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Burruss McDaniel

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TB 57

Leafhoppers of South Dakota

and additional distribution records from 18 states and Canada

Agricultural Experiment Station • South Dakota State University • Brookings, South Dakota 57007

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THE LEAFHOPPERS OF SOUTH DAKOTA
AND ADDITIONAL DISTRIBUTION RECORDS
FROM 18 STATES AND CANADA

By

Burruss McDaniel

Technical Bulletin 57

Plant Science Department (Entomology)
Agricultural Experiment Station
South Dakota State University
Brookings, South Dakota

INTRODUCTION

The leafhoppers or Cicadelloidea constitute one of the largest superfamilies within the Class Insecta. All of the members of this superfamily are plant feeders. Many cause damage to fruits, cereals, forage crops, forest and shade trees, grasses and various ornamental plants. They are recorded as attacking people when occurring in large numbers on lawns, golf fairways, or other predominantly grass covered areas. They are important in the transmission of plant viruses and can reduce crop yield in small garden plots.

South Dakota has a wide range of habitats and is distinguished by extremes in physical conditions. Elevations range from 1000 feet in the eastern section to peaks of 7,200 feet in the Black Hills located at the far western portion of the state. South Dakota has been characterized by Westin and Malo (1978) as near the center of the great grassland area of mid-North America that once extended between the eastern and western forest regions. Except for the forested Black Hills, shelter belts and scattered cottonwoods and shrubs, South Dakota is a vast sea of grass. South Dakota is divided by the 100th meridian with annual precipitation averaging from 26 inches in the southeast to less than 12 inches in the northwest.

This study has as its foundation specimens deposited in the South Dakota State University H. C. Severin Insect Museum. The bulk of the material was collected by H. C. Severin during the years of 1909 to 1953. Additional specimens have been added by the author from 1966 to the present. This collection contains 230 species representing 82 genera collected from every county in South Dakota, 18 states and 5 provinces in Canada.

For each species, a map is included showing the number of collection localities/county. On the maps, the following symbols are used:

- = 1-2 different site collections from that county
- ◐ = 3-4 different site collections from that county
- = 5-6 different site collections from that county

The collection sites are designated by cities and towns located throughout each county/state/province under its respective species in the text. The species are arranged under the genera in alphabetic sequence. (f = female, m = male).

This is not a revision of a group, however a listing of the species is included under their

respective subfamilies and is merely an attempt to reflect what is believed to be the general consensus of the best authorities at the present time.

This research was supported by the South Dakota Agricultural Experiment Station, South Dakota State University, Brookings, Project Numbers H-469, H-553, H-714 and H-138.

ACKNOWLEDGEMENTS

I am indebted to Dr. Derrick Blocker, Department of Entomology, Kansas State University Manhattan, Kansas for reading the manuscript and giving freely much needed information about the classification of the Cicadelloidea. Thanks is extended to Colleen Donohue and Jolene Christensen for their aid in sorting and counting specimens and to Diane Raemisch for typing the manuscript.

REFERENCES CITED

Westin, F. C. and D. D. Malo. 1978. Soils of South Dakota. South Dakota State Univ. Agr. Exper. Station Bull 656 pp. 1-118.

LEAFHOPPERS OF SOUTH DAKOTA

Subfamily Ledrinae

Xerophloea viridis (Fabricius), 1794a:50

Subfamily Dorycephalinae

Dorycephalus minor Osborn, 1920a:154.

Dorycephalus platyrhynchus Osborn, 1894a:216.

This genus is assigned to the genus Doracara by Emeljanov (1966).

Subfamily Hecalinae

Hecalus lineatus (Uhler), 1877a:463.

Memnonia consobrina Ball, 1900a:66.

Parabolocratus kansiensis Shaw, 1932a:47.

Parabolocratus major Osborn, 1915a:110.

Parabolocratus viridis (Uhler), 1877a:462.

Subfamily Agallinae

Aceratagallia accola Oman, 1933b:57.

Aceratagallia cinerea (Osborn and Ball), 1898d:62.

Aceratagallia fuscscripta Oman, 1933b:61.

Aceratagallia robusta Oman, 1933b:48.

Aceratagallia sanguinolenta (Provancher), 1872c:376.

Aceratagallia texana Oman, 1933b:51.

Aceratagallia uhleri (Van Duzee), 1894b:91.

Agallia quadripunctata (Provancher), 1872c:376.

Agalliopsis novella (Say), 1830b:309.

Subfamily Macropsinae

Macropsis gleditschiae (Osborn and Ball), 1898e:67.

Macropsis hesperia Breakey, 1932a:805.

Macropsis insignis (Van Duzee), 1889a:171.

Macropsis trivialis (Ball), 1902e:304.

Macropsis viridis (Fitch), 1851a:59.

Oncopsis fitchi Van Duzee, 1916:65.

Oncopsis verticus (Say), 1830b:308.

Subfamily Idiocerinae

Idiocerus alternatus Fitch, 1851a:290.

Idiocerus brunneus = ramentosus.

Idiocerus duzei Provancher, 1889a:290.

Idiocerus formosus Ball, 1902e:305.

Idiocerus hebetus DeLong and Hershberger = lachrymalis.

Idiocerus lachrymalis Fitch, 1851:58.

Idiocerus pallidus Fitch, 1851a:59.

Idiocerus provancheri Van Duzee, 1890a:111.

- Idiocerus ramentosus (Uhler), 1877a:465.
Idiocerus rotundens DeLong and Caldwell, 1937b:162.
Idiocerus snowi Gillette and Baker, 1895a:79.
Idiocerus suturalis Fitch, 1851a:59.
- Subfamily Gyponinae
Gypona melanota Spangberg, 1878a:19
Gyponana flavilineata (Fitch), 1851a:57.
Gyponana ortha DeLong, 1942c:25.
Gyponana turbinata DeLong, 1942c:37.
Gyponana vasta DeLong, 1942c:47.
Ponana quadriloba DeLong, 1942c:98.
Prairiana cinerea (Uhler), 1877a:460.
- Subfamily Coelidiinae
Coelidia olitoria (Say), 1830b:310.
- Subfamily Xestocephalinae
Xestocephalus pulicarius Van Duzee, 1894f:215.
Xestocephalus superbus (Provancher), 1890b:339.
- Subfamily Neocoelidinae
Neocoelidia tumidifrons Gillette and Baker, 1895a:104.
- Subfamily Cicadellinae
Draeculacephala angulifera (Walker), 1851b:771.
Draeculacephala antica (Walker), 1851b:771.
Draeculacephala crassicornis Van Duzee, 1915b:181.
Draeculacephala mollipes (Say), 1840b:312. (for *constricta*)
Draeculacephala noveboracensis (Fitch), 1851a:56.
Draeculacephala portola Ball, 1927c:35.
Draeculacephala portola paludosa Ball and China, 1933a:3.
Draeculacephala producta (Walker), 1851b:772.
Evacanthus acuminatus (Fabricius), 1794a:36.
Graphocephala coccinea (Forster), 1771a:69.
Graphocephala confluens (Uhler), 1861b:285. (from *Keonolla*)
Graphocephala hieroglyphica (Say), 1830b:313. (from *Keonolla dolabrata* and *Neokolla*)
Graphocephala uhleri (Ball, 1910b:52 (from *Keonolla*)
Helochara communis Fitch, 1851a:56.
Tylozygus bifidus (Say), 1830b:313.
- Subfamily Typhlocybinae
Dicranonura loca (DeLong and Caldwell), 1936a:71. (from *Forcipata*)
Dicranonura triquetra (DeLong and Caldwell), 1936a:72. (from *Forcipata*)
Dikraneura absenta DeLong and Caldwell, 1937a:28.
Dikraneura angustata Ball and DeLong, 1925a:328.
Dikraneura arizona DeLong and Caldwell, 1937a:26.
Dikraneura carneola (Stal), 1858e:196.
Empoa casta (McAtee), 1926a:26.
Empoa gillettei Van Duzee, 1917b:708.
Empoa venusta (McAtee), 1926a:29.
Empoasca alboneura Gillette, 1898a:736.
Empoasca atrolabes Gillette, 1398a:736.
Empoasca aureoviridis (Uhler), 1877a:474.
Empoasca erigeron DeLong, 1931b:48.
Empoasca esuma Goding, 1890b:116.
Empoasca fabae (Harris), 1841:186.
Empoasca filamenta DeLong, 1931b:43.
Empoasca gelbata DeLong and Davidson, 1936a:225.
Empoasca incida DeLong, 1931b:21.
Empoasca medora (DeLong), 1932c:397.
- Empoasca nigra Gillette and Baker, 1895a:108.
Empoasca patula DeLong, 1931b:22.
Empoasca saluta DeLong, 1931b:24.
Empoasca smaragdula (Fallen), 1806a:37.
Erythroneura affinis Fitch, 1851a:63.
Erythroneura aza Robinson, 1924c:291.
Erythroneura beameri Robinson, 1924a:61.
Erythroneura calycula McAtee, 1920a:308.
Erythroneura campora Robinson, 1924a:59.
Erythroneura coloradensis (Gillette), 1892a:16.
Erythroneura comes (Say), 1825a:343.
Erythroneura corni Robinson, 1924a:60.
Erythroneura curvata Beamer, 1931a:132.
Erythroneura elegans McAtee, 1920a:315.
Erythroneura fumida (Gillette), 1898a:758.
Erythroneura magna Calx Beamer, 1930b:451.
Erythroneura nigra (Gillette), 1898a:765.
Erythroneura obliqua (Say), 1825a:342.
Erythroneura plena Beamer, 1930b:442.
Erythroneura pura Knoll, 1954d:38.
Erythroneura rosa Robinson, 1924a:58.
Erythroneura trincincta Fitch, 1851a:63.
Erythroneura vitifax (Fitch), 1856a:392.
Erythroneura vitis (Harris), 1831a:43.
Erythroneura vulnerata Fitch, 1851a:61.
Erythroneura ziczac Walsh, 1862a:149.
Hymetta balteata McAtee, 1919a:123.
Ossiannilssonola berenice (McAtee), 1926a:38.
Typhlocyba cassiopeia Knoll, 1944d:269.
Typhlocyba modesta Gibson, 1917a:184.
Typhlocyba pomaria McAtee, 1926a:29.
- Subfamily Deltocephalinae
Acinopterus acuminatus Van Duzee, 1892e:308.
Acinopterus bakeri Lawson, 1927b:238 (for *A. inflatus*)
Amblysellus curtisii (Fitch), 1851a:61.
Amplicephals osborni (Van Duzee), 1892d:304.
Athysanella (Gladionura) argenteola (Uhler),
Athysanella (Gladionura) contracta Ball and Beamer, 1940a:61.
Athysanella (Athysanella) gardenia Osborn, 1930a:701.
Athysanella (Athysanella) incongrua Baker, 1898a:188.
Athysanella (Athysanella) kadokana Knoll, 1951c:180.
Athysanella (Amphipyga) obesa Ball and Beamer, 1940a:34.
Athysanella (Athysanella) terebrans (Gillette and Baker), 1895a:102.
Auridius auratus (Gillette and Baker), 1895a:85.
Balclutha impicta (Van Duzee), 1892a:113.
Balclutha neglecta (DeLong and Davidson), 1933a:55. (for *Nesosteles*)
Balclutha punctata (Fabricius), 1775a:687.
Ballana atridorsum (Van Duzee), 1894b:92.
Chlorotettix tusorius (Osborn and Ball), 1897a:226.
Chlorotettix spatulatus Osborn and Ball), 1897a:225.
Chlorotettix unicolor (Fitch), 1851a:58.
Cicadula intermedia (Boheman), 1845a:40.
Cicadula quinquenotata (Boheman), 1847a:38.
Colladonus belli (Uhler), 1877a:471.
Colladonus clitellarius (Say), 1830b:309.
Commellus comma (Van Duzee), 1892a:114.
Commellus sexvittatus (Van Duzee), 1894b:93.
Deltocephalus balli Van Duzee, 1894a:293.
Deltocephalus fuscinervosus Van Duzee, 1894f:207.
Deltocephalus gnarus Ball, 1900c:345.
Deltocephalus sonorus Ball, 1900c:344. (a generic change is in press)
Diplocolenus configuratus Uhler, 1878a:511.
Driotura gammaroides (Van Duzee), 1894f:209.

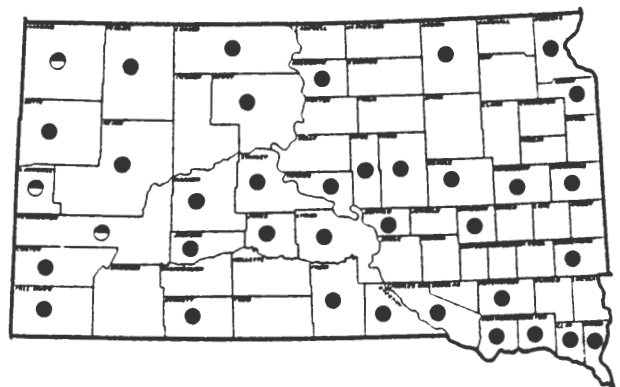
Subfamily Deltocephalinae (continued)

Driotura robusta Osborn and Ball, 1898f:87.
Elymana inornata (Van Duzee), 1892d:303.
 (= E. virescens)
Endria inimica (Say), 1830b:305.
Errastunus sobrinus (DeLong and Sanders),
 1929i:100. (= ocellaris (Fallen))
Eutettix variabilis Hepner, 1942b:269.
Exitianus exitiosus (Uhler), 1880a:72.
Exitianus obscurinervis (Stal), 1859b:293.
 (may be Exitiosus misidentification)
Extrusanus extrusus (Van Duzee), 1893a:283.
Flexamia abbreviata (Osborn and Ball),
 1897a:206.
Flexamia curvata DeLong, 1926d:34.
Flexamia flexulosa (Ball), 1899b:189.
Flexamia grammica (Ball), 1900b:204.
Flexamia pectinata (Osborn and Ball),
 1897a:202.
Flexamia stylata (Ball), 1899b:190.
Flexamia surcula DeLong and Slesman,
 1929a:99.
Gillettiella atropuncta (Gillette), 1898b:28.
Graminella nigrifrons (Forbes), 1885a:67.
Hebecephalus rostratus Beamer and Tuthill,
 1935a:534.
Hebecephalus sagittatus Beamer and Tuthill,
 1935a:533.
Hebecephalus signatifrons (Van Duzee),
 1892d:305.
Laevicephalus parvulus (Gillette), 1898b:23.
Laevicephalus sylvestris (Osborn and Ball),
 1897b:213.
Laevicephalus unicoloratus (Gillette and
 Baker), 1895a:89.
Latulus miscellus (Ball), 1899b:191.
Latulus sayi (Fitch), 1851a:61.
Limotettix bisoni Knull, 1952a:231.
 (possibly = L. atricapillus (Boheman))
Limotettix parallelus (Van Duzee), 1891a:169.
Limotettix striolus (Fallen), 1806a:31.
Lonatura catalina Osborn and Ball, 1898f:83.
Lonatura noctivaga Ball, 1900c:341.
Lonatura salsura Ball, 1899d:310.
Macrosteles divisa (Uhler), 1988a:472.
Macrosteles fascifrons (Stal), 1858e:194.
Macrosteles lepida (Van Duzee), 1894c:139.
Macrosteles pоторia (Ball), 1900c:346.
Macrosteles variata (Fallen), 1806a:34.
Mesosoma cincta (Osborn and Ball), 1898f:97.
Mesamia coloradensis (Gillette and Baker),
 1895a:91.
Mesamia nigradorsum (Ball), 1907a:60.
Mocuellus collinus (Boheman), 1850a:261.
Norvellina chenopodii (Osborn), 1923a:161.
Norvellina seminuda (Say), 1830b:307.
Oncopsis fitchi Van Duzee, 1916a:65.
Oncopsis verticis (Say), 1830b:308.
Opsius stractogalus Fieber, 1866a:505.
Orocistus perpusillus (Ball and DeLong),
 1926a:241.
Osbornellus auronitens (Provancher),
 1889a:277.
Paluda gladiola (Ball), 1910c:309.
 (for Paluda mella)
Palus bilineatus (Gillette and Baker),
 1895a:85. (for Cosmotettix)
Paraphlepsius altus (Osborn and Ball),
 1897a:228.
Paraphlepsius apertus (Van Duzee), 1892c:76.
Paraphlepsius certus (DeLong), 1938a:44.
Paraphlepsius hemicolor (Sanders and DeLong),
 1923a:152.
Paraphlepsius humidus (Van Duzee), 1892c:76.
Paraphlepsius irroratus (Say), 1830b:308.
Paraphlepsius lascivius (Ball), 1900b:200.
Paraphlepsius lobatus (Osborn), 1898a:247.
Paraphlepsius punctiscriptus (Van Duzee),

1892c:75.
Paraphlepsius solidaginis (Walker), 1851b:847.
Paraphlepsius truncatus (Van Duzee), 1892c:72.
Paraphlepsius turpiculus (Ball), 1900b:200.
Paraphlepsius flavicosta (Stal), 1862e:53.
 (from Deltocephalus)
Prescottia tobata (Van Duzee), 1894f:211.
Psammotettix confinis (Dahlbom), 1850a:193.
Psammotettix ferratus (DeLong and Davidson),
 1935b:170.
Psammotettix lividellus (Zetterstedt),
 1840a:290. (includes affinis and
striatus)
Rosenus cruciatus (Osborn and Ball), 1898f:77.
Scaphoideus auctus DeLong and Mohr, 1936a:970.
Scaphoideus cinereus Osborn, 1900a:208.
Scaphoideus immistus (Say), 1830f:306.
Scaphoideus littoralis Ball, 1932a:15.
Scaphoideus opalinus Osborn, 1905c:525.
Scaphoideus acutus (Say), 1831b:306.
Scaphoideus cinereus (Osborn and Ball),
 1897a:193.
Scaphoideus frontalis (Van Duzee), 1890a:112.
Scaphytopius latus (Baker), 1900c:50.
Scaphytopius osborni (Van Duzee), 1910a:229.
Scleroracrus anthracinus (Van Duzee),
 1984c:136. (for Ophiola)
Scleroracrus osborni (Ball), 1928c:190.
 (for Ophiola)
Sorhoanus debilis (Uhler), 1876a:360.
Sorhoanus flavovirens (Gillette and Baker),
 1895a:87.
Sorhoanus spicatus (DeLong), 1926d:74.
Sorhoanus uhleri (Oman), 1931b:432.
Streptanus aemulans (Kirschbaum), 1868b:107.
Texanus cumulatus (Ball), 1900b:202.
Thamnotettix confinis Zetterstedt, 1828a:527.
Unoka gillettei Metcalf, 1955a:266.
Verdanus evansi Ashmead, 1904a:132.

LEDRIDAE - Ledrinae

Xerophloea viridis (Fabricius), 1794a:50
 type locality: America



Records:

Beadle Co., Byron, 10 September 1946 1 f,
 1 m.
 Bennett Co., Martin, 11 September 1948
 2 f, 2 m.
 Bon Homme Co., Springfield, 13 September
 1948 1 f 1 m, 1 September 1954 1 f.
 Brookings Co., Brookings, 7 June 1946
 1 f, 24 June 1946 1 f, 23 August 1933
 1 m, 30 August 1943 1 f, 3 m, 15
 September 1920 1 f, 19 September 1952
 2 f, 12 October 1938 1 f.

