



Coleoptera of an Original Prairie Area in Eastern Nebraska

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C. longior Lec. Logan Green Canyon, April 22, 1934 (Thatcher).

Family **Dermestidae**

Dermestes marmoratus Say. Antelope Island, April 23, 1932 (Knowlton: Cutler); Locomotive Springs (Anthon); Logan (Thomas); Snowville; Newton, October 7, 1926 (F. L. Clark).

D. caninus Germ. Ft. Duchesne, August 13, 1932 (Cutler); Logan; Providence.

D. caninus var. *compactus* Csy. Ft. Duchesne, July 9, 1932 (Stoffers); Stansbury Island, June 13, 1913 (Pack: Titus).

D. fascitus Lec. Fruitland, May 29, 1933.

D. talpinus Mann. Logan, May 29, 1933 (Thatcher); Strawberry (Anthon).

D. lardarius L. Corinne, April 20, 1931; Logan; Providence (Hammond).

Anthrenus acomanus Csy. Santa Clara and St. George, April 26, 1935 (Knowlton: C. F. Smith).

COLEOPTERA OF AN ORIGINAL PRAIRIE AREA IN EASTERN NEBRASKA

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The paper is a part of an ecological study of a tract of original prairie that was described by Steiger¹ (1930). It is located about nine miles northwest of Lincoln and consists of about three hundred and twenty acres of both low prairie and upland prairie vegetation. In describing it Steiger says: "The low prairie is characterized by a continuous, dense sod, predominantly composed of big bluestem (*Andropogon furcatus*), and the upland prairie by more open ground and a varied pattern of little bluestem (*Andropogon scoparius*), needle grass (*Stipa spartea*), June grass (*Koeleria cristata*), dropseeds (*Sporobolus*), grama grass (*Bouteloua*), and a profuse growth of non-grassy subdominants. In the ravines are found such shrubs as *Toxicodendron radicans*, *Rhus glabra*, *Prunus americana*, *Cornus stolonifera*, *Sambucus canadensis*, *Salix interior* and *Symphoricarpos occidentalis*. The trees are mostly boxelder, western cottonwood and several species of willow."

1 Steiger, T. L. Structure of Prairie Vegetation. Ecology 9(1) 170-217. 1930.

2. Leng, Charles W. Catalogue of the Coleoptera of America, north of Mexico. John D. Sherman Jr., Mount Vernon, N. Y., 1920.

Procedure

In collecting coleoptera the insect net was used for the most part, fifty sweeps being used as a unit of sampling. Examinations were made in all parts of the prairie at intervals of one week or less during the growing season. In the late fall, winter and early spring examinations were made under stones, grass and pieces of litter. On two different occasions an auto headlight was used to attract insects after dark, care being taken that it was not directly seen from outside the limits of the prairie.

Acknowledgements

The Curculionidae were identified by Dr. L. L. Buchanan and the other species by Mr. Charles Schaeffer and by the author.

Annotated List

The following list of species is arranged according to Leng: The insects captured on the high prairie have an H. following their name, those taken on the low prairie are followed by an L. and the insects of the ravines by an R.

Cicindelidae

Cicindela punctulata Oliv. L. on grass, July 12, 1929.

Carabidae

Pasimachus elongatus Lec. L. on ground, May 23, 1928; H. under stone, April 23, 1930.

Bembidion texanum Chd. at light, May 27, 1930.

Evarthrus orbatus (Newn.) L. on ground, July 10, 1929.

Lebia atriventris Say L. on grass, May 27, 1930; at light, night of May 27, 1930.

Calleida decora (Fab.) R. on grass and shrubs, September 6, 1928.

Calleida purpurea (Say) R. on grass and shrubs, September 6, 1928.

Agonoderus comma (Fab.) at light, September 8, 1928.

Lycidae

Calopteron terminale (Say) L. on grass, August 28, 1928; R. on grass September 8, 1928.

Cantharidae

Chauliognathus pennsylvanicus DeG. L. on grass, August 16 to September 3, 1928; on *Solidago glaberrima*, *S. rigida* and *Helianthus annuus*, August 16 to September 27, 1928. Very common late summer and fall.

Cantharis tuberculatus Lec. L. on a prairie flower, May 23, 1929.

Cantharis bilineatus Say L. on grass, May 16, 1928; on wild gooseberry, May 2, 1929.

Cleridae

Hydnocera humeralis Say H. on grass, May 17, and 24, 1928; L. on grass, July 17, 1929.

