont County, Cockerell; Gunnison; Little Willow Creek; Cañon of Big Blue; Rico; Mountains southwest of Montrose; Durango; Silver Plume; Georgetown; Leavenworth Valley; Buena Vista; Colorado Springs, June and July; Breckenridge; Leadville; common under logs in woods and near streams.
- P. ERVTHROPUS Dej. Greeley; Fort Collins, April.
- P. FEMORALIS Kirby. Colorado Springs.
- P. HUDSONICUS Lec. Red Cliff. The name is from Dr. Horn.
- P. SURGENS Lec. Moose Mountain, about 12,000 feet, near snow bank; Alma; Durango; Leavenworth Valley and Argentine Pass, 10,000 to 13,000 feet; Red Mountain Road.
- P. RIPARIUS Dej. Slope of Gray's Peak, 12,000 feet, Packard. This and the two preceding species are closely allied and it is possible that one or more of the records are in error.
- EVARTHRUS TORVUS Lec. Colorado, probably taken in the vicinity of Fort Collins.
- AMARA AVIDA Say. North Fork of South Platte, 7,000 to 8,000 feet; Idaho Springs; La Junta, Bowditch.
- A. RUFIMANA Kirby. Grand Junction, Bowditch; Little Willow Creek; Cañon of Big Blue.
- A. CYLINDRICA Lec. South Park, 8,000 to 10,000 feet; Cochetopa Pass; doubtful records are at hand for western Custer County, and Durango.
- A. JACOBINÆ Lec. Mr. Hayward gives me the record Colorado, with a mark of doubt.
- A. LATICOLLIS Lec. West Cliff; La Junta; Mountains southwest of Montrose; Cañon of Big Blue; Durango; Cochetopa Pass; Little Willow Creek; Mr. Hayward does not feel certain of the correctness of identification in the case of the last five localities, this being a very difficult section of the genus and the original descriptions insufficient.
- A. CARINATA Lec. Colorado Springs.
- A. ESCHSCHOLTZII Chaud. Roaring Fork, Ulke; Cochetopa Pass, Bowditch.
- A. HYPERBOREA Dej. Pike's Peak, a short distance below summit, Snow; summit of Mt Abrams, above Ouray, about 13,000 feet, Wickham; Peak

Eight, above timber; mountains above 12,000 feet, Carpenter; Colorado, 14,000 feet, Bowditch.

- A. BRUNNIPENNIS Dej. Above timber line and up to 15,000 feet. Recorded from Moose Mountain, Peak Eight, Arapahoe Peak, Pike's Peak, Mt. Lincoln and the Argentine Pass. Seems scarcely distinct from *hyperborea*.
- A. TRISTIS Putz. Williams River Valley, Bowditch.
- A. LATIOR Kirby. West Cliff; Colorado Springs; Ouray; Salida; Mountains southwest of Montrose; Durango.
- A. SEPTENTRIONALIS Lec. La Junta; Durango.
- A. ANGUSTATA Say. Mountains southwest of Montrose.
- A. PALLIPES Kirby. Colorado, Horn; Aspen, Gillette.
- A. SCITULA Zimm. Rico.
- A. IMPUNCTICOLLIS Say. Red Cliff; Colorado, Snow.
- A. FALLAX Lec. South Pueblo County, Cockerell; Florissant; La Junta; Dome Rock; Buena Vista; Breckenridge; Ouray.
- A. SUBPUNCTATA Lec. Florissant; South Park; Leavenworth Valley; Rico; Gunnison; Little Willow Creek; Mountains southwest of Montrose; San Luis Valley.
- A. CONFUSA Lec. Little Willow Creek; Durango; San Luis Valley; Cochetopa Pass; La Junta, Bowditch; Garland; Rio Grande, Ulke; West Cliff; Fremont County, Cockerell; Colorado Springs; Breckenridge; Leadville.
- A. PROTENSA Lec. Monument Gulch.
- A. POLITA Lec. West Cliff; Salida; Little Willow Creek; Georgetown; Leavenworth Valley; Colorado Springs; Buena Vista; Ouray; Garland; Rico; San Luis Valley; Mt. Lincoln.
- A. ERRATICA Sturm. Alma; South Park; Cañon of Big Blue; Rico; Little Willow Creek; Veta Pass; Williams River Valley; Leavenworth Valley; Breckenridge; it is also doubtfully recorded from West Cliff.
- A. INTERSTITIALIS Dej. West Cliff; Wales Cañon, Pueblo County, Cockerell; Veta Pass; South Park, 8,000 to 10,000 feet, Bowditch; Montrose; San Luis Valley; Cochetopa Pass; Idaho Springs, Packard; Colorado Springs, July; Buena Vista; Georgetown, June; Ouray, July; Salida, May.
- A. FARCTA Lec. Colorado Springs; Leadville; Cañon of the Big Blue; Little Willow Creek.
- A. OBESA Say. In the Bowditch list this species is said to occur everywhere between 8,000 and 10,000 feet; Alma; Florissant; San Luis Valley; South Park; Cañon of the Big Blue; Dome Rock; West Cliff; Idaho Springs, Manitou and Golden, Packard.
- A. REMOTESTRIATA Dej. West Cliff; Clearwater Creek, Mesa County, 9,800 feet, Cockerell; Cimarron, Cockerell; Cañon City, Wickham; Veta Pass, 9,400 feet; Idaho Springs, Packard; Colorado Springs; Buena Vista; Breckenridge; Leadville; Georgetown; Silver Plume; Argentine Pass; Mt. Lincoln; Gunnison; Monument Gulch; Little Willow Creek; Cañon of Big Blue; Montrose; Rico; Durango; Cochetopa Pass; South Park, Bowditch.

- A. CHALCEA Dej. "8,000 to 10,000 feet, everywhere," Bowditch; West Cliff, in doubt; Silver Plume; Georgetown, Wickham.
- A. BRUNNEA Gyll. Colorado, Horn.
- A. GIBBA Lec. "8,000 to 10,000 feet, everywhere," Bowditch; Salida. Professor Cockerell gives a record, with doubt, from western Custer County.
- A. RUBRICA Hald. Colorado, Horn; La Junta, Bowditch.
- A. SUBÆNEA Lec. Rico; Upper San Juan; Montrose.
- A. MUSCULUS Say. West Cliff; Ouray.
- A. FEMORALIS Horn. Mt. Lincoln; Argentine Pass; Gunnison; Cañon of Big Blue; Rico.
- A. NUPERA Horn. Fremont County, Cockerell; West Cliff; Little Willow Creek.
- DIPLOCHILA MAJOR Lec. Fort Collins, August.
- DICÆLUS LÆVIPENNIS Lec. Northern Colorado, May; Fort Collins.
- D. SCULPTILIS Say. Manitou, Packard; Colorado Springs, near mouth of Cheyenne Cañon, Wickham.
- BADISTER PULCHELLUS Lec. Ouray, on bank of small lake.
- B. OBTUSUS Lec. Southern Pueblo County, Cockerell.
- CALATHUS INGRATUS Dej. 8,000 to 13,000 feet, Bowditch; Buzzard Creek, Mesa County, Cockerell; Marshall Pass, Gillette; Veta Pass, 9,400 to 10,000 feet; Dome Rock; Red Cliff; Leadville; Leavenworth Valley, 10,000 to 11,000 feet; Argentine Pass; Ouray; Alma; Rico; Mountains southwest of Montrose; Durango.
- C. ADVENA Lec. Rico; Upper San Juan.
- C. IMPUNCTATUS Say. Ouray.
- C. DUBIUS Lec. Buena Vista; Ouray; Idaho Springs; La Junta; Florissant; Horsefly Peak; Cañon of Big Blue; Mountains southwest of Montrose; Cochetopa Pass; Durango.
- PLATYNUS LARVALIS Lec. Fort Collins, May.
- P. CAUDATUS Lec. Durango.
- P. DISSECTUS Lec. Ouray; some specimens from Denver are also provisionally included here, but they are smaller than usual. Taken by Hayward and Bowditch at Durango, Cochetopa Pass, Upper San Juan and Gunnison.
- P. JEJUNUS Lec. Squaw Creek, Eagle and Chaffee Counties, Cockerell; the identification is credited to the United States National Museum.
- P. OVIPENNIS Mann. Straight Creek, Summit County, Cockerell, determined by Hamilton.
- P. DECENS Say. Ouray.
- P. EXTENSICOLLIS Say. Fort Collins, August; Mr. Hayward reports the form *viridis* from Durango.
- P. CALIFORNICUS Dej. Professor Cockerell took specimens along Cottonwood Creek, Fremont County, which Dr. Hamilton referred to the variety *texanus*.
- P. BICOLOR Dej. Red Cliff; Cañon of Big Blue; South Fork of San Miguel; Durango.
- P. PICEOLUS Lec. Aspen; Ouray; Upper San Juan; South Fork of San Miguel; Durango.

- P. ERRANS Say. South Park, 8,000 to 10,000 feet; Salida; Buena Vista.
- P. PROPINQUUS G. & H. Ouray.
- P. AFFINIS Kirby. This is recorded, with doubt, from West Cliff, by Cockerell.
- P. CARBO Lec. Gunnison, Bowditch.
- P. CUPRIPENNIS Say. Ouray; Gunnison; Alamosa; Nathrop; South Park, 8,000 to 10,000 feet; Buena Vista; Leadville; Colorado Springs. Mr. Hayward writes that he has a specimen of the variety *subsericeus* from Little Willow Creek.
- P. BASALIS Lec. "Nebraska, near the Rocky Mountains," Leconte.
- P. NUTANS Say. Dixon Cañon.
- P. PLACIDUS Say. Vicinity of Fort Collins, March and August; Dome Rock; Florissant; Idaho Springs; Salida; Denver; Ouray; Red Mountain Road; San Luis Valley; Roaring Fork; South Fork of San Miguel; Pagosa Springs; Colorado Springs; Buena Vista.
- P. PLANIPENNIS Mots. Colorado, Hamilton. According to Dr. Horn, this is probably a variety of *P. fossiger* Dej.
- P. CUPREUS Lec. South Park; San Luis Valley, Bowditch.
- P. CRASSICOLLIS Lec. Little Willow Creek.
- P. OBSOLETUS Say. Colorado, Snow; South Park, Ulke.
- P. BEMBIDIOIDES Kirby. Little Beaver Creek, July, Gillette; Silver Plume.
- P. SORDENS Kirby. West Cliff; Durango; Garland.
- P. RUFICORNIS Lec. Ouray.
- LEBIA DIVISA Lec. Vicinity of Fort Collins, March to May.
- L. GRANDIS Hentz. Colorado, Snow.
- L. ATRICEPS Lec. Vicinity of Fort Collins, February to July; Pueblo, Bowditch; Colorado Springs.
- L. PULCHELLA Dej. Horsefly Peak.
- L. VIVIDA Bates. West Cliff.
- L. CVANIPENNIS Dej. This species and the variety *ruficollis* Lec., are both reported from Durango by Mr. Bowditch.
- L. VIRIDIS Say. West Cliff; Pueblo, Cockerell; Durango; South Fork of San Miguel; Berkeley, June; Colorado Springs; Rustic; Dolores; Marshall Pass, August; vicinity of Fort Collins, March to June, September and October. Mr. Bowditch has the variety *moesta* from the valley of the Upper San Juan.
- L. SCAPULARIS Dej. San Luis Valley, Bowditch.
- L. FURCATA Lec. West Cliff; Berkeley, June 15.
- L. DEPICTA Horn. Rist Cañon, August; Livermore.
- L. GUTTULA Lec. Durango, Bowditch.
- L. BIVITTATA Fabr. Colorado Springs, on the open prairie.
- APRISTUS SUBSULCATUS Dej. Gunnison; La Veta.
- BLECHRUS NIGRINUS Mann. West Cliff; Garland; Colorado Springs; Fort Collins, March to June and also in September.
- B. LUCIDUS Lec. Colorado, Horn.
- METABLETUS AMERICANUS Dej. Garland; Veta Pass; Horsefly Peak; Little Willow Creek; Leavenworth Valley, 9,000 to 11,000 feet; Leadville; Breckenridge; Buena Vista.

AXINOPALPUS BIPLAGIATUS Dej. Garland; vicinity of Fort Collins, April and May.

TECNOPHILUS CROCEICOLLIS Men. La Junta, Hayward; a specimen from Colorado, without definite locality, is in my cabinet. Mr. Hayward's specimen belongs to the variety *pilatei*.

CALLIDA FULGIDA Dej. Dixon Cañon, March and May; Bellevue, May.

C. PURPUREA Say. Colorado, Snow.

PHILOPHUGA AMENA Lec. Fort Collins, April; Horsetooth Gulch, May; Florissant; Durango; Pagosa Springs; Colorado Springs; Buena Vista, chiefly about the roots or lower leaves of Yuccas.

CYMINDIS LATICOLLIS Say. South Park, Snow; Veta Pass.

- C. CRIBRICOLLIS Dej. South Park, Snow; Black Lake Creek, Summit County, Cockerell; Roaring Fork; Breckenridge; Leadville; Moose Mountain, above timber; near Long's Peak; Plains south of Denver; Fort Garland; Horsefly Peak; Argentine Pass; Leavenworth Valley and Argentine Road, 9,000 to 11,000 feet; Mt. Lincoln; Pike's Peak, Bowditch; Cañon of Big Blue; Little Willow Creek; Mountains southwest of Montrose; Rico.
- C. PLANIPENNIS Lec. Pikeview, El Paso County, and Lakeview, Fremont County, Cockerell; West Cliff; Denver, May; Colorado Springs; Buena Vista; Fort Collins; Ouray; Gunnison; Monument Gulch; Cochetopa Pass; San Luis Valley; Durango; Pagosa Springs; La Junta; South Park, Snow.
- C. UNICOLOR Kirby. Red Mountain Road, 9,000 to 10,000 feet; summit of Mt. Abrams, over 11,000 feet; Argentine Pass, 12,000 feet; Mt. Lincoln; Summitville; Rico; Breckenridge; Leadville.

HELLUOMORPHA TEXANA Lec. Fort Collins and Bellevue, May and June.

- BRACHYNUS MINUTUS Harr. Denver, Packard; specimens from Fort Collins are referred here with doubt.
- B. CONFORMIS Dej. Recorded from the state by Putnam and Ulke; Montrose, Bowditch.
- B. BALLISTARIUS Lec. Durango; Fort Collins.
- CHLÆNIUS SERICEUS Forst. Denver, June and August; Colorado Springs, July; Ouray; Alamosa; Gunnison; Durango; La Junta; vicinity of Fort Collins; Delta.
- C. LATICOLLIS Say. Southern Colorado, Leconte.
- C. PRASINUS Dej. Colorado, Leng and Beutenmueller.
- C. LEUCOSCELIS Chev. Delta, April; Durango.
- C. SOLITARIUS Say. Fort Collins. Reported from the state without definite locality, by Dr. Horn.
- C. NEBRASKENSIS Lec. Bellevue, May; Cañon City.
- C. TRICOLOR Dej. Dolores, June.
- C. BREVILABRIS Say. Colorado, Horn; Durango, Bowditch.
- C. PENNSYLVANICUS Say. Fort Collins, May; Alamosa; Ouray.
- C. INTERRUPTUS Horn. A pair from Buena Vista, taken in a salt marsh. The identification is due to Dr. Horn.

BRACHYLOBUS LITHOPHILUS Say. Ouray; Garland.

GEOPINUS INCRASSATUS Dej. Fort Collins, June; Denver; Pueblo; Poncha Springs, July; Greeley, September.

- NOTHOPUS ZABROIDES Lec. Fort Collins; Denver; Pueblo; Colorado Springs; Salida; Durango; Lamar; La Junta; occurs from May to September.
- CRATACANTHUS DUBIUS Beauv. Fort Collins, April and May; Colorado Springs, June to August; Denver; Pueblo; Garland; Durango; La Veta; La Junta; Clear Creek Cañon; Buena Vista.
- PIOSOMA SETOSUM Lec. Durango, May and July; Fort Collins, July and August; Alpine, Snow; Colorado Springs, June to August; Pagosa Springs; La Junta.
- AGONODERUS LINEOLA Fab. Fort Collins, May and June; Greeley; La Junta.
- A. PALLIPES Fab. Denver; Livermore; Fort Collins; Ouray; Colorado Springs; Buena Vista; West Cliff; Idaho Springs. Prof. Cockerell records a variety *nigricollis* from Cottonwood Creek, Fremont County. The species may be found from March to August.
- A. INDISTINCTUS Dej. Dixon Cañon, April.

DISCODERUS IMPOTENS Lec. La Junta, Bowditch.

- HARPALUS AUTUMNALIS Say. A few specimens taken at Colorado Springs were referred here by Dr. Horn.
- H. ERRATICUS Say. Montclair and Clear Creek Cañon, August.
- H. RETRACTUS Lec. San Luis Valley; South Park, August, Oslar; Durango; Pagosa Springs; Garland; West Cliff; Colorado Springs, June and July.
- H. AMPUTATUS Say. An abundant species in open spots. La Junta; Cañon of Big Blue; Mountains southwest of Montrose; Durango; Upper San Juan; San Luis Valley; Cochetopa Pass; Summitville; South Park; Alamosa; Garland; West Cliff; Denver; Cimarron; Colorado Springs; Buena Vista; Cañon City, May; Fort Collins, March to August; Golden.
- H. CALIGINOSUS Fab. Fort Collins; Denver; Golden; Berkeley; Clear Creek; La Junta; Durango.
- H. FAUNUS Say. Montrose; Durango.
- H. VAGANS Lec. Nathrop, Cockerell. The name is from the U.S. National Museum.
- H. PENNSYLVANICUS De Geer. Denver; Golden; Fort Collins; La Junta; Durango. The variety *compar* is known from Salida and Colorado Springs, while *erythropus* is from the latter locality only.
- H. SPADICEUS Dej. Colorado, Snow.
- H. FALLAX Lec. Georgetown; Ouray; La Junta; Gunnison; Cañon of Big Blue; Mountains southwest of Montrose; Rico; Durango; Idaho Springs; Kelso's Cabin, Gray's Peak, July; Cañon City, August; Colorado Springs, June to August; Buena Vista; Breckenridge.
- H. PLEURITICUS Kirby. Cochetopa Pass; Alamosa.
- H. HERBIVAGUS Say. Alma; South Park; Little Willow Creek.
- H. VENTRALIS Lec. Garland, Bowditch.
- H. OPACIPENNIS Hald. Colorado, Ulke.
- H. NITIDULUS Chaud. Recorded in doubt from West Cliff.
- H. ELLIPSIS Lec. Garland; Veta Pass; San Luis Valley; Cañon of Big Blue; South Park; La Junta; Gunnison; Georgetown; Leavenworth Valley, 10,000 to 11,000 feet; Colorado Springs.

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- H. INNOCUUS Lec. Breckenridge and Leadville, abundant.
- H. CARBONATUS Lec. Veta Pass; Little Willow Creek.
- H. MONTANUS Lec. Cañon of Big Blue; San Luis Valley; Leadville; Argentine Pass; Mt. Lincoln; Silver Plume.
- H. LATICEPS Lec. San Luis Valley.
- H. FRATERNUS Lec. Denver; South Park; Gunnison; Pagosa Springs; Leavenworth Valley, 9,000 to 10,000 feet.
- H. FUNESTUS Lec. Fort Collins; Nathrop; Garland; La Junta; Cochetopa Pass; San Luis Valley; Ouray; Georgetown; Leavenworth Valley; Argentine Road.
- H. OBLITUS Lec. Fort Collins; Denver; Beaver Brook; Manitou; Colorado Springs; Salida; Cañon City; Pagosa; Idaho Springs; Georgetown; Silver Plume; Garland; Veta Pass; La Junta; Greeley; Gunnison; Monument Gulch; Little Willow Creek; Cañon of Big Blue; Durango; Cochetopa Pass; South Park; North Fork of South Platte; Buena Vista; Breckenridge.
- H. CLANDESTINUS Lec. Garland; Buena Vista.
- H. FURTIVUS Lec. Golden; Idaho Springs; Manitou; Garland; Little Willow Creek; San Luis Valley.
- H. OCHROPUS Kirby. South Park; San Luis Valley; Cochetopa Pass; Montrose; Colorado Springs; Buena Vista.
- H. LUSTRANS Casey. South Park; Cañon City; Chimney Gulch; Fort Collins; Gunnison.
- H. BASILARIS Kirby. South Park; Alamosa; Gunnison; Cochetopa Pass; West Cliff; Cañon City; Fort Collins; Greeley; Georgetown; Ouray; Buena Vista; Breckenridge; Leadville.
- H. VARICORNIS Lec. Colorado, Putnam.
- H. ALIENUS Lec. Veta Pass.
- SELENOPHORUS PEDICULARIUS Dej. San Luis Valley; Clear Creek; Fort Collins; Golden; Colorado Springs, common about the roots of plants on dry hillsides.
- S. FOSSULATUS Dej. La Junta, Hayward.
- STENOLOPHUS PLEBEIUS Dej. Denver, H. G. Smith, Jr., determined by Dr. Horn.
- S. CONJUNCTUS Say. Vicinity of Fort Collins, February to May; West Cliff; Florissant; Colorado Springs; Buena Vista.
- S. UNICOLOR Dej. Colorado Springs, June; I found a small colony under a board on an alkali flat. The name is from Dr. Horn.
- S. OCHROPEZUS Say. Fort Collins, March and April; Colorado Springs, June; Buena Vista.
- BRADYCELLUS COGNATUS Gyll. Cattle Creek, Garfield County, Cockerell; Fort Collins; Greeley; Cochetopa Pass; Garland; Georgetown; Ouray; Buena Vista; Breckenridge; Leadville.

B. RUPESTRIS Say. Fort Collins; Colorado Springs; Buena Vista; Alamosa. TACHYCELLUS NIGRINUS Dej. West Cliff.

T. BADIIPENNIS Hald. West Cliff.

ANISODACTYLUS DILATATUS Dej. Colorado, Bowditch.

THE COLEOPTERA OF COLORADO.

A. RUSTICUS Dej. Colorado, Ulke; Bellevue, May.

A. CARBONARIUS Say. Colorado, Horn.

A. HARRISH Lec. Fort Collins, April.

A. NIGRITA Dej. Cottonwood Gulch, Saguache County, Cockerell.

A. BALTIMORENSIS Say. Fort Collins, April; Alamosa.

A. PITYCHROUS Lec. Colorado, Horn.

A. TERMINATUS Say. Colorado, Ulke.

A. LUGUBRIS Dej. Colorado, Snow.

AMPHIZOIDÆ.

AMPHIZOA LECONTEI Matth. Glenwood Springs, at the junction of the Roaring Fork with Grand River, Hubbard; Georgetown, one specimen, Wickham; Mr. Hayward reports that he and Mr. Bowditch found a specimen floating down stream in the cañon of the Big Blue, and about a dozen others under stones at the edge of the river along the Upper San Juan, at an altitude of about 8,000 feet.

HALIPLIDÆ.

HALIPLUS CRIBRARIUS Lec. Garland; Ouray.

- H. RUFICOLLIS De Geer. Gunnison, Bowditch; West Cliff; Alamosa; Garland.
- CNEMIDOTUS EDENTULUS Lec. "Kansas, near the Rocky Mountains," Leconte.

DYTISCIDÆ.

- LACCOPHILUS MACULOSUS Germ. In the Putnam list; vicinity of Fort Collins, March, April and August.
- L. DECIPIENS Lec. Gunnison, Bowditch; Alamosa; West Cliff; Fort Collins, August; Denver; Buena Vista.

L. QUADRILINEATUS Horn. Colorado, Crotch.

BIDESSUS AFFINIS Say. Durango and Gunnison, Bowditch; San Luis Valley; West Cliff; Garland; Alamosa; Mr. Schwarz reports the variety *obscurellus* from Garland and I have the form *macularis* from Colorado Springs. A species of *Bidessus* closely allied to *affinis*, if not identical with it, was taken at Ouray.

B. LACUSTRIS Say. Fort Collins, August, in stagnant water.

CELAMBUS INÆQUALIS Fab. Garland.

C. PATRUELIS Lec. Mr. Hayward records this species, with a mark of doubt, from Horsefly Peak Divide.

- C. SUTURALIS Lec. Fort Collins, August; Placerville, Bowditch.
- C. SELLATUS Lec. Gunnison, Bowditch; Denver, Packard; Alamosa.
- C. MEDIALIS Lec. Colorado Springs, June; Buena Vista.
- C. NUBILUS Lec. Buena Vista; Colorado Springs, June; Fort Collins, August; Florissant, Bowditch.
- C. IMPRESSOPUNCTATUS Sch. Placerville, Bowditch. A species of this genus was taken by Mr. Bowditch at Rico and Alamosa, which he thinks may be new.

NATURAL HISTORY BULLETIN.

DERONECTES CATASCOPIUM Say. In the Putnam list; West Cliff; Ouray.

- D. GRISEOSTRIATUS De Geer. Alamosa; Gunnison; Durango; the last two records come from Mr. Bowditch.
- D. STRIATELLUS Lec. Florissant; Colorado Springs; Durango, Bowditch; Dolores; Howe's Gulch and Rist Cañon, April; Garland; Alamosa.
- HVDROPORUS 12-LINEATUS Lec. A specimen from Georgetown is presumed to belong here.
- H. SEPTENTRIONALIS Gyll. Durango and San Juan River, Bowditch.
- H. RIVALIS Gyll. Georgetown; Florissant; the latter record is for the form *congruus* Lec.
- H. CALIGINOSUS Lec. Reported under the name *puberulus*, from the Leavenworth Valley.
- H. TENEBROSUS Lec. Montrose, Bowditch.
- H. TARTARICUS Lec. Upper San Juan and Leavenworth Valley, Bowditch; Horsefly Peak Divide, Hayward. A species closely allied to this and to *morio* Sharp, was taken at Leadville and Breckenridge.
- H. TRISTIS Payk. Abundant in Ute Pass, below the Bridal Veil falls, Snow.
- H. CONTRACTULUS Mann. Veta Pass, Bowditch.
- H. OBLITUS Aube. Colorado Springs.
- H. VILIS Lec. Durango, Bowditch; Montrose; Georgetown, Wickham; Red Mountain Road.
- H. BELFRAGEI Sharp. Colorado, Snow, (record from Bowditch).

ILVBIUS SUBÆNEUS Er. Placerville, Bowditch.

- I. VIRIDIÆNEUS Cr. A specimen from Denver is doubtfully referred here.
- I. QUADRIMACULATUS Aube. Colorado, Ulke.
- I. ANGUSTIOR Gyll. Gunnison, Bowditch.
- I. BIGUTTALUS Germ. Abundant below Bridal Veil falls, Snow.
- I. CONFUSUS Aube. Denver, Packard.
- COPTOTOMUS LONGULUS Lec. Colorado, Crotch.
- AGABUS CORDATUS Lec. Abundant in a small stream in Williams Cañon, near Manitou; Gunnison; Montrose; Horsefly Peak; Georgetown.
- A. INTERSECTUS Cr. West Cliff; Georgetown; Ouray; Manitou, Bowditch; Placerville.
- A. SERIATUS Say. Durango; Upper San Juan; Gunnison; Manitou, Bowditch; Garland; La Veta; West Cliff.
- A. LUGENS Lec. Vicinity of Fort Collins, March and April; Colorado Springs.
- A. TEXANUS Sharp. Cañon City, Bowditch.
- A. PUNCTULATUS Aube. Placerville, Bowditch.
- A. TÆNIOLATUS Harr. Colorado, Putnam.
- A. DISINTEGRATUS Cr. Denver, Packard.
- A. AUSTINII Sharp. Florissant; Georgetown; Gunnison; Leavenworth Valley, 10,000 to 11,000 feet.
- A. STRIGULOSUS Lec. Florissant. The record is under the name nanus.
- A. MOROSUS Lec. West Cliff; also in the Putnam list.
- A. INFUSCATUS Aube. Leavenworth Valley; Durango; Williams River.
- A. OBSOLETUS Lec. San Luis Valley and Gunnison, Bowditch.

- A. LECONTEI Cr. South Fork of San Miguel; Williams River; West Cliff.
- A. GRISEIPENNIS Lec. Colorado Springs; Georgetown; Silver Plume; Leavenworth Valley; Ouray; Red Mountain Road, 10,000 to 11,000 feet.
- A. OBLITERATUS Lec. Southern Colorado and northern New Mexico, Leconte; West Cliff; Placerville; Rico; Leavenworth Valley, 10,000 to 11,000 feet.
- A. TRISTIS Aube. Garland; Rico.
- RHANTUS DIVISUS Aube. Florissant; Rico; Gunnison; Dillon, September, Cockerell.
- R. BINOTATUS Harr. South Park, August, Oslar; Rio Grande, Ulke; Florissant; Gunnison; South Fork of San Miguel; Rico; Cochetopa Pass; Denver, August; Berkeley, May; West Cliff; Colorado Springs; Fort Collins and vicinity, April, May and August.
- R. BISTRIATUS Berg. Gunnison, Bowditch.

COLYMBETES LONGULUS Lec. Gunnison, Bowditch.