Brown Co., Hecla, 7 September 1948 1 f,
1 m, 2 September 1954 1 f.
Buffalo Co., Fort Thompson, 1 September
1943 1 f, 18 September 1944 4 m.
Butte Co., Newell, 25 June 1954 2 m.
_____, Nisland, 13 August 1952 1 f.
Charles Mix Co., Platte, 16 June 1933 1 f.
Clay Co., Meckling Co., 26 August 1926
1 f, 14 September 1948 1 f.
_____, Vermillion, 13 June 1921 1 f,
26 June 1921 1 m, 6 June 1946 1 f,
22 June 1946 2 f 5 m, 24 June 1946
1 f, 25 June 1946 1 f, 28 June 1946
1 f, 6 August 1946 1 f, 6 September
1946 2 m.
Corson Co., McLaughlin, 8 September 1948
3 f 5 m.
_____, Walker, 8 September 1948 8 f 7 m.
Custer Co., Fairburn, 14 July 1954 1 f.
Dewey Co., Eagle Butte, 22 June 1927 1 f,
6 August 1948 4 f 2 m.
Fall River Co., Hot Springs, 11 September
1948 1 f.
Grant Co., Big Stone City, 27 August 1921
1 f.
Gregory Co., Bonesteel, 13 September 1948
2 f 1 m.
_____, Gregory, 26 June 1931 1 f.
Haakon Co., Philip, 7 August 1948 2 m.
Hand Co., Ree Heights, 11 September 1946
1 f.
Harding Co., Antelope Range Field
Station, 24 June 1954 1 f, 28 August
1952 1 f 1 m.
_____, Buffalo, 27 June 1950 2 f,
10 September 1948 2 f 2 m.
_____, Buffalo (Sandhills) 22 August
1952 3 f 4 m.
_____, Reva, (Alkali Flats), 8
September 1 f
Hughes Co., Canning, 7 August 1948, 2 f,
16 August 2 f 1 m.
_____, Pierre, 22 July 1952 1 f, 11
September 1921 1 f.
Hutchinson Co., Dimock, 1 September 1954
1 f.
Hyde Co., Highmore, 1 June 1948 1 f, 23
June 1950 1 m.
Jackson Co., Cottonwood, 2 June 1948 1 f,
26 June 1948 1 f, 24 June 1950 2 m.
_____, Interior, 15 June 1948 3 m,
28 August 1922 1 f.
Jones Co., Capa, 24 August 1919 1 f, 27
August 1919 3f 2 m, 12 August 1922
3 m, 15 August 1922 3 f, 24 August
1952 1 f 1 m, 23 September 1920 3 f
2 m.
Kingsbury Co., DeSmet, 23 June 1950 1 f
2 m.
Lawrence Co., Englewood, 11 September
1948 1 f.
_____, Lead, 11 September 1948
1 f.
_____, Spearfish, 4 August 1953
1 f.
Lyman Co., Lyman, 12 September 1946 1 f.
Meade Co., Sturgis, 23 June 1954 1 f.
Minnehaha Co., Dell Rapids, 28 August
1954 1 m.
Pennington Co., Pactola Lake, 10
September 1948 1 f 1 m.
_____, Rapid City, 9 September
1923 1 f.
_____, Wall (Badlands), 26 July
1948 3 f 5 m.
Perkins Co., Bison (Alkali Lake), 24
July 1954 1 f, 10 September 1948 1 m.
Roberts Co., Sisseton, 7 September 1948

1 f.
Sanborn Co., Forestburg, 1 September
1954 1 f 1 m.
Stanley Co., Fort Pierre, 22 June 1954
2 m, 21 September 1920 6 f 5 m, 11
September 1946 1 f, 12 September 1946
2 f 4 m.
Tripp Co., Winner, 12 September 1940 1 f,
13 September 1940 1 f.
Union Co., Elk Point, 27 May 1954 1 f, 7
June 1946 1 f 1 m, 17 June 1946 3 f,
24 June 1946 1 f, 27 June 1946 1 m, 10
July, 1946 2 f 2 m, 16 August 1946 2
f, 15 September 1946 1 f.
_____, Union Co. State Park, 28
August 1954 1 f 2 m.
Walworth Co., Selby, 5 September 1925
1 f.
Yankton Co., Yankton 18 August 1927 1 f.

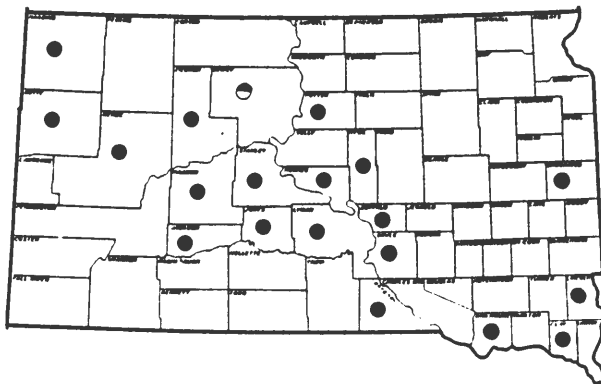
Additional records:

Kansas, Kinsley, 1 September 1950 3
specimens
_____, Marysville, 8 August 1950 3
specimens
North Dakota, Edgeley, 25 July 1921
1 specimen
_____, Medora, 26 August 1947
1 specimen
Oklahoma, Texahoma, 1 September 1950
1 specimen
Utah, Manti, 25 August 1950 7 specimens
_____, Marysvale, 26 August 1950 1
specimen
_____, Orderville, 27 August 1950 1
specimen
_____, Zion Park, 28 August 1950 1
specimen
Washington, Spokane, 15 August 1947 1
specimen

South Dakota ----- 223
Kansas ----- 6
North Dakota ----- 2
Oklahoma ----- 1
Utah ----- 26
Washington ----- 1
Total Collection - 259

HECALIDAE-Dorycephalini

Dorycephalus minor Osborn, 1920a:154
Type locality: South Dakota



Records:

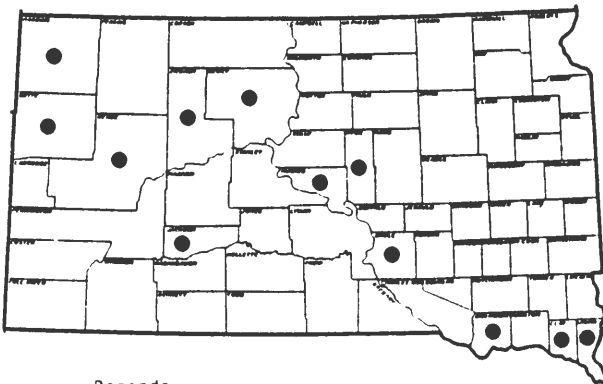
Bon Homme Co., Tabor, 20 June 1924 1 f.

Brookings Co., Brookings, 12 June 1923
1 f.
Brule Co., Chamberlain, 21 June 1944
3 f, 5 June 1947, 72 f 58 m, 17 June
1947 6 f 10 m, 18 June 1947 3 f 4 m.
_____, Kimball, 28 June 1947 1 f.
Buffalo Co., Fort Thompson, 12 June 1944
1 f.
Butte Co., Castle Rock, 26 June 1950 1
f.
_____, Newell, 21 July 1947 1 f.
Clay Co., Meckling, 16 June 1926 1 m.
Dewey Co., Cheyenne Agency, 5 June 1947
1 f.
Dewey Co., Eagle Butte, 22 June 1927 1 m.
_____, Lantry, 28 June 1947 3 f. 3 m.
Gregory Co., Dallas, 21 July 1950 1 f.
Haakon Co., Midland, 23 May 1951 1 f.
Harding Co., Buffalo, 28 June 1947 1 f.
Hughes Co., Pierre, 23 March 1919 1 f,
9 June 1951 1 f 1 m, 17 July 1947 2 f,
22 July, 1947 1 f 1 m, 25 July 1947
2 m.
Hyde Co., Highmore, 1 June 1948 3 f 2 m,
23 June 1950 1 f, 16 July 1944 1 f.
Jackson Co., Cottonwood, 24 June 1950
2 f, 26 July 1948 1 f.
Jones Co., Capa, 1 June 1921 3 f 5 m,
23 September 1920 1 f, 24 September
1920 2 f 2 m.
Lincoln Co., Canton, 16 June 1924 1 f.
Lyman Co., Kennebec, 17 July 1947 6 f 5
m.
_____, Presho, 17 June 1947 1 f, 27
June 1947 1 f 4 m, 28 June 1947 1 f.
Meade Co., Cedar Canyon, 27 June 1947
1 f.
_____, Fox Ridge, 22 June 1927 2 f,
25 June 1947 1 f, 28 June 1947 1 f.
Potter Co., Gettysburg, 26 June 1947 3 m,
27 June 1947 4 f 5 m.
Stanley Co., Fort Pierre, 23 May 1951 1 f
2 m.
Ziebach Co., Dupree, 25 June 1947 2 f.

South Dakota ----- 248
Total Collection - 248

Remarks: Emeljanov (1966) placed this
species with genus Doracara.

Dorycephalus platyrhynchus Osborn, 1894a:216
Type locality: Iowa



Records:

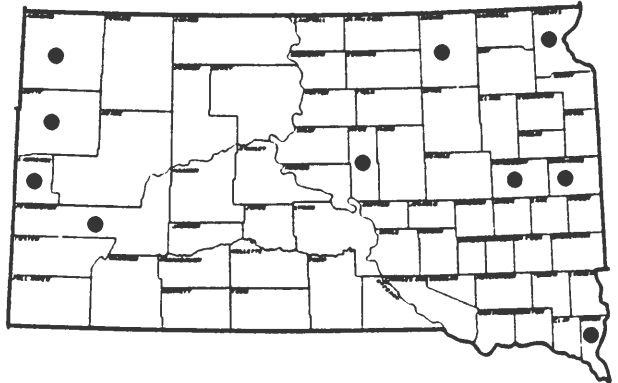
Bon Homme Co., Tabor, 27 May 1954 1 f,
4 June 1953 1 f.
Brule Co., Chamberlain, 18 June 1947 1 f.
Butte Co., Newell, 27 May 1951 1 f.
Clay Co., Vermillion, 3 June 1953 1 f 2 m.

Dewey Co., Eagle Butte, 26 August 1952
1 f.
Harding Co., Antelope Range Field Station,
24 June 1954 1 f.
Hughes Co., Pierre, 16 June 1952 1 m,
22 July 1954 1 f.
Hyde Co., Highmore, 16 June 1952 1 m, 2
June 1954 1 f.
Jackson Co., Cottonwood, 17 June 1952 1 f
1 m.
Meade Co., Maurine, 17 June 1952 1 f.
Union Co., Alcester, 21 May 1953 3 f 2 m.
_____, Elk Point, 3 June 1953 3 m.
Ziebach Co., Dupree, 25 June 1947 3 f.
_____, Glad Valley, 2 June 1955
1 f.

South Dakota ----- 40
Total Collection - 40

HECALIDAE-Hecalinae

Hecalus lineatus (Uhler), 1877a:463
Type locality: New Jersey



Records:

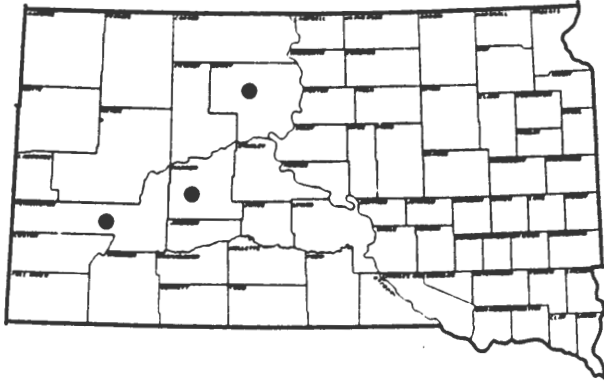
Brookings Co., Brookings 1 August 1943
1 f.
_____, White (Warrens Woods) 10
August 1927 1 f.
Brown Co., Hecla, 7 September 1948 1 m.
Butte Co., Belle Fourche, 21 July 1928
6 f 5 m.
_____, Nisland, 16 August 1950 3 f.
Harding Co., Reva (Alkali Flats), 8
September 1948 1 f.
Hyde Co., Highmore, 17 May 1951 1 m.
Kingsbury Co., De Smet, 23 June 1950 3 m.
Lawrence Co., Springfield, 24 June 1934
1 f, 13 September 1948 1 f, 18
September 1948 1 f 1 m.
Pennington Co., Wall (Badlands), 26 July
1948 1 f.
Roberts Co., Sisseton, 23 August 1946 1
f, 7 September 1948 1 f.
Union Co., Elk Point, 14 September 1948
2 f 2 m.

Additional records:

Oklahoma, Texahoma, 1 September 1950
1 specimen

South Dakota ----- 39
Oklahoma ----- 1
Total Collection - 40

Memnonia consobrina Ball, 1900a:66
Type locality: Colorado

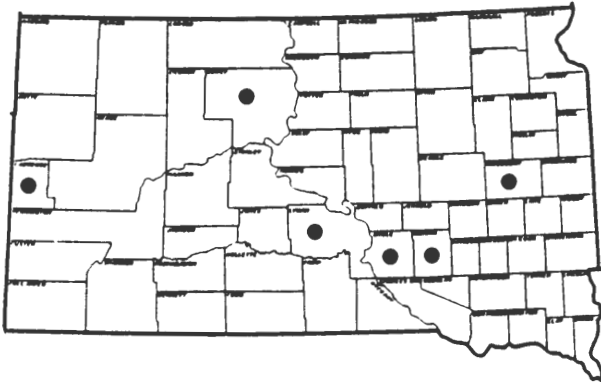


Records:

Dewey Co., Eagle Butte, 6 August 1948
16 f 8 m.
Haakon Co., Philip, 7 August 1948 3 f.
Pennington Co., Wall (Badlands) 26 July
1948 4 f 2 m.

South Dakota ----- 33
Total Collection - 33

Parabolocetratus kansiensis Shaw, 1932a:47
Type locality: Kansas



Records:

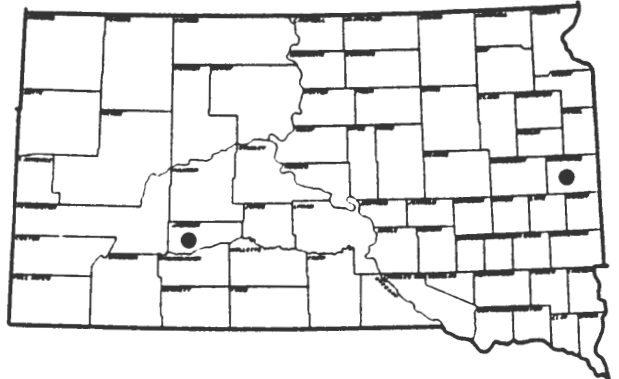
Aurora Co., White Lake, 27 June 1946
1 f 2 m.
Brule Co., Kimball, 28 June 1947 1 f.
Dewey Co., Lantry, 28 June 1947 1 f.
Kingsbury Co., Lake Albert, 24 August
1923 1 f.
Lawrence Co., Lead 23 July 1947 1 f.
_____, Spearfish, 28 June 1947 1 f.
Lyman Co., Kennebec, 26 May 1947 1 f, 7
July 1947 1 f, 8 July 1947 1 f 4 m,
17 July 1947 6 f 4 m.
_____, Presho, 27 June 1947 1 f.

Additional records:

North Dakota, Medora, 26 August 1947
2 specimens
Montana, Placid Lake, 8 August 1947
1 f.

South Dakota ----- 26
North Dakota ----- 2
Montana ----- 1
Total Collection - 29

Parabolocetratus major Osborn, 1915a:110
Type locality: Maine



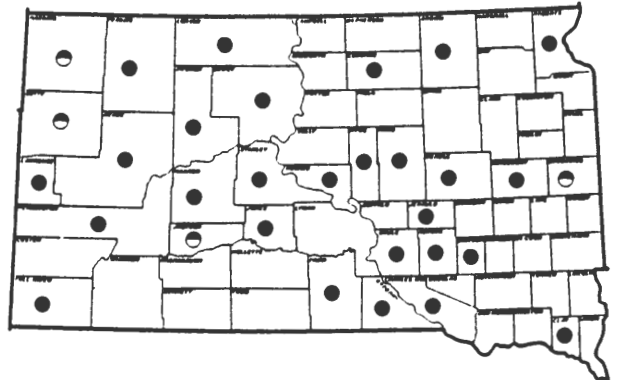
Ecological habitat: Collected in association
with sedges in South Dakota.

Records:

Brookings Co., Brookings, 16 June 1919
1 f, 1 August 1922 1 f, 7 August
1922 2 f 4 m.
Jackson Co., Interior, 28 August 1922
1 f 2 m.

South Dakota ----- 11
Total Collection - 11

Parabolocetratus viridis (Uhler) 1877a:462
Type locality: Colorado



Records:

Aurora Co., Plankinton, 17 June 1947
3 f 2 m.
Beadle Co., Cavour, 7 June 1950 2 f 1 m.
_____, Wolsey, 10 September 1946 1 f.
Brookings Co., Brookings, 23 May, 1921
2 f, 28 May 1922 1 m, 7 June 1919 1 f,
21 June 1943 1 f 2 m, 23 July 1943 3 f
5 m, 24 July 1943 3 f 2 m, 25 July
1943 3 f, 27 July 1943 1 f, 9 August
1921 1 f, 10 August 1921 1 m, 20

August 1942 2 f, 1 August 1943 1 f, 5 August 1943 1 f, 11 August 1945 1 f, 2 August 1948 1 f 1 m, 7 September 1950 1 f, 1 October 1943 1 f.
 _____, Lake Hendricks, 12 July 1922 1 f.
 _____, White, 26 July 1922 1 m.
 Brown Co., Hecla, 17 June 1943 2 f, 7 September 1948 3 f 6 m.
 Brule Co., Chamberlain, 26 May 1947 1 f, 5 June 1947 11 f 11 m, 17 June 1947 2 f 4 m.
 _____, Kimball 17 June 1947 2 f, 28 June 1947 1 f.
 Butte Co., Castle Rock, 19 July 1928 1 f.
 _____, Newell, 27 May 1951 3 f 4 m, 28 June 1923 1 f 1 m, 26 June 1950 1 f, 21 July 1947 2 f, 31 August 1922 1 f, 2 September 1922 1 f.
 _____, Nisland, 16 August 1950 3 f 2 m.
 Charles Mix Co., Platte, 20 June 1942 1 f.
 Clay Co., Meckling, 14 September 1948 7 f 12 m.
 Corson Co., McLaughlin, 8 September 1948 2 m.
 _____, Walker, 8 September 1948 2 f.
 Davison Co., Mitchell, 13 July 1923 1 f.
 Dewey Co., Cheyenne Agency, 27 June 1947 1 f 1 m.
 _____, Eagle Butte, 6 August 1948 9 f 2 m.
 Edmunds Co., Ipswich, 25 May 1919 1 f.
 Fall River Co., Hot Springs 27 August 1922 2 f.
 Gregory Co., Dallas, 21 July 1950 2 f 1 m.
 Haakon Co., Midland, 23 May 1951 10 f 6 m.
 _____, Philip, 7 August 1948 3 f 1 m.
 Hand Co., Vayland, 7 June 1949 1 f.
 Harding Co., Buffalo, 28 June 1947 3 f 4 m, 27 June 1950 1 f, 6 September 1925 1 f, 10 September 1948 3 f.
 _____, Cave Hills, 22 July 1928 1 m.
 _____, Reva, 8 September 1948 1 f.
 Hughes Co., Canning, 15 July 1945 1 f, 7 August 1948 5 f 1 m, 16 August 1950 15 f 28 m.
 _____, Pierre, 9 June 1951 4 f 2 m, 26 June 1951 1 f 1 m, 17 July 1947 1 f, 25 July 1947 2 m.
 Hyde Co., Highmore, 17 May 1951 2 f 1 m, 9 June 1943 1 f, 1 June 1948 5 f, 23 June 1950 3 f 2 m, 1 August 1946 2 f, 16 August 1946 2 m, 14 August 1949 1 f, 1 September 1946 1 f.
 Jackson Co., Cottonwood, 9 June 1949 3 f 1 m, 15 June 1949 4 f 2 m, 24 June 1950 5 m, 26 July 1948 6 f 2 m, 21 July 1950 2 m.
 _____, Interior (Badlands), 15 June 1943 1 m, 15 June 1948 2 f; 22 July 1948 1 f 2 m; 28 August 1922 3 m.
 _____, Kadoka, 19 July 1950 3 f 1 m.
 Jerauld Co., Wessington Springs, 11 June 1943 1 f.
 Jones Co., Capa, 1 June 1921 5 f, 8 August 1919 2 f, 29 August 1919 1 f, 30 August 1919 4 m, 12 August 1922 3 f 2 m, 15 August 1922 2 m, 24 August 1922 3 f 2 m, 23 September 1920 1 f 2 m.
 Kingsbury Co., DeSmet, 23 June 1950 10 f

6 m, 28 June 1950 3 m.
 Lawrence Co., Lead, 11 September 1948 1 f.
 Meade Co., Sturgis, 26 May 1951 3 f 3 m.
 Perkins Co., Bison, 10 September 1948 1 f.
 Pennington Co., Wall (Badlands), 26 July 1948 5 f 4 m.
 Roberts Co., Sisseton, 31 July 1919 1 f, 29 August 1921 1 f 1 m, 7 September 1948 2 f.
 Stanley Co., Fort Pierre, 23 May 1951 2 f 2 m, 9 June 1951 1 m, 10 September 1946 1 m.
 Tripp Co., Jordan, 21 July 1950 1 f.
 _____, Winner, 21 June 1950 1 f 1 m, 21 July 1950 1 f 1 m.
 Ziebach Co., Dupree, 25 June 1947 1 f 2 m.