Mordellidae

Mordella melaena Germ. L. on grass, July 10, 1929.

Meloidae

- Pyrota engelmanni* (Lec.) H. on grass, June 1, 1928; at light, May 27, 1930.
- Epicauta trichus* (Pallas) L. and H. on grass, July 12 and 19, 1928.
- Epicauta ferruginea* (Say) L. on grass, July 19, 1928; on *Solidago glaberrima*, September 3, to 18, 1929.
- Epicauta maculata* (Say) H. on grass, July 10 and 12, 1928; L. on grass, July 19, 1928.
- Epicauta cinerea* (Forst.) H. on grass, July 10, 1928; L. on grass, August 28, 1928.
- Epicauta pennsylvanica* (DeG.) L. on *Solidago glaberrima* and *Helianthus annuus* August 2 to September 27, 1928.
- Macrobasis unicolor* (Kby.) L. on grass, May 24 to June 12, 1928.
- Macrobasis segmentata* (Say) L. on grass, July 12, 1928; at light, May 27, 1930.

Elateridae

- Drasterius elegans* (Fab.) H. on grass, August 10, 1928; at light, May 27, 1930.

Phalacridae

- Phalacrus politus* (Say) L. on grass, October 25, 1928.

Coccinellidae

- Ceratomegilla maculata* DeG. H. on grass, June 1, 1928.
- Hippodamia tredecim-punctata* (B.) on grass and shrubs, August 30, 1928.
- Hippodamia parenthesis* (Say) L. on grass, May 12, 1928; under stone, October 25, 1928 and March 14, 1929.
- Hippodamia convergens* Guer. L. on grass, May 12 to October 3, 1928; March 21 to May 17, 1929; under stone, October 25, 1928 and March 14, 1929.
- Hippodamia glacialis* (Fab.) L. on grass, May 16, 1929.
- Coccinella novemnotata* Hbst. H. on grass, July 10, 1928; on wild gooseberry, April 23, 1928.
- Cycloneda sanguinea* (L.) R. on grass and shrubs, October 3, 1928.

Tenebrionidae

- Eleodes tricostata* (Say) H. on ground, August 2, 1928; L. on ground, August 28, 1928.
- Eleodes suturalis* (Say) H. under stone, May 9, 1929.

Scarabeidae

- Canthon laevis* (Drury) L. flying around close to ground, May 17, 1928.
- Copris tullius* Oliv. at light, May 27, 1930.
- Aphodius brevicollis* Lec. L. flying around near ground, April 24, 1929.
- Aphodius concavus* Say H. under stone, April 23, 1930; at light, May 27, 1930.
- Aphodius inquinatus* (Mull.) L. flying around near ground, March 21, 1929.

- Eucanthus lazarus** (Fab.) at light, May 27, 1930.
Diploptaxis frondicola (Say) L. on grass at dusk, May 27, 1930.
Phyllophaga lanceolata (Say) H. on grass, July 10, 1928.
Phyllophaga praetermissa Horn. at light, May 27, 1930.
Phyllophaga tristis (Fab.) H. in ground, May 2, 1930.
Pachystethus lucicola (Fab.) L. on grass, July 10, 1929.
Ligyroides relictus (Say) L. in ground, May 2, 1930; at light, May 27, 1930.
Euphoria inda (L.) L. in grass, March 21, 1929; R. flying around, April 12, 1928; on **Helianthus annuus** and **Solidago glaberrima**, September 3 and 10, 1930.
Cre mastocheilus knochi Lec. L. on pocket gopher mound, April 23, 1930.

Cerambycidae

- Typocerus zebra** (Oliv.) L. on grass, July 12, 1928.
Typocerus velutina (Oliv.) L. on grass, July 12, 1928.
Typocerus sinuata (Newn.) L. on grass, July 12, 1928.
Cyllene decora (Oliv.) L. on **Solidago rigida**, September 10, 1928.