- C. SCULPTILIS Harr. In both Ulke's and Putnam's lists; Fort Garland.
- DVTISCUS MARGINICOLLIS Lec. Colorado, Putnam and Ulke; Durango, July, Oslar; Upper San Juan, Hayward.
- D. DAURICUS Gebl. Pagosa, Ulke.
- ACILIUS SEMISULCATUS Aube. Mountains southwest of Montrose.
- A. FRATERNUS Harr. Alamosa.
- GRAPHODERES CINEREUS Linn. Fort Collins, July and August.

GYRINIDÆ.

GYRINUS ÆNEOLUS Lec. Gunnison, Bowditch.

- G. AQUIRIS Lec. San Luis Valley; Durango, Bowditch.
- G. MACULIVENTRIS Lec. San Juan Valley, Bowditch; Saguache Creek, Saguache County, October, Cockerell, determined by Horn.
- G. CANADENSIS Reg. Durango; Montrose; San Juan Valley; Gunnison; all of these records are from Mr. Bowditch.
- G. AFFINIS Aube. Colorado, Ulke.
- G. ANALIS Say. Dolores, June.
- G. MARINUS Gyll. Gunnison and Durango, Bowditch.
- G. BOREALIS Aube. Alamosa.
- DINEUTES ASSIMILIS Aube. Colorado, Roberts, Trans. Am. Ent. Soc., XX, 285.

HYDROPHILIDÆ.

- HELOPHORUS OBLONGUS Lec. Placerville; Garland; Alamosa; Veta Pass, 9,500 feet.
- H. LACUSTRIS Lec. Garland; Alamosa; San Luis Valley; Little Willow Creek.
- H. NITIDULUS Lec. Leadville; Leavenworth Valley, 10,000 to 11,000 feet; Montrose; Little Willow Creek.
- H. LINEARIS Lec. Colorado Springs.
- H. LINEATUS Lec. Arapahoe Peak, 11,000 to 12,000 feet, Packard; Garland; Mountains southwest of Montrose; South Fork of San Miguel.

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OCHTHEBIUS DISCRETUS Lec. A variety of this species is reported by Mr. Schwarz from Veta Pass, 9,200 feet.

O. CRIBRICOLLIS Lec. Garland.

O. HOLMBERGI Mækl. Alamosa; Garland.

O. LINEATUS Lec. Colorado, Horn.

O. INTERRUPTUS Lec. Colorado, Horn; Cañon City, Wickham.

HVDRÆNA PENNSVLVANICA De Geer. Buena Vista; Colorado Springs. A new species of this genus was found by Mr. Schwarz, "everywhere."

HVDROPHILUS TRIANGULARIS Say. Poncha Springs, July; Denver, August; Buena Vista.

TROPISTERNUS DORSALIS Brulle. Fort Collins; Denver; Sloan's Lake; Colorado Springs; Buena Vista.

T. GLABER Hbst. Berkeley; Denver; Colorado Springs.

T. CALIFORNICUS Lec. Colorado, Horn; Fort Collins.

T. SUBLÆVIS Lec. Colorado, Ulke.

T. ELLIPTICUS Lec. Pagosa Springs, Bowditch.

T. STRIOLATUS Lec. Ouray.

HYDROCHARIS OBTUSATUS Say. Berkeley, one specimen, May.

BEROSUS STYLIFERUS Horn. Denver, Packard.

B. INFUSCATUS Lec. Colorado, Horn.

B. STRIATUS Say. Garland; Colorado Springs; Buena Vista; Gunnison, Bowditch.

LIMNOCHARIS PICEUS Horn. Cañon City, determined by Dr. Horn.

LACCOBIUS AGILIS Rand. West Cliff; Garland; Florissant; Colorado Springs.

PHILVDRUS DIFFUSUS Lec. Gunnison; Alamosa; Garland; Berkeley; West Cliff.

P. PERPLEXUS Lec. Garland, Bowditch.

HVDROCOMBUS n. sp. Pagosa Springs, Bowditch.

- CVMBIODVTA MORATA Horn. Cañon City; Colorado Springs, June, not uncommon.
- HVDROBIUS SCABROSUS Horn. Veta Pass, 9,350 feet; San Luis Valley; Upper San Juan; Mountains southwest of Montrose.

H. FUSCIPES Linn. Colorado Springs; Leadville; Garland; Veta Pass; Georgetown; Leavenworth Valley; Silver Plume; Ouray.

CRENIPHILUS SUBCUPREUS Say. Garland; West Cliff.

CERCYON PYGMÆUS III. Buena Vista.

C. TRISTIS III. Ouray. Mr. Schwarz reports finding an unnamed species at Garland, La Veta and Veta Pass.

SILPHIDÆ.

NECROPHORUS MARGINATUS Fab. Fort Collins; Golden; West Cliff; Colorado Springs; it is known to occur from July to October.

- N. GUTTULA Mots. Recorded from West Cliff; Little Willow Creek; Georgetown; between Fort Garland and Costilla; Fort Collins; all except the first and third of these records are for the variety *hecate* Bland.
- N. PUSTULATUS Hersch. The variety *melsheimeri* Kirby, is known from Montrose and Little Willow Creek, Bowditch. There are several state records without definite locality.

- N. VESPILLOIDES Hbst. Summit and Delta Counties, Cockerell; Fort Collins, October.
- N. TOMENTOSUS Web. Boulder, Oslar; Fort Collins, September.
- SILPHA TRUNCATA Say. Southern Colorado, Leconte; West Las Animas and Grenada, Hayward; Colorado Springs, Wickham.
- S. LAPPONICA Hbst. Denver; Georgetown; Idaho Springs; Florissant; West Cliff; Ouray; Little Willow Creek; Fort Collins; near Long's Peak; Livermore; South Park; Colorado Springs; Buena Vista; Breckenridge; Leadville. An abundant species occurring from March to October.
- S. TRITUBERCULATA Kirby, variety *coloradensis* Wickham. Argentine Road above Georgetown, 12,000 to 13,000 feet. Mr. Bowditch has a specimen of *trituberculata* from Gunnison which may belong to this variety.
- S. RAMOSA Say. Over 12,000 feet, Carpenter; Gunnison and South Park, Bowditch; plains south of Denver, Ulke; West Cliff; Clear Creek Cañon, Oslar; vicinity of Fort Collins, March to August; Buena Vista.
- S. OPACA Linn. Mr. Bowditch has a specimen from the Argentine Pass which he refers here with doubt.
- PTEROLOMA TENUICORNIS Lec. Cañon City, Wickham.
- CHOLEVA SIMPLEX Say. Fort Collins, October.
- C. BASILLARIS Say. Rico; South Fork of San Miguel; the form brunnipennis is recorded from La Veta in the Schwarz list.
- C. CLAVICORNIS Lec. Colorado, Horn; Rico, Bowditch.
- Ртоморнаgus consobrinus Lec. Colorado, Bowditch; Georgetown, Wickham.
- COLON PUSILLUM Horn. Colorado, Horn.
- C. CLAVATUM Mann. Veta Pass, 11,000 feet.
- C. INERME Mann. Colorado, Horn.
- C. MAGNICOLLE Mann. Leavenworth Valley, 10,000 to 11,000 feet.
- C. LIEBECKI Wickham. Breckenridge.
- HYDNOBIUS LONGIDENS Lec. Garland.
- H. SUBSTRIATUS Lec. Colorado, Horn.
- H. CURVIDENS Lec. La Veta; Garland.
- H. PUMILUS Lec. Veta Pass, 9,200 feet.
- H. LATIDENS Lec. Colorado, Horn; Durango, Bowditch.
- H. OBTUSUS Lec. Garland; Veta Pass, 9,200 feet.
- ANISOTOMA VALIDA Horn. Silver Plume; Breckenridge.
- A. ASSIMILIS Lec. Colorado, Horn.
- A. PUNCTATOSTRIATA Kirby. Colorado, Hamilton.
- A. COLLARIS Lec. Colorado, Horn. A species "allied to *collaris*" is reported from Garland and Veta Pass by Dr. Leconte, in the Schwarz list.
- A. STRIGATA Lec. Leavenworth Valley, 10,000 feet; Red Mountain Road, 8,000 to 9,000 feet.
- A. OBSOLETA Melsh. Colorado, Horn.
- LIODES GLOBOSA Lec. Veta Pass; Ouray.
- ? CYRTUSA sp. Veta Pass, 9,200 feet.
- AGATHIDIUM EXIGUUM Melsh. Colorado, Horn.
- A. ESTRIATUM Horn. Ouray; Garland.

NATURAL HISTORY BULLETIN.

A. CONCINNUM Mann. Ouray; Breckenridge; Garland.

A. ANGULARE Mann. Colorado, Horn; Veta Pass, Bowditch. Two unidentified species are reported from Veta Pass.

CALYPTOMERUS OBLONGULUS Mann. Veta Pass, 9,000 to 11,000 feet; Ouray, in mycelia of fungi, under logs.

CLAMBUS VULNERATUS Lec. Garland.

C. GIBBULUS Lec. Garland.

SCYDMÆNIDÆ.

SCYDMÆNUS TRISTIS Casey. Colorado, Casey. An unidentified species of this genus is reported from Garland, and another from Garland and Veta Pass.

CONNOPHRON FOSSIGER Lec. Colorado, Casey. EUTHIA LONGULA Lec. Garland.

PSELAPHIDÆ.

TYCHUS MICROPHTHALMUS Brend. Cañon City, Wickham.

BATRISUS FRONTALIS Lec. Colorado Springs, June, two specimens with Lasius claviger Rog.; Buena Vista.

B. GLOBOSUS Lec. Colorado Springs, June, one specimen with *Camponotus herculaneus*. This and the preceding species are of my own collecting.

REICHENBACHIA ALBIONICA Mots. Garland; Veta Pass, 9,200 feet.

R. PROPINQUA Lec. A specimen from Buena Vista is referred with some doubt to this species.

R. ARTICULARIS Casey. Southern Colorado, Casey.

R. WICKHAMI Brend. Cañon City, Wickham.

EUPLECTUS near *californicus* Casey. Buena Vista, one specimen in rotten log.

STAPHYLINIDÆ.

A great number of our native Staphylinidæ are still nondescript, while many of the described species are so imperfectly characterized as to render their proper determination a matter of difficulty and uncertainty. The succeeding list is therefore necessarily incomplete. It might be very materially lengthened by the inclusion of a number of generic records, but it seems scarcely worth while to incorporate these at present.

FALAGRIA DISSECTA Er. West Cliff.

F. VENUSTULA Er. Fort Collins, April, under boards.

ECHIDNOGLOSSA MONTICOLA Casey. Colorado, Casey. Possibly this is the species recorded from Veta Pass by Mr. Schwarz.

HOMALOTA PLANA Gyll. Garland; Veta Pass, 9,400 feet.

COLPODOTA SORDIDA Marsh. La Veta; Colorado Springs, June; Fort Collins, March.

C. FUNGI Grav. Veta Pass, 9,200 feet.

XENODUSA CAVA Lec. West Cliff; Pueblo; I took a species of this genus from ants' nests at Cañon City.

- X. CASEVI Wasmann. Sent to Dr. Wasmann by a correspondent in Pueblo. Lives with *Formica subpolita* Mayr. It is possible that all of the Colorado specimens are referable to this form.
- DINARDILLA LIOMETOPI Wasm. Collected by Rev. P. J. Schmitt at Cotopaxi, in the nests of *Liometopon microcephalum* Pz., variety *occidentale* Em., during the month of March.
- APTERONINA SCHMITTI Wasm. Cotopaxi, with the preceding.
- TRICHOPHYA LATIVENTRIS Casey. Colorado Springs, June.
- TACHYUSA NIGRELLA Lec. Colorado, Bowditch.
- ALEOCHARA BIMACULATA Grav. Colorado Springs; Buena Vista; Williams River; Fort Collins; Garland; Willow Creek, on Cusack's ranch.
- A. NITIDA Grav. Leadville; Williams River.
- DASYGLOSSA PROSPERA Er. Garland; Veta Pass, 9,200 to 9,400 feet.
- OXYPODA SAXATILIS Casey. Cañon City, Casey.
- MYRMECOCHARA CRINITA Casey. Cañon City; I found several specimens in the nest of a small yellow ant.
- NOTATAPHRA LUGUBRIS Casey. Colorado, Casey.
- HETEROTHOPS FUMIGATUS Lec. West Cliff; Garland; Fort Collins, March and April.
- QUEDIUS SPELÆUS Horn. Garland; Veta Pass, 9,200 feet.
- Q. FULGIDUS Fab. Colorado, Putnam.
- Q. SP. near SUBLIMBATUS Lec. Breckenridge, from about 10,000 feet to timber line, under wood in wet spots.
- Q. LÆVIGATUS Gyll. Veta Pass, 9,400 feet.
- Q. MOLOCHINUS Grav. Veta Pass, 9,200 feet; a small variety is reported from the snow fields at an altitude of 11,000 feet.
- Q. FULVICOLLIS Steph. This species is reported, under the name hyperboreus, from Garland and Veta Pass.
- Q. BRUNNIPENNIS Mann. Williams River, Bowditch.
- Q. DEBILIS Horn. Garland, Bowditch.
- Q. PROSTANS Horn. Colorado Springs; Garland; Veta Pass; West Cliff.
- LISTOTROPHUS CINGULATUS Grav. Ouray; Georgetown.
- CREOPHILUS VILLOSUS Grav. Georgetown; Little Willow Creek; La Junta; Fort Collins; Clear Creek; Ouray; Pagosa Springs; Durango; San Luis Valley; Fort Garland to Costilla; West Cliff; Colorado Springs; Buena Vista.
- STAPHYLINUS FOSSATOR Grav. Upper San Juan, Hayward.
- PHILONTHUS POLITUS Linn. West Cliff; Straight Creek, Summit County, Cockerell; Buena Vista.
- P. FURVUS Nord. West Cliff; Salida; Red Cliff; Fort Collins; Colorado Springs; Williams River Valley; Georgetown; Ouray; Leavenworth Valley, 9,000 to 10,000 feet.
- P. SERICINUS Horn. Little Willow Creek, Hayward. Name in some doubt, as is the next.
- P. IRINUS Horn. Gunnison, Hayward.
- P. SEMIRUBER Horn. Salida; Cañon City.
- P. BASALIS Horn. Williams River Valley; Alma; Red Cliff.

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- P. HEPATICUS Er. Colorado Springs, Bowditch; Rico (in doubt), Hayward.
- P. PALLIATUS Grav. Colorado, Horn.
- P. QUISQUILIARIUS Gyll. Durango; La Junta. Both of these records are from Mr. Hayward who expresses some doubt as to the determinations of his Philonthi. Allowance must be made for this doubt in the case of the other species of this genus credited to him.
- P. THEVENETI Horn. Williams River Valley.
- P. DEBILIS Grav. Garland; Veta Pass, 9,400 feet.
- P. VARIANS Payk. Buena Vista; Pike's Peak, 10,000 to 11,000 feet; Moose Mountain, above timber; Georgetown; Fort Collins.
- P. LONGICORNIS Steph. Summit County, Cockerell.
- P. DISCOIDEUS Grav. Gunnison; Montrose. Both records are from Mr. Hayward.
- P. FUSIFORMIS Melsh. Colorado, Horn; Buena Vista.
- P. OCCIDENTALIS Horn. Saguache Creek, above Rock Cliff, Saguache County, Cockerell; Colorado Springs; Durango and mountains southwest of Montrose, Hayward.
- P. FERREIPENNIS Horn. West Cliff, name in doubt.
- P. BRUNNEUS Grav. Dixon Cañon, March.
- P. SORDIDUS Grav. Colorado, Horn.
- P. CEPHALOTES Grav. Colorado Springs, Wickham.
- P. INVERSUS Horn. Garland, Horn.
- P. VIRILIS Horn. Cañon City. A species closely allied or identical was taken by me at Ouray, Georgetown, and in the Leavenworth Valley, up to about 11,000 feet.
- P. NIGRITULUS Grav. Garland; Veta Pass, 9,200 feet.
- P. MICROPHTHALMUS Horn. Cañon City; Ouray, with *Formica obscuripes*. A species, probably the same, was taken at Georgetown, Leadville, Buena Vista and in the Leavenworth Valley.
- P. INSTABILIS Horn. Colorado Springs; Buena Vista; Leadville.
- P. LECONTEI Horn. Colorado, Horn; Cochetopa Pass, Hayward.
- P. AURULENTUS Horn. Salida; Buena Vista, on marsh land; Fort Collins.
- ACTOBIUS SENILIS Horn. Colorado, Horn.
- A. PUSIO Horn. Garland, Horn.
- A. PÆDEROIDES Lec. Colorado Springs; Spring Cañon.
- BISNIUS PROCERULUS Grav. Colorado, Horn.

XANTHOLINUS CEPHALUS Say. Veta Pass, 9,400 feet.

- X. OBSIDIANUS Melsh. Fort Collins.
- X. EMMESUS Grav. West Cliff.
- X. OBSCURUS Er. Vicinity of Fort Collins, April and May; Colorado Springs; Buena Vista; Alamosa; West Cliff.
- X. HAMATUS Say. Fort Collins; Trinidad.
- DIANOUS NITIDULUS Lec. Garland.
- STENUS PUNCTIGER Casey. Garland, Casey.
- S. COLON Say. West Cliff (in doubt), Cockerell.
- S. RENIFER Lec. Colorado Springs, June; Pleasant Valley, March, Gillette.
- S. PERPLEXUS Casey. Williams River Valley, Bowditch.

- S. SECTATOR Casey. Alamosa, Bowditch.
- S. RUGIFER Casey. Alamosa, Casey.
- S. SCABIOSUS Casey. Buena Vista; Leadville; both records come from Mr. Bowditch.
- S. INCULTUS Casey. Cañon City.
- S. ALPICOLA Fauv. Garland; Veta Pass.
- S. HUMILIS Er. Fort Garland, Casey; Buena Vista, Bowditch.
- S. STYGICUS Say. Greeley.
- S. DOLOSUS Casey. Fort Garland, Casey.
- S. MORIO Grav. Alamosa; Veta Pass.
- S. ENODIS Casey. Veta Pass, Casey.
- S. DIVES Casey. Cañon City, Wickham.
- S. MONTICOLA Casey. Williams River Valley, Bowditch.
- S. ALACER Casey. Colorado, Casey.
- S. TAHOENSIS Casey. Colorado Springs.
- S. NIMBOSUS Casey. Fort Garland, Casey; Dixon Cañon, March; Salida.
- S. AMICUS Casey. Colorado, Casey.
- S. ANNULARIS Er. Greeley.
- S. POLLENS Casey. Alamosa, Casey, (under name patens).
- S. TARSALIS Ljungh. Greeley; Alamosa; Garland; Veta Pass, 9,400 feet.
- S. PINGUIS Casey. Colorado, Casey.
- S. UTENSIS Casey. Alamosa, Bowditch; Fort Garland, Casey.
- S. TRAJECTUS Casey. Veta Pass, Casey.
- LATHROBIUM TERMINATUM Grav. Alamosa.
- L. TENUE Lec. Alamosa.
- L. LONGIUSCULUM Grav. Colorado Springs.
- L. COLLARE Er. Alamosa.
- L. PALLIDULUM Lec. Colorado, Leconte.
- PÆDERUS GRANDIS Aust. This is reported in the original description as coming from "Col." and Arizona. I think, however, that it was from the neighborhood of the Colorado river, at Fort Yuma.
- P. COMPOTENS Lec. Cañon City; Buena Vista, Bowditch.
- P. LITTORARIUS Grav. West Cliff; Routt County, Cockerell; Fort Collins, March and April.
- SUNIUS BINOTATUS Say. Fort Collins, March and April.
- Hypocyptus NIGRITULUS Lec. Garland; Veta Pass, 9,200 feet.
- TACHINUS AGILIS Horn. Veta Pass, 9,400 feet.
- T. ANGUSTATUS Horn. Leadville; Mountains southwest of Montrose, Hayward, in doubt.
- T. PARALLELUS Horn. Veta Pass, 11,200 feet.
- T. NIGRICORNIS Mann. Buena Vista, Bowditch.
- T. REPANDUS Horn. Garland; La Veta.
- T. FUMIPENNIS Say. Little Willow Creek, Hayward, in doubt.
- TACHYPORUS MACULIPENNIS Lec. Fort Collins.
- T. Jocosus Say. Buzzard Creek District; Mesa County; southern Pueblo County; Custer County, subalpine. All the records are from Cockerell.
- T. CHRYSOMELINUS Linn. Fort Collins; West Cliff; Red Cliff; Buena

Vista; Williams River Valley; Alamosa; Garland; La Veta; Little Willow Creek.

T. NANUS Er. Alamosa.

T. NITIDULUS Fab. Fort Collins; Leadville; Veta Pass.

BOLETOBIUS DIMIDIATUS Er. Dome Rock.

B. INTRUSUS Horn. Veta Pass, 9,400 feet; Williams River Valley.

- B. PYGMÆUS Fab. Garland; Veta Pass, 9,200 feet; North Park, Gillette; Gunnison, Hayward.
- BRYOPORUS RUFESCENS Lec., variety rubidus Lec. Veta Pass, 9,400 feet.

MYCETOPORUS HUMIDUS Say. Mr. Schwarz reports a very large form from Garland.

- M. TENUIS Horn. A variety of this species is reported by Mr. Schwarz, from Garland and Veta Pass.
- M. CONSORS Horn. Garland.
- M. SPLENDIDUS Grav. Garland; Veta Pass.

PSEUDOPSIS SULCATA Newm. Garland; Veta Pass; Ouray.

- P. OBLITERATA Lec. La Veta.
- BLEDIUS ARMATUS Er. Fort Collins; Denver.
- B. ADUSTUS Casey. Garland, Casey.
- B. TENUIS Casey. Grand Junction, Bowditch.
- B. FUMATUS Lec. Buena Vista.
- B. RUFICORNIS Lec. Dome Rock; Buena Vista.
- B. TURGIDUS Casey. Veta Pass, Bowditch; Fort Garland, Casey.

PLATVSTETHUS AMERICANUS Er. West Cliff; Garland; La Veta; Leadville; Buena Vista; Breckenridge; Ouray; Micawber Mine.

OXYTELUS PENNSYLVANICUS Er. West Cliff.

- O. FUSCIPENNIS Mann. Veta Pass; a species closely allied to *fuscipennis*, or identical with it, is found at Ouray, Buena Vista and in the North Park.
- O. ALPICOLA Casey. Colorado, Casey.
- O. NITIDULUS Grav. Fort Collins; West Cliff; Garland; La Veta; Veta Pass, 9,400 feet.

TROGOPHLEUS MEMNONIUS Er. Alamosa.

T. CORTICINUS Grav. Garland; Veta Pass.

T. SCRUPULUS Casey. Greeley.

APOCELLUS CRASSICORNIS Casey. Fort Garland, Casey.

A. SPHÆRICOLLIS Say. Fort Collins; Garland.

DELEASTER CONCOLOR Lec. Cañon City; Colorado Springs.

PORRHODITES FENESTRALIS Zett. Roaring Fork.

GEODROMICUS OVIPENNIS Lec. San Juan Valley; Leavenworth Valley, 9,000 to 11,000 feet; Silver Plume; Georgetown; Ouray; Leadville; Veta Pass.

G. DEBILIS Casey. Colorado, Casey.

TILEA CASTANEA Casey. Colorado, Casey.

LESTEVA FUSCONIGRA Mots. Veta Pass, 9,400 to 11,000 feet; Williams River Valley.

ACIDOTA QUADRATA Zett. Colorado, Hamilton.

THE COLEOPTERA OF COLORADO.

ARPEDIUM SP. Leadville; Leavenworth Valley, 10,000 to 11,000 feet. DELIPHRUM EXPANSUM Lec. Summitville, Bowditch; Veta Pass.

OLOPHRUM MARGINATUM Kirby. Veta Pass, 9,200 feet.

O. ROTUNDICOLLE Sahlb. Leadville.

OMALIUM PUSILLUM Grav. Veta Pass, 9,400 feet.

O. PLANUM Payk. Garland, Bowditch.

O. FORAMINOSUM Mækl. Veta Pass, 9,200 feet.

ANTHOBIUM SPP. Veta Pass, 9,000 to 11,000 feet; Pike's Peak, 8,000 to 9,000 feet; Leadville; Breckenridge.

OROBANUS SIMULATOR Lec. Leavenworth Valley, 10,000 to 11,000 feet; Veta Pass, 9,400 feet.

MICRÆDUS AUSTINIANUS Lec. Veta Pass, 9,400 feet; Leavenworth Valley, 9,000 to 10,000 feet.

MEGARTHRUS SINUATOCOLLIS Lec. Ouray; Veta Pass, 9,200 to 11,000 feet. SIAGONIUM PUNCTATUM Lec. Veta Pass, 9,400 feet.

MICROPEPLUS LATICOLLIS Mækl. Veta Pass, 9,200 to 11,000 feet.

TRICHOPTERYGIDÆ.

PTILIUM N. SP. Garland.

PTENIDIUM EVANESCENS Marsh. Garland.

TRICHOPTERYX near californica Matth. Garland; Veta Pass, 11,200 feet.

T. near *haldemanni* Lec. Garland; Veta Pass, 9,200 feet. I have an undetermined species from Buena Vista.

SCAPHIDIIDÆ.

SCAPHIDIUM ORNATUM Casey. Supposed by the describer to have come from Colorado.

SCAPHISOMA CONVEXUM Say. Dolores; Pleasant Valley.

S. CASTANEUM Mots. Durango, Bowditch.

PHALACRIDÆ.

PHALACRUS PENICILLATUS Say. Pueblo; Garland; Fort Collins; North Park; Dolores; Marshall Pass; Little South; Livermore; Colorado Springs.

P. SIMPLEX Lec. Alamosa; Garland.

P. POLITUS Melsh. Pueblo.

P. SERIATUS Lec. Garland.

PHALACROPSIS DISPAR Lec. Veta Pass, 9,400 feet.

OLIBRUS VITTATUS Lec. Holly; Fort Collins; Livermore; Durango.

O. SEMISTRIATUS Lec. Durango and La Junta, Bowditch.

STILBUS APICALIS Melsh. Fort Collins; La Veta; Garland.

CORYLOPHIDÆ.

SACIUM LUGUBRE Lec. Garland; Veta Pass; West Cliff. S. MONTANUM Casey. Colorado, Casey.

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S. BIGUTTATUM Lec. Ouray; Garland; Veta Pass, 9,200 to 11,000 feet. I have an undetermined species from Colorado Springs.

SERICODERUS FLAVIDUS Lec. Northern Colorado; Fort Collins. ORTHOPERUS SCUTELLARIS Lec. Fort Collins; Garland. O. PRINCEPS Casey. Colorado, Casey.

COCCINELLIDÆ.

The arrangement of this family follows Casey's recent revision as far as possible, though of course it is out of the question to correlate the old records with his arrangement in every case. It seems too, that Major Casey had very little material from Colorado before him, so that we are left without a clue as to the disposition he would have made of doubtful or osculant forms. For the present it seems unnecessary to make comments on the status of some of the new names proposed, as more than one opinion may easily exist regarding the separation of certain races and varieties. The trinomial system seems destined to prevail in Entomology, as it has already done in some of the kindred sciences, and most of the names will probably be perpetuated in some form, even if a succeeding monographer degrades them from specific rank.

- MACRONÆMIA EPISCOPALIS Kirby. West Cliff; Garland; Greeley; Fort Collins. May be taken from April to June, in sweepings.
- PARANÆMIA SIMILIS Casey. Durango, Oslar; Fort Collins and vicinity; Greeley; Colorado Springs, in swampy spots, on flowers of Umbelliferæ; West Cliff. This is recorded in most lists as *Megilla vittigera* Mann.
- MEGILLA FUSCILABRIS Muls. La Junta, Bowditch. The insect is equivalent to what has been called *Megilla maculata* De Geer, in this country.
- HIPPODAMIA TREDECIMPUNCTATA Linn. West Cliff; Garland; Gunnison; Delta; Grand Junction.
- H. QUINQUESIGNATA Kirby. Clear Creek Cañon; Beaver Brook Gulch; Leavenworth Valley, 10,000 to 11,000 feet; Ouray; Red Mountain Road; Aspen; Durango; Montrose; Surface Creek, Delta County; Fort Collins; Livermore; Denver; Colorado Springs; Palmer Lake; Golden; Pike's Peak, 9,000 to 10,000 feet; Buena Vista; Breckenridge; Leadville; Marshall Pass.
- H. LECONTEI Muls. Denver; Greeley; Colorado Springs; Buena Vista; Pike's Peak, 9,000 to 10,000 feet; Garland; La Veta; West Cliff; La Junta; Durango.
- H. DISPAR Casey. Colorado, Casey.
- H. GLACIALIS Fab. Fort Collins and Livermore.
- H. CONVERGENS Guer. Denver; Colorado Springs; Fort Collins; Greeley; Manitou; Buena Vista; Berkeley; Chimney Gulch; Florence; Salida; Palmer Lake; Livermore; Dolores; Wales Cañon; Pueblo; La Junta; Trinidad; Delta; Montrose; Durango; Cañon of Big Blue; Upper San Juan; Cochetopa Pass; Red Mountain Road; West Cliff; Micawber Mine; Garland; Veta Pass. The commonest species of *Hippodamia* in the state.
- H. QUINDECIMMACULATA Muls. Colorado Springs, one specimen.