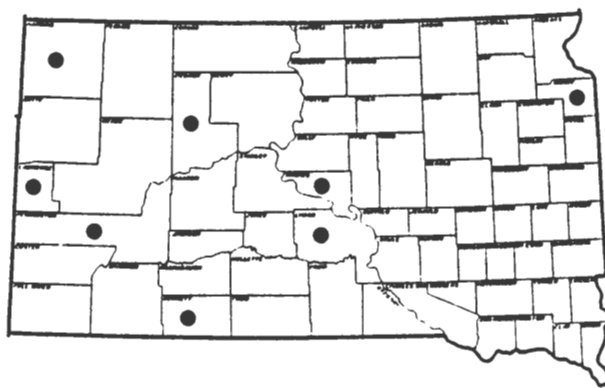
Additional records:

Colorado, Estes Park, 25 August 1920 2 specimens
 Kansas, Marysville, 8 August 1950 1 specimen
 North Dakota, Edgeley, 11 July 1921 1 specimen, 25 July 1921 6 specimens
 _____, Medora, 26 August 1947 1 specimen
 Oklahoma, Texahoma, 1 September 1950 2 specimens
 Canada, Manitoba, Sherridon, 14 August 1949 1 specimen

South Dakota ----- 393
 Colorado ----- 2
 Kansas ----- 1
 North Dakota ----- 7
 Oklahoma ----- 2
 Canada ----- 1
 Total Collection - 406

AGALLIIDAE-Agallinae

Aceratagallia accola Oman, 1933b:57
 Type locality: District of Columbia



Records:

Bennett Co., Martin, 11 September 1948, 1 f.
 Grant Co., Big Stone City, 1 August 1948, 1 f
 Harding Co., Buffalo, 28 June 1948 2 f.
 Hughes Co., Canning, 7 August 1948, 2 f 1 m.

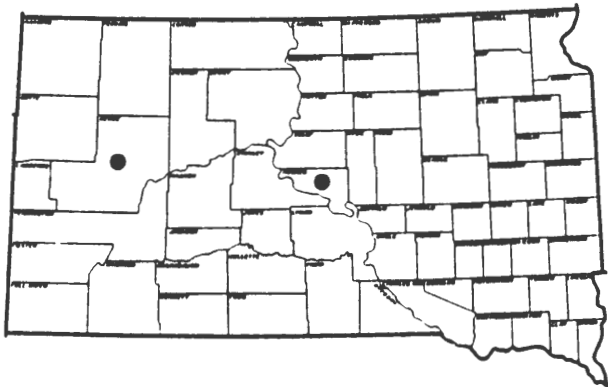
Lawrence Co., Englewood, 26 July 1947 4 f,
27 July 1947, 1 f, 11 September 1948,
1 f.
Lyman Co., Presho, 17 June 1947, 1 f
_____, Kennebec, 8 July 1947 1 f, 17
July 1947 1 m.
Pennington Co., Wall, 26 July 1948 1 f.
Ziebach Co., Dupree 25 June 1947 1 f.

Additional records:

Montana, Placid Lake, 8 August 1947, 5 f
1 m.

South Dakota ----- 18
Montana ----- 6
Total Collection 24

Aceratagallia cinerea (Osborn and Ball),
1898:62
Type locality: Iowa



Records:

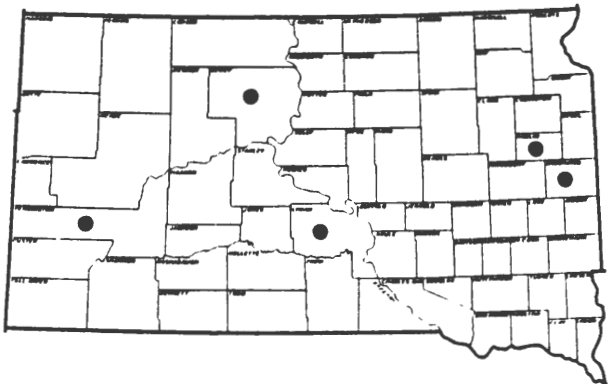
Hughes Co., Pierre, 17 June 1947, 14 f
2 m, 7 June 1951 3 f.
Mead Co., Fox Ridge, 28 June 1947 1 f.

Additional records:

Wyoming, Wamsutter, 24 August 1950
64 specimens

South Dakota ----- 20
Wyoming ----- 64
Total Collection - 84

Aceratagallia fuscscripta Oman, 1933:61
Type locality: Northwestern States



Records:

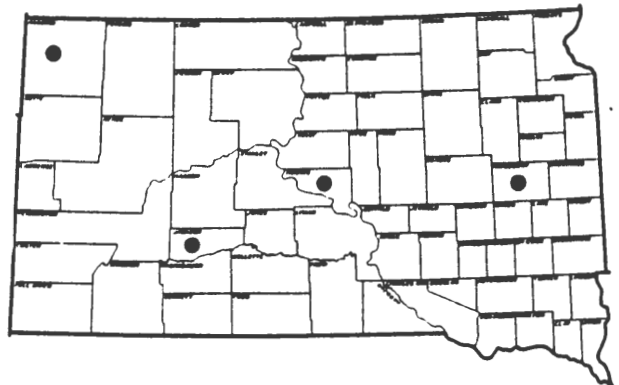
Brookings Co., Brookings, 13 April 1919
1 f, 17 April 1919 1 f 1 m.
Dewey Co., Eagle Butte, 6 August 1948 5 f.
Hamiin Co., Lake Poinsett, September 1948
1 f.
Lyman Co., Kennebec, 17 July 1947 1 f.
Pennington Co., Pactola Lake, September
10 f 8 m..
_____, Wall (Badlands), 26 July 1948
1 f.

Additional records:

Washington, Grand Coulee, 17 August 1947
4 specimens.
Utah, Holliday, 20 August 1949 1 specimen
Alaska, Circle Hot Springs, 4 August 1951
12 specimens.
_____, Mt. McKinley National Park,
30 July 1951 3 specimens.
_____, Matanuska, 1 August 1951
1 specimen.
_____, Fairbanks, 4 August 1951
3 specimens
Canada, Yukon Territory, Carmack, 25
July 1951 1 specimen

South Dakota ---- 29
Utah ----- 1
Washington ----- 4
Alaska ----- 20
Total Collection 54

Aceratagallia robusta Oman, 1933:48
Type locality: Nevada



Records:

Harding Co., Buffalo, 10 September 1948
1 f.
Hughes Co., Pierre, 9 June 1951, 2 f 2 m.
_____, Canning, 16 August 1950, 3 f
1 m.
Jackson Co., Cottonwood, 24 June 1950 1
f.
Kingsbury Co., DeSmet, 23 June 1950 1 f.

Additional records:

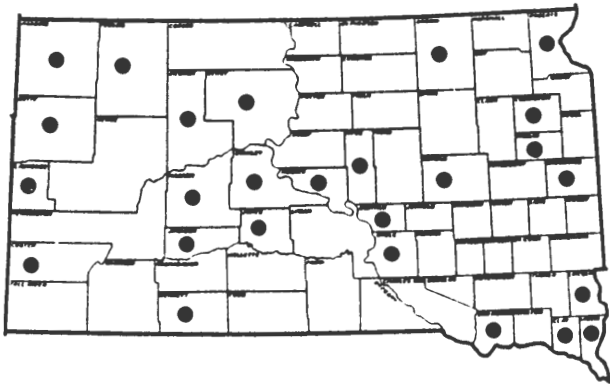
Montana, Bozeman, 5 August 1946 1 f.
Wyoming, Wamsutter, 25 August 1950 1 m.

South Dakota ---- 11
Montana ----- 1
Wyoming ----- 1
Total Collection 13

Aceratagallia sanguinolenta (Provancher),

1372c:376

Type locality: Canada



Ecological habitat: Found most often associated with legumes in South Dakota

Records:

- Beadle Co., Byron, 10 September 1946 1 f.
- Bennett Co., Martin, 11 September 1948 2 f.
- Bon Homme Co., Springfield, 19 August 1927 2 f 3 m.
- Brookings Co., Brookings 5 March 1930 5 f; 17 April 1919 1 f; 17 June 1949 10 f 6 m; 10 July 1946 4 f 6 m; 7 August 1942 1 f; 9 August 1 m; 22 September 1949 1 f 2 m.
- Brown Co., Hecla, 7 September 1948 1 f.
- Brule Co., Chamberlain, 5 June 1947 1 f; 17 June 1947 21 f 10 m; 14 September 1946 1 f 1 m.
- Buffalo Co., Fort Thompson, 27 June 1946 5 m; 28 June 1946 1 f; 21 June 1944 1 f; 18 July 1945 1 f 1 m.
- Butte Co., Newell, 18 July 1923 1 m.
_____, Nisland, 16 August 1950 1 f 2 m.
- Clay Co., Vermillion, 16 August 1946 3 f 1 m; 6 September 1946 6 m.
- Codington Co., Watertown, 15 July 1946 2 f.
- Custer Co., Pringle, 14 September 1930 1 m.
- Dewey Co., Eagle Butte, 6 August 1948 10 m.
- Haakon Co., Midland, 23 May 1951 3 f.
_____, Philip, 7 August 1948 1 m.
- Hamlin Co., Lake Poinsett, 7 September 1948 5 f.
- Harding Co., Buffalo, 18 June 1947 1 f.
- Hughes Co., Blunt, 18 July 1945 1 m.
_____, Pierre 16 July 1952 1 f.
- Hyde Co., Highmore, 14 August 1949 1 f.
- Jackson Co., Kadoka (Badlands), 19 July 1950 10 f 21 m.
- Jones Co., Capa, 30 August 1919 1 f.
- Lawrence Co., Lead, 11 September 1 m.
_____, Englewood, 17 June 1936 1 f;
_____, 18 June 1925 1 f 2 m.
- Lincoln Co., Canton, 26 June 1946 1 m; 28 August 1923 1 m.
- Perkins Co., Lemmon, 8 September 1948 3 f.
_____, Bison, 10 September 1948 1 m.
- Roberts Co., Sisseton, 23 August 1946 1 f 1 m.

- Stanley Co., Fort Pierre 12 September 1946 3 f; 21 September 1920 2 f 3 m.
- Union Co., Elk Point, 26 June 1946 1 f; 27 June 1946 1 f.
- Ziebach Co., Dupree, 25 June 1947 3 f 7 m.

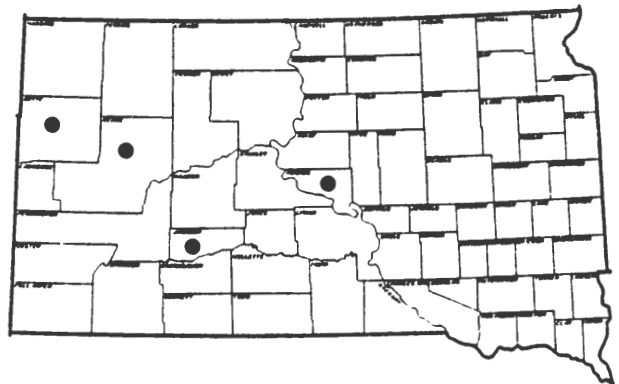
Additional records:

- Colorado, Rocky Mt. Natl. Park, Cascade Lodge, 2 August 1 specimen.
- Montana, Placid Lake, 8 August 1947 2 specimens.
- _____, MacDonald Pass, 6 August 1947 1 specimen.
- Utah, Bryce Natl. Park, 30 August 1950 6 specimens.
- Wyoming, Wamsutter, 25 August 1950 4 specimens.
- Alaska, Circle Hot Springs, 4 August 1951 12 specimens.
- _____, Fairbanks, 4 August 1951 3 specimens.
- _____, Matanuska, 1 August 1951 1 specimen.
- _____, Mt. McKinley Natl. Park, 30 July 1951 3 specimens.
- Canada, British Columbia, 19 August 1947 1 specimen.
- _____, Yukon Territory, Carmacks, 25 July 1951 1 specimen.

| | |
|-------------------|-----|
| South Dakota ---- | 181 |
| Colorado ----- | 1 |
| Montana ----- | 3 |
| Utah ----- | 6 |
| Wyoming ----- | 4 |
| Alaska ----- | 19 |
| Canada ----- | 4 |
| Total Collection | 216 |

Remarks: This is the well known clover leafhopper. This species can cause feeding injury on legumes and often found on many economic crops.

Aceratagallia texana Oman, 1933b:51
Type locality: Texas

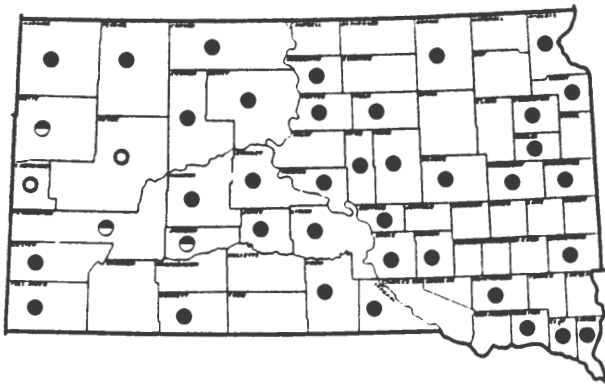


Records:

- Butte Co., Nisland, 16 August 1950 10 f 8 m.
- Hughes Co., Canning, 16 August 1950 4 m.
- Jackson Co., Kadoka, 19 July 1950 5 f.
- Meade Co., Sturgis, 26 May 1950 1 f.

| | |
|-------------------|----|
| South Dakota ---- | 30 |
| Total Collection | 30 |

Aceratagallia uhleri (Van Duzee), 1894 b:91
 Type Locality: Colorado



Ecological habitat: Common in meadows and wet lowland areas, also occurs in open rangeland and prairies in both Eastern and Western South Dakota.

Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
 _____, White Lake, 27 June 1946 1 f.
 Beadle Co., Byron, 10 September 1946 1 f.
 Bennett Co., Martin, 11 September 1948 1 m.
 Brookings Co., Brookings, 21 June 1943, 1 f; 25 June 1946 1 m; 24 July 1914 1 f; 7 July 1928 1 f 1 m; 8 July 1946 4 f 4 m; 17 July 1946 1 m; 15 July 1950 2 f; 13 August 1928 13 f; 21 August 1928 1 f; 6 September 1920 3 m; 7 September 1920 1 f; 8 September 4 f; 9 September 1920 4 f 5 m; 10 September 1920 1 f; 21 September 1950 2 m; 29 September 1946 1 f; 15 October 1920 1 f 3 m; 12 October 1938 1 m.
 Brown Co., Hecla, 7 September 1948 1 f 2 m.
 Brule Co., Kimball, 17 June 1947 1 f.
 _____, Chamberlain, 5 June 1947 5 m; 17 June 1947 5 f 3 m; 17 July 1947 1 f 3 m.
 Buffalo Co., Fort Thompson, 27 June 1946 6 f 5 m; 28 June 1946 1 f 2 m; 18 September 1946 1 f.
 Butte Co., Belle Fourche, 27 June 1947 4 f.
 _____, Nisland, 21 June 1926 2 f 4 m; 21 July 1947 1 f; 16 August 1950 12 f 6 m.
 _____, Newell, 27 May 1951 1 m; 26 June 1950 3 f; 18 June 1923 1 f; 21 July 1947 3 f; 24 July 1947 2 f.
 Clay Co., Mecking, 26 August 1926 2 f; 14 September 1948 1 m.
 _____, Vermillion, 11 June 1921 1 m; 22 June 1946 2 f; 26 June 1921 1 f 2 m; 28 June 1946 1 f; 6 July 1946 1 f 1 m; 16 July 1946 2 f 1 m; 6 September 1946 1 f; 8 September 4 f; 1 October 1946 1 f 3 m.
 Codington Co., Henry, 22 June 1946 3 f 2 m.
 _____, Watertown, 27 June 1946 1 f; 15 July 1946 1 f 1 m; 22 August 1946 2 f.
 Corson Co., Walker, 8 September 1948 5 f 4 m.