Chrysomelidae

- Lema trilineata** (Oliv.) R. on grass and shrubs, September 6, 1928 and July 10, 1929.
Pachybrachys pubescens (Oliv.) L. on grass, May 16, 1929.
Pachybrachys othonus (Say) L. on grass, July 10 and 18, 1928.
Pachybrachys litigosus Suffr. L. on grass, July 10 and 18, 1928.
Pachybrachys autocylus Fall L. on grass, June 1 and July 19, 1928.
Pachybrachys luridus (Fab.) L. on grass, July 10, 1929.
Cryptocephalus quadruplex Newn. R. on **Rumex** sp., July 8, 1928.
Cryptocephalus venustus Fab. R. on grass, July 19, 1928.
Grahis curtippennis (Melsh.) L. on grass, May 16, 1928.
Paria canella aterrima (Oliv.) R. on grass and shrubs, July 10, 1929.
Leptinotarsa decemlineata (Say) H. on grass, August 16 and 20, 1928 and July 10, 1929.
Gastroidea cyanea Melsh. R. on weeds, April 18 and May 3, 1929.
Trirhabda tomentosa (L.) H. on grass, August 28 to September 18, 1928; July 10 to August 8, 1929.
Trirhabda canadensis (Kby.) H. & L. on grass, July 5 to September 13, 1928; R. on grass and weeds, August 9 and 16, 1928 and July 10 to August 1, 1929.
Galerucella americana (Fab.) H. on grass, May 24 to September 6, 1928; and August 20, 1929.
Galerucella nymphae (L.) L. on grass, May 17 to August 16, 1928; August 15 to October 3, 1929; under stone, March 14, 1929.
Galerucella tuberculata (Say) H. on grass, August 28 to September 8, 1928; R. on grass, August 16 to September 27, 1928; L. on grass, July 5 to August 28, 1928, July 10 to August 29, 1929.
Galerucella decora (Say) R. on shrubs, June 8, 1928.

- Diabrotica duodecimpunctata** (Fab.) R. on grass and shrubs, August 10 to October 3, 1928; on thistle, September 3, 1929.
- Diabrotica longicornis** (Say) R. on grass, August 10 to October 3, 1928; on thistle, September 3, 1929.
- Diabrotica fossata** Lec. R. on grass and shrubs, July 10 and 18, 1929.
- Blepharida rhois** (Forst.) R. on *Solidago rigida*, *Rhus glabra*, grass and shrubs, June 8 to October 3, 1928.
- Oedionychis thymoides** Cr. L. on grass, May 24 and June 1, 1928.
- Disonycha carolina** (Fab.) R. on grass, August 2 to 28, 1928; L. on grass, September 10, 1928; on weed, April 18, 1929.
- Disonycha triangularis** (Say) H. on grass, May 12, 1928.
- Disonycha xanthomelaena** (Dalm.) R. on grass, August 9, 1928.
- Haltica lazulina** Lec. H. on grass, August 30, 1928.
- Microrhopala vittata** (Fab.) L. on grass, July 10, 1929.
- Chelymorpha cassidea** (Fab.) R. on grass and shrubs, July 12 to 26, 1928.
- Physonota unipuncta** (Say) R. on grass and shrubs, May 17 to August 9, 1928.
- Jonthonota nigripes** (Oliv.) L. on grass, July 10, 1929.

Curculionidae

- Auletes** sp. L. on grass, August 2, 1928.
- Rhynchites bicolor** Fab. R. on wild rose, **Rose pratincola**, June 8, 1928.
- Attelabus nigripes** Lec. R. on grass and *Rhus glabra*, June 8 to October 10, 1928.
- Apion obsoletum** Sm. L. on grass, August 19, 1928.
- Apion punctinasum** Sm. R. on grass, July 26, 1928.
- Apion oblitum** Sm. L. on grass, May 17, 1928; H. on grass, May 17 to July 12, 1928.
- Apion extensum** Sm. R. on grass and shrubs, August 9, 1928.
- Apion parallelum** Sm. R. on grass and shrubs, May 24 to October 10, 1928.
- Epicaerus imbricatus** Say L. on grass, July 12 to September 13, 1928.
- Desmoris constrictus** (Say) R. on grass, September 6, 1928.
- Desmoris fulvus** (Lec.) R. on *Helianthus annuus*, September 3, 1928.
- Lixus terminalis** Lec. R. on wild strawberry, June 8, 1928; flying around, May 16, 1929.
- Baris striatus** (Say) R. on grass and shrubs, July 12 to August 28; L. *Solidago rigida* September 10, 1928.
- Endalus aeratus** Lec., L. on grass, May 28, 1928.
- Tychius sordidus** Lec. H. on weed, April 23, 1929.
- Elleschus ehippiatus** (Say) L. on grass, May 17, 1928.
- Onychobaris** sp. R. on grass, August 18, 1928.
- Trichobaris trinotata** (Say) H. on grass, May 24, 1928.
- Conotrachelus nivosus** Lec. H. on grass, May 17, 1928.
- Rhodabaenus tradecimpunctatus** (Ill.) L. on *Solidago rigida*, September 10, 1928.