- H. SPURIA Lec. Buena Vista; Hesterburgs Lane, Custer County, Cockerell. Mr. Baker bred *Euphorus sculptus* from this species and *convergens*, at Fort Collins.
- H. SINUATA Muls. Denver; Berkeley; Fort Collins; Colorado Springs, common on *Helianthus*; Glenwood Springs; Durango.
- H. PARENTHESIS Say. Durango; Gunnison; Monument Gulch; Rico; Cochetopa Pass; Williams River Valley; Alamosa; Garland; Veta Pass; Ula; Pueblo; Roaring Fork; Riverside, Chaffee County and Cottonwood Gulch, Saguache County, Cockerell; Denver; Stove Prairie; Little South; Cerro Summit; Marshall Pass; Cañon City; Greeley; Clear Creek Cañon; Colorado Springs; Pike's Peak, 8,000 to 9,000 feet; Buena Vista; Leadville; also included by Carpenter in his list of species taken at altitudes over 12,000 feet.
- ADALIA BIPUNCTATA Linn. Fort Collins, June.
- A. HUMERALIS Say. Fort Collins; Little Willow Creek; Cañon of Big Blue; Placerville; Ouray.
- A. ANNECTANS Crotch. Colorado Springs; Manitou; Rocky Ford; Fort Collins; Little Willow Creek; Gunnison.
- A. FRIGIDA Schn. Little Willow Creek; Cañon of Big Blue; Placerville; Upper San Juan; Veta Pass; Garland. I do not know which of Casey's names fit these specimens.
- A. ORNATELLA Casey. Colorado, Casey.
- COCCINELLA NOVEMNOTATA Hbst. Denver; Berkeley; Clear Creek Cañon; Cañon City; Colorado Springs; Pike's Peak; Buena Vista; Leadville; Fort Collins; Greeley; La Junta; Pueblo; West Cliff; Little South; Dolores; Cimarron; Little Beaver; Monument Gulch; Durango; Pagosa Springs; Williams River Valley; Ouray.
- C. DEGENER Casey. Colorado, Casey.
- C. DIFFICILIS Crotch. Greeley.
- C. PROLONGATA Crotch. Southern Colorado, Leconte; Cañon City, Bowditch.
- C. SUTURALIS Casey. Colorado, Casey.
- C. MONTICOLA Muls. Clear Creek, Oslar; Garland; Leadville; Buena Vista; Colorado Springs; Fort Collins.
- C. QUINQUENOTATA Kirby. This is what we have been calling transversoguttata Fald. It is known from Ouray and the pass above; Georgetown; Gunnison; Cañon of Big Blue; Mountains southwest of Montrose; Rico; Pagosa Springs; Upper San Juan; Cochetopa Pass; Delta; San Luis Valley; South Park; Eagle River; Roaring Fork; Buena Vista; Leadville; Moose Mountain; Breckenridge; Micawber Mine; Marshall Pass; Salida; Palmer Lake; Livermore; Fort Collins; Estes Park; Golden; Nathrop; Cañon City; Idaho Springs; West Cliff; in the Carpenter list of species occurring over 12,000 feet. The form which we have heretofore designated transversalis is now called by Casey, nugatoria Muls., and this comes from the following points; Denver; Colorado Springs; Cañon City; near Steamboat Springs; Glenwood Springs; Delta; Fort Collins; Silver Plume; above Ouray; Clear Creek Cañon; Breckenridge; West

Cliff, in doubt; Lake and Chaffee Counties, Cockerell; Gunnison; Leavenworth Valley.

C. PERPLEXA Muls. Known to us as *trifasciata* Linn. North Park; Rist Cañon; Steamboat Springs; Rocky Ford; Ula; Micawber Mine; La Veta; Veta Pass, 9,400 feet; Cañon of Big Blue; Mountains southwest of Montrose; Little Willow Creek.

C. TRICUSPIS Kirby. Upper San Juan, Bowditch.

- CYCLONEDA SANGUINEA Linn. I retain the Linnæan designation, as it is impossible to assign the names of Casey without access to the original specimens. Trinidad; Dolores; Cimarron; Chimney Gulch; Dome Rock; Colorado Springs; Pike's Peak, 9,000 to 10,000 feet; West Cliff.
- OLLA ABDOMINALIS Say. Denver; Salida; Fort Collins; Lamar; Manitou; La Junta; Pueblo.
- CLEIS PICTA Rand. Dome Rock; Garland; Veta Pass; Cusack Ranch, Custer County, Cockerell; Colorado Springs; Buena Vista; Peak Eight, 11,500 to 12,000 feet; Fort Collins; Horsefly Peak Divide; Mountains southwest of Montrose.
- ANATIS RATHVONI Lec. Placerville; West Cliff; Red Mountain Road, 9,000 to 10,000 feet; Fort Collins, June; not a common species.
- NEOMYSIA HORNII Crotch. West Cliff; Garland; Mountains southwest of Montrose; Fort Collins; Durango.
- N. SUBVITTATA Muls. South Fork of San Miguel; Garland; Veta Pass, 9,400 feet.
- N. MONTANA Casey. Colorado, Casey.
- PSYLLOBORA VIGINTIMACULATA Say. La Veta; Garland; Ouray; West Cliff; Fort Collins; Colorado Springs; Pike's Peak, 7,000 to 8,000 feet.
- EPILACHNA CORRUPTA Muls. Boulder; Colorado Springs; Denver; Golden; Fort Collins; Trinidad; Buena Vista; Durango.
- CHILOCORUS BIVULNERUS Muls. Golden; Colorado Springs; Manitou; Salida; Greeley; Fort Collins; Durango.
- EXOCHOMUS HOGEI Gorh. West Cliff; Delta; Durango; Buena Vista; Breckenridge; Leadville. This is what we have been calling *marginipennis*.
- E. ÆTHIOPS Bland. Ouray; Durango; Garland; Veta Pass; Montrose; vicinity of Fort Collins; Stove Prairie; Rustic; Horsetooth Mountain; Colorado Springs; Buena Vista; Leadville, not common.
- BRACHVACANTHA URSINA Fab. Southern Colorado, Leconte; Garland; La Veta; vicinity of Fort Collins, June to August. Specimens intermediate between this and *albifrons* were taken by Gillette and Baker at various points in the neighborhood of Fort Collins.
- B. DECEMPUSTULATA Melsh. Colorado Springs, July; a specimen, not very typical, was taken near Palmer Lake by Prof. Gillette.
- B. ILLUSTRIS Casey. Beaver Brook.
- B. ALBIFRONS Say. Colorado Springs; Fort Collins; Gunnison; Durango; Little Willow Creek; Beaver Brook.
- B. DENTIPES Fab. Colorado, my cabinet; Dolores, Gillette.
- B. INDUBITABILIS Crotch. Montrose; Gunnison, Bowditch.
- HYPERASPIS LATERALIS Muls. Garland; Leadville; Montrose; Clear Creek

Cañon; Rocky Ford; Cerro Summit; vicinity of Fort Collins; except the first two, all of the records are due to Prof. Gillette's collecting.

- H. BINOTATA Say. Cimarron, August; Durango, Bowditch. This is signata Lec., not Olivier, according to Casey.
- H. FIMBRIOLATA Mels. West Cliff; Pueblo; Boulder; vicinity of Fort Collins; Golden; Colorado Springs; Dome Rock; La Junta.
- H. TRISTIS Lec. Colorado, Leconte.
- H. CINCTA Lec. Mr. Bowditch thinks this occurs near Durango, as he has it from just across the line in New Mexico.
- H. LUGUBRIS Rand. Colorado, Leconte.
- H. UNDULATA Say. Colorado Springs; Cañon City; La Junta.
- H. SEXVERRUCATA Fab. Colorado Springs, Bowditch.
- H. QUADRIVITTATA Lec. Colorado Springs and Buena Vista, chiefly about roots of herbs on dry ground; Leadville; Denver; Bellevue; Williams River Valley.
- HELESIUS NIGRIPENNIS Lec. Florissant; Garland, in doubt, Bowditch.
- HYPERASPIDIUS TRIMACULATUS Linn. Alamosa; Garland; La Veta; Gunnison; Fort Collins and vicinity; Colorado Springs; Buena Vista; Leadville; occurs from May to August. Frequently found in rubbish about the roots of plants.
- H. INSIGNIS Casey. Colorado Springs.
- H. MILITARIS Lec. Foothills near Fort Collins, May.
- STETHORUS PUNCTUM Lec. Cañon City, Gillette, on plum. Buena Vista, on dwarf pines which were badly infested with Aphides.
- S. UTILIS Horn. Leadville, one specimen, concerning which Dr. Horn wrote that it was a little less distinctly punctured than the types.
- SCYMNUS FLAVESCENS Casey. Colorado Springs.
- S. PALLENS Lec. Palmer Lake, October; Horsetooth Gulch, June.
- S. NUGATOR Casey. Colorado, Casey.
- S. FRATERNUS Lec. Clear Creek Cañon; Palmer Lake, August.
- S. BRULLEI Muls. Spring Cañon, May.
- S. CERVICALIS Muls. Garland, in doubt.
- S. COLLARIS Melsh. Colorado Springs; Fort Collins; Montrose; Rocky Ford; Lamar. Mr. Bowditch writes that he calls these *cervicalis*.
- S. PUNCTICOLLIS Lec. Ouray; Fort Collins; Colorado Springs.
- S. MONTICOLA Casey. Colorado, Casey.
- S. GARLANDICUS Casey. Garland, Casey.
- S. TENEBROSUS Muls. Horsetooth Mountain, August.
- S. LACUSTRIS Lec. Garland; Veta Pass; West Cliff; Dome Rock; Dolores; Colorado Springs.
- S. ARDELIO Horn. Horsetooth Gulch; vicinity of Fort Collins; Rocky Ford. Possibly these should go to *lacustris*.
- S. CINCTUS Lec. Buena Vista; name from Dr. Horn.
- S. CONIFERARUM Crotch. Garland; Veta Pass, 10,500 feet; Mountains southwest of Montrose; Rist Cañon, May.
- S. OPACULUS Horn. Colorado, Horn.
- S. AMERICANUS Muls. Fort Collins, March, April and June.

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S. PHELPSII Crotch. Garland; Mountains southwest of Montrose.

S. NAVICULATUS Casey. Colorado, (Rocky Mountains), Casey.

S. COLORADENSIS Horn. Garland, Horn.

S. INTRUSUS Horn. Salida, Wickham.

COCCIDULA OCCIDENTALIS Horn. Fort Collins.

ENDOMYCHIDÆ.

LYCOPERDINA FERRUGINEA Lec. West Cliff.

APHORISTA MOROSA Lec. Pagosa Springs, Hayward; Durango, Bowditch; Horsetooth Gulch; Estes Park; Veta Pass; Ouray; West Cliff; not a common insect.

A. PALLIDA Horn. Colorado, Horn.

EPIPOCUS UNICOLOR Horn. Colorado, Horn.

EROTYLIDÆ.

LANGURIA MOZARDI Lat. Fort Collins, April.

L. LÆTA Lec. Vicinity of Fort Collins, April and June.

L. LECONTEI Crotch. Colorado Springs.

L. DIVISA Horn. Colorado, Horn.

TRITOMA THORACICA Say. Colorado, Snow.

T. CALIFORNICA Lec. Smith's Park, Cockerell; La Veta; Gunnison.

- T. FLAVICOLLIS Lec. Colorado Springs, common; Trinidad; Fort Collins; Gunnison; Pagosa Springs; Mountains southwest of Montrose.
- EROTYLUS BOISDUVALI Chev. "Usually taken on *Pinus ponderosa* and not taken at an altitude of above 9,000 feet. Abundant in the foothills of the Front Range, not found by Carpenter on the Pacific slope" (Ulke); Custer County, Cockerell; Durango; Pagosa Springs; Chimney Gulch; Dome Rock; Boulder; Fort Collins and vicinity; Stove Prairie; Denver to Georgetown; Clear Creek Cañon and adjacent mountains; Colorado Springs; Pike's Peak, 7,000 to 8,000 feet. Generally found on logs or flying.

COLYDIIDÆ.

DITOMA ORNATA Lec. Trinidad, May, collected from beneath bark of cottonwood log by Professor Gillette.

AULONIUM LONGUM Lec. Colorado, Horn.

BOTHRIDERES MONTANUS Horn. Mountains near San Juan, Horn.

CUCUJIDÆ.

SILVANUS SURINAMENSIS Linn. Fort Collins.

S. PLANATUS Germ. Colorado Springs, one specimen; Trinidad, under bark of cottonwood log, Gillette; Northern Colorado, Gillette.

PEDIACUS FUSCUS Er. Alamosa; Breckenridge; Pike's Peak, 7,000 to 8,000 feet.

P. DEPRESSUS Hbst. Veta Pass, 9,200 feet.

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CUCUJUS CLAVIPES Fab. Trinidad, under bark of cottonwood in May, Gillette; Monument Gulch; Mountains southwest of Montrose; Horsefly Peak.

LÆMOPHLÆUS BIGUTTATUS Say. West Cliff.

L. ANGUSTULUS Lec. Colorado, Casey.

DENDROPHAGUS GLABER Lec. Veta Pass, 9,400 feet.

CRYPTOPHAGIDÆ.

TELMATOPHILUS AMERICANUS Lec. Greeley.

ANTHEROPHAGUS OCHRACEUS Melsh. In the Putnam list; I have a specimen from the slope of Pike's Peak, above Manitou, (7,000 to 8,000 feet), which I refer here with very little doubt.

A. CONVEXULUS Lec. Buena Vista; Garland; West Cliff.

EMPHYLUS AMERICANUS Lec. Veta Pass, 11,500 feet.

HENOTICUS SERRATUS Gyll. Garland; Veta Pass, 10,000 feet.

CRYPTOPHAGUS CELLARIS Scop. In the Putnam list with a mark of doubt. Mr. Schwarz took four species at Garland and Veta Pass.

C. CONFERTUS Casey. This and all of the following species belonging to the family are described by Major Casey as coming from Colorado, without citation of definite locality.

C. PORRECTUS Casey.

CÆNOSCELIS OCHREOSA Casey.

C. PARALLELA Casey.

AGATHENGIS CRASSULA Casey.

A. CAPITATA Casey.

A. QUADRICOLLIS Casey.

A. CONSTRICTA Casey.

A. TENEBROSA Casey.

A. COLORADENSIS Casey.

A. LUCIDA Casey.

A. FORTICORNIS Casey.

ATOMARIA EPHIPPIATA Zimm. Colorado. Mr. Schwarz took seven species of this genus at Garland and Veta Pass.

A. INCERTA Casey.

A. BREVICOLLIS Casey.

A. OBLONGULA Casey.

MYCETOPHAGIDÆ.

MYCETOPHAGUS CONFUSUS Horn. This and the following species are recorded by the describer from Colorado, without definite locality.

M. TENUIFASCIATUS Horn.

LITARGUS BALTEATUS Lec. Colorado, Horn.

L. NEBULOSUS Lec. Vicinity of Fort Collins.

HYPOCOPRUS FORMICETORUM Mots. Garland, in doubt.

DERMESTIDÆ.

DERMESTES MARMORATUS Say. Denver; Pueblo; Colorado Springs; Lamar; Fort Collins; West Cliff; Buena Vista; Leadville; Durango; common.

D. MANNERHEIMII Lec. Colorado, Putnam.

- D. FASCIATUS Lec. Fort Collins; Trinidad; Mountains southwest of Montrose; La Veta; West Cliff; Buena Vista; Denver.
- D. CANINUS Germ. Denver, Ulke; Pueblo, Bowditch. So much confusion exists in the application of names here, that I give the rest of the records that should belong with this species as understood in Henshaw's list, in the original form; *murinus*, Cañon City; *nubilus*, Colorado, (Putnam, Ulke, Leconte,); Pikeview, Cockerell.
- D. TALPINUS Mann. Colorado, Putnam; Dome Rock; near Long's Peak; Fort Collins.
- D. LARDARIUS Linn. Berkeley; Fort Collins; the variety signatus Lec., is known from Durango, (Bowditch), and West Cliff.

PERIMEGATOMA CYLINDRICUM Kirby. Garland; Alamosa; West Cliff.

ATTAGENUS PICEUS Oliv. Colorado Springs; Denver; West Cliff; Pueblo.

TROGODERMA ORNATUM Say. Fort Collins.

T. TARSALE Melsh. Fort Collins.

ANTHRENUS SCROPHULARIÆ Linn. The form known as *lepidus* Lec., is from Garland, Beaver Brook and Colorado Springs; at the last-named place it is often common on flowers. I have taken *flavipes* Melsh., at Ouray. Records for *scrophulariæ* are West Cliff; Fort Collins; Dolores.

A. VERBASCI Linn. Colorado Springs, Hayward.

- CRYPTORHOPALUM BALTEATUM Lec. Manitou, Montrose and Dolores, Gillette; Colorado Springs and the adjacent lower slopes of Pike's Peak, common on flowers.
- C. HÆMORRHOIDALE Lec. Montrose and Dolores, Gillette; Colorado, Horn.
- C. APICALE Mann. This or a closely allied species comes from Fort Collins and vicinity; Mr. Hayward reports it from Colorado Springs.
- C. RUFICORNE Lec. Garden of the Gods, Packard.
- C. TRISTE Jayne. Vicinity of Fort Collins.
- ORPHILUS SUBNITIDUS Lec. Dome Rock; Beaver Creek; Little South; Fort Collins; Colorado Springs; Pike's Peak, lower slopes; South Fork of San Miguel; Ouray; Durango; Georgetown. Common on flowers.

HISTERIDÆ.

HISTER SUBOPACUS Lec. West Cliff.

- H. GUTTIFER Horn. Rist Cañon, Titus, April.
- H. SELLATUS Lec. Near Ula, Cockerell.
- H. INSTRATUS Lec. Lamar; Horsetooth Gulch; vicinity of Fort Collins; Greeley; Berkeley.
- H. TUNICATUS Lewis. Cañon City, Lewis, Ann. & Mag. Nat. Hist. 1898, p. 170.
- H. ULKEI Horn. Denver; Berkeley; Colorado Springs.
- H. HARRISH Kirby. West Cliff; Denver, July, Oslar.
- H. MERDARIUS Hoffm. Ouray.
- H. FEDATUS Lec. La Junta, Bowditch.
- H. ABBREVIATUS Fab. West Cliff; Greeley; Colorado Springs; La Junta, Hayward; a common species.
- H. DEPURATOR Say. Durango and Rico, Bowditch; Cusack Ranch; Buena Vista; not common.

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- H. FURTIVUS Lec. Durango, Bowditch.
- H. PERPLEXUS Lec. Alamosa.
- H. LECONTEI Mars. Durango, Bowditch; Fort Collins; Colorado Springs. H. PUNCTIGER Lec. Durango, Bowditch; Veta Pass, 9,400 feet.
- EPIERUS ELLIPTICUS Lec. Pagosa Springs; Upper San Juan. The records come from Mr. Hayward, who marks them with doubt.
- HETÆRIUS MORSUS Lec. West Cliff.
- H. TRISTRIATUS Horn. Rist Cañon, April; Georgetown, June; Ouray, July. Lives in nests of ants.
- ONTHOPHILUS SOLTAUI Casey. Denver, Casey.
- PAROMALUS ESTRIATUS Lec. Trinidad, May, under cottonwood bark, Gillette.
- P. 14-STRIATUS Steph. Fort Collins, June.
- P. DEBILIS Lec. Veta Pass, 9,400 feet.
- SAPRINUS LUGENS Er. Denver; Fort Collins; Colorado Springs; Buena Vista; Salida; Beaver Brook Gulch; West Cliff; Trinidad; Pagosa Springs; Durango; Ouray; Montrose; Gunnison; Little Willow Creek; La Junta. A very abundant insect on carrion.
- S. PENNSVLVANICUS Payk. Denver; Lamar; Pueblo; Colorado Springs; Greeley; La Junta; Durango.
- S. OREGONENSIS Lec. Near Long's Peak; various points in Custer County; Colorado Springs; La Junta; Alamosa; Garland; Buena Vista; Leadville; Horsefly Peak; Monument Gulch; Little Willow Creek; Mountains southwest of Montrose; Durango; Gunnison.
- S. CILIATUS Lec. Cañon City; name from Dr. Horn.
- S. LARIDUS Lec. La Junta, Bowditch.
- S. INSERTUS Lec. Little Willow Creek, Bowditch.
- S. LUBRICUS Lec. Montrose and adjacent mountains, Bowditch; Ouray, Gillette; Dolores; Fort Collins; Grand Junction, Wickham.
- S. PLENUS Lec. Grand Junction, Wickham; Livermore; Bellevue; La Junta; San Luis Valley; Durango; Mountains southwest of Montrose; Horsefly Peak.
- S. FIMBRIATUS Lec. Cusack Ranch, Custer County, Cockerell; Cañon City; Colorado Springs; Buena Vista; Alamosa; Garland; La Junta; Durango; San Luis Valley.
- S. SPHÆROIDES Lec. Eastern Custer County, Cockerell.
- S. FRATERNUS Say. Garland; several specimens which seem to belong here were taken at Buena Vista and Leadville, in carrion.
- S. MANCUS Say. Little Willow Creek, Bowditch.
- S. PROFUSUS Casey. Colorado, Casey.
- S. DETRACTUS Casey. Greeley, Wickham.
- PLEGADERUS TRANSVERSUS Say. Rist Cañon, under pine bark.
- P. SAVI Mars. Veta Pass, 9,400 feet.
- P. CONSORS Horn. Colorado, Horn.
- P. CRIBRATUS Casey. Colorado, Casey.
- TERETRIUS AMERICANUS Lec. La Veta; Veta Pass.
- T. MONTANUS Horn. Veta Pass.

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NITIDULIDÆ

BRACHYPTERUS URTICÆ Fab. La Veta; Garland.

- B. GLOBULARIUS Murr. Rico; Gunnison; Placerville; Cañon of Big Blue; Montrose.
- CARPOPHILUS PALLIPENNIS Say. La Junta; Gunnison; Montrose; Pueblo; Big Narrows of Poudre; Dolores; Larimer County, foothills; Clear Creek Cañon; Evans Peak region; Durango; Cañon City; Denver; West Cliff; Ula; Buena Vista; Colorado Springs, common in cactus blossoms.
- C. DIMIDIATUS Fab. Colorado, Hamilton.
- C. NIGER Say. Colorado Springs, Wickham.
- C. DISCOIDEUS Lec. Colorado, Putnam.
- EPURÆA INTEGRA Horn. Colorado, Horn.
- E. ERICHSONII Reitt. Veta Pass. The identification is in doubt, specimens are said to be larger than usual.
- E. PAPAGONA Casey. Eastern Custer County, sub-alpine, Cockerell.
- E. AVARA Rand. Fort Collins; the name is credited to Mr. Schwarz.
- E. LINEARIS Mækl. Veta Pass. 9,400 feet.
- E. TRUNCATELLA Mann. Veta Pass; Colorado Springs; Leadville; Dome Rock.
- E. PLANULATA Er. Ouray.
- E. OVATA Horn. Montrose, June, Gillette, name credited to Dr. Riley; Garland.
- E. ÆSTIVA Linn. Colorado, Hamilton.
- E. LABILIS Er. West Cliff, on flowers of Sambucus.
- E. SCAPHOIDES Horn. Colorado, Horn.
- NITIDULA BIPUNCTATA Linn. Colorado, Hamilton.
- N. RUFIPES Linn. Fort Collins.
- N. ZICZAC Say. Fort Collins; Dome Rock; West Cliff; Colorado Springs; Buena Vista; Leadville; Gunnison; Mountains southwest of Montrose; Durango.

PHENOLIA GROSSA Fab. Cañon City, Uhler. A few specimens are said to have been found on plants.

- OMOSITA COLON Linn. Fort Collins, common.
- O. DISCOIDEA Fab. Veta Pass, 9,200 feet; lower slopes of Pike's Peak.
- ORTHOPEPLUS QUADRICOLLIS Horn. Colorado, Horn.

MELIGETHES BRASSICÆ Scop. West Cliff.

- M. MUTATUS Har. Vicinity of Fort Collins; Rustic; West Cliff; Colorado Springs; Buena Vista; Garland; La Veta; Dome Rock; Ouray; Leavenworth Valley; not uncommon.
- M. SEMINULUM Lec. La Veta; Garland; Veta Pass, 9,000 to 10,000 feet; West Cliff.

PALLODES PALLIDUS Beauv. Cañon of the Arkansas, on plants at entrance,

- Uhler. If this record is correct it shows a habit unusual to this species. CRYPTARCHA STRIGATA Fab. Colorado, Hamilton.
- IPS QUADRIGUTTATUS Fab. Clear Creek, August, Oslar.
- I. VITTATUS Say. Veta Pass, 9,400 feet; also in the Ulke and Putnam lists without definite locality.

PITYOPHAGUS VERTICALIS Horn. Colorado, Horn; eastern Custer County, Cockerell.

RHIZOPHAGUS SCALPTURATUS Mann. Veta Pass, 9,400 feet.

R. DIMIDIATUS Mann. Colorado, Hamilton.

R. BIPUNCTATUS Say. Ouray. This name is probably correct, but there is a chance of error, the specimens not being typical.

LATHRIDIIDÆ.

LATHRIDIUS MONTANUS Fall. Leavenworth Valley, 10,000 feet.

L. COSTICOLLIS Lec. Veta Pass.

ENICMUS MINUTUS Linn. Colorado, Fall.

E. STRENUUS Fall. Ouray.

E. FICTUS Fall. Garland; Veta Pass.

E. MIMUS Fall. Denver.

E. VANUS Fall. Ouray.

E. TENUICORNIS Lec. Ouray.

CARTODERE FILUM Aube. Greeley.

CORTICARIA PUBESCENS Gyll. Fort Collins.

C. VARICOLOR Fall. Garland.

C. PARALLELA Fall. Garland.

C. VALIDA Fall. Garland.

C. PLANULA Fall. Leadville.

C. SERRICOLLIS Lec. Garland; Veta Pass.

C. OCCIDUA Fall. Veta Pass.

C. DENTIGERA Lec. Garland; Breckenridge; Leadville.

C. FERRUGINEA Marsh. Garland; Veta Pass, 9,200 feet.

MELANOPHTHALMA PICTA Lec. Greeley.

M. PUMILA Lec. Garland.

- M. AMERICANA Mann. Garland; Veta Pass, 9,200 to 11,000 feet. The records appeared under the names *scissa* and *expansa*, which are reduced by Mr. Fall to synonyms of *americana*.
- M. CAVICOLLIS Mann. Colorado, Fall; Garland, Schwarz list, under name angularis.

TROGOSITIDÆ.

NEMOSOMA CYLINDRICUM Lec. Dome Rock; Veta Pass, 9,400 feet.

TROGOSITA VIRESCENS Fab. Fort Collins; Dome Rock; Durango.

TENEBRIOIDES MAURITANICA Linn. Durango, Bowditch.

T. CORTICALIS Melsh. Southwestern Colorado, Strecker; Buena Vista; Leadville.

T. SINUATA Lec. Durango, Bowditch.

T AMERICANA Kirby. Cochetopa Pass, Bowditch.

PELTIS PIPINGSKŒLDI Mann. West Cliff; Red Cliff.

P. FERRUGINEA Linn. Engelmann's Cañon; Cochetopa Pass; Cañon of Big Blue; Silver Plume; Leadville; Breckenridge.

CALITYS SCABRA Thunb. Cheyenne Cañon; West Cliff; Cusack's Ranch; Georgetown; Breckenridge; Leadville; above Ouray; Montrose, Gillette; Rico; Durango. Occurs under bark and on woody fungi.

MONOTOMA PICIPES Hbst. Ouray. M. FULVIPES Melsh. Garland.

BYRRHIDÆ.

CYTILUS SERICEUS Forst. Colorado, Ulke.

C. TRIVITTATUS Melsh. Leadville; Red Cliff; Moose Mountain, 12,000 feet. BYRRHUS AMERICANUS Lec. Veta Pass, Schwarz.

B. CYCLOPHORUS Kirby. Colorado, Putnam.

B. GEMINATUS Lec. Veta Pass, 9,400 feet.

B. KIRBYI Lec. Mount Lincoln; Leadville.

SYNCALYPTA GRISEA Lec. Garland.

LIMNICHUS MONTANUS Lec. La Veta; an undetermined species is in my cabinet from Buena Vista.

GEORYSSIDÆ.

GEORYSSUS PUSILLUS Lec. Garland.

PARNIDÆ.

- DRVOPS STRIATUS Lec. West Cliff and other points in Custer County; Garfield County, Cockerell; below Bridal Veil Falls; Colorado Springs; Manitou; Spring Cañon; Garland; La Veta; Veta Pass; Pagosa Springs; Upper San Juan; Durango. Often exceedingly abundant under stones in running water.
- ELMIS CONCOLOR Lec. Colorado Springs, one pair, Wickham. Taken in June.
- E. CORPULENTUS Lec. Veta Pass, 9,400 feet; Buena Vista. Mr. Bowditch has a new species from the Upper San Juan.