Custer Co., Pringle, 14 September 1930 1 f.
 Dewey Co., Eagle Butte, 22 June 1927 1 f 4 m; 6 August 1948 4 f 4 m.
 Fall River Co., Hot Springs, 11 September 1948 1 f; 17 September 1 m.
 _____, Oelrichs, 22 June 1930 1 m.
 Faulk Co., 20 July 1918 2 f.
 Grant Co., Big Stone City, 23 August 1948 1 f.
 Gregory Co., Bonesteel, 13 September 1 f 4 m.
 _____, Dallas 21 July 1950 3 f 2 m.
 Haakon Co., Philip, 10 August 1948 6 f 4 m.
 Hamlin Co., Lake Poinsett, 7 September 1948 1 f.
 Hand Co., Ree Heights, 18 September 1946 8 f 10 m.
 Harding Co., Buffalo, 27 June 1947 1 f; 28 June 1947 13 f 8 m; 27 June 1950 2 f; 10 September 1948 4 m.
 _____, Reva Alkali Flats, 8 September 1948 7 m.
 Hughes Co., Canning, 7 August 1948 2 f; 16 August 1950 1 f 1 m.
 _____, Pierre, 22 July 1947 1 f; 25 July 1947 2 f 3 m; 1 September 1921 1 f; 11 September 1921 1 f 2 m.
 Hutchinson Co., Freeman, 27 June 1946 1 m.
 Hyde Co., Highmore, 1 June 1948 10 f 6 m.
 Jackson Co., Interior (Badlands), 22 June 1928 2 f; 15 June 1948 15 f 19 m.
 _____, Cottonwood (Badlands) 2 June 1948 10 f 2 m; 9 June 1949 3 f; 15 June 1949 2 m; 24 June 1950 4 f 3 m; 26 July 1948 21 f 17 m; 12 July 1950 2 f; 21 July 1950 3 f.
 _____, Kadoka, 19 July 1950 10 f 7 m.
 Jones Co., Capa, 1 June 1921 20 f. 3 m.
 12 August 1919 1 f; 30 August 1919 2 f; 12 August 1922 1 f; 20 August 1922 1 m; 24 August 1922 1 f; 23 September 1920 1 f 2 m.
 Kingsbury Co., DeSmet, 23 June 1950 3 f.
 Lawrence Co., Englewood, 18 June 1925 2 f; 5 June 1947 3 f 2 m; 17 June 1947 2 f 6 m; 26 July 1947 5 f; 27 July 1947 1 f 5 m; 21 August 1933 1 f; 11 September 1948 6 m.
 _____, Lead, 23 July 1947 3 f 3 m; 11 September 1948 5 f 3 m.
 _____, Spearfish, 28 June 1947 21 f 17 m.
 _____, Tinton, 26 July 1947 1 f 5 m.
 _____, Whitewood, 10 September 1923 1 f.
 Lyman Co., Presho, 17 June 1947 6 f; 27 June 1947 2 f 3 m.
 Meade Co., Cedar Canyon, 22 June 1927 1 f 2 m; 27 June 1947 1 f.
 _____, Edson, 27 June 1947 2 f 3 m.
 _____, Faith, 28 June 1947 1 m.
 _____, Fox Ridge, 22 June 1927 2 f; 28 June 1947 3 f 4 m.
 _____, Sturgis, 21 July 1947 1 f.
 Minnehaha Co., 7 July 1973 1 f.
 Pennington Co., Pactola, 10 September 1948 6 f.
 _____, Rapid City, 24 June 1923 2 m.
 _____, Wall (Badlands), 21 July 1947 3 f 2 m; 26 July 1948 8 f 4 m.
 Perkins Co., Bison, 25 August 1924 2 m; 10 September 1948 2 f 4 m.
 _____, Lemmon, 8 September 1948 5 f 2 m.

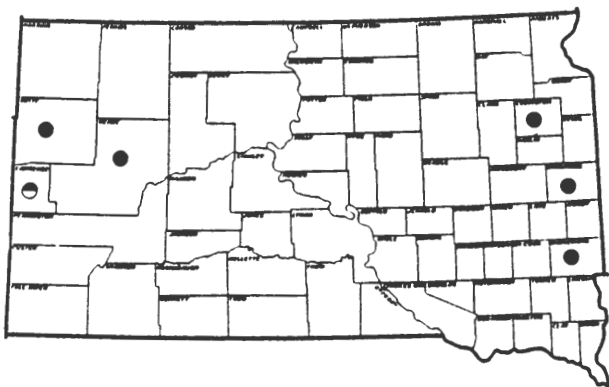
Potter Co., Gettysburg, 27 June 1947 3 f.
 Roberts Co., Sisseton, 29 August 1921 1 f; 23 August 1946 1 f 3 m.
 Stanley Co., Fort Pierre, 6 August 1948 8 f 8 m, 20 September 1920 1 f; 21 September 5 f 4 m; 11 September 1946 10 f 1 m; 12 September 1946 2 f.
 Tripp Co., Winner, 21 July 1950 2 f 2 m; 12 September 1940 1 f.
 Union Co., Elk Point, 12 June 1925 1 f; 18 June 1946 1 f; 10 July 1946 1 f, 15 September 1925 1 m; 14 September 1948 1 f.
 Walworth Co., Selby, 5 September 1925 1 f.
 Yankton Co., Yankton, 11 June 1974 1 f, 8 August 1973 1 f 1 m.
 Ziebach Co., Dupree, 25 June 1947 2 f 2 m.

Additional records:

California, Wood Lake, 11 September 1949 1 specimen.
 Iowa, LeMars, 8 September 1948 4 specimens.
 Kansas, Kinsley, 1 September 1950 1 specimen.
 New Mexico, Logan, 28 August 1950 7 specimens.
 North Dakota, Medora, 26 August 1947 2 specimens.
 Oklahoma, Texahoma, 1 September 1950 7 specimens.
 Wyoming, Wamsutter, 25 August 1950 1 specimen.

South Dakota ---- 649
 California ----- 1
 Iowa ----- 4
 Kansas ----- 1
 New Mexico ----- 7
 North Dakota ---- 2
 Oklahoma ----- 7
 Wyoming ----- 1
 Total Collection 674

Agallia quadripunctata (Provancher), 1872c:376
 Type locality: Canada



Ecological habitat: This species is found occurring in association with the under story plants and trees along streams, river and lakes in South Dakota.

Records:

Brookings Co., Brookings, 20 May 1910 1 f, 28 May 1921 1 m; 19 June 1921 1 f 2 m; 12 June 1923 2 f; 5 June 1948 1 f.
 _____, Lake Oakwood, 14 June 1923 1 f.

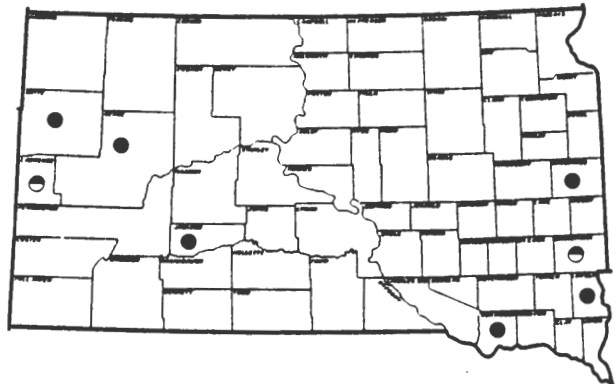
Butte Co., Nisland, 16 August 1950 1 f.
 Codington Co., Watertown, 15 July 1946 1 f.
 Lawrence Co., Deadwood, 13 July 1923 1 m.
 _____, Lead, 23 July 1947 1 f.
 _____, Whitewood, 26 June 1923 1 f; 8 July 1923 1 m.
 Meade Co., Sturgis, 21 July 1947 2 f 1 m, 25 July 1947 1 f 2 m.
 Minnehaha Co., (Near Crooks), 3 June 1974 2 f.

Additional records:

Montana, Bozeman, Gallatin Valley, 4 August 1949 2 f.
 Pennsylvania, Fairview, 22 June 1908 1 m.

South Dakota ---- 22
 Montana ----- 2
 Pennsylvania ---- 1
 Total Collection 28

Agalliopsis novella (Say), 1830b:309
 Type locality: Indiana



Ecological habitat: This species was most often collected when sweeping herbaceous plants in South Dakota.

Records:

Bon Homme Co., Springfield, 16 June 1926 1 f.
 Brookings Co., Brookings, 17 June 1949 1 m.
 _____, White, 28 May 1925 2 f; 25 September 1925 1 m.
 Butte Co., Nisland, 16 August 1950 6 f 5 m.
 Jackson Co., Interior (Badlands), 15 June 1943 1 f.
 Lawrence Co., Englewood, 18 June 1925 1 m; 26 July 1947 1 f 2 m; 27 July 1947 1 f.
 _____, Lead, 23 July 1947 2 f.
 _____, Whitewood, 26 June 1923 2 f; 8 July 1923 1 f 2 m.
 Lincoln Co., Canton, 26 June 1946 3 f 2 m.
 Meade Co., Sturgis, 26 May 1951 7 f 7 m; 21 July 1947 5 f 7 m; 25 July 1947 10 f 9 m.
 Minnehaha Co., Crooks, 13 May 1974 1 f; 3 June 1974 1 f 2 m.
 _____, Renner, 18 June 1974 1 m.
 _____, Sioux Falls, 10 July 1973 1 f 1 m.

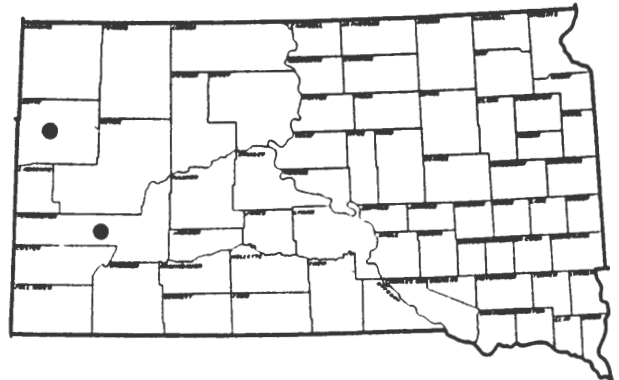
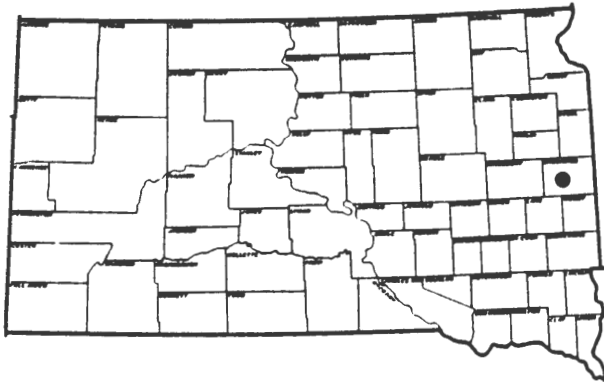
South Dakota ---- 88
Total Collection 88

South Dakota ---- 159
Total Collection 159

MACROPSIDAE-Macropsinae

Macropsis insignis (Van Duzee), 1889a:171
Type Locality: New York

Macropsis gleditschiae (Osborn and Ball),
1898e:67
Type locality: Iowa



Ecological habitat: Collected from Prunus
spp. in South Dakota.

Record:

Brookings Co., Brookings, 2 July 1951
30 f 23 m.

South Dakota ---- 53
Total Collection 53

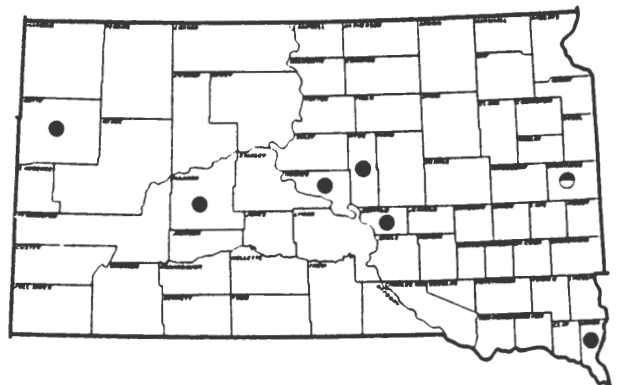
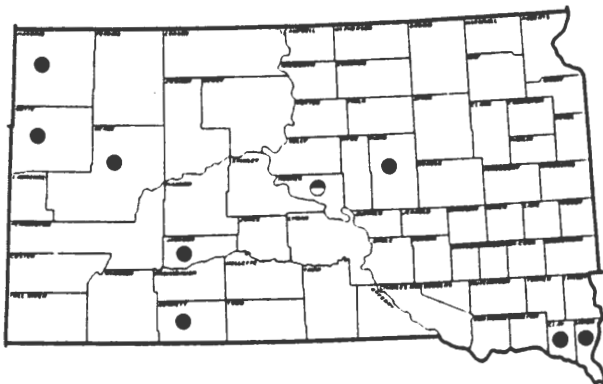
Records:

Butte Co., Nisland, 16 August 1950 6 f 5
m.
Pennington Co., Wall (Badlands) 26 July
1948 2 f.

South Dakota ---- 12
Total Collection 12

Macropsis hesperia Breakey, 1932a:805
Type locality: Idaho

Macropsis trivialis (Ball), 1902e:304
Type locality: Colorado



Records:

Bennett Co., Martin, 16 June 1925 1 f.
Butte Co., Newell, 26 June 1950 8 f 8 m;
28 June 1923 2 m.
Clay Co., White, 26 July 1922 2 f.
Hand Co., Vayland, 7 June 1949 29 f 44 m.
Harding Co., Buffalo, 28 June 1947 2 f.
Hughes Co., Blunt, 18 July 1945 1 f.
_____, Canning, 7 August 1948 1 f.
_____, Pierre, 21 June 1949 10 f 18
m, 23 June 1950 4 f 2 m; 25 July 1950
1 f.
Jackson Co., Interior (Badlands) 15 June
1948 3 f 4 m.
Meade Co., Cedar Canyon, 27 June 1947 13
f 15 m.
Union Co., Beresford, 17 July 1945 1 f.

Ecological habitat: Collected from Willow
in South Dakota

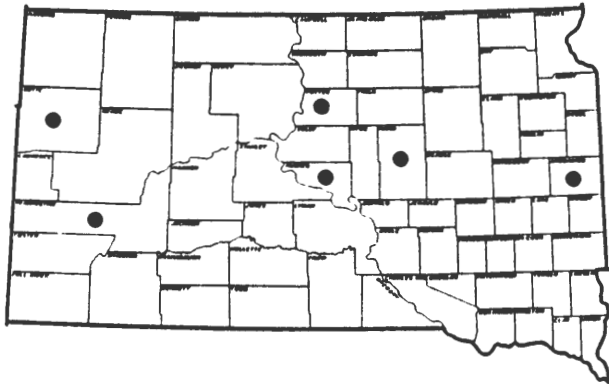
Records:

Brookings Co., Brookings, 4 July 1943 1
f; 25 July 1949 1 f.
_____, Lake Oakwod, 24 July 1921 1 f
m.
_____, White, 26 July 1922 1 f 1 m.
_____, Volga, 19 June 1921 2 f 1 m.
Buffalo Co., Fort Thompson, 18 July 1945
1 f.
Butte Co., Newell, 19 June 1936 1 f.
Haakon Co., Philip, 7 August 1948 6 f 10
m.
Hughes Co., Pierre, 23 June 1950 10 f 3
m.

Hyde Co., Highmore, 12 July 1945 3 f 3 m.
 Union Co., Elk Point, 18 July 1946 2 f.

South Dakota ---- 52
 Total Collection 52

Macropsis viridis (Fitch), 1851a:59
 Type Locality: New York



Ecological habitat: Collected from willow
 in South Dakota.

Records:

Brookings Co., Brookings, 2 July 1951 1 f.
 Butte Co., Nisland, 16 August 1950, 1 f.
 Hand Co., Vayland, 7 June 1949 21 f 45 m.
 Hughes Co., Canning, 7 August 1948 1 f.
 Pennington Co., Wall (Badlands), 26 July 1948 1 f.
 Potter Co., Gettysburg, 26 June 1947 1 f 1 m.

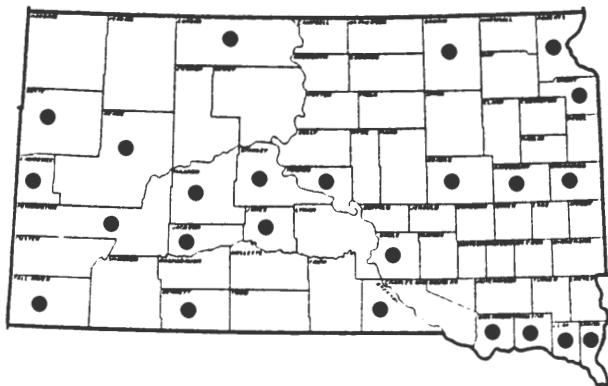
Additional records:

Montana, Bozeman, Gallatin Valley, 4 August 1949 3 f 4 m.

South Dakota ---- 72
 Montana ----- 7
 Total Collection 79

IDIOCERIDAE-Idiocerinae

Idiocerus alternatus Fitch, 1851a:59
 Type Locality: New York



Ecological habitat: Collected from shrubs or shelterbelts in South Dakota. Several records include poplar, willow, and aspen trees.

Records:

Beadle Co., Wolsey, 10 September 1946 13 f 13 m.
 Bennett Co., Martin, 11 September 1948 10 f 11 m.
 Bon Homme Co., Springfield, 13 September 1948 3 f 2 m.
 Brookings Co., Brookings, 9 September 1920 3 f 1 m.
 Brown Co., Hecla, 7 September 1948 2 f.
 Brule Co., Chamberlain, 17 July 1947 3 m.
 Butte Co., Newell, 21 August 1924 1 f, 6 September 1922 1 f.
 Clay Co., Vermillion 18 June 1946 1 f, 14 September 1948 1 f 3 m.
 Corson Co., McLaughlin, 8 September 1948 2 f 1 m.
 _____, Walker, 8 September 1948 1 f.
 Fall River Co., Hot Springs 11 September 1948 1 f.
 Grant Co., Big Stone City, 23 August 1948 1 f.
 Gregory Co., Bonesteel, 13 September 1948 8 f 10 m.
 Haakson Co., Philip, 7 August 1948 4 f 5 m.
 Hughes Co., Canning, 16 August 1950 3 f 1 m.
 _____, Pierre, 17 July 1947 1 f, 21 July 1950 1 f, 11 September 1921 1 f 3 m.
 Jackson Co., Interior, 15 June 1943 4 f 1 m, 28 August 1922 3 f.
 Jones Co., Capa, 12 May 1922 1 f, 14 August 1919 1 f, 24 August 1922 1 m.
 Kingsbury Co., Arlington, 30 July 1921 1 f.
 Lawrence Co., Englewood, 11 September 1948 2 f.
 _____, Lead, 11 September 1948 2 m.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 Pennington Co., Pactola Lake, 10 September 1948 1 f.
 _____, Wall, 26 July 1948 3 f 4 m.
 Roberts Co., Sisseton, 28 August 1946 1 f, 7 September 1948 1 f 1 m.
 Stanley Co., Fort Pierre, 6 August 1948 1 f 2 m; 12 September 1946 3 f; 20 September 1920 3 f 1 m.
 Union Co., Elk Point, 24 June 1926 1 f; 14 September 1948 10 f 5 m.
 Yankton Co., Yankton, 10 June 1924 1 f.

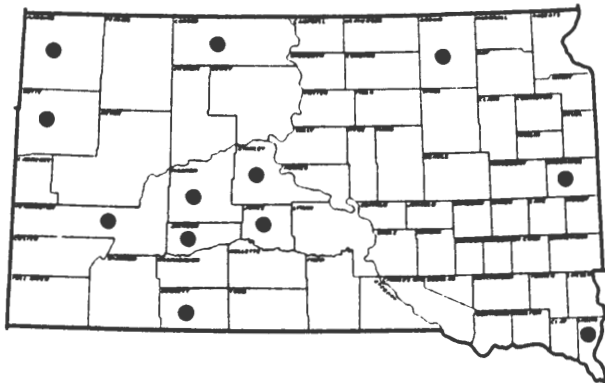
Additional records:

Colorado, Rocky Mt. National Park, 2 August 1931 1 specimen
 Montana, Placid Lake, 8 August 1947 5 specimens.
 Wyoming, Three Forks, 14 August 1949 1 specimen.
 Canada, Yukon Territory, Fort Yukon, 4 August 1951 3 specimens.
 Alaska, Carcross, 7 August 1951 2 specimens.
 _____, Fairbanks, 4 August 1951 21 specimens
 _____, Mantanuska, 1 August 1951 8 specimens
 _____, McKinley National Park, 30 July 1951 6 specimens.