HETEROCERIDÆ.

HETEROCERUS PALLIDUS Say. La Junta, Bowditch.

- H. UNDATUS Melsh. Buena Vista; the form *mollinus* Kies., comes from Ouray. The form *substriatus* is known from Alamosa; Garland; Mountains southwest of Montrose; South Fork of San Miguel.
- H. COLLARIS Kies. San Luis Valley; Durango.

H GEMMATUS Horn. Gunnison, Hayward.

DASCYLLIDÆ.

EUCINETUS TERMINALIS Lec. West Cliff. CYPHON CONCINNUS Lec. Rist Cañon; Horsetooth Gulch. C. VARIABILIS Thunb. Fort Collins; West Cliff.

ELATERIDÆ.

DELTOMETOPUS AMŒNICORNIS Say. Colorado Springs, June, Wickham.

ANELASTES DRURII Kirby. Pagosa Springs, Oslar; Mountains southwest of Montrose; Upper San Juan; West Cliff; Dome Rock; Wales' Cañon, Pueblo County, Cockerell.

EPIPHANIS CORNUTUS Esch. South Fork of San Miguel, Hayward.

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ADELOCERA RORULENTA Lec. Durango, Bowditch. A. PROFUSA Cand. Garland.

LACON RECTANGULARIS Say. La Junta, common; Fort Collins, March and May; Colorado Springs; Pueblo, Snow.

ALAUS OCULATUS Linn. Poudre Cañon, July; Fort Collins, June.

A. LUSCIOSUS Hope. Southern Colorado, Leconte; La Junta, Hayward.

A. MELANOPS Lec. Cheyenne Cañon, Snow; Durango, Bowditch.

CARDIOPHORUS CONVEXUS Say. Garland, Bowditch; Montrose, Gillette.

C. EDWARDSII Horn. Colorado Springs; Buena Vista, in the evergreen scrub.

- C. FENESTRATUS Lec. Greeley; Berkeley; Spring and Dixon Cañons; Little Willow Creek; road from Monument Gulch to Montrose.
- C. LONGIOR Lec. Garland, Blanchard, Tr. Am. Ent. Soc., XVI, p. 16.
- C. PULLUS Blanch. Garland, Blanchard, t. c. p. 11.
- C. LURIDIPES Cand. Garland.
- C. TENEBROSUS Lec. Ouray; Rist Cañon; Horsetooth Gulch; Smith's Park Gulch, 10,000 to 12,000 feet, Cockerell; Colorado Springs. Specimens which seem to belong to a small variety of this species have been taken in the neighborhood of Fort Collins.
- C. PUBESCENS Blanch. Colorado, Blanchard.
- CRYPTOHYPNUS IMPRESSICOLLIS Mann. Colorado, rare, Horn; Horsefly Peak, Bowditch.
- C. ABBREVIATUS Say. Garland, Bowditch; Dolores, Gillette; Red Cliff; Ouray; Georgetown; South Fork of San Miguel; Rico.
- C. NOCTURNUS Esch. Under this name we have the following records;— Leadville; Durango; Red Cliff; Little Willow Creek; Mountains southwest of Montrose. For *bicolor* the localities are, Breckenridge; Leadville; Buena Vista; Colorado Springs; Pike's Peak, 10,000 to 11,000 feet; Veta Pass; Garland; South Fork of San Miguel; Roaring Fork; Leavenworth Valley; Georgetown; Alma; Aspen; Marshall Pass.
- C. MUSCULUS Esch. Argentine Pass, Bowditch.
- C. TUMESCENS Lec. Leavenworth Valley; Silver Plume; Leadville; Breckenridge.
- C. STRIATULUS Lec. La Junta; Gunnison. Both records are from Mr. Hayward.
- C. EXIGUUS Rand. Trinidad, Gillette.
- C. GENTILIS Lec. Alamosa; Garland.

EDOSTETHUS FEMORALIS Lec. Colorado, Horn.

- MONOCREPIDIUS VESPERTINUS Fab. Near the Grand Cañon of the Arkansas, Uhler.
- M. SORDIDUS Lec. Cañon City, Wickham.
- M. AURITUS Hbst. Colorado, Horn; Trinidad and northern Colorado, Gillette.
- ELATER RUBRIVENTRIS Lec. Rist Cañon, Gillette.
- E. ATER Lec. Little Willow Creek, Hayward; Manitou.
- E. MIXTUS Hbst. Colorado, Snow.
- E. MCERENS Lec. Colorado, Hayward; a specimen from the state is in my own cabinet.

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E. LUCTUOSUS Lec. Rist Cañon, May, Gillette.

- E. APICATUS Say. Breckenridge; Leadville; Durango; Rist Cañon; Leavenworth Valley; Veta Pass; Little Willow Creek; Ouray.
- E. AFFINIS Lec. South Fork of San Miguel, Bowditch.
- DRASTERIUS ELEGANS Fab. Durango; La Junta; Little Willow Creek; Colorado Springs; Berkeley; vicinity of Fort Collins; Montrose.
- MEGAPENTHES STIGMOSUS Lec. West Cliff.
- AGRIOTES FUCOSUS Lec. Fort Collins.

A. MONTANUS Lec. Vicinity of Fort Collins.

- DOLOPIUS LATERALIS Esch. Horsefly Peak; Little Willow Creek; Chimney Gulch; Berkeley; Horsetooth Gulch; Ouray; Pagosa Springs; Garland; Rico; Cañon City. It was also taken by Cockerell on the eastern slope of the Sangre de Cristo range along Brush Creek, at an elevation of 10,-000 to 11,000 feet.
- MELANOTUS DECUMANUS Er. Southern Colorado, Leconte.
- M. FISSILIS Say. Berkeley, June.
- M. SCROBICOLLIS Lec. Rist Cañon, May.
- M. PARADOXUS Melsh. Colorado, Cockerell.
- LIMONIUS CALIFORNICUS Mann. Colorado, determined by Mr. Liebeck. A species allied to this was taken at Bellevue.
- L. CANUS Lec. Vicinity of Fort Collins, April to June.
- ATHOUS FERRUGINOSUS Esch. West Cliff; Micawber Mine, Cockerell; Leavenworth Valley.
- A. SIMPLEX Lec. Colorado, Leconte; Leadville and Breckenridge, beaten from foliage of conifers.
- A. CRIBRATUS Lec. Southern Colorado, Leconte.
- CORVMBITES MAURUS Lec. Cañon City; Pagosa Springs; Little Beaver to Cipango, Gillette.
- C. MONTICOLA Horn. Horsetooth Gulch; Rist Cañon, May.
- C. MŒRENS Lec. Garland; Veta Pass.
- C. MORULUS Lec. Colorado.
- C. FALLAX Say. Rist Cañon, May; Fort Collins, June.
- C. PLANULUS Lec. Beaver Brook, Leconte; Buena Vista; Colorado Springs.
- C. TRIUNDULATUS Rand. Garland; Mountains southwest of Montrose.
- C. NIGRICOLLIS Bland. Rocky Mountains, Colorado, Bland.
- C. HIEROGLYPHICUS Say. Cañon of Big Blue; Horsefly Peak Divide; Placerville; South Fork of San Miguel; Ouray; Mineral Point Trail, 9,000 to 10,000 feet; Golden.
- C. SEMIVITTATUS Say. Fort Collins and Poudre Cañon, May.
- C. ÆRIPENNIS Kirby. Mountains southwest of Montrose; Veta Pass; Silver Plume; Golden.
- C. CARBO Lec. West Cliff; Horsefly Peak; Rist Cañon, June.
- C. CONJUNGENS Lec. West Cliff.
- C. LEUCASPIS Germ. Veta Pass, Bowditch.
- C. METALLICUS Payk. Garland; Veta Pass, 9,200 to 9,400 feet.
- C. INFLATUS Say. Vicinity of Fort Collins, May, June and August; Mr. Schwarz records the form *glaucus* from Veta Pass, 9,400 feet.

- ANTHRACOPTERVX HIEMALIS Horn. West Cliff, common, crawling on the ground early in the year; Northern Colorado, February, Gillette.
- ASAPHES CARBONATUS Lec. West Cliff; Durango; Rico road; South Fork of San Miguel; Dome Rock; Golden.
- A. DILATICOLLIS Mots. Colorado, Hayward. Also in my own collection.
- A. DECOLORATUS Say. Professor Snow records two specimens of a variety of this species from Colorado.
- A. MEMNONIUS Hbst. La Junta, Bowditch; Wales' Cañon, Pueblo County, Cockerell.

MELANACTES PICEUS DeGeer. La Junta, Hayward.

M. PUNCTICOLLIS Lec. La Junta, Bowditch.

BUPRESTIDÆ.

GYASCUTUS OBLITERATUS Lec. Delta, on *Sarcobates vermiculatus*, Gillette. CHALCOPHORA ANGULICOLLIS Lec. Fort Collins; Estes Park; Rio Grande, Ulke; Durango, Bowditch.

C. VIRGINIENSIS Drury. Cusack Ranch, Cockerell.

PSILOPTERA DRUMMONDI Lap. & Gory. West Las Animas, Hayward.

DICERCA PROLONGATA Lec. Denver; Idaho Springs, on *Populus*, Packard; Horsefly Peak; Short Creek, Custer County; Prof. Cockerell took a larva which presumably belongs here in logs of *Populus tremuloides*.

D. DIVARICATA Say. Vicinity of Fort Collins, April to August.

- D. TENEBROSA Kirby. Colorado, Snow; Leadville.
- D. CALIFORNICA Crotch. A specimen from Colorado, in the collection of the Agricultural College, is labelled thus with a mark of doubt. The determination is credited to Mr. Schwarz.

TRACHYKELE LECONTEI Gory. Garland.

- PŒCILONOTA CVANIPES Say. Denver; La Junta; Horsefly Peak Divide; Durango, Bowditch; Fort Collins and vicinity; Ouray; Leadville; Colorado Springs. I have taken this species on poplars.
- BUPRESTIS CONFLUENS Say. Gunnison; Fort Collins; Ouray; Pueblo, Snow; Fort Garland, Ulke.
- B. CONSULARIS Gory. Dome Rock; Colorado Springs; Buena Vista; Leadville; Little Beaver.
- B. NUTTALLI Kirby. Florissant; Durango; Cusack Ranch, Cockerell; Dome Rock.
- B. MACULIVENTRIS Say. Pass between Wheeler and Red Cliff, Cockerell; Dome Rock; Engelmann's Cañon; Cusack Ranch; Beaver Brook Gulch; Upper San Juan; Florissant; a rather common species, often found out of its natural range on account of shipments of lumber in which it breeds. The form *subornata* is known from Greenhorn; Durango; Buena Vista; Colorado Springs and Leadville. For the name *rusticorum* we have Packard's record, Manitou, and several which refer simply to its being found in the state.
- B. FASCIATA Fab. Little Willow Creek. The form known as *langii* comes from Denver; Arkins; Steamboat Springs; and Bear Creek Cañon.
- B. AURULENTA Linn. Ouray; Leadville; Fort Collins.

B. ADJECTA Lec. Colorado Springs; Leadville.

MELANOPHILA MIRANDA Lec. Southern Colorado, Leconte.

- M. ACUMINATA De Geer. Leadville; Breckenridge; Rico; Montclair; West Cliff; Chaffee and Summit Counties, Cockerell; Garland; South Park, Ulke.
- M. ATROPURPUREA Say. Clearwater Creek on the Grand Mesa, 9,800 feet, Cockerell; Rico; Upper San Juan; Durango; Garland; Gunnison; South Park Region, Oslar; Fort Collins; Denver; Colorado Springs.
- M. DRUMMONDI Kirby. Leavenworth Valley, 10,000 to 11,000 feet; Ouray; Durango; Monument Gulch to Montrose, 7,900 feet; Rico; Upper San Juan; Dome Rock; Garland; Buena Vista; Leadville.
- M. GENTILIS Lec. Durango; Horsefly Peak; Mountains southwest of Montrose, 9,000 to 10,000 feet; Dome Rock.
- ANTHAXIA ÆNEOGASTER Lap. Dome Rock; Dolores; Horsetooth Gulch and other points in the vicinity of Fort Collins; near Boulder; Upper San Juan; South Fork of San Miguel; Durango, Oslar; Ouray; Colorado Springs; Pike's Peak, 7,000 to 8,000 feet. A common species on various wild flowers.
- A. DELETA Lec. Durango, Bowditch.
- A. VIRIDIFRONS Lap. Cañon of Big Blue.
- CHRVSOBOTHRIS FEMORATA Fab. Colorado Springs; Horsefly Peak.
- C. CUPRASCENS Lec. Colorado, Horn.
- C. IGNICOLLIS Horn. Buena Vista; Placerville.
- C. SPECULIFER Horn. Colorado, Horn; Montrose, Bowditch.
- C. DENTIPES Germ. Horsefly Peak; Durango, Oslar; Ouray; Pagosa Springs; Florissant; Colorado Springs; Buena Vista; Dome Rock; a common species.
- C. LUDIFICATA Horn. Colorado, Horn; Rico; Durango; Horsefly Peak; Little Willow Creek; Mountains southwest of Montrose; Pagosa Springs; all of the above localities were furnished by Hayward and Bowditch.
- C. TRINERVIA Kirby. Cañon of Big Blue; Florissant; Salida, Oslar; Micawber Mine, Cockerell; The Divide, (on the railroad), Packard; Leavenworth Valley, 8,000 to 10,000 feet, Bowditch; Colorado Springs; Buena Vista.
- C. CAURINA Horn. Little Willow Creek; Rico; Florissant; Leavenworth Valley; Leadville.
- C. CARINIPENNIS Lec. Colorado Springs; Durango; Rico; Florissant.
- C. SCABRIPENNIS Lap. Rico; Leavenworth Valley, Bowditch.
- C. TEXANA Lec. Colorado, Horn.
- C. MALI Horn. Colorado, Horn.
- C. ÆNEOLA Lec. Cañon of Big Blue, Hayward.
- C. ATROFASCIATA Lec. La Junta, Bowditch.

ACMÆODERA MILIARIS Horn. Colorado, Snow.

- A. SPARSA Horn. Durango, Oslar; Manitou, Horn; near Colorado Springs, Wickham.
- A. ORNATA Fab. Colorado, Hayward; common near base of mountains, Snow.

- A. VARIEGATA Lec. Colorado, Leconte; also recorded from the state by Fall.
- A. PULCHELLA Hbst. Spring Cañon; The Rustic; La Porte; Clear Creek Cañon, Gillette; Poncha Springs, Oslar; La Junta and Montrose, Hayward; Durango, Bowditch; Dome Rock; Colorado Springs, abundant on Compositæ and *Geranium*, June and July. The form *mixta* is recorded from Manitou and Garden of the Gods, Packard; Pueblo, Snow; Morrison, Oslar.
- A. QUADRIVITTATA Horn. Colorado, Bowditch.

CHRYSOPHANA PLACIDA Lec. Dome Rock, Snow.

- AGRILUS LATERALIS Say. Colorado Springs, one specimen, answering the description except in size, which reaches .36 inch. It is probably of the same form as the New Mexican specimen mentioned by Horn as occurring in the Ulke cabinet.
- A. NIVEIVENTRIS Horn. Colorado Springs, one female. The specimen is in perfect condition and agrees exactly with the description; the recorded range is western Nevada and southern California.
- A. ANXIUS Gory. West Cliff; Horsefly Peak; Colorado Springs.
- A. PULCHELLUS Bland. Colorado, Horn.
- A. POLITUS Say. North Park; Little Beaver; Montrose, Gillette; Berkeley; Alamosa; Garland; Veta Pass; Red Mountain Road; Pueblo, Ulke; Gunnison; Little Willow Creek; San Juan Valley; South Fork of San Miguel; Colorado Springs; Leadville; a common species, infesting willows and poplars.

A. OBSOLETEGUTTATUS Gory. Colorado, Snow.

A. LACUSTRIS Lec. Bellevue; Colorado Springs.

A. PUSILLUS Say. Colorado, Horn.

TAPHROCERUS GRACILIS Say. Greeley; Fort Collins; Colorado Springs; near Denver, Uhler.

BRACHYS ÆROSA Melsh. Colorado, Snow; Durango, Oslar.

LAMPYRIDÆ.

RHVNCHEROS SANGUINIPENNIS Say. Stove Prairie Gulch; Little South,

July; Ouray; Red Mountain Road; Pagosa Springs, June, Oslar; La Veta; Manitou, Snow; Colorado Springs, Wickham.

LYCOSTOMUS LATERALIS Melsh. Colorado, Bowditch.

L. FULVELLUS Lec. Colorado Springs, one specimen, Wickham.

CALOPTERON TERMINALE Say. Colorado, Ulke; Fort Collins, August.

C. RECTICULATUM Fab. Colorado, Bowditch.

CÆNIA AMPLICORNIS Lec. Colorado, Snow; the record is by Dr. Leconte, Tr. Am. Ent. Soc., 1881, p. 22.

EROS AURORA Hbst. Rist Cañon; Ironton, Gillette; West Cliff.

PLATEROS TIMIDUS Lec. Vicinity of Durango, Hayward.

P. FLORALIS Melsh. Dolores, June.

LYGISTOPTERUS RUBRIPENNIS Lec. Pagosa Springs, Hayward and Oslar; Dome Rock; occurs from June to August.

CALOCHROMUS FERVENS Lec. Colorado, Leconte.

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C. RUFICOLLIS Lec. Upper San Juan; Pagosa Springs; Cochetopa Pass. ELLYCHNIA FLAVICOLLIS Lec. Colorado, Leconte.

E. CALIFORNICA Mots. Vicinity of Pagosa Springs, Hayward.

- E. CORRUSCA Linn. Northern Colorado, Gillette; West Cliff; Dome Rock; Garland; Veta Pass; I have a specimen from Colorado Springs, which is nearly intermediate between this and *californica*.
- PYROPYGA FENESTRALIS Melsh. Ula, Cockerell; Nathrop; Denver; Fort Collins; Chimney Gulch; Colorado Springs; Buena Vista; Horsefly

Peak Divide; San Luis Valley; Montrose; Durango. P. NIGRICANS Say. Reported from Colorado by Leconte, Horn and Snow. PYRACTOMENA BOREALIS Rand. West Cliff; Cusack Ranch, May and June.

P. LUCIFERA Melsh. Colorado, Ulke.

PHOTINUS PYRALIS Linn. Near Denver, August, not abundant, Uhler.

MICROPHOTUS ANGUSTUS Lec. Colorado, Putnam.

PHOTURIS PENNSYLVANICA De Geer. Fort Collins, July; not uncommon at Ouray, flying after dusk.

CHAULIOGNATHUS LIMBICOLLIS Lec. Colorado, Leconte.

- C. BASALIS Lec. Golden and Denver, Oslar; Pleasant Valley, Fremont County, Cockerell; near West Cliff; Livermore; vicinity of Fort Collins; Garland, Bowditch; Upper San Juan; West Las Animas; Bijou; Colorado Springs; Cañon City. A common species in August and September.
- C. PENNSYLVANICUS De Geer. La Junta, Wickham; Boulder and Durango, Oslar; Palmer Lake.
- PODABRUS Sp. near quadratus Lec. Ouray.
- P. sp. near modestus Say. Rico.
- P. TOMENTOSUS Say. Mountains southwest of Montrose.
- P. BREVIPENNIS Lec. Argentine Pass, 13,000 feet, Bowditch.
- P. PINIPHILUS Esch. Cañon of Big Blue; Summitville; Little Beaver; Stove Prairie; Little South.
- P. LATERALIS Lec. Little Willow Creek; Rico; Durango; South Fork of San Miguel; Mountains southwest of Montrose; Pike's Peak, 10,000 to 11,000 feet; South Park region, Oslar; Ouray; Red Mountain Road; Silver Plume; Leavenworth Valley; Georgetown; Brush Creek, Custer County, Cockerell, 10,000 to 12,000 feet; Peak Eight, above timber; Breckenridge; Leadville; Fort Collins; Stove Prairie; Little South; West Cliff; Dolores; Little Beaver; Argentine Pass; Garland; Veta Pass. A common species, chiefly confined to the higher altitudes.

P. LÆVICOLLIS Kirby. Over 12,000 feet, Carpenter; Roaring Fork.

SILIS MUNITA Lec. Boulder, Gillette; Fort Collins and vicinity; Chimney Gulch; West Cliff; Garland.

S. DIFFICILIS Lec. West Cliff; Mountains southwest of Montrose.

S. PERCOMIS Say. Lamar; Dixon Cañon.

TELEPHORUS FRAXINI Say. Fort Collins; Berkeley; Colorado Springs; Bear Creek Cañon, Evans' Peak region, Oslar; Garland; La Veta.

T. LINEOLA Fab. Denver; Fort Collins; June and July.

- T. RECTUS Melsh. Buena Vista; the identity is in some doubt.
- T. FLAVIPES Lec. Fort Collins and vicinity.

- T. RUFICOLLIS Lec. Cañon of Big Blue; Little Willow Creek; Rico; Montrose; La Veta.
- T. FIDELIS Lec. Dolores; Colorado, Snow.
- T. ALTICOLA Lec. Garland.
- T. BILINEATUS Say. On grass and weeds near mouth of the Cañon of the Arkansas, Uhler.
- POLEMIUS PLATYDERUS G. & H. Cañon of Big Blue.
- MALTHODES CONCAVUS Lec. Colorado, Bowditch.
- M. FURCIFER Lec. Veta Pass. Specimens from La Veta, (Bowditch) and Leadville, (Wickham) are referred to this species with some doubt.

MALACHIDÆ.

COLLOPS TRICOLOR Say. Colorado, Horn.

- C. PUNCTATUS Lec. Vicinity of Fort Collins, May to July; Dolores.
- C. EXIMIUS Er. Dome Rock; Upper San Juan; Durango; with doubt, Garland; Alamosa; La Veta.
- C. NIGRICEPS Say. Colorado Springs. Closely allied or identical forms come from the South Park, (Oslar) and from Dolores.
- C. CRIBROSUS Lec. South Park, Ulke; over 12,000 feet, Carpenter; state records are in the Putnam list and Ulke's Hayden report.
- C. HIRTELLUS Lec. Durango, Oslar; Mount Lincoln; Pike's Peak; Red Mountain Road, 8,000 to 9,000 feet; Montrose, Gillette. A new species allied to *hirtellus* is reported from Alamosa, and another (or the same?) from Little Willow Creek and Cimarron, (Bowditch).
- C. BIPUNCTATUS Say. Nathrop; Montclair; Fort Collins; Trinidad, Gillette; Cañon City; Colorado Springs; Buena Vista. A common species, often seen in great numbers on Compositæ during the late summer.
- C. QUADRIMACULATUS Fab. Dolores; La Junta; near Cañon City, common on sunflowers, August 10, Ulke.
- C. LIMBELLUS G. & H. Colorado, Horn.
- C. VITTATUS Say. Fort Collins; Bellevue; West Cliff; Alamosa; Garland; Mr. Schwarz took a form which was thought to be either new or a variety of this at Alamosa.
- TROPHIMUS ÆNEIPENNIS Horn. Colorado, Horn.
- MALACHIUS MONTANUS Lec. Alamosa; Garland; La Veta; South Fork of San Miguel; West Cliff; Dolores; Fort Collins. Occurs in June and July.
- MICROLIPUS LÆVICOLLIS Horn. South Fork of San Miguel; Mountains southwest of Montrose.
- ANTHOCOMUS ERICHSONII Lec. Fort Collins; Manitou; Dolores; May and June.
- A. FLAVILABRIS Say. Mountains southwest of Montrose.
- PSEUDEBÆUS APICALIS Say. La Junta, Bowditch. An undetermined species of this genus was taken at Colorado Springs.
- P. OBSCURUS Lec. Garland.
- ATTALUS BASALIS Lec. Upper San Juan; Garland.

- A. MORULUS Lec. Cañon City, Wickham; Colorado Springs; Alamosa; Garland; Buena Vista; Pike's Peak, 7,000 to 8,000 feet; Dome Rock; Red Mountain Road, 9,000 to 10,000 feet.
- A. NIGRIPES Horn. Colorado, Horn.
- A. CINCTUS Lec. Colorado, Horn. A specimen in the Agricultural College collection marked "*cinctus* det. Riley" differs from the description in not having a yellow abdomen and in the elytra being broadly margined with yellow.

TRICHOCHROUS SPARSUS Casey. Colorado, Casey.

T. ANTENNATUS Mots. This name occurs in the Packard list as from Golden. I have also seen a number from Montrose with this label but it is doubtful where they would go by Major Casey's revision. His understanding of Motschulsky's species is different from that of Dr. Leconte.

T. INÆQUALIS Casey. Colorado, Casey.

- T. FUNEBRIS Casey. Colorado, Casey.
- T. TEXANUS Lec. Southern Colorado, Leconte.

T. ÆNESCENS Lec. Upper San Juan, Bowditch.

- CRADYTES SERRICOLLIS Lec. Trinidad and Rocky Ford, Gillette; taken in September.
- C. SERRULATUS Lec. San Luis Valley, Bowditch.
- LISTRUS INTERRUPTUS Lec. Fort Collins; Steamboat Springs.
- L. SENILIS Lec. Southern Colorado, Leconte; Durango; Cochetopa Pass; Florissant; Cañon City; Colorado Springs; West Cliff; Eastern Custer County, Cockerell; Buena Vista; Estes Park Toll Road; Fort Collins; Steamboat Springs. Common and widely distributed over the state.

L. LUTEIPES Lec. Vicinity of Fort Collins; Dolores.

- L. RUBRIPES Casey. Colorado, Casey.
- DASYTELLUS NIGRICORNIS Bland. Southern Colorado, Leconte; this or an allied species occurs at Dolores and Ouray.
- DASYTES HUDSONICUS Lec. North Park; Timber line above Smith's Park Gulch, Custer County, Cockerell; Garland; Veta Pass; Leadville, not uncommon on the foliage of dwarf pines; Breckenridge; Mountains southwest of Montrose; Upper San Juan; Little Willow Creek.
- D. OBTUSUS Casey. Colorado, Casey.
- D. BREVIUSCULUS Mots. The name occurs in the Putnam list. This is not the species to which Casey applies Motschulsky's name, as he does not follow Leconte in his identification.

DASYTASTES RUFICOLLIS Ulke. Colorado, Bowditch.

ESCHATOCREPIS CONSTRICTUS Lec. Montrose, Bowditch.

PSEUDALLONVX PLUMBEUS Lec. Beaver Brook; South Fork of San Miguel.

DOLICHOSOMA FOVEICOLLE Kirby. North Park; Steamboat Springs.

EURELYMIS ATRA Lec. Beaver Brook.

MECOMVCTER OMALINUS Horn. Colorado Springs, June.

CLERIDÆ.

CYMATODERA MOROSA Lec. Between Aztec, New Mexico and Durango, Colorado, Bowditch; possibly not taken in this state.

THE COLEOPTERA OF COLORADO.

- TRICHODES ORNATUS Say. West Cliff and vicinity, common on various flowers; Dillon; South Park; Poncha Springs; Durango; Ouray; Red Mountain Road; Upper San Juan; Little Willow Creek; Cañon of Big Blue; Mountains southwest of Montrose; South Fork of San Miguel; Colorado Springs; Buena Vista; Leadville; Breckenridge; Denver; Fort Collins; Boulder; Stove Prairie; Georgetown; Leavenworth Valley; Silver Plume; Micawber Mine; Beaver Brook; Dome Rock; Garland; La Veta; more abundant at high altitudes.
- T. NUTTALLI Kirby. Golden, Packard; Boulder, Gillette; Dome Rock.
- CLERUS SPINOLÆ Lec. Durango, Hayward.
- C. ANALIS Lec. Colorado, in flowers of prickly pear, Putnam; La Junta, Bowditch.
- C. QUADRIGUTTATUS Oliv. Garland; Veta Pass, 9,400 feet; Lamar.
- C. ABRUPTUS Lec. Fort Collins, June to August; Chimney Gulch; Poncha Springs; La Junta; Colorado Springs; Durango.
- C. CORDIFER Lec. Fort Collins, July and August; Morrison, Oslar; Colorado Springs; southern Colorado, Leconte.
- C. NIGRIVENTRIS Lec. Buena Vista and Leadville, running on lumber piles in July; Little Willow Creek; Mountains southwest of Montrose; Florissant.
- C. SPHEGEUS Fab. Leadville; West Cliff; Beaver Brook, not common.
- C. MŒSTUS Klug. Ouray; Durango; Little Willow Creek; Buena Vista, on lumber piles; Montrose, Gillette; Florissant.
- THANASIMUS UNDULATUS Say. Little Beaver; Dome Rock; Veta Pass, 9,200 to 11,500 feet; Breckenridge; Leadville; Rico; often found running in the sunshine on piles of lumber.
- HYDNOCERA UNIFASCIATA Say. Rocky Ford, Gillette.
- H. SUBFASCIATA Lec. Vicinity of Fort Collins; The Rustic; Big Narrows of Poudre; Bellevue; Colorado Springs; Buena Vista; Mount Lincoln, 10,000 to 13,000 feet; Garland; La Veta; Alamosa; Durango; Rico. Occurs from June to August.
- H. SUBÆNEA Spin. Colorado, Horn.
- H. HUMERALIS Say. Vicinity of Fort Collins; Colorado Springs; Cañon City; Durango; Mountains southwest of Montrose. Not usually common, occurs from June to August.
- H. CYANESCENS Lec. Upper San Juan.
- H. DIFFICILIS Lec. Mount Lincoln, Bowditch.
- H. PUBESCENS Lec. Colorado, Putnam.
- H. SCABRA Lec. Upper San Juan; Durango; Alma.
- H. PEDALIS Lec. Spring Cañon; Rist Cañon; March and July.
- H. LONGICOLLIS Ziegl. Fort Collins, July, Baker.
- NECROBIA RUFIPES Fab. Pikeview, El Paso County, Cockerell.
- N. VIOLACEA Linn. West Cliff; Florissant; La Junta; Colorado Springs; Buena Vista; Breckenridge; Leadville; Durango; Montrose; Ouray; Fort Collins; Dolores; Manitou; Garland; La Veta; a very common species on drying carrion.

PTINIDÆ.

ERNOBIUS TRISTIS Lec. Veta Pass, 9,200 feet.

E. GRACILIS Lec. Garland.

XESTOBIUM SQUALIDUM Lec. North Park, July, Gillette.

OLIGOMERUS SERICANS Melsh. Dome Rock.

GASTRALLUS MARGINIPENNIS Lec. Garland.

TRYPOPITYS PUNCTATUS Lec. Buena Vista.

XVLETINUS FUCATUS Lec. Veta Pass, 9,400 feet; Pike's Peak, 8,000 to 9,000 feet, one specimen by beating.

X. LUGUBRIS Lec. Colorado.

CÆNOCARA OCULATA Say. North Park, July, Gillette.

AMPHICERUS BICAUDATUS Say. Catlin; Denver; Fort Collins; Rocky Ford. Depredates on apple twigs. The dates run from February to June.

DINODERUS SUBSTRIATUS Payk. Garland; Veta Pass, 9,400 feet; Colorado Springs; Durango; Leavenworth Valley.

D. PACIFICUS Casey. Colorado, Casey.

D. CRIBRATUS Lec. Boulder, Packard.

D. PUSILLUS Fab. Fort Collins, from rice purchased in Chicago.

LYCTUS PLANICOLLIS Lec. Colorado, Horn; and with doubt, Veta Pass, 9,400 feet.

CIOIDÆ.

CIS STRIOLATA Casey. Salida.

ENNEARTHRON THORACICORNIS Ziegl. Fort Collins, bred in cage. February.

SPHINDIDÆ.

SPHINDUS CRASSULUS Casey. Buena Vista.

LUCANIDÆ.

LUCANUS MAZAMA Lec. Southern Colorado, Leconte; Durango, Oslar.

PLATYCERUS DEPRESSUS Lec. Delta County, Cockerell; Rist Cañon; Horsefly Peak; Ouray; not uncommon in July.

CERUCHUS PUNCTATUS Lec. Colorado, Leng and Beutenmueller.

SCARABÆIDÆ.

CANTHON EBENUS Say. Denver, Packard; La Junta, Hayward.

- C. PRATICOLA Lec. La Junta, Bowditch; Colorado Springs; Fort Collins and vicinity, April to June; West Cliff; Garland.
- C. SIMPLEX Lec. Specimens of the form *corvinus* are reported from Colorado by Mr. Blanchard; I took this variety at Ouray.
- C. VIGILANS Lec. Colorado, Ulke and Blanchard.
- C. LÆVIS Drury. Hilly region west of Denver, Uhler; Berkeley; Fort Collins, April and June; Pueblo.
- PHANÆUS CARNIFEX Linn. State records are given in several lists but the only definite localities that can be cited are Greenhorn and Fort Collins.

ONTHOPHAGUS HECATE Panz. Lamar; Fort Collins and vicinity; La Junta; Colorado Springs; Pueblo; Cañon City. O. JANUS Panz. Cañon City, Wickham.

ÆGIALIA RUFESCENS Horn. Ouray; Veta Pass, 9,400 feet.

- Æ. LACUSTRIS Lec. Argentine Pass; Rico; Garland; La Veta; Veta Pass, 9,200 feet; Buena Vista. What seems to be a smaller form of the same species was taken on Peak Eight, in the Ten Mile Range, at an altitude of about 12,000 feet.
- RHVSSEMUS SCABER Hald. Greeley; vicinity of Fort Collins, March, April and June.
- R. SONATUS Lec. Cañon City, Wickham.
- ATÆNIUS ABDITUS Hald. Cañon City, Wickham.
- A. WENZELII Hald. Colorado? Horn. The locality is cited as open to doubt.
- APHODIUS VALIDUS Horn. Durango, Bowditch, in doubt.
- A. HAMATUS Say. Buena Vista; Garland, (as omissus); Alamosa, (as torpidus).
- A. DENTICULATUS Hald. Fort Collins; Bellevue; Placerville; Buena Vista; Cañon City; Greeley.
- A. BIDENS Lec. Veta Pass, over 9,000 feet; Garland.
- A. FIMETARIUS Linn. Durango, July, Oslar; Berkeley.
- A. CONGREGATUS Mann. Leavenworth Valley, 10,000 to 11,000 feet; Rist Cañon.
- A. ALEUTUS Esch. Leavenworth Valley, 10,000 to 11,000 feet; Alma; Argentine Pass; Moose Mountain, 11,500 to 12,000 feet; Summitville; Upper San Juan.
- A. FETIDUS Fab. Leavenworth Valley, 10,000 to 11,000 feet.
- A. DUPLEX Lec. Colorado, Horn.
- A. RURICOLA Melsh. Colorado Springs.
- A. ANTHRACINUS Lec. Red Mountain Road, 9,000 to 10,000 feet; Ouray.
- A. GRANARIUS Linn. La Junta; Rico; West Cliff; Fort Collins and vicinity; Trinidad; Greeley; Cañon City; Berkeley.
- A. VITTATUS Say. Hayden's, Lake County, Cockerell; West Cliff; Cimarron; Rico; Montrose; Durango; Garland; Colorado Springs; Buena Vista; Leadville; Peak Eight; Moose Mountain; Greeley; Fort Collins and vicinity; Berkeley; Georgetown; Leavenworth Valley; Argentine Pass; Ouray. This is the commonest species of the genus in Colorado, and ranges from the lower altitudes of the eastern part of the state to the peaks above timber line.
- A. LIVIDUS Oliv. Hardscrabble district, Custer County, Cockerell.
- A. OBTUSUS Lec. Colorado, Horn.
- A. ALTERNATUS Horn. Durango; Gunnison; Little Willow Creek; Alamosa; Garland; West Cliff.
- A. EXPLANATUS Lec. Rico Road; Garland; West Cliff.
- A. RUDIS Lec. Dome Rock.
- A. PHÆOPTERUS Lec. Moose Mountain, 11,500 to 12,000 feet.
- A. BREVICOLLIS Lec. West Cliff.
- A. MARGINATUS Lec. West Cliff.
- A. RUBEOLUS Beauv. La Junta, Bowditch.

- A. CONCAVUS Say. Colorado, Horn; Fort Collins.
- A. COLORADENSIS Horn. Durango; Garland; Monument Gulch to Montrose; Colorado Springs, June and July.
- A. INQUINATUS Hbst. Argentine Pass, Bowditch.
- A. PUMILUS Horn. South of Durango, Bowditch. Mr. Hayward reports it from Aztec, New Mexico, twenty miles south of the Colorado line.
- A. TERMINALIS Say. Argentine Pass; Mount Lincoln.
- A. CRUENTATUS Lec. Upper San Juan; Rico Road; Durango; La Junta; Veta Pass; West Cliff.
- A. SCABRICEPS Lec. Dixon Cañon, April; Durango, July, Oslar.
- A. SUBTRUNCATUS Lec. Colorado, Horn.
- A. FEMORALIS Say. Summitville, Hayward.
- A. OBLONGUS Say. Colorado, Horn.
- OCHODÆUS SIMPLEX Lec. Fort Collins, May and June; Little South, July; Manitou, April, Gillette.
- O. BIARMATUS Lec. Greeley, Wickham.
- O. MUSCULUS Say. Denver, May; Fort Collins, June.
- O. SPARSUS Lec. Colorado, Horn.
- BOLBOCERAS LAZARUS Fab. Southern Colorado, Leconte; Fort Collins, June and July; Greeley.
- ODONTÆUS OBESUS Lec. Veta Pass; Buena Vista, one male. The occurrence of this species in the Rocky Mountains is interesting as it is otherwise Pacific in distribution.
- TROX SCUTELLARIS Say. Pueblo, Bowditch; La Junta, Hayward.
- T. SCABROSUS Beauv. Lamar.
- T. SUBEROSUS Fab. Pueblo; Fort Collins and vicinity.
- T. PUNCTATUS Germ. Lamar; vicinity of Colorado Springs; Fort Collins; La Junta; Denver; a common form in the Southwest.
- T. TUBERCULATUS De Geer. Vicinity of Fort Collins.
- T. GEMMULATUS Horn. Durango, Hayward.
- T. SONORÆ Lec. South Park region, Oslar; Florissant; Buena Vista; West Cliff; Durango.
- T. UNISTRIATUS Beauv. Colorado Springs.
- T. ATROX Lec. Near Long's Peak, Leconte; Fort Collins; Greeley.
- HOPLIA LATICOLLIS Lec. Southern Colorado, Leconte.
- DICHELONVCHA BACKII Kirby. Vicinity of Fort Collins; near Brush Creek, 10,000 to 12,000 feet, Cockerell; Southern Colorado, Leconte; Garland; Veta Pass; common at times.
- D. TRUNCATA Lec. Durango, Oslar; Placerville; South Fork of San Miguel; Mountains southwest of Montrose.
- D. SULCATA Lec. Chimney Gulch, June; Fort Collins, May; Garland; Veta Pass, 9,100 feet.
- SERICA VESPERTINA Gyll. Horsetooth Gulch, May; Greeley; Colorado, without definite record, Horn and Snow. Specimens which may belong here were taken at Buena Vista and Colorado Springs.
- S. SERICEA Ill. Southern Colorado, Leconte.
- S. CURVATA Lec. Southern Pueblo County, Cockerell.

- S. FRONTALIS Lec. Fort Garland, Ulke; specimens with this label are in the Agricultural College collection, the determination being credited to Schwarz.
- S. very near *trociformis* Burm. Buena Vista; differs from eastern specimens of *trociformis* in the weaker sculpture.

MACRODACTYLUS SUBSPINOSUS Fab. Colorado, Riley, Insect Life, II, p. 297. DIPLOTAXIS near *liberta* Germ. Rist Cañon, April.

- D. BREVICOLLIS Lec. Road from Monument Gulch to Montrose; Montrose; Mountains southwest of Montrose; Garland; Veta Pass; Rio Grande, Ulke; West Cliff; Leadville; this or a closely allied form comes from Rist Cañon with the date June 14.
- D. OBSCURA Lec. Rico; Veta Pass, Bowditch.
- D. CARBONATA Lec. Colorado Springs, a few about Yucca bunches, Uhler.
- D. ATRATULA Lec. Colorado, Snow; Pueblo, Ulke.
- D SUBANGULATA Lec. West Cliff, Cockerell.
- D. PACATA Lec. West Cliff, in doubt, Cockerell.
- D. HAYDENII Lec. Southern Pueblo County, Cockerell; West Cliff, common at light; Durango; Florissant; Horsefly Peak; Pueblo, Gillette; Fort Collins; Colorado Springs; Greeley.
- LACHNOSTERNA LANCEOLATA Say. Found creeping out of holes in patches of buffalo grass on hills near the Garden of the Gods, August 13 and 16, Uhler; Boulder, Packard; La Junta, Bowditch; Colorado Springs, Ulke; Fort Collins, July.
- L. GRACILIS Burm. La Junta, Hayward.
- L. A FINIS Lec. Colorado, Horn.
- L. GRANDIS Smith. Colorado, Smith.
- L. DUBIA Smith. Colorado, Smith; Greeley, Wickham.
- L. FUSCA Freeh. Southern Colorado, Leconte; Denver; both of these records were made before the separation of the various forms of this group, and they may not refer to *fusca* as now understood. Indeterminates of this section of the genus are known from Colorado Springs and the Upper San Juan.
- L. FRATERNA Harr. South of Denver, Ulke
- L. RUGOSA Melsh. Colorado, Horn.
- L. LIMULA Horn. Colorado, Horn.
- L. RUBIGINOSA Lec. Buena Vista, one female.
- L. GLABRICULA Lec. Colorado, Hayward.
- L. CRINITA Burm. Near Swift Creek, Custer County, Cockerell.
- LISTROCHELUS DISPARILIS Horn. Colorado, Horn; Durango, Hayward.
- L. FIMBRIPES Lec. Colorado, Horn.
- L. FALSUS Lec. Pagosa Springs, June, Oslar; Dome Rock, Snow.
- POLYPHYLLA DECEMLINEATA Say. Southwestern Colorado, Strecker; San Luis Valley; Greenhorn; Pueblo County; Salida; Colorado Springs; not common.
- P. SPECIOSA Casey. Colorado, Casey.
- ANOMALA BINOTATA Gyll. Cañon City, Wickham.

CYCLOCEPHALA IMMACULATA Oliv. Fort Collins, July; Pueblo, Snow.

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LIGYRUS GIBBOSUS De Geer. Denver, Packard; Fort Collins; Pueblo; occurs in June and July.

L. RELICTUS Say. Chimney Gulch; Denver; Fort Collins; June to August.

- APHONUS PYRIFORMIS Lec. Southwest Colorado, Strecker; South Park region, Oslar; Durango; Fort Collins; Greenhorn; Colorado Springs; found from June to August.
- A. TRIDENTATUS Say. Durango; Upper San Juan; vicinity of Long's Peak, Leconte.
- XYLORYCTES SATYRUS Fab. Fort Collins, July.
- EUPHORIA KERNII Hald. La Junta; West Las Animas; Colorado Springs; southern Colorado; Chimney Gulch; Montrose; Fort Collins and vicinity; often abundant in flowers of *Argemone* and thistles.
- E. FULGIDA Fab. Colorado Springs, one specimen, less green than the eastern form.
- E. INDA Linn. Colorado Springs; Fort Collins, one in nest of *Lasius*, March, another flying in April; Bellevue; Denver; Mace's Hole, Pueblo County, Cockerell; Pueblo; Bijou, flying in August, Uhler.
- CREMASTOCHILUS SAUCIUS Lec. Berkeley and vicinity, April, May and June; Salida, Oslar.
- C. WHEELERI Lec. Rist Cañon; Bellevue, May.
- C. CASTANEÆ Knoch. Salida, Wickham; Fort Collins and vicinity, April.
- C. CRINITUS Lec. Salida, Wickham.
- C. KNOCHII Lec. Berkeley; Chimney Gulch; Fort Collins and vicinity; West Cliff; Greeley; Colorado Springs; Buena Vista; La Junta; found from April to August.

TRICHIUS PIGER Fab. West Cliff, on Rosa; Manitou, Packard.

- T. TEXANUS Horn. West Cliff; Beddoes' old ranch, Custer County, Cockerell.
- T. AFFINIS Gory. Beaver Brook; Horsefly Peak; Mountains southwest of Montrose; South Fork of San Miguel; La Junta; Little South; Stove Prairie; Fort Collins; Steamboat Springs; near Long's Peak; La Veta; Colorado Springs. A common insect in June and July, especially in cañons among the foothills.

SPONDYLIDÆ.

PARANDRA BRUNNEA Fab. Colorado, Horn; Durango, Oslar. SPONDYLIS UPIFORMIS Mann. Colorado, Ulke; West Cliff.

CERAMBYCIDÆ.

- ERGATES SPICULATUS Lec. Vicinity of Fort Collins, July and August; Colorado Springs; Engelmann's Cañon; West Cliff; Durango. Many of the Colorado specimens show lighter areas on the wing covers, constituting Cockerell's variety *marmoratus*.
- PRIONUS CALIFORNICUS Mots. Greenhorn; Estes Park; Fort Collins; Salida; Dome Rock; Engelmann's Cañon; Durango, Hayward; West Cliff; a specimen from the last-named place is but 25 mm. in length, or only

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about half the usual size. Mr. Oslar sent me a specimen from Durango, which is referable to the variety *curvatus* Lec.

P. FISSICORNIS Hald. Vicinity of Fort Collins, June and July.

- P. PALPALIS Say. A specimen from the Agricultural College collection, without label, is supposed by Prof. Gillette to have been taken in Colorado.
- HOMÆSTHESIS INTEGER Lec. Fort Collins, July; Denver; West Las Animas, Hayward.
- H. EMARGINATUS Say. Estes Park, July; Fort Collins, June; Willow Creek, Custer County, Cockerell; Colorado Springs, Snow; southwestern Colorado, Strecker.
- TRAGOSOMA HARRISII Lec. Salida, Oslar; South Park region, July; Willow Creek, Custer County, Cockerell; Pagosa Springs; Cochetopa Pass; Durango. I have retained Leconte's name for the present, in view of the differences of opinion as to the identity of our form with the European *T. depsarium*.
- ASEMUM ATRUM Esch. Leadville, Bowditch; Rio Grande, Ulke; West Cliff.
- A. MŒSTUM Hald Near Long's Peak; Estes Park; Fort Collins; Mederland, Packard; Veta Pass, 9,400 feet; Leadville, common on lumber piles and sidewalks.
- NOTHORHINA ASPERA Lec. Colorado, Snow; West Cliff.
- CRIOCEPHALUS PRODUCTUS Lec. Pagosa Springs, June, Oslar; South Park, Snow; Garland; Veta Pass, 9,400 feet; Leadville.
- C. AGRESTIS Kirby. Denver; Fort Collins; Cañon City; Pagosa Springs; Leadville; found from June to August.
- C. ASPERATUS Lec. Mountains southwest of Montrose; San Luis Valley; specimens from Denver, Fort Collins and the Poudre Cañon are not very typical and may be well developed individuals of *agrestis*.
- C. MONTANUS Lec. West Cliff; Leadville.
- C. OBSOLETUS Rand. Colorado, Putnam.
- TETROPIUM VELUTINUM Lec. Colorado, Bowditch.
- T. CINNAMOPTERUM Kirby. Leavenworth Valley, 9,000 to 10,000 feet, Bowditch.
- T. PARALLELUM Casey. Colorado, Casey.
- GONOCALLUS COLLARIS Kirby. Colorado, Bowditch.
- HYLOTRUPES LIGNEUS Fab. West Cliff; Fort Collins.
- PHYMATODES VARIABILIS Fab. Colorado, Snow; Red Mountain Road, on willows.
- P. MACULICOLLIS Lec. Garland; Red Mountain Road, 8,000 to 9,000 feet.
- P. DIMIDIATUS Kirby. Ouray and above; West Cliff; Veta Pass; Leadville. MERIUM PROTEUS Kirby. Colorado, Leng.

CALLIDIUM ANTENNATUM Newm. Salida; Berkeley; Bellevue.

- C. JANTHINUM Lec. Little Willow Creek; West Cliff; Fort Collins and vicinity, April and May; Leavenworth Valley, 9,000 to 10,000 feet; Georgetown.
- C. CICATRICOSUM Mann. West Cliff, June.

- C. HIRTELLUM Lec. Dome Rock, Snow; Leadville, two specimens beaten from conifers. Mr. Bowditch has an unidentified species of *Callidium* from the Leavenworth Valley.
- PŒCILOBRIUM CHALYBEUM Lec. Garland.

MOLORCHUS BIMACULATUS Say. Rist Cañon, May and June.

RHOPALOPHORA RUGICOLLIS Lec. Upper San Juan, Hayward.

R. LONGIPES Say. Colorado Springs, on flowers of *Helianthus;* Horsetooth Mountain; Rustic; Durango; Upper San Juan, Bowditch; Dome Rock; Denver.

STENASPIS SOLITARIA Say. Colorado, Leng.

TRAGIDION COQUUS Linn. South Park region, Oslar; Engelmann's Cañon; Prof. Snow also records the variety *fulvipenne* Say, from this last locality.

AMANNUS PECTORALIS Lec. Colorado, Leng.

- BATYLE IGNICOLLIS Say. Boulder; Golden; Colorado Springs; Dome Rock; entrance to Beaver Brook Gulch, Uhler; Rocky Ford; Durango; La Veta; Garland. Occurs from June to August, on flowers.
- B. SUTURALIS Say. Custer County, Cockerell; Denver; Colorado Springs; Ute Pass; Engelmann's Cañon; Dome Rock; Golden; Clear Creek Cañon; Fort Collins and vicinity; Estes Park Toll Road; Ouray; Durango. Often very abundant on flowers.

OXOPLUS CRUENTUS Lec. Bridgeton, Bowditch.

O. JOCOSUS Horn. Garland, Bowditch; in the Agricultural College collection is a specimen which agrees in color with *O. corallinus* Lec., but the sutural angle is not prolonged.

CROSSIDIUS TESTACEUS Lec. Colorado, Leng.

- C. PULCHELLUS Lec. Montclair; Dixon Cañon; Livermore; Boulder; Holly; Trinidad; San Luis Valley; Garland. Occurs in August and September.
- C. DISCOIDEUS Say. Custer and Fremont Counties, Cockerell; Denver; Colorado Springs; Boulder; Glenwood Springs; Beaver Brook Gulch; Garland; not rare in August.
- SPHÆNOTHECUS SUTURALIS Lec. Cañon City, August, Uhler.

CYLLENE DECORUS Oliv. Colorado, Leng; Boulder, September, Gillette.

- XVLOTRECHUS UNDULATUS Say. Florissant; at Buena Vista I took specimens of the form with white pubescence and reduced markings. Mr. Putnam records the variety *lunulatus* Kirby, while Mr. Hayward has the form *interruptus* Lap., collected in the state by Prof. Snow.
- X. ANNOSUS Say. Monument Gulch to Montrose; Horsefly Peak; Gunnison; Durango; Ouray; Garland.
- X. PLANIFRONS Lec. Recorded (in variety) from Short Creek, Custer County, by Prof. Cockerell.
- X. OBLITERATUS Lec. Colorado, Leng. I have a specimen from Ouray that seems to belong here though not agreeing exactly with the original description.
- NEOCLYTUS MURICATULUS Kirby. Ouray, common on felled trees, logs and sawed lumber; Little Willow Creek; Rico; Rist Cañon; Fort Collins;

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West Cliff; Boulder; Leavenworth Valley, 9,000 to 10,000 feet; Colorado Springs; lower slopes of Pike's Peak; Buena Vista; Leadville.

N. ASCENDENS Lec. Leavenworth Valley, 9,000 to 10,000 feet, Bowditch. N. APPROXIMATUS Lec. Morrison, August, Oslar.

- CLYTANTHUS ALBOFASCIATUS Lap. A variety is reported from Garland, in the Schwarz list.
- ATIMIA CONFUSA Say. Garland; West Cliff.
- RHAGIUM LINEATUM Oliv. Golden; Little Willow Creek; Veta Pass; Custer County, (Splann's Ranch), Cockerell; Rio Grande, Ulke.
- TOXOTUS VIRGATUS Lec. Placerville, Bowditch.
- T. OBTUSUS Lec. I have seen a specimen from Colorado.
- PACHYTA LITURATA Kirby. Fort Collins; Aspen; near Steamboat Springs; South Park region; Georgetown; Twin Lakes, Ulke; Custer and Lake Counties, Cockerell; Engelmann's Cañon; South Fork of San Miguel; Breckenridge; Leadville. At the last place a nearly black variety occurs along with the ordinary form. Mr. Ulke says that it occurs on *Populus* tremuloides and *P. balsamifera*, but I found most of mine on piles of sawed pine lumber.

ANTHOPHILAX MIRIFICUS Bland. Colorado, Leng.

- A. SUBVITTATA Casey. Supposed by the describer to have come from Colorado.
- ACMÆOPS BIVITTATA Say. Colorado, Leng.
- A. ATRA Lec. Mount Lincoln, 11,000 to 13,000 feet, Bowditch; Breckenridge; Durango, May, Oslar.
- A. TUMIDA Lec. Dome Rock, Snow.
- A. LONGICORNIS Kirby. Vicinity of Fort Collins; Little Beaver; Leavenworth Valley, 9,000 to 10,000 feet; Georgetown; lower slopes of Pike's Peak; Garland; Veta Pass; Red Mountain Road; Ouray; Montrose; Durango; Cañon of Big Blue; Mountains southwest of Montrose; South Fork of San Miguel; Little Willow Creek. Sometimes abundant on flowers of various Rosaceæ.
- A. VINCTA Lec. Lower slopes of Pike's Peak; South Fork of San Miguel; Durango; Ouray and above; Georgetown; Colorado Springs; Little Beaver; vicinity of Fort Collins. Thought by Mr. Leng to be only a variety of the last, with which it is frequently found feeding.
- A. LIGATA Lec. Georgetown, abundant; Clear Creek; Leavenworth Valley; Veta Pass; Colorado Springs; Monument Gulch to Montrose, and mountains to the southwest, Bowditch and Hayward; West Cliff. Also placed by Mr. Leng as a variety of *longicornis*, and found in the same situations.
- A. PROTEUS Kirby. Salida; Fort Collins; Denver; Georgetown; Colorado Springs; Buena Vista; Breckenridge; Leadville; Peak Eight, above timber; Dome Rock; West Cliff; Brush Creek, Custer County; Little Willow Creek; Summitville; Rico; Valley of Upper San Juan; Cañon of Big Blue; Pagosa Springs. The variety gibbula is recorded from Garland, Veta Pass and the Leavenworth Valley.
- A. PRATENSIS Laich. South Park; Little Willow Creek; Cañon of Big

Blue; South Fork of San Miguel; Rico; Cochetopa Pass; Horsefly Peak; Durango; Ouray and above; West Cliff; Micawber Mine; Veta Pass; Leavenworth Valley; Georgetown; Colorado Springs; Manitou; Pike's Peak, to summit; Arapahoe Peak, 11,000 to 12,000 feet; Breckenridge; Leadville; Peak Eight, above timber; North Park; Steamboat Springs; Little Beaver; Fort Collins and vicinity; Denver; Cameron Pass; Marshall Pass. Often found in numbers on flowers.

- GAUROTES CRESSONI Bland. Denver; above Ouray, up to about 10,000 feet; Veta Pass; Little Willow Creek; Cañon of Big Blue.
- TYPOCERUS BRUNNICORNIS Lec. West Las Animas, Hayward; South Park, Snow.
- T. BALTEATUS Horn. Garland. I have a pair from Colorado Springs which I refer here with some doubt.
- T. SINUATUS Newm. Vicinity of Fort Collins; Golden.
- LEPTURA SOROR Lec. Colorado, my collection.
- L. PROPINQUA Bland. Little Beaver; Bear Creek Cañon, Snow; Estes Park; Bailey; Custer County, up to about 10,000 feet, Cockerell; Leavenworth Valley; Ouray and road above, up to 10,000 feet; South Park; South Fork of San Miguel; lower slopes of Pike's Peak.
- L. PLAGIFERA Lec. Colorado, Leng.
- L. SUBARGENTATA Kirby. West Cliff; Micawber Mine; Fort Collins and vicinity; North Park; Chimney Gulch; Leavenworth Valley, 9,000 to 10,000 feet; Colorado Springs; Poncha Springs; Veta Pass; South Park; Mountains southwest of Montrose; Durango; Upper San Juan; Ouray and road above; Horsefly Peak; common at times, on wild roses.
- L. INSTABILIS Hald. Prof. Snow reports a black variety from Colorado; the form called *convexa* Lec., comes from Dome Rock; Chimney Gulch; South Park; Durango; Cimarron; Cañon of Big Blue; while Prof. Snow took five specimens at an altitude of 10,000 feet, on *Astragalus flexuosus*.
- L. SEXMACULATA Linn. Gore Pass; Denver; Bullion Peak; Leadville; Leavenworth Valley, 9,000 to 10,000 feet; Red Mountain Road, 8,000 to 10,000 feet, on flowers of wild parsnips and mountain ash; South Fork of San Miguel; Little Willow Creek; this is a species which is partial to high altitudes.
- L. NIGRELLA Say. South Park, Snow. A form with testaceous elytra was taken at the same place.
- L. CARBONATA Lec. Dome Rock; Durango; Ouray and road above, both large and small specimens.
- L. CANADENSIS Fab. Rist Cañon; Beaver Creek and Little South; North Fork of South Platte Cañon; Little Willow Creek; Custer County, Cockerell. I have a specimen of *erythroptera* from the South Park region, collected by Mr. Oslar. The variety *cribripennis* Lec., is known from the following points: Engelmann's Cañon; South Park; North Fork of South Platte; Pagosa Springs; Upper San Juan.
- L. RUBRICA Say. Beaver Brook and Cañon City, Uhler.
- L. SANGUINEA Lec. Fort Collins; Estes Park; Stove Prairie; Little Beaver; Clear Creek; Dome Rock; Colorado Springs; Manitou; lower slopes of

Pike's Peak, up to about 10,000 feet; Veta Pass; South Park; South Fork of San Miguel; Leadville.