_____, Palmer, 1 August 1951 1 specimen.
 _____, Skagway, 9 August 1951 4 specimens.

South Dakota ---- 178
 Colorado ----- 1
 Montana ----- 5
 Wyoming ----- 1
 Canada ----- 4
 Alaska ----- 44
 Total Collection 233

Idiocerus duzei Provancher, 1889:290
 Type Locality: Quebec

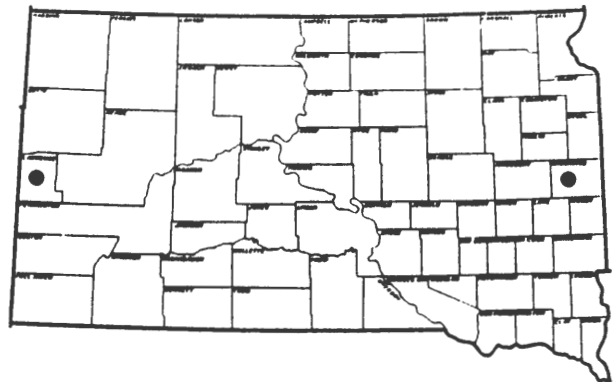


Records:

Bennett Co., Martin, 11 September 1948 1 f.
 Brookings Co., Brookings, 7 July 1942 1 f, 29 July 1942 1 f; 15 July 1943 1 f 1 m; 17 July 1943 2 m; 7 August 1921 1 f; 10 August 1943 1 f 3 m, 14 October 1943 1 f.
 Brown Co., Columbia, 7 September 1948 1 f.
 Butte Co., Newell, 19 July 1923 1 f 3 m; 25 July 1923 1 f; 21 August 1924 4 f 5 m.
 Corson Co., McLaughlin, 8 September 1948 1 f 1 m.
 Clay Co., Vermillion, 28 June 1946 1 f; 4 July 1946 1 f.
 Haakon Co., Philip, 7 August 1948 48 f 47 m.
 Harding Co., Buffalo, 26 August 1924 1 f.
 Jackson Co., Interior (Badlands), 15 June 1943 3 f, 28 August 1922 1 m.
 Jones Co., Capa, 15 August 1922 1 f; 24 August 1933 1 m.
 Pennington Co., Wall (Badlands), 26 July 1943 1 f 1 m; 26 July 1948 1 f.
 Stanley Co., Fort Pierre, 6 August 1922 1 m; 20 September 1920 1 f 1 m, 21 September 1920 1 m.
 Union Co., Elk Point, 23 June 1946 1 f; 24 June 1926 1 f; 1 July 1946 1 f 1 m, 16 July 1946 2 m; 23 July 1946 1 f; 26 July 1946 1 f, 14 September 1948 2 f 4 m.

South Dakota ---- 155
 Total Collection 155

Idiocerus formosus Ball, 1902e:305
 Type Locality: Colorado



Records:

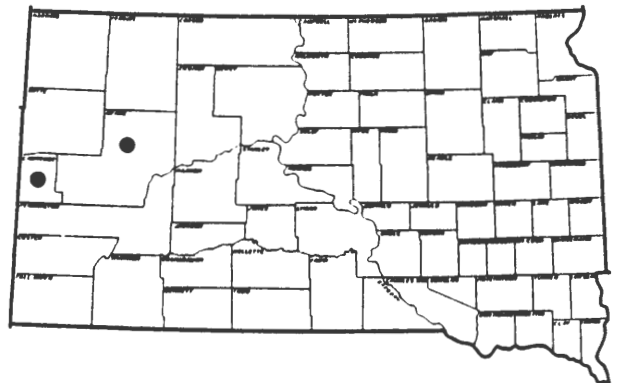
Brookings Co., Brookings, 27 July 1943 1 f.
 Lawrence Co., Englewood, 30 August 1924 1 m.
 _____, Spearfish, 1 August 1944 1 f.

Additional records:

Colorado, Estes Park, 21 August 1920 5 specimens; 24 August 1920 2 specimens; 25 August 1920 1 specimen; 29 August 1920 2 specimens.
 _____, Rocky Mt. National park, 2 August 1931 7 specimens.

South Dakota ---- 3
 Colorado ----- 18
 Total Collection 21

Idiocerus lachrymalis Fitch 1851a:58
 Type Locality: New York



Ecological habitat: Collected in association with poplar in South Dakota.

Records:

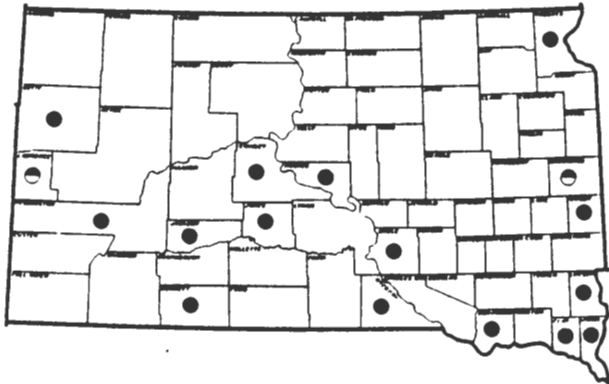
Lawrence Co., Englewood, 20 July 1928 1 f; 26 July 1947 1 f 1 m; 27 July 1947 1 f, 30 August 1924 1 m; 11 September 1948 1 f, 11 September 1949 1 f.
 _____, Lead, 11 September 1948 11 f 7 m.
 Meade Co., Sturgis, 25 July 1947 1 f.

Additional records:

Colorado, Rocky Mt. National Park, 2 August 1931 1 f 2 m.
 Alaska, McKinley National Park, 30 August 1950 8 specimens.

South Dakota ---- 26
 Colorado ----- 3
 Alaska ----- 8
 Total Collection 37

Idiocerus pallidus Fitch, 1851a:59
 Type locality: New York



Ecological habitat: Collected in association with shelterbelts, stream beds, Missouri River and the Black Hills where willow, poplar and ash trees are found in South Dakota.

Records:

Bennett Co., Martin, 11 September 1943 2 f 3 m.
 Bon Homme Co., Springfield, 15 June 1928 1 f.
 Brookings Co., Brookings, 22 July 1945 1 f; 12 July 1946 1 f; 25 July 1949 12 f 13 m; 1 August 1945 1 m; 15 August 1945 1 f; 7 August 1946 14 f 13 m; 9 September 1920 1 f.
 _____, Lake Oakwood, 24 July 1921 3 f 4 m.
 _____, White, 26 July 1922 2 f.
 Brule Co., Chamberlain, 17 July 1947 3 f 2 m; 14 September 1946 2 m.
 Butte Co., Misland, 30 July 1923 2 f 6 m; 16 August 1950 2 f 2 m.
 Clay Co., Vermillion, 28 June 1946 1 f; 8 July 1946 3 f; 27 August 1946 1 f.
 Gregory Co., Bonesteel, 18 September 1948 1 f.
 Hughes Co., Canning, 16 August 1950 1 m.
 Jackson Co., Interior, 28 August 1922 1 f.
 Jones Co., Capa, 27 August 1919 1 f 3 m; 30 August 1919 2 f; 15 August 1922 1 f 1 m; 19 August 1922 1 f; 24 September 1922 1 f.
 Lawrence Co., Lead, 22 September 1948 5 f 4 m.
 _____, Englewood, 30 August 1924 4 f 5 m.
 _____, Spearfish, 10 September 1948 2 f.

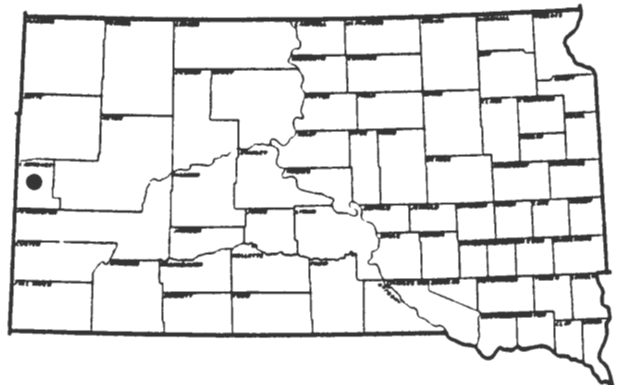
Lincoln Co., Canton, 26 June 1946 1 f.
 Moody Co., Flandreau, 6 August 1919 1 f 2 m.
 Pennington Co., Pactola Lake, 10 September 1948 3 f 2 m.
 _____, Wall, 26 July 1948 5 f.
 Roberts Co., Sisseton, 7 September 1948 15 f 23 m.
 Stanley Co., Fort Pierre, 6 August 1948 4 f.
 Union Co., Beresford, 17 July 1945 1 f.
 _____, Elk Point, 26 June 1946 1 f; 27 June 1946 2 f; 1 July 1946 3 f 5 m; 8 July 1946 6 m; 10 July 1946 3 f 3 m; 16 July 1946 2 f; 23 July 1946 1 f; 27 August 1946 2 f; 14 September 1948 1 f 2 m.

Additional records:

Colorado, Pingree Park, 20 August 1925 1 specimen; 25 August 1925 2 specimens; 26 August 1925 1 specimen.
 _____, Rocky Mt. National Park, 2 August 1931 2 specimens.
 Montana, Placid Lake, 8 August 1947 2 specimens.
 Utah, Holliday, 20 August 1949 12 specimens.

South Dakota ---- 215
 Colorado ----- 6
 Montana ----- 2
 Utah ----- 12
 Total Collection 235

Idiocerus provancheri Van Duzee, 1890a:111
 Type locality: Quebec



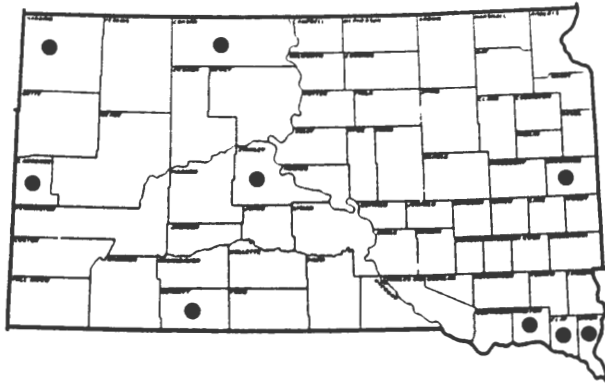
Ecological habitat: Collected from the Black Hills in a meadow where poplars and mountain ash trees were present.

Records:

Lawrence Co., Lead, 11 September 1948 1 f.

South Dakota ---- 1
 Total Collection 1

Idiocerus ramentosus (Uhler), 1877a:465
 Type locality: Colorado



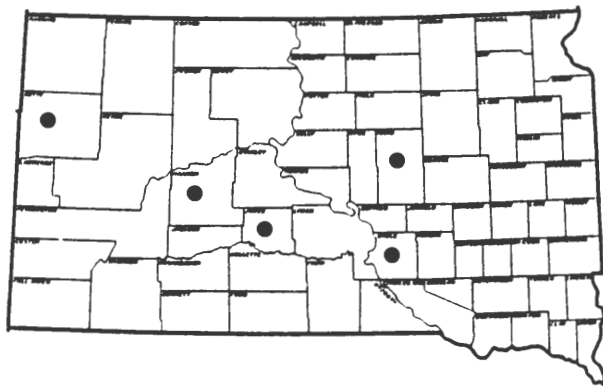
Ecological habitat: Collected associated with willow in South Dakota

Records:

Bennett Co., 15 September 1930 1 f; 11 September 1948 1 f.
 Brookings Co., Brookings, 25 July 1943 1 m; 8 October 1930 1 f.
 Clay Co., Vermillion 20 July 1945 1 f.
 Corson Co., McLaughlin, 8 September 1948 1 f.
 Harding Co., Buffalo, 26 August 1924 1 m.
 Lawrence Co., Lead, 11 September 1948 1 f 2 m.
 Stanley Co, Fort Pierre, 20 September 1920 2 f 1 m; 21 September 1920 3 f 2 m.
 Union Co., Elk Point, 8 July 1946 1 f.
 Yankton Co., Yankton, 22 October 1919 2 f 2 m.

South Dakota ---- 23
 Total Collection 23

Idiocerus rotundus Delong and Caldwell, 1937b:162
 Type locality: Wisconsin



Ecological habitat: Collected in South Dakota associated with willow trees.

Records:

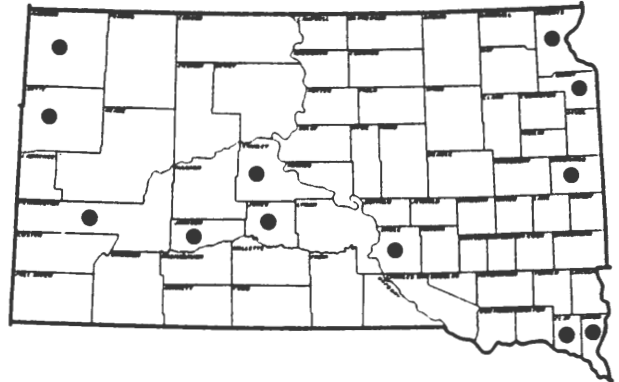
Brule Co., Chamberlain, 17 July 1947 1 f.
 Butte Co., Newell, 26 June 1950 1 f 1 m.
 Haakon Co., Philip, 7 August 1948 1 f.
 Hand Co., Vayland, 7 June 1949 3 f 2 m.
 Jones Co., Capa, 27 August 1919 3 f 4 m.

Additional records:

Utah, Orderville, 27 August 1952 1 specimen.

South Dakota ---- 12
 Utah ----- 1
 Total Collection 13

Idiocerus snow: Gillette and Baker, 1895a:79
 Type locality: Colorado



Records:

Brookings Co., Brookings, 14 July 1919 1 f; 15 July 1919 1 f; 22 July 1919 1 m; 30 July 1919 1 m; 21 July 1920 1 m; 1 July 1921 1 f; 6 July 1921 2 f; 9 July 1921 1 f 1 m; 11 July 1921 1 f: 12 July 1921 1 f; 26 July 1921 1 f 1 m; 6 July 1931 1 f; 15 July 1933 1 m; 23 July 1943 7 f 5 m; 24 July 1943 1 f; 17 July 1946 1 f; 7 August 1921 1 f 1 m; 7 August 1922 2 f 1 m; 9 August 1922 3 f 1 m; 5 August 1942 4 f; 9 September 1920 6 f 8 m; 25 September 1949 3f 10 m.
 _____, Lake Oakwood, 10 July 1921 1 f.
 Brule Co., Chamberlain, 14 September 1946 1 f.
 Butte Co., Newell, 19 July 1923 3 f; 25 July 1923 1 f; 31 August 1922 1 f; 21 August 1924 2 f.
 Clay Co., Vermillion, 28 June 1946 1 f.
 Grant Co., Big Stone City, 23 August 1948 1 f.
 Harding Co., Buffalo, 26 August 1924 1 f 1 m.
 Jackson Co., Interior, 28 August 1922 3 f.
 Jones Co., Capa, 7 August 1919 1 f; 19 August 1919 1 f; 27 August 1919 3 f 4 m; 30 August 1919 1 f; 12 August 1922 3 f; 14 August 1922 1 f; 24 August 1922 2 f 2 m.
 Pennington Co., Wall, 26 July 1948 1 f 3 m.
 Roberts Co., Sisseton, 23 August 1946 4 f 3 m.
 Stanley Co., Fort Pierre, 6 August 1948 2 f.
 Union Co., Beresford, 17 July 1945 8 f 4 m.
 _____, Elk Point, 1 July 1946 1 f; 8 July 1946 1 f 2 m; 10 July 1946 1 f; 16 August 1946 1 f.

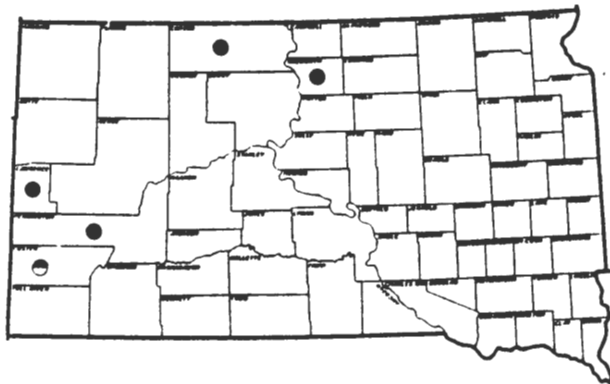
Additional records:

Montana, Bozeman (Spanish Creek) 8 August 1949 1 specimen.

Wyoming, Three Forks, 14 August 1949 10 specimens.

South Dakota ---- 142
 Montana ----- 1
 Wyoming ----- 10
 Total Collection 153

Idiocerus suturalis Fitch, 1851a:59
 Type locality: New York



Records:

Corson Co., McLaughlin, 8 September 1948 2 f.
 Custer Co., Pringle, 14 September 1930 1 f.
 _____, State Game Lodge, 7 September 1923 1 m.
 _____, Sylvan Lake, 1 September 1924 1 f 1 m.
 Lawrence Co., Deadwood, 10 July 1923 5 f 9 m.
 _____, Lead, 12 July 1923 3 f; 23 July 1947 3 f; 11 September 1948 15 f 15 m.
 Pennington Co., Pactola Lake, 10 September 1948 1 f 2 m.
 Walworth Co., Swan Lake, 1 September 1924 1 f.

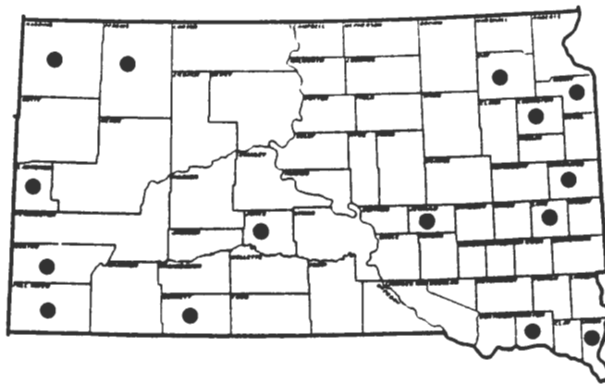
Additional records:

Colorado, Pingree Park, 20 August 1925 2 specimens.
 _____, Rocky Mt. National Park, 2 August 1931 2 specimens.
 Montana, Placid Lake, 8 August 1947 1 specimen.
 Canada, Alberta, 29 July 1946 1 specimen.
 _____, Manitoba, Dolphin, 12 August 1949 9 specimens.
 _____, Sherridon, 14 August 1949 6 specimens.
 Alaska, McKinley National Park, 30 July 1951 1 specimen.

South Dakota ---- 85
 Colorado ----- 4
 Montana ----- 1
 Canada ----- 16
 Alaska ----- 1
 Total Collection 107

GYPONIDAE-Gyponinae

Gypona melanta Spangberg, 1878a:19
 Type locality: New Jersey

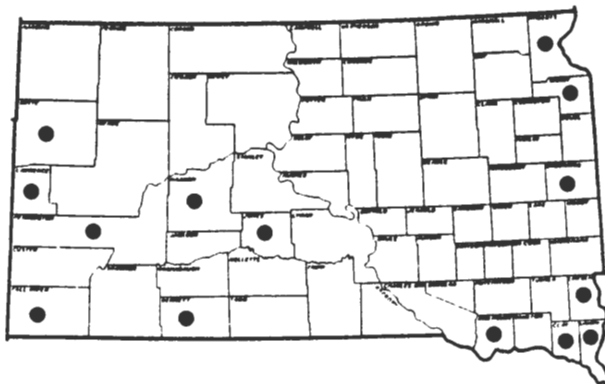


Records:

Bennett Co., Martin, 3 September 1923 4 f 2 m; 12 September 1925 1 f 2 m; 15 September 1930 2 f.
 Brookings Co., White (Warrens Woods), 26 July 1922 2 f; 10 August 1927 1 f; 25 September 1925 1 f.
 Codrington Co., Watertown, 22 August 1946 6 f 8 m.
 Custer Co., State Game Lodge, 6 September 1923 2 f.
 Day Co., Waubay, 29 August 1927 1 f.
 Fall River Co., Hot Springs, 27 August 1922 1 f 3 m.
 Grant Co., Big Stone City, 20 August 1924 1 f.
 Harding Co., Buffalo, 26 August 1924 1 f; 6 September 1925 1 f.
 Jerauld Co., Wessington Springs, 5 August 1924 1 f.
 Jones Co., Capa, 15 August 1922 1 f, 24 August 1922 1 f.
 Lake Co., Wentworth, 1 August 1923 1 f 1 m.
 Lawrence Co., Whitewood, 8 July 1923 1 f; 11 September 1923 3 f 1 m.
 Perkins Co., Bison, 1 August 1923 1 f.
 Union Co., Elk Point, 8 September 1924 2 f.
 Yankton Co., Yankton, 27 September 1923 1 f.

South Dakota ---- 53
 Total Collection 53

Gyponana flavilineata (Fitch) 1851a:57
 Type locality: New York



Records:

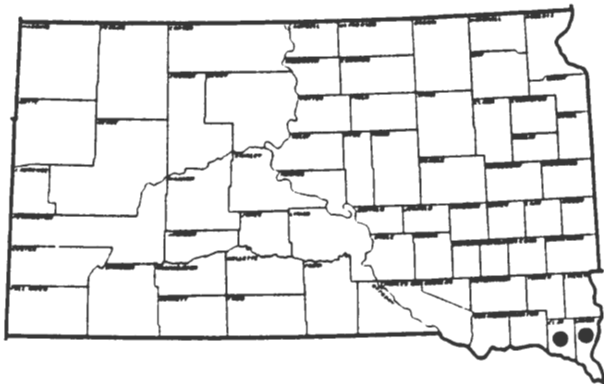
Bennett Co., Martin, 11 September 1948 1 f 1 m.
 Bon Homme Co., Springfield, 13 September 1948 2 f 4 m.
 Brookings Co., Brookings, 11 July 1921 1 f; 6 July 1928 1 f 1 m; 24 July 1943 1 f; 25 July 1943 3 m; 2 August 1922 1 f; 4 August 1922 1 f 1 m; 7 August 1922 1 f; 14 August 1923 1 f; 17 August 1928 1 f; 8 September 1920 1 f; 3 September 1921 1 m; 21 September 1942 1 m; 6 September 1948 1 f.
 Butte Co., 25 July 1923 1 f.
 Clay Co., Vermillion, 13 June 1921 1 f; 18 June 1946 1 f 1 m; 20 July 1945 1 f; 8 July 1946 1 f; 10 July 1946 1 m; 11 July 1946 1 f; 15 July 1946 1 f 1 m; 21 September 1946 1 f 2 m.
 Fall River Co., Hot Springs, 11 September 1948 1 f.
 Grant Co., Big Stone City, 21 August 1948 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Jones Co., Capa, 15 August 1922 1 f 1 m.
 Lawrence Co., Lead, 11 September 1948 3 f 2 m.
 _____, Spearfish, 10 September 1948 3 f.
 Lincoln Co., Canton, 4 September 1946 1 f.
 Pennington Co., Hill City, 22 June 1946 1 f.
 Roberts Co., Sisseton, 7 September 1948 1 f.
 Union Co., Beresford, 17 July 1945 1 f.
 _____, Elk Point, 14 September 1948 1 m.

Additional records:

Iowa, Ames 27 July 1949 1 f.

South Dakota ---- 56
 Iowa ----- 1
 Total Collection 57

Gyponana ortha Delong, 1942c:25
 Type locality: Iowa

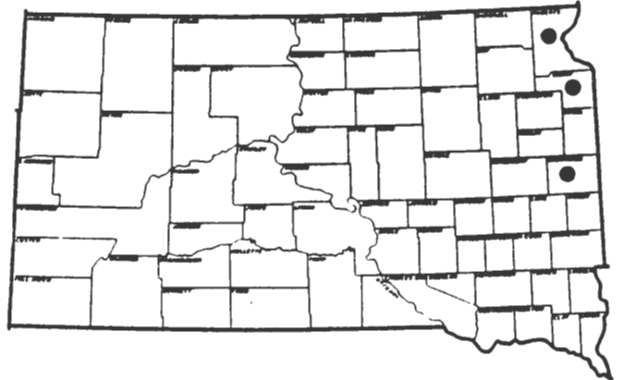


Records:

Clay Co., Vermillion, 20 July 1945 1 f.
 Union Co., Elk Point, 17 June 1946 1 f; 8 July 1946 1 f; 16 August 1946 1 m; 27 August 1946 1 f; 15 September 1946 1 m.

South Dakota ---- 6
 Total Collection 6

Gyponana turbina Delong, 1942c:37
 Type locality: Pennsylvania

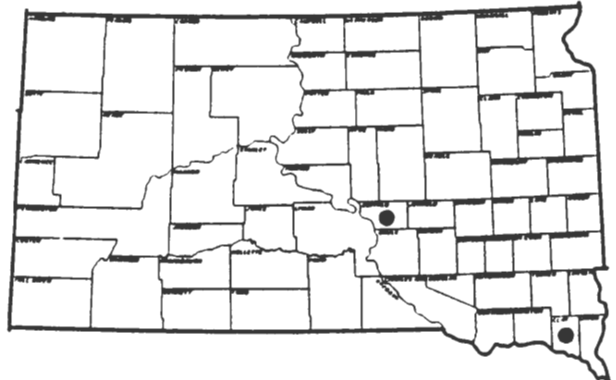


Records:

Brookings Co., Brookings, 26 July 1921 1 m; 10 August 1921 1 f; 13 August 1921 1 f; 4 August 1922 1 f 3 m; 7 August 1922 1 f 1 m; 2 August 1948 1 f; 1 October 1948 1 f.
 Grant Co., Big Stone City, 8 September 1946 1 f 1 m.
 Roberts Co., Sisseton, 23 August 1946 1 f.

South Dakota ---- 12
 Total Collection 12

Gyponana vasta Delong, 1942c:47
 Type locality: Pennsylvania

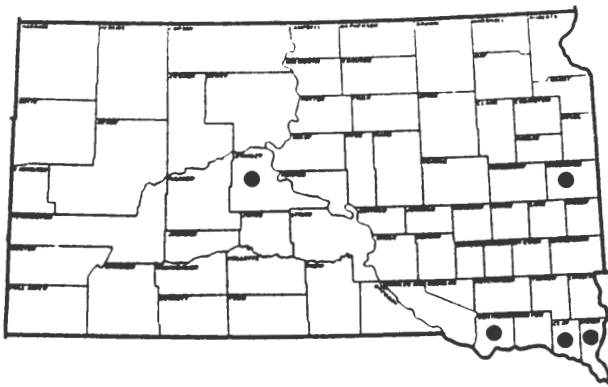


Records:

Clay Co., Vermillion, 8 July 1946 1 f; 13 July 1946 1 f; 18 July 1946 1 f 1 m; 16 August 1946 1 f.
 Buffalo Co., Fort Thompson, 28 June 1946 1 f.

South Dakota ---- 6
 Total Collection 6

Ponana quadralaba Delong, 1942c:98
 Type locality: Tennessee

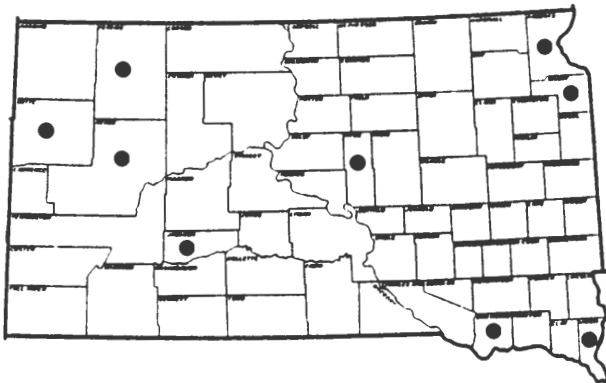


Records:

Bon Homme Co., Springfield, 19 August 1927 1 f.
 Brookings Co., Brookings 10 August 1943 1 f; 5 August 1944 1 f; 17 August 1945 1 m.
 _____, White, 25 September 1925 1 f.
 Clay Co., Vermillion, 20 July 1945 1 f; 30 July 1945 1 m; 17 July 1946 1 f; 12 August 1945 1 f; 19 August 1945 1 f 2 m; 6 August 1946 1 f 1 m; 16 August 1946 3 m; 21 August 1946 1 f 1 m; 14 September 1945 1 f.
 Stanley Co., Fort Thompson, 27 July 1943 1 f.
 Union Co., Elk Point, 28 July 1946 1 f; 6 August 1946 1 f.

South Dakota ---- 24
 Total Collection 24

Prairiana cinerea (Uhler), 1977a:460
 Type Locality: Colorado



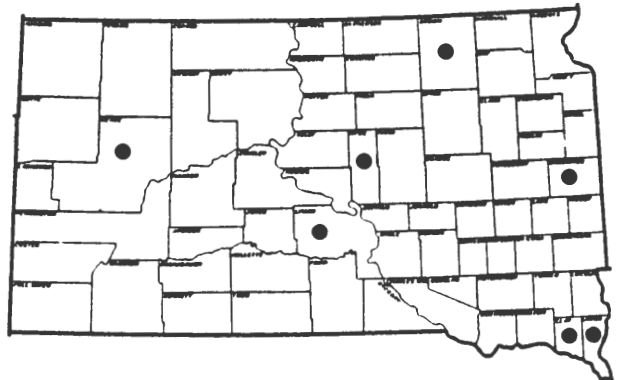
Records:

Bon Homme Co., Tabor, 4 June 1953 1 f.
 Butte Co., Newell, 17 June 1952 1 f 1 m.
 Grant Co., Marvin, 25 June 1953 1 f.
 Hyde Co., Highmore, 2 June 1954 1 f, 22 June 1954 1 f.
 Jackson Co., Cottonwood, 5 June 1953 1 m.
 Meade Co., Sturgis, 22 June 1954 1 f 3 m.
 Perkins Co., Bison, 2 June 1955 1 f.
 Roberts Co., Sica Hollow, 10 June 1954 1 f.
 Union Co., Elk Point, 3 June 1953 1 f.

South Dakota ---- 14
 Total Collection 14

EUSCELIDAE-Xestocephalinae

Xestocephalus pulicarius Van Duzee, 1894f:215
 Type locality: New York

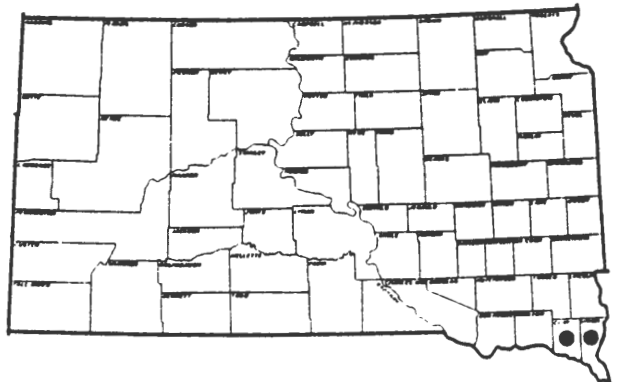


Records:

Brookings Co., Brookings, 7 June 1946 1 f; 26 July 1919 1 f; 27 July 1943 1 f 2 m; 20 August 1942 3 m; 5 August 1943 2 f 2 m; 10 August 1943 1 f; 30 August 1943 1 f; 5 August 1944 2 f; 1 m; 11 August 1945 1 f 1 m; 18 August 1945 1 f; 27 August 1945 1 f; 1 August 1946 1 f 2 m.
 Brown Co., Hecla, 2 August 1944 20 f 11 m.
 Clay Co., Vermillion, 22 July 1945 1 f; 24 July 1945 1 f; 16 July 1946 1 f.
 Hyde Co., Highmore, 1 August 1946 5 f 3 m; 6 August 1946 2 f; 1 September 1946 1 f.
 Lyman Co., Kennebec, 7 July 1947 1 f.
 Meade Co., Sturgis, 25 July 1947 1 f.
 Union Co., Elk Point, 8 August 1945 1 f; 1 August 1946 1 f; 6 August 1946 1 f; 16 August 1946 1 f 1 m.

South Dakota ---- 76
 Total Collection 76

Xestocephalus superbus (Provancher) 1890b:339
 Type locality: Quebec



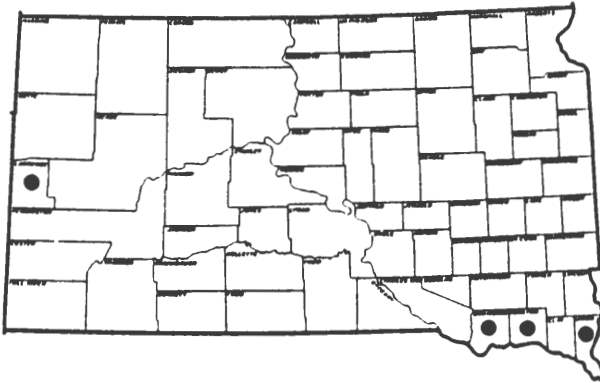
Records:

Clay Co., Vermillion, 22 July 1945 1 f; 30 July 1945 1 f; 15 July 1946 1 f; 16 July 1946 1 f 2 m; 17 July 1946 4 m; 18 July 1946 1 f; 28 July 1946 1 f 1 m; 6 August 1945 3 f 5 m; 9 August 1945 4 f 3 m; 10 August 1945 2 f; 11 August 1945 1 f; 29 August 1945 1 f; 16 August 1946 2 m; 17 August 1946 1 f.
 Union Co., Elk Point, 1 August 1946 1 f.

South Dakota ---- 37
 Total Collection 37

COELIDIIDAE-Coelidiinae

Coelidia olitoria (Say), 1930b:310
 Type locality: Pennsylvania



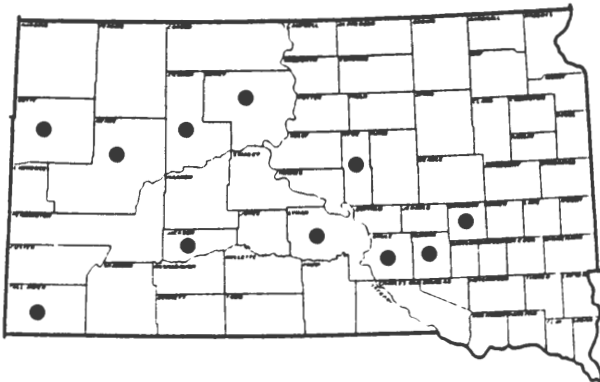
Records:

Bon Homme Co., Springfield, 13 September 1948 1 f 2 m.
 Lawrence Co., Spearfish, 10 September 1948 1 f.
 Union Co., Elk Point, 25 August 1926 1 f; 14 September 1948 1 f 1 m.
 Yankton Co., Volin, 29 August 1925 1 f.
 _____, Yankton, 18 August 1927 2 f 2 m.

South Dakota ---- 12
 Total Collection 12

COELIDIIDAE-Neocoelidinae

Neocoelidia tumidifrons Gillette and Baker, 1895a:104
 Type locality: Colorado



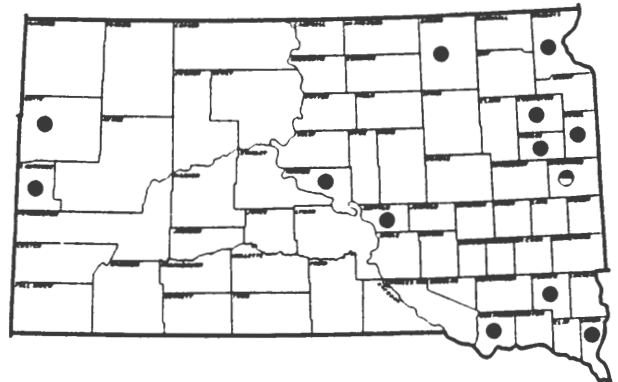
Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
 _____, White Lake, 27 June 1946 1 f.
 Brule Co., Chamberlain, 5 June 1947 2 f 4 m; 17 June 1947 1 f.
 Butte Co., Newell, 27 June 1952 1 f.
 Dewey Co., Eagle Butte, 22 June 1927 1 f.
 Fall River Co., Hot Springs, 27 June 1924 1 f.
 Hyde Co., Highmore, 16 June 1952 1 f 3 m.
 Jackson Co., Cottonwood, 5 June 1953 1 f.
 Lyman Co., Kennebec, 8 July 1947 1 f.
 Meade Co., Fox Ridge, 28 June 1947 1 f 1 m.
 Sanborn Co., Forestburg, 28 May 1954 1 f.
 Ziebach Co., Dupree, 11 July 1952 1 f.

South Dakota ---- 24
 Total Collection 24

CICADELLIDAE-Cicadellinae

Draeculacephala angulifera (Walker), 1851b:771
 Type locality: Newfoundland



Records:

Bon Homme Co., Springfield, 21 June 1924 1 f.
 Brookings Co., Brookings, 27 June 1921 1 f; 28 June 1921 1 f; 25 July 1919 1 m; 26 July 1919 1 f; 1 July 1921 1 f; 5 July 1921 1 f; 6 July 1921 1 f 1 m; 7 July 1921 1 f 2 m; 8 July 1921 2 f; 9 July 1921 1 f; 11 July 1921 1 m; 22 July 1922 4 f 5 m; 23 July 1943 3 f 2 m; 24 July 1943 2 m; 25 July 1943 5 f; 27 July 1943 2 f 2 m; 20 July 1944 2 f; 10 July 1946 1 f 1 m; 17 July 1946 1 f; 25 July 1950 4 f; 9 August 1904 1 f; 7 August 1921 2 f; 9 August 1921 1 f; 13 August 1921 1 f; 7 August 1922 5 f 5 m; 1 August 1945 3 f 2 m; 6 August 4 f 1 m; 11 August 1945 3 f; 7 September 1950 1 f 1 m; 15 October 1920 2 m; 8 October 1930 2 m.
 _____, Lake Hendricks, 12 July 1922 1 f; 12 July 1923 1 f 2 m.
 _____, White, 1 July 1925 1 f.
 Brown Co., Hecla, 26 July 1952 159 f 42 m.
 Buffalo Co., Fort Thompson, 1 September 1943 1 m.
 Butte Co., Nisland, 21 July 1941 4 f 6 m.
 Codington Co., Watertown, 22 August 1946 3 f.