- L. CHRVSOCOMA Kirby. South Fork of San Miguel; Rico; Summitville; Pike's Peak, 9,000 to 10,000 feet; Colorado Springs; Manitou; Cheyenne Cañon; Engelmann's Cañon; Dome Rock; Fort Collins; Little Beaver; Stove Prairie; Beaver Brook, Bowditch; Georgetown; Leavenworth Valley; Breckenridge; Peak Eight, nearly to timber line; South Park; Custer County, Cockerell; Ouray and road above; a common insect on flowers.
- L. NIGROLINEATA Bland. South Park; Upper San Juan; Summitville; Ouray; Red Mountain Road; Denver; Leadville; Breckenridge.
- L. ASPERA Lec. Colorado, Leng; I took it along the Red Mountain Road and the Mineral Point Trail, at an altitude of about 9,000 feet or more, on flowers of mountain ash.
- L. CUBITALIS Lec. Veta Pass, Bowditch.
- MONILEMA ANNULATUM Say. La Junta; Horsetooth Mountain; Colorado Springs, under leaves of *Opuntia*; found from June to August.
- M. LÆVIGATUM Bland. Pueblo, Ulke.
- M. ARMATUM Lec. Cañon City, under leaves of *Opuntia arborescens*, August, Gillette; Pueblo, Bowditch.
- MONOHAMMUS MACULOSUS Hald. Dome Rock; Buena Vista; southern Colorado, Leconte.
- M. SCUTELLATUS Say. Fort Collins and vicinity; near Long's Peak; Little Beaver; Colorado Springs; Engelmann's Cañon; Dome Rock; South Park; Buena Vista; Leadville; Red Mountain Road; Durango; Upper San Juan. The variety *oregonensis* is known from Fort Collins; Glenwood Springs; and West Cliff.

LIOPUS ALPHA Say. Dome Rock.

- DECTES SPINOSUS Say. La Junta; Colorado Springs; Manitou; Engelmann's Cañon; Fort Collins; Denver; Golden; near Pueblo; Cañon City. Sometimes common on wild sunflowers.
- HVPERPLATVS ASPERSUS Say. Ouray, on piled poplar logs; Fort Collins; Horsefly Peak; Upper San Juan.
- ACANTHOCINUS OBLIQUUS Lec. Fort Collins; Engelmann's Cañon; West Cliff; Ouray.
- A. SPECTABILIS Lec. West Cliff; Ute Pass.
- POGONOCHERUS PENICELLATUS Lec. Colorado, Leng and Hamilton.
- P. MIXTUS Hald. Ouray, on piled poplar logs; Placerville; Rico road; Gunnison; Garland; West Cliff; Estes Park; Little Beaver; Fort Collins; Dome Rock; Colorado Springs; Idaho Springs; Breckenridge; Leadville; the form *simplex* Lec., is known from West Cliff and Veta Pass.

P. OREGONUS Lec. Horsefly Peak; Upper San Juan.

- SAPERDA CALCARATA Say. Southern Colorado, Cassidy, injurious to Populus angulatus and Lombardy poplar; Pueblo, Gillette.
- S. MESTA Lec. Along the Mineral Point Trail, above Ouray, common on small trees of quaking asp; Pagosa Springs; Fort Collins.

S. CONCOLOR Lec. Gunnison, Bowditch.

MECAS INORNATA Say. Colorado, Leng and Hamilton.

M. PERGRATA Say. Fort Collins and vicinity; Denver; Colorado Springs. Occurs in June.

OBEREA OCULATICOLLIS Say. Colorado, Horn.

- O. TRIPUNCTATA Swed. Colorado, Leng and Hamilton; on the slopes of Pike's Peak just above Manitou, I took specimens from raspberry bushes which closely opproximate Horn's O. texana. The form basalis Lec., was taken by Mr. Oslar at Chimney Gulch.
- O. QUADRICALLOSA Lec. Dome Rock.
- O. RUFICOLLIS Fab. Fort Collins and Bellevue, June and July.
- TETROPS CANESCENS Lec. West Las Animas, Hayward.
- TETRAOPES COLLARIS Horn. Colorado, Leng and Hamilton.
- T. FEMORATUS Lec. San Luis Valley; Colorado Springs; Denver; Clear Creek Cañon; Fort Collins; Rocky Ford; Delta. I have basalis from Montclair.
- T. QUINQUEMACULATUS Hald. Mr. Bowditch has the variety texanus Horn, from Durango.
- T. CANESCENS Lec. Fort Collins; Colorado Springs; Denver; Pueblo; Delta; occurs on Asclepias, from June to August.

CHRYSOMELIDÆ.

- DONACIA CINCTICORNIS Newm. The variety magnifica Lec., is recorded from Alamosa.
- D. SUBTILIS Kunze. Colorado, Leng.
- D. EMARGINATA Kirby. Colorado Springs.
- D. PUSILLA Say. The variety *cuprea* Kirby, is reported by Putnam, while *pyritosa* Lec., is known from Garland.
- ORSODACHNA ATRA Ahrens. This species occurs commonly in the highlands, mostly in the form *childreni* Kirby. Colorado Springs; Fort Collins; Stove Prairie; Little Beaver; Pike's Peak, 9,000 to 10,000 feet; Georgetown; Leavenworth Valley; Silver Plume; Argentine Pass road, up to 12,000 feet; above Ouray; Silverton; Brush Creek, Custer County; Chimney Gulch; Garland; Veta Pass; Little Willow Creek; Cañon of Big Blue; South Fork of San Miguel; Horsefly Peak.
- ZEUGOPHORA SCUTELLARIS Suffr. Colorado Springs. Specimens of an intermediate nature, allied to *consanguinea* and *californica* were sent from Rocky Ford by Prof. Gillette.
- Z. ABNORMIS Lec. Micawber Mine; Veta Pass; Gunnison; Placerville; Little Willow Creek; Pike's Peak; Breckenridge; Leadville, common on poplars, eating irregular holes in the leaves.

SYNETA CARINATA Mann. Cañon of Big Blue; Horsefly Peak, Bowditch.

- S. FERRUGINEA Germ. Veta Pass; I have specimens collected in Hall Valley by Mr. Oslar which I place here.
- LEMA TRILINEATA Oliv. Colorado Springs; La Junta; La Veta; Fort Collins, larva on *Physalis virginiana*, Baker; Golden; Berkeley.

- L. COLORADENSIS Linell. Fort Collins; Greeley.
- L. LONGIPENNIS Linell. Cañon City.
- EURVSCOPA LECONTEI Crotch. On oak bushes in the vicinity of Manitou, Uhler.
- COSCINOPTERA AXILLARIS Lec. West Cliff; Ouray; Upper San Juan; Berkeley; Colorado Springs, very abundant; Fort Collins.
- C. DOMINICANA Fab. Colorado Springs, on scrub oak; Buena Vista; Berkeley; Fort Collins; occurs in June and July.
- C. VITTIGERA Lec. Rather common in South Park, Snow; Little Beaver; Happy Hollow; vicinity of Fort Collins; Ouray; West Cliff, on Oxytropis lamberti; Colorado Springs; Buena Vista; Leadville, common on various plants; Pike's Peak; Alamosa; Garland; La Veta; San Luis Valley; Cañon of Big Blue; Placerville.

MEGALOSTOMIS SUBFASCIATA Lec. Colorado, Putnam.

- BABIA QUADRIGUTTATA Oliv. Colorado Springs; Buena Vista; West Cliff, on *Yucca angustifolia;* Holly; Clear Creek Cañon; Ouray; a common insect, found on many different plants.
- SAXINIS OMOGERA Lac. Poncha Springs; Durango; Fort Collins; Cimarron; Buena Vista.
- S. SAUCIA Lec. Gunnison; Durango.
- CHLAMVS PLICATA Fab. Fort Collins; Colorado Springs; Evans' Peak region.
- EXEMA CONSPERSA Mann. Colorado Springs; Denver; Boulder; Grand Junction; Bellevue.
- BASSAREUS DETRITUS Oliv. Colorado Springs.
- B. MAMMIFER Newm. Dome Rock.
- CRYPTOCEPHALUS QUADRIMACULATUS Say. Georgetown; Ouray; Garland; La Veta; Boulder; Fort Collins; Berkeley; Colorado Springs. The variety *notatus* Fab., is recorded from Colorado by Dr. Leconte and by Prof. Snow, while Mr. Ulke reports finding it at Cañon City and Manitou.
- C. QUADRUPLEX Newm. Fort Collins, June.
- C. GUTTULATUS Oliv. Cañon City, Uhler, one specimen.
- C. LEUCOMELAS Suffr. The variety *vitticollis* Lec., is recorded from Colorado by Dr. Horn; it has also been taken at Fort Collins in July and August.
- C. CONFLUENS Say. Colorado Springs and Buena Vista, not uncommon on Artemisiæ; Fort Collins, May and June; Little Beaver; Big Narrows of the Poudre, July; Durango; The Rustic.
- C. VENUSTUS Fab. Fort Collins, July, on Artemisia dracunculoides. The variety cinctipennis Rand., comes from Fort Collins with the label July.
- PACHYBRACHYS MOROSUS Hald. Colorado Springs, along the creeks; Rist Cañon, June.
- P. STRIATUS Lec. Colorado, "entirely black," Leconte; Garland, Bowditch.
- P. VIRGATUS Lec. Colorado Springs, Wickham.

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- P. LITIGIOSUS Suffr. North Park, July; vicinity of Fort Collins, June and July; Colorado Springs, common and variable.
- P. ABDOMINALIS Say. Colorado Springs; Buena Vista; not uncommon.
- P. OTHONUS Say. Colorado, Horn; Horsetooth Gulch, June.
- P. PUBESCENS Oliv. This is the species heretofore known by the name viduatus Fab. It is known to occur at Cañon City; Berkeley; Denver; Montrose; Dolores; Colorado Springs and Fort Collins, on willows.
- P. TRIDENS Melsh. Colorado Springs, Uhler.
- P. CONFORMIS Suffr. Colorado, Leconte.
- P. LIVENS Lec. La Junta, Bowditch.
- P. LUSTRANS Lec. Durango; South Fork of San Miguel; Rico; San Luis Valley; Colorado Springs and lower slopes of Pike's Peak.
- P. RENIDENS Lec. Veta Pass, Leconte; and, in doubt, from Little Willow Creek and from the mountains near Montrose.
- P. SUBVITTATUS Lec. Leadville, beaten from foliage of dwarf pines.
- P. ATOMARIUS Melsh. Dome Rock; Alamosa; Garland; La Veta.
- P. SPUMARIUS Suffr. Durango, Bowditch.
- P. HEPATICUS Melsh. West Cliff; Rist Cañon; Little Beaver; Colorado Springs.
- DIACHUS AURATUS Fab. La Veta; Dome Rock; Colorado Springs.
- D. ÆRUGINOSUS Lec. Mountains southwest of Montrose; Montrose; Garland; Denver, eating strawberry fruit.
- XANTHONIA DECEMNOTATA Say. Horsetooth Gulch, June; Dome Rock; Durango; South Fork of San Miguel.
- ADOXUS OBSCURUS Linn. The dark form is recorded from West Cliff, and I have seen it from the Red Mountain Road and Montrose Pass; the variety *vitis* Fab., is known from Custer County; above timber line on Pike's Peak, Snow; Red Mountain Road; South Park; Rico Road; Cañon of Big Blue; Fort Collins; Denver; Montrose Pass; near Palmer Lake; Upper San Juan; Buena Vista; Breckenridge; Leadville.
- MVOCHROUS SQUAMOSUS Lec. Colorado Springs; Fort Collins, May to July; Lamar.
- CHRVSOCHUS AURATUS Fab. Colorado, Horn; Pueblo, Ulke; Berkeley, July, Oslar.
- C. COBALTINUS Lec. Dome Rock; Delta; Spring Cañon; Denver, Packard.
- TVPOPHORUS CANELLUS Fab. The variety quadriguttatus Lec., has been seen from Lamar; Montrose; Fort Collins; and Pagosa. The form *aterrimus* Oliv., comes from Colorado Springs, where I took it commonly in sweepings, and from Fort Collins, where it was found on willows and on *Aster multiflorus*.
- GRAPHOPS OBSCURUS Lec. Colorado, Horn.
- G. VARIANS Lec. Fort Collins; West Cliff; Leadville.
- G. PUBESCENS Melsh. Fort Collins, in sweepings, May.
- G. MARCASSITA Crotch. Dome Rock, Snow.
- G. NEBULOSUS Lec. Fort Collins; Colorado Springs; Leavenworth Valley; Williams River; specimens were seen in the Agricultural College collection, from Northern Colorado, which had been taken in February,

March and April, so that this species probably hibernates in the imago state, like some of our eastern forms.

METACHROMA LONGULUM Horn. La Junta, Bowditch.

CHRVSODINA GLOBOSA Oliv. Colorado, Horn; Lamar; Horsetooth Gulch; Boulder.

RHABDOPTERUS PICIPES Oliv. La Junta, Bowditch; Fort Collins.

NODONOTA TRISTIS Oliv. La Veta; Poncha Springs; Durango; Berkeley; Colorado Springs; Fort Collins; a common species.

N. PUNCTICOLLIS Say. Dome Rock,

METAPARIA CLYTROIDES Crotch. La Junta, Wickham.

ENTOMOSCELIS ADONIDIS Fab. Mt. Lincoln; Williams River Valley; Rico; summit of Mt. Abrams; Mineral Point trail, 9,000 to 10,000 feet; Georgetown; Hesterburg's Lane, Custer County; Rist Cañon; Breckenridge; Leadville; Moose Mountain, above timber line. Prof. Cockerell found a specimen on *Cnicus*, but I took the insect chiefly on Cruciferæ.

PRASOCURIS PHELLANDRII Linn. Veta Pass, 11,500 feet.

P. OBLIQUATA Lec. Georgetown, Wickham.

DORVPHORA CLIVICOLLIS Kirby. A specimen without locality label in the Agricultural College collection is supposed to be from Colorado.

- D. DECEMLINEATA Say. Livermore; Pueblo; Golden; Denver; Colorado Springs.
- CHRVSOMELA EXCLAMATIONIS Fab. La Junta; Durango; Boulder; Fort Collins, on *Helianthus annuus;* Colorado Springs, common on sunflowers; La Veta; Pueblo; Denver; Clear Creek Cañon.
- C. CONTINUA Lec. Colorado, Linell; Horseshoe Bend Gulch, August 15, on Gymnolomia multiflora, Cockerell.
- C. CONJUNCTA Rog. Beaver Creek and Little South, July.
- C. SUTURALIS Fab. Fort Collins, August.
- C. DISRUPTA Rog. Howe's Gulch, June; Dome Rock.
- C. ELEGANS Oliv. Fort Collins, August; Colorado Springs, July.
- C. HETEROTHECÆ Linell. Colorado Springs; vicinity of Fort Collins.
- C. LUNATA Fab. Horsetooth Gulch and other points in vicinity of Fort Collins; Rocky Ford; Dolores.
- C. SCALARIS Lec. Fort Collins.
- C. MULTIPUNCTATA Say. Alamosa; La Veta; Fort Collins. The form bigsbyana Kirby, is recorded in the Putnam list, and vervucosa Suffr., is reported from the state by Dr. Horn.
- C. SIGMOIDEA Lec. Horsefly Peak, Bowditch.
- C. MULTIGUTTATA Stal. This name occurs in one of Dr. Leconte's lists.
- C. FLAVOMARGINATA Say. Fort Collins, larvæ feed on Artemisia dracunculoides, Baker; West Cliff.
- C. BASILARIS Say. Colorado, Linell.
- C. MONTIVAGANS Lec. Pike's Peak; Argentine Pass; Leavenworth Valley; Mount Lincoln; all of the foregoing records are from Mr. Bowditch; Custer County, Cockerell.
- C. AURIPENNIS Say. Leavenworth Valley, 10,000 to 11,000 feet.

PLAGIODERA PRASINELLA Lec. Florissant, Bowditch.

- P. OVIFORMIS Lec. Buena Vista; Breckenridge; Florissant; Salida; Stove Prairie; Little South; West Cliff; Veta Pass, 9,400 feet; Georgetown; Leavenworth Valley. Mr. Bowditch has a new species of this genus from Little Willow Creek.
- GASTROIDEA DISSIMILIS Say. Fort Collins, on *Rumex crispus;* Estes Park Hill; peaks above 12,000 feet, Carpenter.
- G. CVANEA Melsh. Durango; Denver; Leavenworth Valley; Fort Collins; Colorado Springs, on *Rumex*.
- G. FORMOSA Say. Fort Collins, June, on Rumex.
- LINA LAPPONICA Linn. Denver; Fort Collins; Montrose; Cerro Summit to Cimarron; Placerville; Gunnison.
- L. SCRIPTA Fab. Pueblo; La Junta; Berkeley; Fort Collins and vicinity; Estes Park; Little Willow Creek; Placerville; Colorado Springs, common on willows and poplars.
- GONIOCTENA PALLIDA Linn. Estes Park, July, Gillette.
- TRIRHABDA CANADENSIS Kirby. Golden; Livermore; Palmer Lake; Garland; La Veta; Colorado Springs, very abundant on Artemisiæ.
- T. NITIDICOLLIS Lec. Colorado, Horn; Poncha Springs, July, Oslar.
- T. DIDUCTA Horn. Specimens from Durango are doubtfully referred here by Mr. Bowditch.
- T. LEWISH Crotch. Big Narrows of Poudre, on *Bigelovia;* Clear Creek Cañon, Gillette; Durango; South Park; San Luis Valley, Bowditch.
- T. CONVERGENS Lec Dome Rock; Garland; La Veta; peaks over 12,000 feet, Carpenter; West Cliff; Little South; Dolores, on *Bigelovia*; Ouray; Durango; Cochetopa Pass; Upper San Juan; Little Willow Creek; Gunnison; Colorado Springs; Buena Vista. Prof. Cockerell describes a variety *virescens* from West Cliff and Silver Cliff, but in a note expresses a doubt whether it may not belong to *flavolimbata*.
- T. ATTENUATA Say. Denver; Pinewood; Little Willow Creek; occurs in July and August.
- T. FLAVOLIMBATA Mann. South Park; Poncha Springs; Nathrop; West Cliff; Buena Vista; the insect is said to occur on *Solidago*. Mr. Bowditch has *luteocincta* Lec., from Garland.
- GALERUCELLA AMERICANA Fab. Fort Collins, June; Dixon Cañon, February; the variety *cribrata* Lec., is recorded from West Cliff and Ula, occurring in May and July respectively.
- G. CAVICOLLIS Lec. Palmer Lake, August, destroying foliage of *Prunus pumila*.
- G. NOTULATA Fab., variety bilineata Kirby. Colorado, Putnam.
- G. NYMPHÆÆ Linn. Fort Collins, Baker.
- G. TUBERCULATA Say. Gunnison; Pagosa Springs.
- G. DECORA Say. La Veta; Garland; West Cliff; Upper San Juan; Horsefly Peak; Colorado Springs and Buena Vista, common on willows. The variety *carbo* Lec., is recorded from the state by Dr. Horn.
- MONOXIA PUNCTICOLLIS Say. Colorado Springs, not uncommon on alkali flats; Cañon City; Fort Collins; Boulder; Delta; Clear Creek Cañon; Denver.

- M. CONSPUTA Lec. Durango; Upper San Juan; Dolores; Montrose; Berkeley; Fort Collins; Hotchkiss; Colorado Springs; West Cliff; Pueblo.
- M. DEBILIS Lec. Garland; La Veta; Veta Pass, 9,000 feet; Williams River Valley; Little Willow Creek; Leadville; Fort Collins; North Park; Pueblo.
- M. SORDIDA Lec. Denver; Pueblo; Cerro Summit; Delta; Dolores; all of these records are from Prof. Gillette's collections.
- DIABROTICA TRICINCTA Say. Durango, Bowditch; Fort Collins; Pueblo; Rocky Ford; Little Beaver; Golden; Colorado Springs. Sometimes taken in abundance by sweeping in meadows.
- D. DUODECIMPUNCTATA Oliv. Denver; Palmer Lake; La Junta.
- D. ATRIPENNIS Say. Colorado, Horn; southern Pueblo County, Cockerell.
- D. VITTATA Fab. Denver; Clear Creek; Rocky Ford.
- D. LEMNISCATA Lec. Prof. Cockerell writes me that a specimen supposed to represent a color variety of this species was taken at Denver by H. G. Smith, Jr. The name is credited to Dr. Horn.
- PHYLLOBROTICA DECORATA Say. Near Boulder, Gillette; Dolores; Fort Collins; Pleasant Valley; Clear Creek, Oslar. Occurs in May, June and July.
- SCELOLYPERUS LONGULUS Lec. Veta Pass; Durango; Little Willow Creek; Montrose; Cochetopa Pass; Horsefly Peak; Dolores.
- LUPERODES VARICORNIS Lec. Fort Collins, August.
- L. LUTEICOLLIS Lec. Colorado, Horn.
- L. LECONTEI Crotch. North Park, July; Happy Hollow; Fort Collins, August; South Fork of San Miguel; Upper San Juan.
- L. MERACA Say. La Veta; Georgetown, Wickham.
- L. CVANELLUS Lec. North Park; Clear Creek; Colorado Springs, on flowers along Bear Creek; Rist Cañon.
- L. SPRETUS Horn. I have specimens referred here with some doubt from Durango, (Oslar) and from the road above Ouray.
- L. VARIPES Lec. Rico; Veta Pass, 9,250 feet; Colorado Springs, rather common; Palmer Lake.
- GALERUCA EXTERNA Say. Breckenridge and Leadville, under wood and stones; Summitville; Durango; Summit of Mt. Abrams; Dolores; Red Creek, Custer County; Veta Pass; Mt. Lincoln; Argentine Road, over 12,000 feet.
- BLEPHARIDA RHOIS Forst. La Veta; Chimney Gulch; vicinity of Fort Collins, April to June.
- ŒDIONVCHIS LUGENS Lec. Williams River; Elk River, near Steamboat Springs; Marshall Pass; West Cliff; Breckenridge.
- Œ. PETAURISTA Fab. Colorado Springs, one specimen.
- Œ. MINIATA Fab. Colorado Springs, one specimen.
- DISONVCHA QUINQUEVITTATA Say. Pagosa; Durango; La Veta; West Cliff; Fort Collins and vicinity; Stove Prairie; Little South; Chimney Gulch; Cañon City; Colorado Springs; Buena Vista. A common species on willows.
- D. CRENICOLLIS Say. Clear Creek, Oslar; Little Willow Creek.

- D. GLABRATA Fab. Southern Colorado, Leconte.
- D. FUNEREA Rand. Colorado, Bowditch.
- D. TRIANGULARIS Say. West Cliff and Red Creek, Cockerell; Cañon City; Colorado Springs; Fort Collins; Little Beaver; Denver; Clear Creek; Durango; Upper San Juan.
- D. XANTHOMELÆNA Dalm. Colorado, Horn.
- D. MELLICOLLIS Say. Colorado, Horn.
- HALTICA BIMARGINATA Say. Durango; Dome Rock; Dolores; Fort Collins; Denver; Beaver Brook Gulch; Palmer Lake; Holly; Little Beaver; Colorado Springs; Manitou; lower slopes of Pike's Peak.
- H IGNITA Ill. North Park; Dolores; a species near *inærata* Lec., was taken by Mr. Schwarz at Alamosa and Veta Pass
- H. VICARIA Horn. Colorado, Horn; Delta, August.
- H. CARINATA Germ. La Junta; Durango; Mountains southwest of Montrose; the variety *torquata* Lec., I have from Denver and Colorado Springs, while specimens from Dolores and Montrose are in the collection of the Agricultural College.
- H. OBLITERATA Lec. Colorado, Snow; Colorado Springs.
- H. EVICTA Lec. West Cliff, Cockerell.
- H. ÆRUGINOSA Lec. Leadville, a few specimens only.
- H. OBOLINA Lec. Williams River Valley; Gunnison; Alamosa; Upper San Juan.
- H. PUNCTIPENNIS Lec. Custer County, on *Epilobium angustifolium*, Cockerell; Idaho Springs; Fort Collins; Little Beaver; Denver; Colorado Springs; Cañon City; Breckenridge; La Veta; La Junta; Durango; South Fork of San Miguel.
- H. LAZULINA Lec. Colorado, Horn.
- H. TINCTA Lec. Durango, Bowditch.
- H. FOLIACEA Lec. West Cliff; Cottonwood Springs, Pueblo County, Cockerell, on *Cucurbita perennis;* Poncha Springs; Florissant; Dome Rock; Pueblo; Colorado Springs and lower slopes of Pike's Peak; Buena Vista; Fort Collins; Garland; La Veta; Veta Pass, 9,400 feet.
- C. HELXINES Linn. Ouray; Garland; Cerro Summit to Cimarron; Trinidad; Dolores; Lamar; Fort Collins; Little Beaver; Pagosa Springs; West
- Cliff; Buena Vista; Colorado Springs. Common on willows. EPITRIX CUCUMERIS Harr. La Veta; Cañon City; Fort Collins.
- EPITRIX COCUMERIS Hall. La veta, Canon City, Fort Commis
- E. PARVULA Fab. La Veta; Fort Collins; Colorado Springs.
- ORTHALTICA MELINA Horn. Montrose, June, Gillette.
- MANTURA FLORIDANA Crotch. Alamosa.

CHÆTOCNEMA PERTURBATA Horn. Veta Pass; Williams River Valley.

- C. CRIBRATA Lec. Garland, Bowditch.
- C. IRREGULARIS Lec. Veta Pass, 9,400 feet; Garland; Buena Vista.
- C. SUBCYLINDRICA Lec. Garland; Buena Vista.
- C PROTENSA Lec. Vicinity of Fort Collins; Leadville; Garland; Veta Pass, 9,200 feet.
- C. DENTICULATA III. Vicinity of Fort Collins; Colorado Springs; Greeley.
- C. CRIBRIFRONS Lec. Alamosa; Colorado Springs.

- C. OPACULA Lec. Alamosa; Garland.
- C. MINUTA Melsh. Garland, Horn.
- C. SUBVIRIDIS Lec. Fort Collins; North Park; Cerro Summit; La Veta; Alamosa; Garland; Veta Pass, 9,200 feet; Ula and West Cliff; Colorado Springs, extremely abundant; Buena Vista.
- C. OPULENTA Horn. Durango, Bowditch.
- C. PULICARIA Crotch. Garland; Alamosa.
- C. CONFINIS Crotch. Colorado, Horn; Fort Collins; Cerro Summit.
- C. ELONGATULA Crotch. Colorado, Horn.
- SYSTENA HUDSONIAS Forst. Fort Collins, July.
- S. ELONGATA Fab. Recorded in the Putnam list.
- S. TÆNIATA Say. Pagosa Springs; Cerro Summit; Trinidad; Upper San Juan; Durango; Dolores; Aspen; North Park; Fort Collins. Said by Prof. Gillette to feed on potato, beet, alfalfa, lettuce, parsnip, egg plant, summer savory, Chenopodium, Iva axillaris, I. xanthiifolia, Salvia lanceolata, Verbena bracteosa, Solanum triflorum, S. rostratum, Heli-anthus annuus, H. petiolaris, Portulaca oleracea and Amarantus blitoides. I find that some of the varietal forms are recorded from the state as follows: S. mitis Say, Colorado Springs and Alamosa; S. ligata Lec., Idaho Springs, Packard; and S. blanda Lec., Colorado Springs and La Junta.
- GLYPTINA NIVALIS Horn. Fort Collins, June.
- G. SPURIA Lec. Veta Pass, Bowditch.
- G. CERINA Lec. Fort Collins; Garland; Alamosa; Veta Pass, 9,400 to 11,-500 feet.
- G. ATRIVENTRIS Horn. Garland, Bowditch; Colorado Springs and lower slopes of Pike's Peak; Greeley; Fort Collins; Livermore; Micawber Mine.
- APHTHONA TEXANA Crotch. Colorado, Horn.
- PHYLLOTRETA SINUATA Steph. Breckenridge.
- P. VITTATA Fab. Alamosa; Garland; Montrose; Bellevue; Williams River Valley.
- P. ROBUSTA Lec. Colorado Springs; Alamosa; Garland.
- P. ALBIONICA Lec. La Veta; Alamosa; Garland; Mountains southwest of Montrose; Pueblo; Idaho Springs and summit of Pike's Peak, Packard; Leadville. Said by Prof. Gillette to feed on cabbage, radish, beet, mustard, cauliflower, horseradish and *Cleome integrifolia*.
- P. ÆNEICOLLIS Crotch. Montrose, June, Gillette; La Junta, Wickham.
- P. LEWISII Crotch. Colorado Springs; La Junta; Salida; Cañon City; Pueblo; Fort Collins and vicinity, February to June.
- P. PUSILLA Horn. Denver, on turnips, Cockerell; West Cliff; Micawber Mine; Trinidad; Salida; Palmer Lake; Greeley; Stove Prairie; Fort Collins; Colorado Springs; Buena Vista; San Luis Valley and Durango, Bowditch; Cañon City; Lamar.
- LONGITARSUS SUBRUFUS Lec. Spring Cañon and Bellevue, July and October.
- L. VANUS Horn. Dolores, June; Dixon Cañon and Bellevue, March and October.

L. OCCIDENTALIS Horn. Colorado, Horn; La Junta, Bowditch.

- L. BICOLOR Horn. Durango; Ouray.
- L. ALTERNATA Ziegl. Denver, Horn.
- L. NITIDELLUS Ckll. West Cliff; La Junta; Cañon of Big Blue; Fort Collins; Williams River Valley. I have a species of this genus from Breckenridge that is allied to L. erro Horn, but is probably different.
- DIBOLIA BOREALIS Chev. Buena Vista; Leadville; Veta Pass, 9,000 feet; Rist Cañon; Little Beaver.
- PSVLLIODES PUNCTULATA Melsh. Fort Collins, on alfalfa; Colorado Springs; Pleasant Valley; Cerro Summit; Trinidad; Montrose; Gunnison; Upper San Juan.
- P. CONVEXIOR Lec. West Cliff; Little Willow Creek; Upper San Juan; Gunnison.
- MICRORHOPALA VITTATA Fab. Berkeley; Fort Collins, larvæ mining in leaves of *Solidago*. The variety *lætula* comes from Fort Collins and Marshall Pass.
- M. XERENE Newm. Colorado.
- M. CVANEA Say. Little Beaver; Denver; Pueblo; Colorado Springs, both blue and green specimens.
- M. PORCATA Melsh. Near Palmer Lake, August, Gillette.
- ODONTOTA COLLARIS Say. La Veta; Montrose; Big Narrows of Poudre, on Bigelovia; vicinity of Fort Collins; I took several pairs in copula, on grass blades, in Williams Cañon, near Manitou.
- O. NERVOSA Panz. Clear Creek Cañon, near Denver, Uhler; vicinity of Fort Collins.
- STENOPODIUS FLAVIDUS Horn. Fort Collins, May.
- PHYSONOTA UNIPUNCTATA Say. Rist Cañon and Fort Collins, May.
- CASSIDA NIGRIPES Oliv. Fort Collins, on wild morning glory; Rocky Ford. I have the variety *ellipsis* Lec., from Berkeley and Colorado Springs.
- COPTOCYCLA AURICHALCEA Fab. Fort Collins, on dock and morning glory; Colorado Springs; La Veta.
- C. GUTTATA Oliv. Vicinity of Fort Collins; Colorado Springs, common in June and July.
- CHELYMORPHA ARGUS Licht. Denver; Colorado Springs, abundant in June and July. Prof. Gillette found it on *Ipomæa leptophylla*. The Colorado specimens belong to the variety *lewisii* Crotch.

BRUCHIDÆ.

BRUCHUS PISI Linn. Fort Collins, June.

- B. DISCOIDEUS Say. Fort Collins, June; La Veta; Prof. Snow found it in the seeds of *Ipomœa leptophylla*.
- B. AUREOLUS Horn. Colorado Springs; Buena Vista; lower slopes of Pike's Peak.
- B. PROSOPIS Lec. Southern Colorado, Leconte.
- B. FRATERCULUS Horn. Fort Collins, in seeds of *Glycyrrhiza lepidota*; near Boulder; Denver; Cerro Summit; Cimarron; Marshall Pass; La Veta; Durango; Mountains southwest of Montrose; West Cliff.

B. AMICUS Horn. La Veta; Garland; Veta Pass, 9,400 feet.

B. OBSOLETUS Say. Specimens of the bean weevil, B. fab α Riley, were taken at Denver, in the haricot bean, by H. G. Smith Jr.

B. EXIGUUS Horn. Bellevue.

B. SEMINULUM Horn. Montrose; Lamar; Fort Collins, on alfalfa; Laporte. ZABROTES CRUCIGER Horn. Colorado, Horn.

TENEBRIONIDÆ.

EDROTES GLOBOSUS Casey. Greeley; found about the roots of weeds in May.

E. ROTUNDUS Say. Pueblo, Bowditch; La Junta; Denver; Fort Collins; Colorado Springs.

STIBIA OVIPENNIS Horn. La Junta, Bowditch.

TRIMYTIS PRUINOSA Lec. La Junta; Pueblo; Dixon Cañon; Denver; Clear Creek; Colorado Springs; Buena Vista; Cañon City; Greeley; Salida.

EMMENASTUS ACUTUS Horn. Placerville; San Luis Valley; Gunnison; South Park; Garland; West Cliff.

E. OBESUS Lec. La Junta and San Luis Valley, Hayward.

EPITRAGUS CANALICULATUS Say. Colorado Springs, not uncommon on herbage, usually resting in crotches of branches or in axils of leaves; La Junta; Denver; Pueblo; Dixon Cañon; Poudre Cañon; Salida; Lamar; Cañon City; Fort Collins.

BATULIUS SETOSUS Lec. Greeley; La Junta.

ZOPHERUS ELEGANS Horn. Durango, May, Oslar.

ANEPSIUS MONTANUS Casey. Colorado, Casey.

OLOGLYPTUS ANASTOMOSIS Say. Pueblo; La Junta; West Las Animas.

ASTROTUS CONTORTUS Lec. Colorado, Hayward.

- ASIDA OPACA Say. Denver; The Rustic; Poudre Cañon; Fort Collins; Pinewood; Trinidad; Sterling; Golden; Poncha Springs; La Junta; West Las Animas; Durango; Pueblo; Upper Arkansas Valley; west of South Park; Colorado Springs; Buena Vista; Bijou; West Cliff. Mr. Uhler writes—" Each hill west of Colorado Springs seems to afford a variety peculiar to itself. These variations are shown in the proportions of the thorax and elytra, the amount and prominence of their sculpture and the shape of their outline."
- A. SORDIDA Lec. West Cliff; Wales' Cañon, Pueblo County, Cockerell; Holly; Dixon Cañon; Alder; Fort Collins; Trinidad; Denver; Colorado Chiquito River; Rio Grande; San Luis Valley; La Junta; Colorado Springs.
- A. POLITA Say. Colorado Springs; Pueblo; Dutch George; West Las Animas; sometimes common.
- A. ACTUOSA Horn. Southwestern Colorado, Strecker.
- A. OBSOLETA Lec. Fort Collins; Trinidad; Holly; Sterling; all of the records come from the Agricultural College collection.
- A. LECONTEI Horn. Durango, July, Agricultural College collection. The specimen represents a varietal form.

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- A. CONVEXA Lec. Pueblo; Holly; Trinidad; Pagosa Springs; West Las Animas.
- A. CONVEXICOLLIS Lec. Colorado Springs; La Junta; West Las Animas.
- A. MARGINATA Lec. West Cliff; the variety *rimata* Lec., is reported from Colorado by Leconte and Ulke.
- A. ELATA Lec. Garland, Bowditch; South Park; Fort Collins; Pueblo; Berkeley; Colorado Springs; Cañon City; reported from southwestern Colorado by Strecker.
- CONIONTIS OVALIS Esch. Fort Collins; Dome Rock; Veta Pass, 9,400 feet; plains south of Denver; Buena Vista.
- C. OBESA Lec. San Luis Valley; Placerville; Durango; Cañon of Big Blue; Garland; Veta Pass, 11,500 feet; West Cliff; Trinidad; Salida; Long's Peak; Rist Cañon; Manitou; Golden; Buena Vista.
- CYCLOSATTUS WEBSTERI Casey. Colorado, Casey.
- EUSATTUS RETICULATUS Say. La Junta; Durango; West Las Animas; Pueblo; banks of Arkansas, west of Cañon City.
- E. DIFFICILIS Lec. San Luis Valley; Berkeley; Fort Collins; Holly; Colorado Springs.
- ELEODES OBSCURA Say. Greenhorn; Trinidad; San Luis Valley, Hayward. The form *dispersa* Lec., is recorded from the San Luis Valley by Mr. Bowditch, while *sulcipennis* Mann., is said by Dr. Strecker to occur in southwestern Colorado.
- E. SUTURALIS Say. La Junta; Berkeley; Orchard; Cañons near Boulder, Gillette.
- E. TRICOSTATA Say. La Junta; West Las Animas; Colorado Springs; Golden; Poudre Cañon; near Long's Peak; Estes Park; Lamar; Sterling; Holly; Fort Collins; La Veta; Veta Pass; Garland.
- E. CARBONARIA Say. La Junta; Garland; Pleasant Valley on the Arkansas River, Snow.
- E. OBSOLETA Say. La Junta; Golden; Durango; South Park; San Luis Valley; Pueblo; West Cliff; Cañon City; Colorado Springs; Denver.
- E. QUADRICOLLIS Esch. South Park; Pagosa; Manitou.
- E. HUMERALIS Lec. South Park, 8,000 to 10,000 feet, Bowditch; Buena Vista.
- E. GRANULATA Lec. Leavenworth Valley, Bowditch.
- E. EXTRICATA Say. Denver; Colorado Springs; Manitou; Idaho Springs; Fort Collins; Poudre Cañon; West Cliff; Wales' Cañon, Pueblo County; Buena Vista; La Junta; Pueblo; Monument Gulch to Montrose; Rico; Durango; Rio Grande; San Luis Valley; Pagosa Springs; Montrose; Placerville; Florissant.
- E. LONGICOLLIS Lec. La Junta; Colorado Springs; southwestern Colorado, Strecker; Holly; Fort Collins; San Luis Valley; Trinidad.
- E. GENTILIS Lec. Ouray; the name is from Dr. Horn.
- E. NIGRINA Lec. Mountains southwest of Montrose; Durango; South Park; San Luis Valley; Ouray; Veta Pass, 9,200 feet; Buena Vista; Colorado Springs; Florissant; Garland; Idaho Springs; Georgetown; near Long's Peak; Fort Collins.

- E. HISPILABRIS Say. La Junta; West Las Animas; Colorado Springs; Cañon City; San Luis Valley; Fort Garland; south of Denver; Trinidad; Holly; Fort Collins.
- E. SPONSA Lec. Southern Colorado, Horn.
- E. CAUDIFERA Lec. Colorado, Ulke.
- E. SCABRIPENNIS Lec. Colorado, Bowditch.
- E. LECONTEI Horn. Colorado, Leconte, under name subaspera; Colorado Springs; Buena Vista; Georgetown; Silver Plume; Ouray.
- E. CONSOBRINA Lec. Horsefly Peak; Mountains southwest of Montrose.
- E. PLANIPENNIS Lec. Manitou, Packard.
- E. CORDATA Esch. Prof. Snow reports one specimen from Colorado.
- E. BRUNNIPES Casey. Buena Vista, not rare about the roots of gooseberry bushes.
- E. PIMELIOIDES Mann. Horsefly Peak; Idaho Springs; Garland; Aspen; Fort Collins; Leavenworth Valley, 9,000 to 10,000 feet; Roaring Fork; Monument Gulch to Montrose; Little Willow Creek; Cañon of Big Blue; Montrose and adjacent mountains.
- E. OPACA Say. Trinidad; Colorado Springs, Snow; West Las Animas.

E. FUSIFORMIS Lec. Colorado, Horn; Bellevue; La Junta, Bowditch.

- EMBAPHION MURICATUM Say. Fort Collins; Bellevue; West Las Animas; Colorado Springs.
- E. CONTUSUM Lec. Fort Collins; Clear Creek; South Park region; San Luis Valley; Colorado Springs.
- E. PLANUM Horn. San Luis Valley; Montrose, Bowditch; Dr. Horn reported it from Kansas and Colorado.
- IPHTHIMUS SERRATUS Mann. Golden; Dome Rock; Engelmann's Cañon; Cañon City; North Fork of South Platte, Bowditch; Colorado Springs; lower slopes of Pike's Peak; Durango; Pagosa Springs. For the variety *lewisii* Horn, we have Packard's record, Blackhawk. The form *sublæ-vis* Bland, is known from Colorado Springs; Rist Cañon; Durango; Upper San Juan; Pagosa Springs; Ouray; Mineral Point Trail, 9,000 to 10,000 feet.
- CŒLOCNEMIS DILATICOLLIS Mann. North Fork of South Platte, 7,000 to 8,000 feet, Bowditch.
- UPIS CERAMBOIDES Linn. Colorado, Snow.
- TENEBRIO OBSCURUS Fab. Denver.
- T. MOLITOR Linn. Fort Collins.
- T. TENEBRIOIDES Beauv. La Junta, Hayward.
- BLAPSTINUS INTERRUPTUS Say. Colorado, Casey; northern Colorado, Agricultural College collection.
- B. DILATATUS Lec. Cañon City, name from Dr. Horn.
- B. CASTANEUS Casey. Colorado, Casey.
- B. PRATENSIS Lec. South Park, abundant, Snow; San Luis Valley; Durango; Gunnison; Cañon of Big Blue; Alamosa; Garland; Platte River Valley; West Cliff; Colorado Springs; Buena Vista; Leadville.
- B. MŒSTUS Melsh. Alamosa; Veta Pass, 9,200 feet.
- B. GREGALIS Casey. Veta Pass, Casey.

- B. SUBSTRIATUS Champ. Durango; Placerville; Garland; South Park; all of these records are due to Mr. Bowditch.
- B. VESTITUS Lec. West Cliff; Platte River Valley, Leconte; La Junta; Garland; Veta Pass.
- B. HOSPES Casey. Garland, Casey.
- B. LECONTEI Muls. West Cliff.
- B. SULCATUS Lec. La Junta, Hayward.
- TRIBOLIUM MADENS Charp. Fort Collins; Buena Vista; Pike's Peak, 7,000 to 8,000 feet.
- T. CONFUSUM Duval. Bear Creek Cañon; Evans Peak region, Oslar.

PARATENETUS FUSCUS Lec. Pleasant Valley, Gillette; West Cliff.

PLATYDEMA EXCAVATUM Say. Rist Cañon, May.

P. OREGONENSE Lec. Colorado, Snow.

P. AMERICANUM Lap. Durango, Bowditch.

HVPOPHLŒUS PARALLELUS Melsh. Veta Pass, 9,400 feet; Rist Cañon; Ouray.

HELOPS PERNITENS Lec. Colorado, Hayward.

- H. RUGICOLLIS Lec. Grand Junction, Hayward.
- H. CONVEXULUS Lec. Mountains southwest of Montrose; Cañons near Fort Collins; Dome Rock; Garland; Veta Pass. The last two records appear under the name *montanus* Lec.
- H. DIFFICILIS Horn. Cochetopa Pass; San Luis Valley; Trinidad; Buena Vista; Dr. Horn reports it as occurring in the mountains of western Colorado.
- H. SPRETUS Horn. Colorado, Horn.

CISTELIDÆ.

- HVMENORUS PILOSUS Melsh. Horsefly Peak; Mountains southwest of Montrose; Colorado Springs; Dome Rock.
- H. NIGER Melsh. Mountains southwest of Montrose.
- H. OBSCURUS Say. La Junta, Bowditch; Colorado Springs.

CISTELA PINGUIS Lec. Colorado Springs; Ouray.

ISOMIRA QUADRISTRIATA Coup. Colorado Springs.

MONOMMIDÆ.

HYPORHAGUS GILENSIS Horn. La Junta, Bowditch.

MELANDRVIDÆ.

TETRATOMA CONCOLOR Lec. Veta Pass, 9,200 feet. XYLITA LÆVIGATA Hellw. West Cliff, in doubt. SCOTOCHROA BASALIS Lec. Garland. SERROPALPUS STRIATUS Hellw. Ouray. EUSTROPHUS TOMENTOSUS Say. Rist Cañon. E. ARIZONENSIS Horn. Durango, Bowditch. HALLOMENUS SCAPULARIS Melsh. Durango, Bowditch.

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H. SCAPULARIS Lec. Little Willow Creek, Bowditch. CANIFA PALLIPES Melsh. La Veta. LACCONOTUS PINICOLUS Horn. West Cliff; Veta Pass, 9,200 to 9,400 feet. MYCTERUS CONCOLOR Lec. Colorado Springs, June; Dolores.

PYTHIDÆ.

LECONTIA DISCICOLLIS Lec. Dome Rock; Cochetopa Pass; Fort Collins and vicinity; West Cliff.

PYTHO PLANUS Oliv. Upper San Juan, Bowditch.

PRIOGNATHUS MONILICORNIS Rand. Toll road, above Ouray.

SALPINGUS VIRESCENS Lec. Leadville, rare. A species of this genus is reported from Garland and Veta Pass, which Mr. Bowditch suggests may be *elongatus* Mann.

ŒDEMERIDÆ.

CALOPUS ANGUSTUS Lec. Found at altitudes above 12,000 feet by Lieut. Carpenter; I took a specimen at Georgetown, in debris along Clear Creek, and it may well have been carried down by the current.

COPIDITA OBSCURA Lec. Colorado Springs and Manitou, not rare; Buena Vista; Ouray; Gunnison, on the train; Pueblo and Custer Counties, Cockerell; Salida; Durango.

ASCLERA PUNCTICOLLIS Say. Colorado, Horn.

CEPHALOIDÆ.

CEPHALOON VERSICOLOR Casey. Colorado; I have an undetermined species from Ouray.

MORDELLIDÆ.

DICLIDIA LÆTULA Lec. Cave near Manitou, Packard.

- PENTARIA TRIFASCIATA Melsh. Montrose; Ouray; Fort Collins; Colorado Springs; Palmer Lake; La Veta.
- P. FUSCULA Lec. Upper San Juan; Durango; Big Narrows of Poudre; Dixon Cañon; Fort Collins; Livermore; Manitou; lower slopes of Pike's Peak.
- ANASPIS NIGRA Hald. Dome Rock; Garland; Veta Pass; Beaver Brook, Bowditch; lower slopes of Pike's Peak.
- A. ATRA Lec. Durango; Cañon of Big Blue; Rico; San Luis Valley; Leavenworth Valley; West Cliff; Garland; Colorado Springs; Buena Vista; lower slopes of Pike's Peak; Black Lake Creek, Summit County, Cockerell; Denver; Beaver Creek.
- A. FLAVIPENNIS Hald. Rist Cañon, August.
- A. RUFA Say. Durango; Little Willow Creek; Montrose; Dolores; Ouray; Veta Pass; La Veta; South Park; Dome Rock; Micawber Mine; Estes Park; Little Beaver; Rocky Ford; Georgetown; Beaver Brook, Bowditch; Pike's Peak, lower slopes; Colorado Springs; Breckenridge; Leadville.

MORDELLA BOREALIS Lec. Leadville.

- M. MELÆNA Germ. South Fork of San Miguel; Cañon of Big Blue; Little Willow Creek; Beaver Brook, Bowditch; Micawber Mine; West Cliff.
- M. SCUTELLARIS Fab. Little Willow Creek; South Fork of San Miguel; Dome Rock; Red Mountain Road; Garland; Georgetown; Micawber Mine; lower slopes of Pike's Peak; Colorado Springs; Fort Collins; North Park; Dolores; Montrose.
- MORDELLISTENA ARIDA Lec. Mouth of Cañon of the Arkansas, Uhler.
- M. COMATA Lec. Fort Collins; Horsetooth Gulch, June.
- M. NIGRICANS Melsh. Fort Collins, on Chenopodium and Helianthus.
- M PUSTULATA Melsh. Denver; Fort Collins; La Veta; Garland.
- M. MORULA Lec. Dolores; Bellevue; Montrose; Garland; Veta Pass; West Cliff; Mr. Baker writes that the larvæ are common during the winter in stems of *Iva xanthifolia*, at Fort Collins.
- M. UNICOLOR Lec. Dolores; Lamar; Golden; Fort Collins; Durango; La Veta; Garland; Buena Vista; Colorado Springs; Denver.
- M. MARGINALIS Say. Colorado, Putnam, under the name divisa Lec.
- M. FUSCATA Melsh. La Veta.
- M. ÆTHIOPS Smith. La Junta, Bowditch; Fort Collins.
- M. SUTURELLA Hel. Colorado, Bull. Brooklyn Ent. Soc., VI, p. 5.
- M. ANGUSTA Lec. Colorado, Putnam; Veta Pass, 9,000 to 9,400 feet.
- M. ÆMULA Lec. West Cliff; Pueblo; Platte River; La Veta; Manitou; Garland.

ANTHICIDÆ.

EURYGENIUS CONSTRICTUS Lec. Colorado.

- STEREOPALPUS GUTTATUS Lec. Gunnison; Placerville; found by Lieut. Carpenter at altitudes above 12,000 feet.
- S. PRUINOSUS Lec. Durango, Bowditch; I have an undetermined species from Buena Vista.
- CORPHYRA LEWISII Horn. Mountains southwest of Montrose; Horsefly Peak; Cañon of Big Blue; North Park; Fort Collins; Colorado Springs; lower slopes of Pike's Peak; Buena Vista; West Cliff; Beaver Brook, Bowditch; Ouray; Garland; La Veta; Veta Pass. The form *variabilis* Horn, I have from Georgetown and Ouray.
- C. ABNORMIS Horn. Colorado, Horn.
- C. PULCHRA Lec. Colorado, Putnam.
- C. COLLARIS Say. Colorado, Horn.
- C. LUGUBRIS Say. Colorado.
- LAPPUS STURMI Laf. Colorado, Horn, as Anthicus elegans Laf.
- L. NITIDULUS Lec. Colorado, Putnam; Pike's Peak, 7,000 to 8,000 feet.
- L. ANIMATUS Casey. Colorado Springs, identity not quite certain.
- THICANUS MIMUS Casey. Colorado Springs, June.
- VACUSUS FORMICETORUM Wasm. Garland.
- V. SUSPECTUS Casey. Supposed by the describer to have come from Colorado.
- HEMANTUS RIXATOR Casey. Colorado Springs, July.

ANTHICUS FLAVICANS Lec. Salida; Colorado Springs.

THE COLEOPTERA OF COLORADO.

- A. BIGUTTULUS Lec. Fort Collins; Williams River Valley.
- A. PUNCTULATUS Lec. Short Creek, Custer County, Cockerell; specimens doubtfully referred here, but smaller than the Californian form, were taken by Mr. Schwarz at Garland and La Veta.
- A. CERVINUS Laf. Garland; the name is marked with doubt.
- A. HALDEMANNI Lec. West Cliff.
- A. STELLATUS Casey. Colorado Springs, June.
- A. LECONTEI Champ. Gunnison, Bowditch.
- A. NANUS Lec. Colorado, Horn.
- A. LUTULENTUS Casey. Colorado Springs, June.
- SAPINTUS FESTINANS Casey. Greeley.
- AMBLYDERUS GRANULARIS Lec. Colorado, Snow.
- NOTOXUS TALPA Laf. Colorado, Horn.
- N. NUPERUS Horn. Buena Vista.
- N. BIFASCIATUS Lec. Placerville; Durango; Fort Collins; Garland.
- N. MONTANUS Casey. Ouray; Colorado Springs.
- N. ANCHORA Hentz. Fort Collins; Little South; Greeley; Ula; West Cliff; Dome Rock; Garland; La Veta; Alamosa; Veta Pass.
- N. SERRATUS Lec. Nathrop; Fort Garland; southern Colorado, Leconte, as N. digitatus.

MELOIDÆ.

- MEGETRA VITTATA Lec. Southern Colorado and northern New Mexico, Leconte.
- MELOE CARBONACEUS Lec. West Cliff, rather common on open prairie.
- M. AFER Bland. Colorado, Putnam.
- M. STRIGULOSUS Mann. Mt. Lincoln; Florissant; I have a specimen from Breckenridge that seems to belong here.
- M. LÆVIS Leach. Berkeley; South Park region; Colorado Springs.
- NOMASPIS PARVULA Hald. Colorado, Snow and Ulke; Trinidad, Gillette, found on *Astragalus* in May.
- TRICRANIA STANSBURII Hald. Montclair, May; West Cliff.
- NEMOGNATHA LURIDA Lec. Denver; Golden; Fort Collins; Colorado Springs; Ute Pass; Cañon City; Julesburg; Delta; Cimarron; Little Willow Creek; Rocky Ford; Dome Rock.
- N. APICALIS Lec. Upper San Juan, Bowditch; Durango; Pueblo; southern Colorado, Leconte.
- N. LUTEA Lec. Chimney Gulch; Texas Creek; Colorado Springs; Fort Collins; Delta; Big Narrows of Poudre.
- N. BICOLOR Lec. Durango; Pagosa Springs; Poncha Springs; Rocky Ford; Fort Collins; Colorado Springs, common.
- N. DICHROA Lec. Denver, Packard.
- N. PALLIATA Lec. Upper San Juan, Bowditch.
- N. PIEZATA Fab. Colorado, Horn.
- N. NIGRIPENNIS Lec. Colorado, Snow.
- N. NEMORENSIS Hentz. Atlantic to Colorado, Hamilton.
- N. IMMACULATA Say. Denver; Golden; Antonito; Stove Prairie; Fort Col-

lins; Bijou; Cañon City; Red Creek, Custer County; Dome Rock; Colorado Springs, July.

N. SPARSA Lec. Colorado Springs; Manitou; Golden; Fort Collins; Durango. N. CRIBRICOLLIS Lec. Colorado, Bowditch.

- GNATHIUM MINIMUM Say. Rocky Ford; Pueblo; Denver; Golden; Cañon City.
- ZONITIS ATRIPENNIS Say. Lamar; Antonito; Golden; Cañon City; Colorado Springs; Pueblo.
- Z. BILINEATA Say. Morrison, Bowditch; Pueblo; Cañon City; Colorado Springs.
- MACROBASIS ALBIDA Say. Julesburg; Fort Collins; Pueblo.
- M. TORSA Lec. Upper San Juan, Bowditch.
- M. UNICOLOR Kirby. Cañons near Boulder; Fort Collins and vicinity; Golden.
- M. IMMACULATA Say. Colorado, Horn; La Junta, Bowditch.

PLEUROPOMPHA COSTATA Lec. Fort Collins, July.

- EPICAUTA FERRUGINEA Say. Durango; Denver; Cañon City; Golden; Colorado Springs; Clear Creek Cañon; Dome Rock; Engelmann's Cañon; Manitou; Ute Pass; Wales' Cañon; Livermore; Stove Prairie; Fort Collins.
- E. SERICANS Lec. Colorado, Putnam; Denver, Oslar.
- E. PRUINOSA Lec. Alma; South Park; Stove Prairie; Rist Cañon; Leadville; Pike's Peak, 9,000 to 10,000 feet; Mt. Lincoln; San Luis Valley.
- E. CALLOSA Lec. Rocky Ford, July.
- E. PARDALIS Lec. Southern Colorado, Packard.
- E. MACULATA Say. La Junta; Julesburg; Delta; Trinidad; La Veta; Garland; Veta Pass, 9,200 feet; Chimney Gulch; Golden; Fort Collins; Little Beaver; Colorado Springs; Red Creek, Custer County, and Cottonwood Springs, Pueblo County, Cockerell.
- E. STUARTI Lec. Holly; Fort Collins; Montclair.
- E. WHEELERI Ulke. Little Willow Creek, Bowditch.
- E. CINEREA Forst. Arkansas Valley, Cassidy; Colorado Springs and lower slopes of Pike's Peak; Boulder; The Rustic; Fort Collins; Rocky Ford; Trinidad.
- E LEVETTEI Casey. Colorado, Casey.
- E. CORVINA Lec. Colorado, Horn and Ulke.
- E. PENNSYLVANICA De Geer. Pueblo; Montclair; Fort Collins; Veta Pass; Cusack Ranch; Arkansas Valley; Larimer County.
- E. MAURA Lec. Southwestern Colorado, Strecker.
- PVROTA MVLABRINA Chev. Denver; Pueblo; Rocky Ford; often common in August.
- P. TERMINATA Lec. Thirty miles west of Denver, Ulke.
- P. ENGELMANNI Lec. Chimney Gulch, May; Fort Collins, June; Bijou.
- P. LINEATA Oliv. Pueblo, Bowditch; Denver, May, Oslar.
- P. BILINEATA Horn. Colorado, Horn; Owl Cañon to Manhattan, Gillette.
- CANTHARIS NUTTALLI Say. West Cliff and vicinity; Manitou; northern Colorado; Pinnacle; South Park; Mountains southwest of Montrose; Gunnison.

THE COLEOPTERA OF COLORADO.

- C. CYANIPENNIS Say. Southwestern Colorado, Strecker.
- C. VIRIDANA Lec. West Cliff; Gunnison; Rico; Mountains southwest of Montrose; Ouray; Veta Pass, 9,400 feet; Georgetown; Little Beaver; Fort Collins.
- C. PUBERULA Lec. Durango, July, Oslar.
- C. BIGUTTATA Lec. Antonito; Trinidad; Cañon City; Fort Collins; Colorado Springs.
- C. FULVIPENNIS Lec. Colorado, Horn.
- C. SPHÆRICOLLIS Say. Denver; West Cliff; South Park; Poncha Springs; Alma; Upper San Juan; Little Willow Creek; The Rustic; Fort Collins; Blackhawk; Garland; Colorado Springs.
- C. COMPRESSICORNIS Horn. Leavenworth Valley; Alma; Denver; West Cliff.
- CALOSPASTA VIRIDIS Horn. Colorado, Horn.