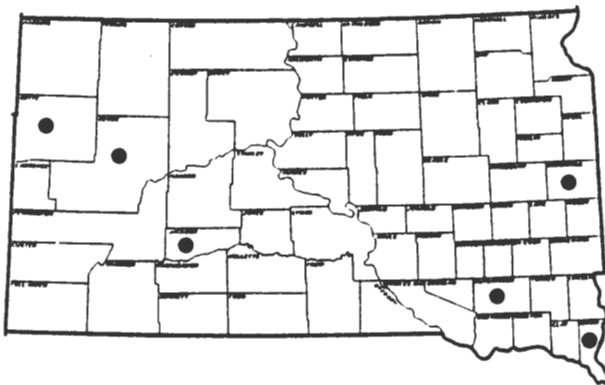
Deuel Co., Clear Lake, 6 July 1930 1 f.
 Hamlin Co., Lake Poinsett, 7 September
 1948 1 m.
 Hughes Co., Canning, 16 August 1950 1 m.
 Lawrence Co., Englewood, 30 August 1924 2
 f.
 _____, Deadwood, 9 September 1925 1 m.
 Roberts Co., Sisseton, 7 September 1948 1
 m.
 Turner Co., Centerville, 2 August 1950 1
 f.
 Union Co., Elk Point, 30 July 1945 2 f 2
 m.

Additional records:

Colorado, Estes Park, 25 August 1920, 37
 specimens.
 _____, Gould, 18 August 1941 5 specimens.
 _____, Pingree Park, 20 August 1925
 6 specimens.
 _____, Rocky Mt. National Park, 2
 August 1931 3 specimens.
 Minnesota, Arco, 1 July 1911 1 specimen.
 Montana, Placid Lake, 8 August 1947 10
 specimens.
 Canada, Manitoba, Churchill, 18 August
 1949 1 specimen.
 _____, Sherridan, 14 August 55
 specimens.

South Dakota ---- 322
 Colorado ----- 51
 Minnesota ----- 1
 Montana ----- 10
 Canada ----- 56
 Total Collection 440

Draeculacephala antica (Walker) 1851b:771
 Type locality: New York



Records:

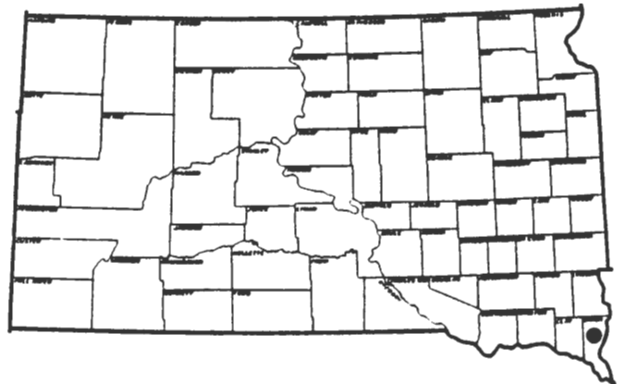
Brookings Co., Brookings 25 July 1950 1
 f.
 Butte Co., Nisland, 16 August 1950 20 f
 15 m; 13 August 1952 4 f 4 m.
 Hutchinson Co., Dimock, 1 September 1954
 2 f.
 Jackson Co., Cottonwood, 17 June 1952 1
 f.
 Meade Co., Sturgis, 17 June 1952 4 f 3 m.
 Union Co., Elk Point, 3 June 1953 5 f; 29
 August 1954 1 m.

Additional records:

Colorado, Roberts, 10 June 1950 3
 specimens.

South Dakota ---- 60
 Colorado ----- 3
 Total Collection 63

Draeculacephala crassicornis Van Duzee 1915b:181
 Type locality: Oregon



Records:

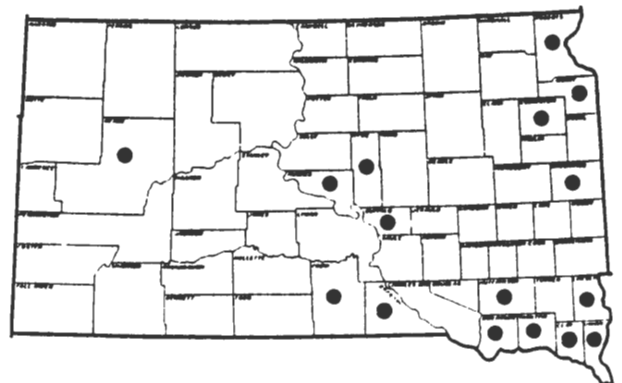
Union Co., Elk Point, 29 August 1954 1 f.

Additional records:

Colorado, Cameron Pass, 18 August 1952
 125 specimens.
 Montana, Glacier National Park, 31 July
 1946 7 specimens.
 _____, Lake Placid, 5 August 1951 1
 specimen.
 Canada, Yukon Territory, Fort Yukon 4
 August 1951 12 specimens.
 Alaska, Circle Hot Springs, 4 August 1951
 2 specimens.
 _____, Fairbanks, 4 August 1951 5
 specimens.
 _____, Mantanuska, 1 August 1951 1
 specimen.
 _____, McKinley National Park 27
 July 1951 14 specimens.

South Dakota ---- 1
 Colorado ----- 125
 Montana ----- 8
 Canada ----- 12
 Alaska ----- 22
 Total Collection 168

Draeculacephala mollipes (Say) 1840b:312
 Type locality: Ohio



Records:

Bon Homme Co., Springfield, 21 June 1924
2 f; 1 September 1954 2 m.
_____, Tabor, 20 June 1924 1 f.
Brookings Co., Brookings, 31 May 1946 1 f
1 m; 16 June 1919 1 f; 1 June 1921 1
f; 21 June 1943 1 f; 7 June 1946 3 m;
1 July 1921 1 f; 4 July 1921 1 m; 5
July 1921 1 f; 6 July 1921 1 f; 27
July 1921 1 m; 22 July 1922 1 f; 12
July 1945 1 f 1 m; 7 August 1921 1 f;
2 August 1941 1 f; 5 August 1942 1 m;
10 August 1943 2 m; 30 August 1943 1 f
2 m; 20 August 1944 1 f 2 m; 4
September 1920 1 f; 1 September 1943 1
f; 21 September 1946 1 f; 29 September
1946 1 f; 7 September 1950 3 f.
_____, Lake Oakwood, 10 July 1921 1
f; 31 July 1921 2 m.
Buffalo Co., Fort Thompson, 1 September
1943 1 f 1 m.
Codington Co., Watertown, 22 August 1946
1 f.
Clay Co., Meckling, 14 September 1948 7 f
9 m.
Grant Co., Big Stone City 17 August 1921
6 f 5 m.
Gregory Co., 7 August 1950 1 f.
Hughes Co., Pierre, 16 June 1952 5 f 2 m.
Hutchinson Co., Dimock, 1 September 1954
2 f.
_____, Freeman, 7 August 1919 3 m.
Hyde Co., Highmore, 23 July 1952 1 f; 1
September 1946 8 f 4 m.
Lincoln Co., Canton, 26 June 1946 1 f; 27
August 1923 1 f; 28 August 1923 1 f; 4
September 1946 1 f 1 m.
Meade Co., Sturgis, 26 May 1951 1 f.
Roberts Co., Sica Hollow, 10 June 1954 1 f.
_____, Sisseton, 17 June 1952 1 f 1
m; 23 August 1946 1 f.
Tripp Co., Winner, 21 July 1950 1 f 1 m.
Union Co., Elk Point, 23 May 1946 2 m; 29
May 1946 1 f; 30 May 1946 1 f; 6 June
1921 1 f; 24 June 1921 3 f 1 m; 24
June 1921 3 f 1 m; 19 June 1924 2 m; 5
June 1946 5 f 3 m; 6 June 1946 5 f 1
m; 12 June 1946 1 f; 17 June 1946 1 f 2
m; 18 June 1946 1 f; 22 June 1946 2 f;
25 June 1946 1 f 2 m; 28 June 1946 1 f;
3 June 1953 2 f 1 m; 30 July 1945 3 f 5
m; 1 July 1946 1 f; 8 July 1946 2 f;
10 July 1946 2 f; 11 July 1946 3 f 2
m; 13 July 1946 1 f; 18 July 1946 1 f;
23 July 1946 2 m; 10 August 1945 2 f;
12 August 1945 3 f 1 m; 13 August 1945
2 f 1 m; 14 August 1945 1 f 1 m; 6
August 1946 10 f 12 m; 11 August 1946
2 f 2 m; 16 August 1946 3 f 2 m; 27
August 1946 4 m; 3 September 1945 9 f
10 m; 11 September 1945 1 f; 21
September 1946 1 f; 14 September 1948
2 f; 1 October 1946 1 f 2 m.
Yankton Co., Yankton 30 August 1923 2 f 2
m.

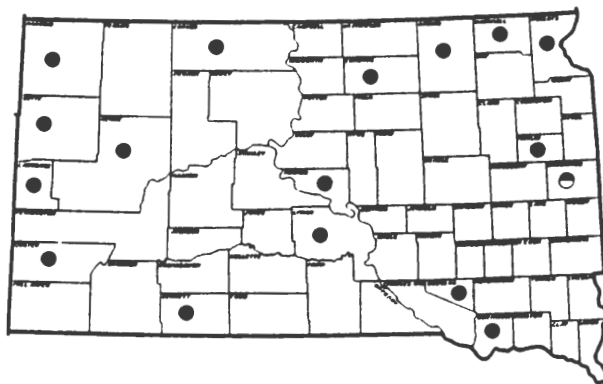
Additional records:

California, Patterson, 14 September 1949
1 specimen.
Iowa Ames, 4 September 1948 1 specimen.
Kansas, Lindsborg, 1 September 1950 1
specimen.
_____, Marysvale, 8 August 1950 9
specimens.
Ohio, Columbus, 1 September 1921 3
specimens.

Utah, Zion Park, 28 August 1950 1
specimen

| | |
|-------------------|-----|
| South Dakota ---- | 255 |
| California ----- | 1 |
| Iowa ----- | 1 |
| Kansas ----- | 10 |
| Ohio ----- | 3 |
| Utah ----- | 1 |
| Total Collection | 271 |

Draeculacephala noveboracensis (Fitch),
1851a:56
Type locality: New York



Records:

Bennett Co., Martin, 11 September 1948 1
f 2 m.
Bon Homme Co., Springfield, 18 September
1948 1 f.
Brookings Co., Brookings, 27 June 1921 2
f; 30 June 1921 1 f; 19 June 1919 1 f;
25 June 1919 1 f; 21 June 1920 1 f 1
m; 6 July 1921 1 f; 8 July 1921 1 f;
11 July 1950 1 m; 25 July 1950 3 f 5
m; 6 August 1943 1 f; 9 September 1920
2 f 2 m.
_____, Lake Oakwood, 26 June 1921 1
f.
_____, White, 26 July 1921 6 f 5 m;
26 July 1922 2 f; 10 August 1927 1 f.
Brown Co., Groton, 8 September 1948 2 f 2
m.
_____, Hecla, 16 July 1944 16 f 5 m.
Butte Co., Nisland, 21 July 1947 11 f; 16
August 1950 1 m.
Corson Co., Walker, 8 September 1948 1 f.
Custer Co., State Game Lodge, 6 September
1923 1 f.
Douglas Co., Armour, 29 July 1954 1 m.
Edmunds Co., Ipswich, 29 July 1919 1 f.
Hamiin Co., Lake Poinsett, 7 September
1948 10 f 2 m.
Harding Co., Buffalo, 22 August 1952 1 f.
Hughes Co., Canning, 7 August 1948 1 m.
Lawrence Co., Englewood, 11 September
1948 1 f 1 m.
Lyman Co., Kennebec, 7 July 1947 1 f.
Marshall Co., Lake City, 2 September 1954
1 m.
Meade Co., Sturgis, 25 July 1947 1 f.
Roberts Co., Sisseton, 7 September 1948
17 f 21 m.

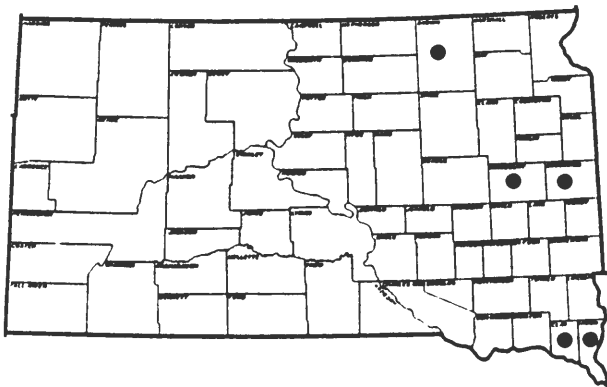
Additional records:

Colorado, Cameron Pass, 18 August 1952 16
specimens.

_____, Pingree Park, 22 August 1953
3 specimens.
Montana, Glacier National Park, 31 July
1946 1 specimen.
_____, Placid Lake, 5 August 1946 16
specimens; 8 August 1947 7 specimens.
Canada, Alberta, Bow Lake, 23 August 1947
6 specimens.
_____, Manitoba, Dolphin, 12 August
1949 11 specimens.
_____, Sherridon, 14 August 1949
35 specimens.
_____, Territory, Fort Yukon, 4 August
1951 8 specimens.
_____, Whitehorse 7 August 1951
2 specimens.
Alaska, Circle Hot Springs, 4 August 1951
45 specimens.
_____, Fairbanks, 4 August 1951 8
specimens.
_____, Matanaska, 1 August 1951 4
specimens.
_____, McKinley National Park, 27 July 1951
1 specimen; 30 July 1951 4 specimens.

South Dakota ---- 141
Colorado ----- 20
Montana ----- 24
Canada ----- 60
Alaska ----- 64
Total Collection 309

Draeculacephala portola Ball, 1927c:35
Type locality: Florida

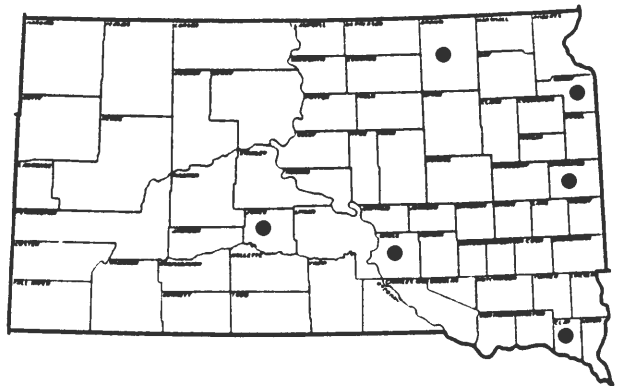


Records:

Brookings Co., Brookings, 27 June 1921 1
f; 24 July 1920 1 f; 4 July 1943 3 f 2
m; 10 July 1943 5 f; 23 July 1943 7 f.
5 m; 24 July 1943 8 m; 27 July 1943 6
f 6 m; 12 July 1945 2 f; 25 July 1945
1 f 1 m; 8 July 1946 2 f 4 m; 10 July
1946 1 f; 1 August 1945 3 f; 6 August
1945 1 f; 9 September 1920 1 f.
Brown Co., Groton, 8 September 1948 9 f 7
m.
_____, Hecla, 4 July 1944 1 f.
Clay Co., Vermillion, 28 June 1946 1 f.
Kingsbury Co., Lake Preston, 22 August
1923 1 f.
Union Co., Beresford, 17 July 1945 1 f.
_____, Elk Point, 17 June 1946 1 f 2
m; 18 June 1946 1 f; 30 July 1945 3 m;
18 July 1955 1 f; 8 August 1945 1 f 1
m.

South Dakota ---- 79
Total Collection 79

Draeculacephala portola paludosa Ball and
China, 1933a:3
Type locality: New York

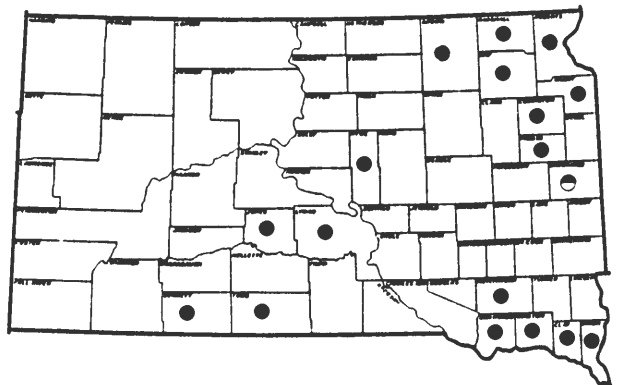


Records:

Brookings Co., Brookings, 21 June 1921 1
f 1 m; 22 June 1921 1 f; 8 July 1920 1
f; 13 July 1920 1 f; 19 July 1920 1 m;
21 July 1920 1 f; 9 August 1921 1 m; 9
September 1920 1 m.
Brown Co., Groton, 8 September 1948 27 f
50 m.
Brule Co., Chamberlain 18 September 1919
1 f.
Clay Co., Vermillion, 6 September 1946 1
f.
Grant Co., Big Stone City, 27 August 1927
1 f.
Jones Co., Capa, 23 September 3 m; 24
September 1920 1 f.

South Dakota ---- 85
Total Collection 85

Draeculacephala producta (Walker) 1851b:72
Type locality: Florida



Records:

Bennett Co., Martin, 11 September 1948 1
f 2 m.
Bon Homme Co., Springfield, 25 August
1944 21 f 10 m.
Brookings Co., Brookings, 27 June 1921 3
f 5 m; 28 June 1921 4 f; 29 June 1921
2 f; 26 June 1943 1 f; 13 July 1920 1
f; 12 July 1945 2 m; 31 August 1921 1
f; 5 August 1944 1 f; 8 September 1920
1 f; 9 September 1920 2 f 2 m; 15

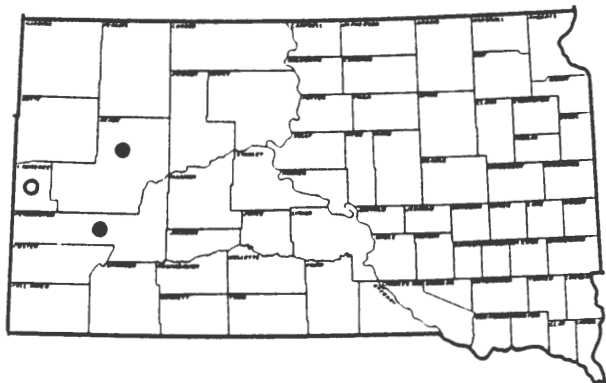
September 1920 1 f 1 m; 20 September 1944 1 f.
 _____, Lake Oakwood, 31 July 1921 4 m.
 _____, Volga, 19 June 1921 1 m.
 Brown Co., Groton, 8 September 1948 2 m.
 _____, Hecla, 25 August 1944 20 f 11 m.
 Clay Co., Vermillion, 20 July 1945 1 f;
 27 July 1946 1 f; 14 August 1945 1 f.
 Codrington Co., Watertown, 22 August 1946
 1 f.
 Day Co., Waubay, 22 June 1936 1 f.
 Grant Co., Big Stone City, 27 August 1921
 3 f 4 m.
 Hamlin Co., Lake Poinsett, 7 September
 1948 3 f 3 m.
 Hutchinson Co., Freeman, 7 August 1919 1
 f.
 Hyde Co., Highmore, 5 September 1945 1 f.
 Jones Co., Capa, 7 August 1919 1 f; 23
 September 1920 1 m.
 Lyman Co., Lyman, 12 September 1945 1 f.
 Marshall Co., Lake City, 2 September 1954
 11 f 11 m.
 Roberts Co., Sisseton, 17 June 1952 3 m;
 7 September 1948 8 f 5 m.
 Todd Co., Rosebud, 14 September 1940 2 f
 2 m.
 Union Co., Elk Point, 17 June 1946 1 f;
 16 July 1946 1 f; 6 August 1946 2 f; 8
 August 1945 1 f; 29 August 1954 3 f 4
 m; 3 September 1945 1 f.
 Yankton Co., Yankton, 27 July 1954 1 f.

Additional records:

Kansas, Marysville, 8 August 1950 1
 specimen.
 Ohio, Columbus, 22 May 1919 1 specimen.