RHIPIPHORIDÆ.

RHIPIPHORUS OCTOMACULATUS Gerst. Poncha Springs, July, Oslar. R. PECTINATUS Fal. Colorado Springs, July. MVODITES POPENOI Lec. Colorado, Leconte.

RHINOMACERIDÆ.

RHINOMACER COMPTUS Lec. Veta Pass, 9,200 to 9,400 feet.

RHYNCHITIDÆ.

AULETES CONGRUUS Walk. Veta Pass, 9,200 feet; Little Beaver; Leavenworth Valley, 10,000 to 11,000 feet; Upper San Juan; Rico.

RHYNCHITES CYANELLUS Lec. Colorado.

- R. BICOLOR Fab. Ouray, on wild roses; West Cliff, on *Cnicus;* Fort Collins; North Park; Berkeley; Georgetown; La Veta; Dolores; South Fork of San Miguel; Little Willow Creek; Cañon of Big Blue; Colorado Springs; Breckenridge; Leadville.
- R. EXIMIUS Lec. Colorado Springs, one of the most abundant insects during June, becoming scarcer during July.
- R. ÆRATUS Say. Colorado Springs; Ouray; Bear Creek Cañon, Evans' Peak region, Oslar.
- DEPORAUS GLASTINUS Lec. Mountains southwest of Montrose; Durango; Cimarron; La Veta; Veta Pass, 9,000 feet; Ouray.

ATTELABIDÆ.

ATTELABUS NIGRIPES Lec. Montrose, Gillette. A. GENALIS Lec. Colorado Springs, one specimen.

BYRSOPIDÆ.

THECESTERNUS HUMERALIS Say. La Junta; Pueblo; Fort Collins; Cañon City; Colorado Springs; Denver.

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OTIORHYNCHIDÆ.

MINVOMERUS INNOCUUS Horn. Florissant and South Park, Bowditch. GRAPHORHINUS VADOSUS Say. Fort Collins and Denver, March to May. EPICÆRUS IMBRICATUS Say. Denver; Dolores; Durango; Pagosa Springs. CALVPTILLUS CRVPTOPS Horn. Spring Cañon, May.

OPHRVASTES VITTATUS Say. Northern Colorado; Holly; Pueblo; La Junta; Berkeley; Cañon City; Colorado Springs.

- O. TUBEROSUS Lec. Holly; West Cliff; Wellsville, Fremont County, Cockerell.
- O. LATIROSTRIS Lec. Colorado, Putnam.
- O. SULCIROSTRIS Say. La Junta; San Luis Valley; Trinidad; Boulder; Greeley; Colorado Springs.

EUPAGODERES DECIPIENS Lec. Colorado, Putnam.

ANAMETIS GRISEA Horn. Colorado, Bowditch.

ORIMODEMA PROTRACTA Horn. Mountains southwest of Montrose; Horsefly Peak; Little Willow Creek; Veta Pass, 9,300 feet.

MIMETES SETULOSUS Lec. Placerville, Bowditch.

DIAMIMUS SUBSERICEUS Horn. Salida; Berkeley; Garland.

PERITAXIA RUGICOLLIS Horn. Cochetopa Pass; Cañon of Big Blue; Little Willow Creek; Rico Road; Rist Cañon; Dome Rock; Leadville; West Cliff; Garland; Veta Pass; this species does not seem to occur in abundance, in spite of the numerous records.

P. HISPIDA Horn. Garland, Bowditch; northern Colorado; Fort Collins.

THRICOMIGUS LUTEUS Horn. Rico, Bowditch.

THRICOLEPIS INORNATA Horn. Dolores; South Fork of San Miguel; Mountains southwest of Montrose; Placerville; Horsefly Peak; Little Willow Creek; Pagosa Springs; Ouray; Garland; Veta Pass, 9,000 to 9,400 feet.

ARAGNOMUS GRISEUS Horn. Garland.

RHYPODES BREVICOLLIS Horn. Garland.

PANDELETEJUS HILARIS Hbst. La Veta; Colorado Springs, on oak scrub.

COMPSUS AURICEPHALUS Say. Colorado, Horn.

PHACEPHOLIS CANDIDA Horn. Colorado, Horn.

SCYTHROPUS n. sp. Mountains southwest of Montrose; Little Willow Creek; Garland.

EVOTUS NASO Lec. Colorado, Horn.

CURCULIONIDÆ.

SITONES TIBIALIS Hbst. Colorado Springs; Fort Collins; Breckenridge; North Park; West Cliff; a species, which may be this occurs in Marshall Pass, and at Livermore and Cimarron. An undetermined species was taken at Durango by Mr. Bowditch.

ACMÆGENIUS HYLOBINUS Lec. Veta Pass; Rico.

TRICHALOPHUS DIDYMUS Lec. Breckenridge, one specimen.

T. ALTERNATUS Say. Steamboat Springs; Bellevue; Marshall Pass; Ouray; Argentine Road; Leavenworth Valley; Breckenridge; Leadville; Peak Eight, up to timber line and occasionally above; peaks above 12,000 feet, Carpenter. Found under logs, usually not common.

T. PLANIROSTRIS Lec. South Park, Bowditch; Veta Pass, 9,200 feet.

LEPIDOPHORUS LINEATICOLLIS Kirby. West Cliff. A species of this genus, supposed to be new, is recorded from Veta Pass, 9,200 feet; Rico; and Durango.

APION ERRATICUM Smith. Colorado, Smith.

- A. VIRILE Fall. Greeley.
- A. ROBUSTUM Smith. La Junta, Bowditch.
- A. OCCIDENTALE Fall. Colorado Springs, June.
- A. PUNCTINASUM Smith. Colorado, Smith.
- A. ACROPHILUM Fall. Buena Vista; Garland.
- A. TENUIROSTRUM Smith. Colorado, Fall.
- A. MODESTUM Smith. Colorado, Fall.
- A. PROCLIVE Lec. Colorado, Smith.
- A. WALSHII Smith. Colorado, Smith.
- A. GRISEUM Smith. Colorado, Fall.
- A. CENTRALE Fall. Colorado, Fall.
- A. COLORADENSE Fall. Colorado Springs, June.
- A. OBLITUM Smith. Colorado Springs, June.
- A. VARICORNE Smith. Colorado Springs, June, rather common.
- A. VENTRICOSUM Lec. Colorado, Fall.
- PHYTONOMUS COMPTUS Say. Spring and Dixon Cañons, June, on willows. LEPVRUS GEMELLUS Kirby. Argentine Pass, Bowditch.
- L. PINGUIS Casey. Colorado, (Rocky Mountains), Casey.
- L. GEMINATUS Say. Dome Rock; Greeley; Garland; Berkeley; Fort Collins; Dr. Horn reports L. colon Linn., from eastern Colorado. Dr. Hamilton includes under the name *palustris* Scop., both of the following:-L. colon Linn., Kirby and Leconte; L. geminatus Say and Casey.

LISTRONOTUS TESSELATUS Casey. Denver, Casey.

L. LATIUSCULUS Boh. Alamosa, in doubt.

MACROPS SOLUTUS Boh. Fort Collins; Alamosa; Colorado Springs.

M. INDISTINCTUS Dietz. Colorado Springs.

- M. TENEBROSUS Dietz. Greeley.
- M. MONTANUS Dietz. Greeley.
- M. LONGULUS Dietz. Leadville; the identity is not quite certain.
- M. ECHINATUS Dietz. Colorado, Dietz.
- M. MYASELLUS Dietz. South Park, Dietz.
- M. VITTATICOLLIS Kirby. West Cliff; Alamosa; Veta Pass, 9,400 feet.
- PISSODES COSTATUS Mann. Southwestern Colorado, Strecker; Veta Pass, 9,200 to 9,400 feet.
- P. FASCIATUS Lec. Leadville; Breckenridge; above Ouray, 9,000 to 10,000 feet.
- LIXUS PLACIDUS Lec. Colorado, Casey.
- L. MUSCULUS Say. La Veta.
- L. PARCUS Lec. Fort Collins, May and June; Boulder.
- L. CONCAVUS Say. Fort Collins, April; Berkeley, June.

- L. MIXTUS Lec. Colorado, Casey.
- L. MACER Lec. Colorado, Leconte; Fort Collins.
- DINOCLEUS ANGULARIS Lec. La Junta, Bowditch; northern Colorado, Gillette; Cañon City.
- STEPHANOCLEONUS PLUMBEUS Lec. Southern Colorado, Leconte; La Junta, Bowditch.
- S. CRISTATUS Lec. Florissant; Leadville.
- CLEONASPIS LUTULENTUS Lec. Southern Colorado, Leconte.
- CLEONUS COLLARIS Lec. Colorado, Leconte; Fort Collins, June and August; northern Colorado, February and March.
- C. CANESCENS Lec. La Junta, Bowditch; northern Colorado, March and April; Golden; Fort Collins; Poncha Springs; Berkeley; Cañon City.
- C. CARINICOLLIS Lec. Colorado, Leconte.
- C. TRIVITTATUS Say. Northern Colorado, March; Dixon Cañon, February and September.
- C. SPARSUS Lec. Cochetopa Pass, Bowditch.
- C. FRONTALIS Lec. Northern Colorado, March; the form *puberulus* Lec., comes from Fort Collins and Greeley.
- C. QUADRILINEATUS Chev. West Cliff; reported from Colorado by Prof. Snow.
- C. KIRBYI Casey. Southern Colorado, Leconte, as vittatus Kirby.
- C. CIRCUMDUCTUS Casey. Fort Collins, March to May, also in September.
- C. TEXANUS Lec. La Junta, Bowditch. Heretofore included in *Lixus*, but now placed in *Cleonus* by Maj. Casey.
- DORYTOMUS MUCIDUS Say. La Junta, Bowditch; Fort Collins; Golden; La Veta.
- D. LATICOLLIS Lec. Greeley, on cottonwoods; Denver; Cameron Pass.
- D. AMPLUS Casey. Colorado, Casey.
- D. HISPIDUS Lec. Garland.
- D. FILIOLUS Casey. Colorado.
- D. NUBECULINUS Casey. Colorado, Casey.
- D. LURIDUS Mann. Garland; Lamar.
- D. BREVICOLLIS Lec. Denver, Packard.
- D. SQUAMOSUS Lec. Garland; North Park.
- GRVPIDIUS EQUISETI Fab. Fort Collins; a specimen doubtfully referred to this species was taken by Mr. Schwarz at Garland.
- G. BRUNNIROSTRIS Fab. North Park; Garland; Veta Pass, 9,200 feet; Leadville.
- ERYCUS MORIO Mann. Leavenworth Valley, 10,000 to 11,000 feet; Leadville.
- E. PUNCTICOLLIS Lec. Fort Collins, March, April and July.
- PROCAS sp. Veta Pass, 9,400 feet.
- DESMORIS CONSTRICTUS Say. Eastern Custer County, Cockerell; Colorado Springs, common on *Helianthus*.
- SMICRONYX FULVUS Lec. Eastern Custer County, Cockerell; Durango; Colorado Springs, on *Helianthus*.
- S. VESTITUS Lec. West Cliff; Fort Collins; La Veta.

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- S. SPARSUS Casey. Colorado, Casey.
- S. SERIATUS Lec. Gunnison; Durango, Bowditch.
- S. CONGESTUS Casey. Colorado, Casey.
- S. TYCHOIDES Lec. La Veta; Durango; La Junta.
- PHYLLOTROX NUBIFER Lec. West Cliff, July; Leadville, abundant; Fort Collins; Horsetooth Mountain; The Rustic; Cerro Summit; Veta Pass, 9,200 feet; Ouray.
- ENDALUS LIMATULUS Gyll. Fort Collins. A species near *æratus* Lec., was taken at Alamosa and Garland by Mr. Schwarz.
- E. OVALIS Lec. Alamosa and Garland.
- LIXELLUS FILIFORMIS Lec. Alamosa.
- BAGOUS CALIFORNICUS Lec. Alamosa; a new species was taken at Garland. PROMECOTARSUS FUMATUS Casey. The Rustic, August.
- MAGDALIS CUNEIFORMIS Horn. Dome Rock.
- M. LECONTEI Horn. Fort Collins; Dome Rock; West Cliff; Garland; Veta Pass, 9,400 to 11,000 feet; Mountains southwest of Montrose; Little Willow Creek.
- M. IMBELLIS Lec. Leavenworth Valley, 10,000 to 11,000 feet.
- M. ÆNESCENS Lec. Placerville, Bowditch.
- M. GRACILIS Lec. Montrose, June.
- M. GENTILIS Lec. Little Willow Creek; Mountains southwest of Montrose; Garland; Veta Pass, 9,000 to 11,000 feet.
- M. HISPOIDES Lec. Specimens belonging near this species are recorded from Garland; Veta Pass, 9,000 to 11,000 feet; Rico; Horsefly Peak; Mountains southwest of Montrose.
- M. INCONSPICUA Horn. Alamosa.
- M. ARMICOLLIS Say. Described under the name *alutacea* Lec., from the Leavenworth Valley; Mr. Bowditch has it from the Upper San Juan and Cañon of Big Blue. Several records exist referring to the occurrence of new species of *Magdalis* in Colorado, but it does not seem worth while to enter them here.
- TACHYPTERUS QUADRIGIBBUS Say. South Fork of San Miguel; Montrose; Fort Collins; Colorado Springs.
- ANTHONOMUS SCUTELLARIS Lec. Fort Collins, on wild plums; Rocky Ford.
- A. RUFIPENNIS Lec. Garland.
- A. SYCOPHANTA Walsh. Denver; Dolores; Fort Collins.
- A. SQUAMOSUS Lec. Fort Collins, larva on *Grindelia squarrosa*; Colorado Springs; La Junta, Bowditch; Trinidad, Cockerell; Montclair; Dome Rock; La Veta.
- A. TECTUS Lec. Colorado, Dietz.
- A. MURINUS Dietz. Colorado, Dietz.
- A. JACOBINUS Dietz. Colorado, Dietz.
- A. CANUS Lec. West Cliff; Garland; Veta Pass, 9,200 feet. A closely allied form occurs on the lower slopes of Pike's Peak.
- A. NANUS Lec. Dolores; Livermore; Bellevue; Fort Collins; Stove Prairie; Golden.

A. ELONGATUS Lec. Dolores; larva on Bigelovia, Baker.

ANTHONOMOPSIS MIXTUS Lec. Fort Collins; Colorado Springs.

- PSEUDANTHONOMUS VALIDUS Dietz. Colorado, Dietz. I have a species of this genus from Colorado Springs, where it was abundant on wild cherry.
- CHELONYCHUS LONGIPES Dietz. Colorado, Dietz.
- ORCHESTES NIGER Horn. La Veta; Garland; Veta Pass, 9,200 feet.
- O. PARVICOLLIS Lec. Colorado, Dietz.
- O. CANUS Horn. Horsetooth Gulch; Rist Cañon; San Juan.
- O. RUFIPES Lec. Near Swift Creek, Custer County, above 8,000 feet, Cockerell; Buena Vista; West Cliff; La Veta; Garland; Veta Pass, 9,200 feet.
- O. SUBHIRTUS Horn. Durango, Bowditch.

ELLESCHUS EPHIPPIATUS Say. Alamosa; Garland; La Veta; Fort Collins.

MACRORHOPTUS HISPIDUS Dietz. Greeley.

PROCTORUS DECIPIENS Lec. La Veta; Garland.

- TYCHIUS LINEELLUS Lec. A variety of this species is reported by Packard from Golden and Manitou.
- T. TECTUS Lec. Garland; Montrose; cañons near Boulder; Pleasant Valley; Fort Collins; Buena Vista; often very abundant.
- NANOPHVES PALLIDULUS Grav. Alamosa, Schwarz.
- LÆMOSACCUS PLAGIATUS Fab. Southern Colorado, Leconte.
- CONOTRACHELUS AFFINIS Boh. Rist Cañon, May.
- C. NIVOSUS Lec. Rist Cañon; Trinidad; vicinity of Fort Collins in general.
- C. LEUCOPHÆATUS Fah. Fort Collins, Cassidy; Colorado Springs; Chimney Gulch.

RHYSSEMATUS LINEATICOLLIS Say. Fort Collins, on Asclepias speciosa. ACALLES BASALIS Lec. Colorado, Leconte; La Junta, Bowditch.

- A. POROSUS Lec. Colorado Springs, abundant on cacti; La Junta; Trinidad; what seems to be the same species was taken by Prof. Gillette in northern Colorado in February.
- A. CLATHRATUS Lec. West Cliff, Cockerell.
- CNEMOGONUS EPILOBII Payk. Durango, Bowditch.

ACANTHOSCELIS CURTUS Say. West Cliff; La Veta.

- A. ACEPHALUS Say. Colorado, Dietz; Fort Collins, on Enothera biennis; I have the variety tenebrosus Dietz, from Colorado Springs.
- AULEUTES ASPER Lec. Colorado, Dietz.

CELIODES APICALIS Dietz. Colorado, Dietz; Fort Collins, June and July.

- CEUTORHYNCHUS RAPÆ Gyll. Mr. Bowditch reports it from the mountains southwest of Montrose. Dr. Dietz thinks that the specimens referred to rapa in this country are really different and gives to them the name affluentus.
- C. SERICANS Lec. Alamosa; Garland; Veta Pass, 9,200 feet.
- C. DECIPIENS Lec. Garland; Veta Pass, 9,400 feet; Colorado Springs; Fort Collins.
- C. PUSIO Mann. Buena Vista; Leadville; North Park; Dolores; Mineral Point Trail, above Ouray, 9,000 to 10,000 feet.

- C. PUSILLUS Lec. Alamosa; Garland; Fort Collins; North Park; Dolores.
- C. CONVEXICOLLIS Lec. Leadville.
- C. SEPTENTRIONALIS Gyll. Fort Collins, May.
- C. PUBERULUS Lec. La Junta, Bowditch.
- C. ZIMMERMANNI Gyll. Spring Cañon; North Park.
- PELENOMUS GRACILIPES Dietz. Garland, Dietz.
- P. SQUAMOSUS Lec. Garland. Possibly this may be the same as the preceding species.
- RHINONCUS PYRRHOPUS Boh. Colorado, Leconte.
- TYLODERMA FOVEOLATUM Say. Northern Colorado, March.
- T. ÆREUM Say. Dolores; Durango.
- T. BARIDIUM Lec. Dolores, June.
- ZASCELIS IRRORATA Lec. Colorado, Leconte.
- PIAZURUS CALIFORNICUS Lec. Mountains southwest of Montrose, Bowditch.
- COPTURUS OPERCULATUS Say. Colorado, Putnam.
- C. NANULUS Lec. Garland.
- C. ADSPERSUS Lec. Colorado Springs;Fort Collins; Palmer Lake; La Junta, Bowditch; La Veta.
- C. OBSCURELLUS Casey. Colorado, Casey.
- TACHYGONUS CENTRALIS Lec. Raton Mountain, on Rhus aromaticum, Leconte.
- BARIS STRIATA Say. Southern Colorado, Leconte; La Veta.
- B. UMBILICATA Lec. Denver, Casey.
- B. HISPIDULA Casey. Colorado, Casey.
- B. STRENUA Lec. La Junta, Bowditch; Fort Collins.
- B. TUMESCENS Lec. Cañon City.
- B. SOLUTA Casey. Colorado, Casey.
- B. OBLONGULA Casey. Colorado, Casey.
- B. TRANSVERSA Say. Golden; Manitou; La Junta; West Cliff.
- B. APRICA Casey. Colorado, Casey.
- B. POROSICOLLIS Casey. Greeley, Casey. Differs from the type in having a single series on the fifth interval.
- B. INCONSPICUA Casey. Colorado, Casey.
- PYCNOBARIS PRUINOSA Lec. Colorado, Casey.
- ONYCHOBARIS CORROSA Casey. Colorado, Casey.
- O. MILLEPORA Casey. Colorado, Casey.
- O. SUBTONSA Lec. La Veta.
- O. ILLEX Casey. Colorado, Casey.
- AULOBARIS IBIS Lec. South Park, Snow.
- PSEUDOBARIS FARCTA Lec. Colorado, Leconte.
- P. ANGUSTA Lec. Alamosa.
- TRICHOBARIS TRINOTATA Say. La Junta, Bowditch.
- T. TEXANA Lec. Colorado, Casey; Fort Collins; Golden.
- RHOPTOBARIS CANESCENS Lec. Colorado, Casey; La Junta, Bowditch.
- ORTHORIS CROTCHII Lec. Durango, Bowditch; Colorado Springs, common; vicinity of Fort Collins.

CENTRINUS PUNCTIROSTRIS Lec. Colorado, Casey.

C. SALEBROSUS Casey. Colorado, Casey.

C. PULVERULENTUS Casey. Colorado, Casey.

- CALANDRINUS GRANDICOLLIS Lec. Colorado Springs, a few specimens taken about the roots of plants on the prairies and foothills; Dixon Cañon; West Cliff; Bellevue.
- C. INSIGNIS Casey. Colorado, Casey.

C. OBSOLETUS Casey. Colorado, Casey.

CENTRINOGYNA STRIGATA Lec. Greeley.

LIMNOBARIS CONFUSA Boh. Colorado, Casey.

L. PROLIXA Lec. Greeley.

BARILEPTON FAMELICUM Casey. New Windsor, September, Gillette; Fort Collins; Greeley.

BALANINUS UNIFORMIS Lec. Durango, Bowditch; La Veta.

B. LONGIPES Casey. Manitou, Casey.

B. MONTICOLA Casey. Colorado Springs, on scrub oaks.

B. NASICUS Say. Dome Rock; several state records are extant.

B. QUERCUS Horn. Colorado, Snow.

BRENTHIDÆ.

EUPSALIS MINUTA Drury. Colorado, Leconte.

CALANDRIDÆ.

SCYPHOPHORUS ACUPUNCTATUS Gyll. La Junta, Bowditch.

CACTOPHAGUS VALIDUS Lec. West Cliff.

RHODOBÆNUS TREDECIMPUNCTATUS III. Lamar; Rocky Ford.

SPHENOPHORUS SIMPLEX Lec. A specimen supposed to come from Colorado is in the Agricultural College collection.

- S. VOMERINUS Lec. La Junta, Bowditch; Prof. Snow reports a specimen of the variety *baridioides* Lec.
- S. ULKEI Horn. Alamosa; Garland; Durango; Fort Collins; Berkeley; Chimney Gulch; Colorado Springs.

S. OCHREUS Lec. Rocky Ford.

S. VARIOLOSUS Lec. Colorado, Horn.

TRICHISCHIUS CRENATUS Lec. Colorado, Leconte and Horn.

COSSONUS PLATALEA Say. La Junta, Bowditch; North Park.

C. SUBAREATUS Boh. Durango; Upper San Juan.

STENOSCELIS BREVIS Boh. Rist Cañon.

SCOLYTIDÆ.

This family is in very chaotic state at present, and seems to have been but little understood by cataloguers. The records that follow are those published in the papers referred to in the earlier pages of this work, and the authority for each can be readily determined by consulting the list of localities; the few exceptions are properly noted. Prof. A. D. Hopkins has been at work on the Scolytidæ for several years, and has kindly sent a list of many forms from Colorado. Most of these are manuscript names however, and as he does not wish them used in anticipation of the descriptions they are not available for our purpose.

GNATHOTRICHUS MATERIARIUS Fitch. Mr. Bowditch has a specimen from H. K. Morrison, with the label Colorado, that he refers to this species.

Prof. Hopkins will describe a new form from Ouray.

G. RETUSUS Lec. Dome Rock, Snow; Veta Pass.

- PITVOPHTHORUS CARINICEPS Lec. This is reported by Dr. Leconte as occurring at Veta Pass among the Schwarz collections.
- P. FOSSIFRONS Lec. Garland; Veta Pass, 9,000 feet.
- P. NITIDULUS Mann. Garland; Veta Pass, 9,000 to 9,400 feet.
- P. DELETUS Lec. Garland; Veta Pass, 9,000 to 9,400 feet.
- PITYOGENES CARINULATUS Lec. Colorado, Hopkins in litt.

XYLOTERUS LINEATUS Oliv. Colorado, Putnam; Garland.

CRYPHALUS MUCRONATUS Lec. Veta Pass, 9,300 feet.

DRVOCETES SEPTENTRIONIS Mann. Colorado, Ulke, as Xyleborus.

- D. AFFABER Mann. Gray's Peak, 11,200 feet, Packard; Leavenworth Valley, 10,000 to 11,000 feet.
- TOMICUS INTEGER Eich. Veta Pass and Rico, as *T. plastographus*. Specimens were taken at Boulder, (Hopkins) and Buena Vista, (Wickham), the determinations being due to Prof. Hopkins in these last two cases.
- T. RECTUS Lec. Veta Pass; Leavenworth Valley; Rico, Bowditch.
- T. PINI Say. Southern Pueblo County, Cockerell; Gray's Peak, Packard; Dome Rock.
- T. CÆLATUS Eich. Veta Pass.
- T. HUDSONICUS Lec. Leavenworth Valley, 10,000 to 11,000 feet.
- T. INTERRUPTUS Mann. Leavenworth Valley, 10,000 to 11,000 feet.
- T. TRIDENS Mann. Boulder, Hopkins, in bark of Engelmann's spruce; Leadville and the Argentine Pass Road, Wickham; all of the identifications are by Prof. Hopkins.
- T. LATIDENS Lec. Veta Pass.
- T. OREGONI Eich. Boulder, Hopkins, common in bark of Engelmann's spruce; Leadville; Colorado Springs; Leavenworth Valley; Peak Eight, above timber line. All of the identifications are from Prof. Hopkins.

SCOLYTUS UNISPINOSUS Lec. Veta Pass, 9,200 feet.

POLYGRAPHUS RUFIPENNIS Kirby. Gray's Peak, Packard.

PHLCOTRIBUS PUBERULUS Lec. Veta Pass, 9,400 feet.

HYLESINUS SERICEUS Mann. Garland.

H. NEBULOSUS Lec. Colorado Springs, Wickham; name from Hopkins.

- PHLEOSINUS SERRATUS Lec. This "or a new species" is reported from Garland.
- DENDROCTONUS TEREBRANS Oliv. Red Creek, Custer County, Cockerell; West Cliff; Rio Grande, Ulke; Colorado Springs; Ouray. The variety *valens* Lec., is reported from Garland.
- D. RUFIPENNIS Kirby. Colorado, Dietz; Leavenworth Valley; Leadville; Rico; Blackhawk and Manitou, Packard; peaks above 12,000 feet, Carpenter.

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D. SIMILIS Lec. Garland; Leavenworth Valley.

- D. PICEAPERDA Hopk. Boulder, Hopkins, in bark of Engelmann's spruce; Leadville; Silver Plume; Argentine Road. The specimens were all named by Prof. Hopkins and belong to a new variety or subspecies which will be characterized by him in due time. There is little doubt that some of the older records for Colorado Dendroctoni belong really to this species, which has been confounded with *D. rufipennis*.
- D. SIMPLEX Lec. Colorado, Dietz.

D. APPROXIMATUS Dietz. Colorado, Dietz.

HYLASTES MACER Lec. Colorado, Snow.

H. LONGUS Lec. Leadville; West Cliff; Garland; Veta Pass.

H. POROSUS Lec. Boulder, Hopkins, in bark of pine; Rico, in doubt.

H. GRACILIS Lec. Colorado, Putnam.

HYLURGOPS RUGIPENNIS Mann. Veta Pass, 9,400 feet; Leadville.

ANTHRIBIDÆ.

GONOTROPIS GIBBOSUS Lec. West Cliff.

EURYMYCTER FASCIATUS Oliv. Northern Colorado, May, Gillette. ALLANDRUS BIFASCIATUS Lec. Garland; Ouray; Horsefly Peak; Rico.

BRACHYTARSUS ALTERNATUS Say. La Veta; Colorado Springs.

B. GRISEUS Lec. South Park, Snow, common on Actinella richardsonii; Buena Vista.

ADDENDA.

After the first part of this catalogue had been printed, a "Revision of the Cicindelidæ of Boreal America" by Mr. Chas. W. Leng, appeared in the Transactions of the American Entomological Society. The following records should be added to those which I have already given for that family.

- CICINDELA OSLARI Leng. Bronze specimens from King Solomon's Peak, Needle Mountains, San Juan Range, 9,500 feet, July and August; green specimens from southwest slope of Mount Wilson, San Miguel Range, 12,000 feet, July. Both lots were collected by E. J. Oslar. This form will rank as a not very pronounced race or variety of *C. longilabris*.
- C. BOWDITCHI Leng. Vicinity of Durango, July and August, Bowditch.
- C. UNICOLOR Dej. Colorado.
- C. OBLIQUATA Dej. Mr. Leng revives this name for the broadly marked forms of *C. vulgaris;* I have a specimen from Buena Vista.

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Wickham, H. F. 1902. "A catalogue of the Coleoptera of Colorado." *Bulletin from the laboratories of natural history of the State University of Iowa* 5, 217–310.

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