South Dakota ---- 152
 Kansas ----- 1
 Ohio ----- 1
 Total Collection 154

Evacanthus acuminatus (Fabricius) 1794a:36
 Type locality: North America



Ecological habitat: Collected in the Black Hills in moist areas that had moss and fern associations.

Records:

Lawrence Co., Englewood, 20 July 1928 2
 f; 26 July 1947 15 f 11 m; 27 July
 1947 4 m; 30 August 1924 1 f.
 _____, Lead, 23 July 1947 3 f 2 m.
 _____, Pluma, 26 July 1947 1 f.
 _____, Spearfish, 28 June 1947 1 f.

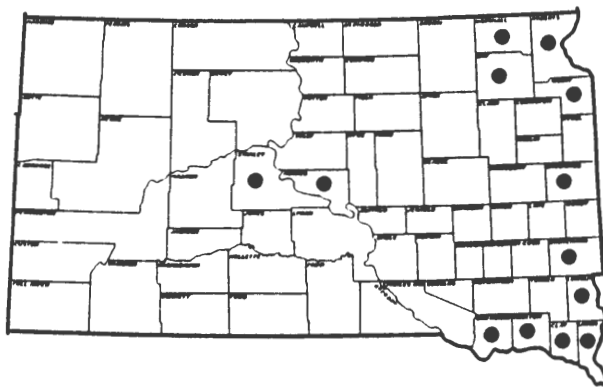
_____, Tinton, 26 July 1947 1 f.
 Meade Co., Sturgis, 25 July 1947 1 f.
 Pennington Co., Sylvan Lake, 1 September
 1924 1 f.

Additional records:

Alaska, Mantanuska, 1 August 1951 6
 specimens.
 _____, Mt. McKinley National Park, 30
 July 1951 1 specimen.
 _____, Skagway, 8 August 1951 37 specimens;
 9 August 1951 42 specimens.

South Dakota ---- 46
 Alaska ----- 86
 Total Collection 132

Graphocephala coccinea (Forster) 1771a:69
 Type locality: North America



Ecological habitat: Collected by sweeping species of the genus Rubus in South Dakota.

Records:

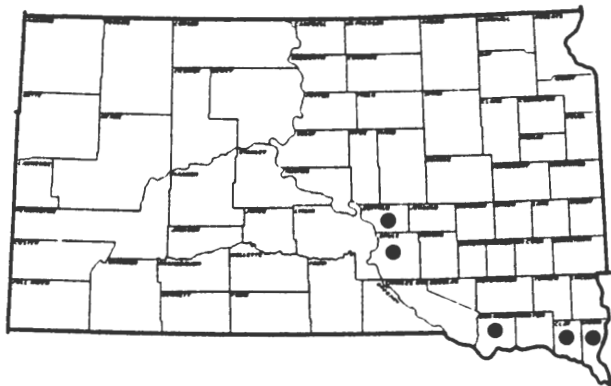
Bon Homme Co., Springfield 13 September
 1948 1 f.
 Brookings Co., Brookings, 7 September
 1929 1 f; 21 September 1946 1 f.
 _____, White, 10 August 1927 1 m.
 Clay Co., Vermillion, 30 July 1945 1 f;
 23 July 1946 1 m; 1 August 1946 1 m; 6
 September 1946 5 f 6 m.
 Day Co., Waubay, 26 July 1924 2 f.
 Grant Co., Big Stone City, 23 August 1948
 6 f 7 m.
 Hughes Co., Canning, 7 August 1948 1 f.
 _____, Pierre, 21 July 1950 1 m.
 Lincoln Co., Canton, 26 June 1946 2 m; 27
 August 1923 3 f; 28 August 1923 1 f; 4
 September 1946 2 m.
 Marshall Co., Lake City, 18 September
 1944 2 m.
 Minnehaha Co., 10 July 1973 1 f.
 Roberts Co., Sisseton, 7 September 1948 1
 f.
 Stanley Co., Fort Pierre, 6 August 1948 1
 f.
 Union Co., Elk Point, 13 June 1926 1 f,
 26 June 1946 2 m; 27 June 1946 1 f; 17
 July 1945 1 f; 16 August 1946 1 m; 14
 September 1948 4 f 4 m.
 Yankton Co., Yankton, 27 August 1923 2 m;
 30 August 1923 1 f 1 m; 8 August 1924
 2 f 1 m.

Additional records:

Iowa, Ames, 27 July 1949 2 specimens.
 New York, Ithaca, 24 June 1906 1 f.
 Pennsylvania, North Cumberid, 27 July
 1927 1 specimen.

South Dakota ---- 69
 Iowa ----- 2
 New York ----- 1
 Pennsylvania ---- 10
 Total Collection 73

Graphocephala confluens (Uhler), 1861b:285
 Type locality: Washington Territory

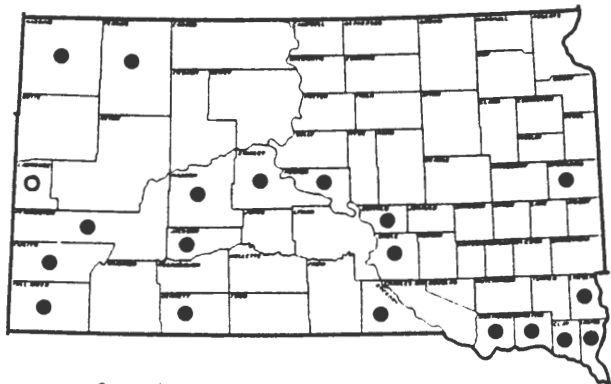


Records:

Bon Homme Co., Springfield, 14 September
 1925 1 f.
 Brule Co., Chamberlain, 14 September 1946
 3 f 2 m.
 Buffalo Co., Fort Thompson, 28 June 1946
 1 f.
 Clay Co., Vermillion, 23 July 1946 1 f 1
 m; 6 August 1946 1 f 1 m; 16 August
 1946 5 f 7 m.
 Union Co., Elk Point, 29 June 1946 1 f.

South Dakota ---- 24
 Total Collection 24

Graphocephala hieroglyphica (Say), 1803b:313
 Type locality: United States



Records:

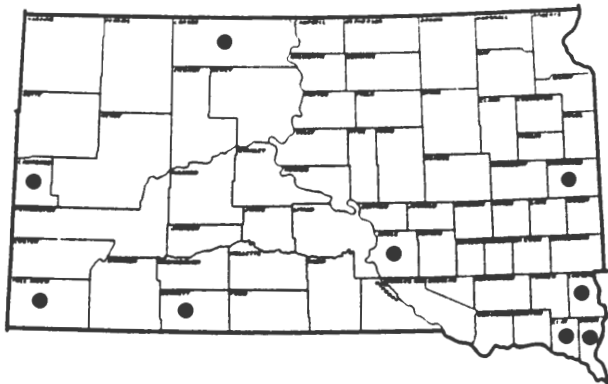
Bennett Co., Martin, 11 September 1948 1
 f.
 Bon Homme Co., Springfield, 13 September
 1948 2 f 3 m.
 Brookings Co., White (Warrens Woods) 25
 September 1925 5 f 3 m.
 Brule Co., Chamberlain, 17 July 1947 9 f;
 8 m.
 Buffalo Co., Fort Thompson, 18 September
 1944 2 f 4 m.
 Clay Co., Vermillion 16 August 1946 1
 f 6 m; 6 September 1946 2 f 1 m.
 Custer Co., State Game Lodge, 7 September
 1923 3 f.
 Fall River Co., Hot Springs, 27 August
 1922 33 f 41 m; 17 September 1919 3 f.
 Gregory Co., Bonesteel, 18 September 1948
 1 f.
 Haakon Co., Philip, 16 September 1919 1 f.
 Harding Co., Buffalo, 20 June 1925 1 f,
 26 August 1924 2 m.
 Hughes Co., Pierre, 17 June 1947 1 f, 21
 June 1949 1 f.
 Jackson Co., Interior, 28 August 1922 1 f
 1 m.
 Lawrence Co., Deadwood, 10 July 1923 1 f,
 13 July 1923 1 f, 18 July 1923 1 f.
 _____, Englewood, 18 June 1925 1 f.
 _____, Lead, 11 September 1948 43 f 49 m.
 _____, Spearfish, 10 September 1948 1 f.
 _____, Whitewood, 26 June 1923 1 f 2 m, 8
 July 1923 1 f, 9 September 1932 2 m.
 Lincoln Co., Caton, 26 June 1946 2 f; 27
 August 1923 5 f 5 m; 28 August 1923 1
 f 1 m; 16 September 1925 1 f 1 m; 4
 September 1946 1 f.
 Perkin Co., Bison Co., 25 August 1924 1 f
 1 m.
 Pennington Co., Pactola Lake, 10
 September 1948 3 m.
 Stanley Co., Fort Pierre, 21 September
 1921 4 f 3 m.
 Union Co., Elk Point, 24 June 1926 1 f, 4
 September 1946 1 f 1 m; 14 September
 1948 2 f.
 Yankton Co., Yankton, 18 August 1947 2 f.

Additional records:

Iowa, Ames, 3 October 1948 1 specimen
 Kansas, Kinsley, 1 September 1950 1 spe-
 cimen
 Minnesota, Pine River, Big Trout Lake, 30
 August 1942 4 specimens
 Montana, Bozeman, 21 July 1949 3 speci-
 mens
 _____, Gallatin Valley, 4 July
 1949 3 specimens
 Oklahoma, Texahoma, 1 September 1950 1
 specimen

South Dakota ---- 283
 Iowa ----- 1
 Kansas ----- 1
 Minnesota ----- 4
 Montana ----- 6
 Oklahoma ----- 1
 Total Collection 296

Graphocephala uhleri (Ball), 1901b:52
 Type locality: Colorado



Records:

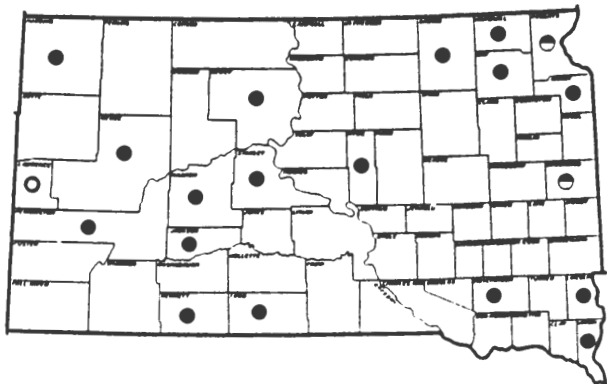
Bennett Co., Martin, 11 September 1948
2 f 4 m.
Brookings, Brookings, 4 July 1943 1 f.
Brule Co., Chamberlain, 17 July 1947 6 f
5 m.
Clay Co., Vermillion, 6 September 1946 5
f 3 m.
Corson Co., Walker, 8 September 1948 1 f.
Fall River Co., Hot Springs 27 August
1922 21 f 20 m.
Lawrence Co., Lead, 11 September 1948 2 f
5 m.
Lincoln Co., Canton, 26 June 1946 1 f.
Union Co., Elk Point, 14 September 1948 2
f.

Additional records:

Iowa, Shenandoah, 26 June 1948 1 specimen.
Oklahoma, Texahoma, 1 September 1950 1
specimen.
Utah, Holliday, 20 August 1949 2
specimens.
_____, Marysvale, 26 August 1950 1
specimen.
_____, Oderville, 27 August 1950 2
specimens.

South Dakota ---- 78
Iowa ----- 1
Oklahoma ----- 1
Utah ----- 5
Total Collection 85

Helochara communis Fitch, 1851a:56
Type locality: North America



Records:

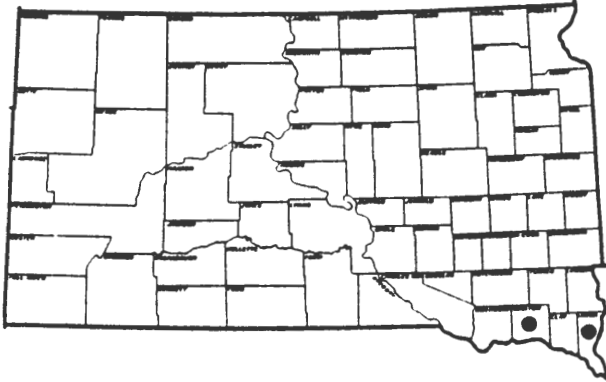
Bennett Co., Martin, 11 September 1948 3
f 2 m.
Brookings Co., Brookings, 19 March 1921 7 f
4 m; 19 May 1919 1 f; 12 May 1921 1 f;
23 May 1921 1 f 3 m; 28 June 1921 1 f;
25 July 1919 1 f; 12 July 1923 1 f 2 m;
20 July 1930 1 f; 30 September 1941 1 f;
13 September 1949 1 f; 19 September 1955
19 f 11 m.
_____, Lake Oakwood, 26 June 1921 4 f 4
m; 31 July 1921 1 f 2 m.
_____, White, 4 May 1921 2 f.
Brown Co., Groton, 8 September 1948 1 f.
_____, Hecla, 26 July 1952 1 f.
Day Co., Waubay, 26 July 1924 2 m.
Dewey Co., Eagle Butte, 26 July 1952 1 f.
_____, Lantry, 28 June 1948 1 f.
Grant Co., Big Stone City, 21 August 1921
6 f 5 m.
_____, Marvin, 25 June 1958 1 f.
Haakon Co., Midland, 22 June 1954 1 f.
Harding Co., Antelope Range Field
Station, 7 June 1953 3 f 2 m.
Hutchinson Co., Dimock, 10 September 1953
1 f.
Hyde Co., Highmore, 15 July 1946 1 f.
Jackson Co., Cottonwood, 9 June 1954 1 f.
_____, Kadoka, 19 July 1950 1 f.
Lawrence Co., Englewood, 18 June 1925 1 f
1 m; 30 August 1924 1 f; 11 September
1948 1 f 2 m.
_____, Hanna, 17 June 1936 1 f.
_____, Lead, 23 July 1947 1 f; 11
September 1948 12 f 13 m.
_____, Spearfish, 4 August 1953 1 f.
_____, Tinton, 26 July 1947 9 f 4 m.
Lincoln Co., Canton, 2 June 1953 1 f, 3
June 1953 1 f.
Marshall Co., Lake City, 2 September 1954
1 f 1 m.
Meade Co., Fox Ridge, 22 June 1927 1 f.
_____, Sturgis, 26 May 1951 1 f.
Pennington Co., Lake Doran, 2 June 1940 1
f 2 m.
_____, Pactola Lake, 10 September 1948 1 f.
Roberts Co., Ortely 24 July 1940 1 f.
_____, Sica Hollow, 10 June 1954 1 f.
_____, Sisston, 7 September 1948 8 f 13 m.
Stanley Co., Fort Pierre, 21 September
1920 1 m.
Todd Co., Rosebud, 14 September 1940 1 f.
Union Co., Elk Point, 24 June 1946 1 f,
30 July 1945 1 f 1 m; 1 July 1946 3 f
2 m; 1 August 1946 1 f.

Additional records:

Colorado, Cameron Pass, 18 August 1952,
15 specimens.
_____, Pingree Park, 22 August 1953 15
specimens.
_____, Saquache, 19 August 1953 1 specimen.
Montana, Bozeman, 21 July 1949 4 specimens.
_____, Placid Lake, 8 July 1947 11
specimens.
Washington, Spokane, 15 August 1947 1
specimen.
Utah, Holliday, 20 August 1949 10
specimens.
_____, Marysvale, 26 August 1950 3
specimens.
Canada, British Columbia, Rosedale, 18
August 1947 1 specimen.
_____, Manitoba, Sherridan, 14 August
1949 10 specimens.

South Dakota ---- 218
 Colorado ----- 31
 Montana ----- 15
 Washington ----- 1
 Utah ----- 13
 Canada ----- 11
 Total Collection 289

Tylozonus bifidus (Say), 1830b:313
 Type locality: Indiana



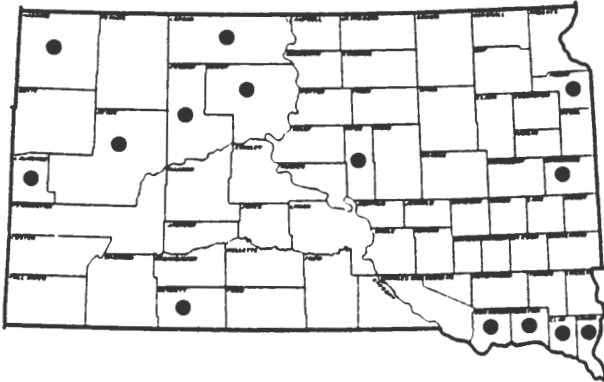
Records:

Union Co., Elk Point, 1 September 1945 1 f.
 _____, Union Co. State Park, 28 August
 1954 1 f 3 m.
 Yankton Co., Yankton, 30 August 1954 6 f
 4 m.

South Dakota ---- 15
 Total Collection 15

CICADELLIDA - Typhlocybae

Dicranonura loca (Delong and Caldwell),
 1936a:71
 Type locality: Ohio



Records:

Bennett Co., Martin, 11 September 1948 2 f.
 Bon Homme Co., Springfield, 13 September
 1948 1 f.
 Brookings Co., Brookings, 15 June 1943 1
 m; 6 June 1945 1 f 1 m; 7 June 1946 1
 f; 17 July 1943 1 f; 18 July 1946 1 f
 3 m; 10 July 1949 1 f; 10 August 1943
 1 f; 30 August 1943 1 m; 11 August
 1946 1 f 1 m; 8 September 1920 1 m; 9

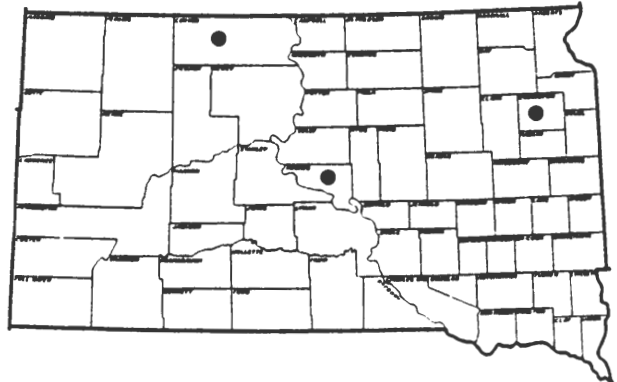
September 1920 1 f; 21 September 1946
 2 f 4 m; 29 September 1946 6 f 4 m; 30
 September 1947 12 f 17 m; 1 September
 1948 1 f; 7 September 1950 1 f; 4
 September 1952 1 f; 5 October 1920 1 f.
 Clay Co., Meckling, 4 June 1953 1 f.
 _____, Vermillion, 28 June 1946 1 f 1 m;
 10 July 1946 2 f; 13 July 1946 3 f 4
 m; 15 July 1946 7 f; 16 July 1946 4 f
 3 m; 17 July 1946 2 f 5 m; 6 August
 1946 1 f 1 m; 16 August 1946 1 f; 21
 September 1946 2 f.
 Corson Co., Walker, 8 September 1948 1 f.
 Dewey Co., Eagle Butte, 22 June 1927 1 f.
 Grant Co., Big Stone City, 23 August 1948
 2 f.
 _____, Marvin, 25 June 1953 2 f.
 Harding Co., Custer National Forest, 12
 August 1943 1 f.
 _____, Reva Alkali Flats, 8 September
 1948 1 f.
 Hyde Co., Highmore, 1 August 1946 1 f; 6
 August 1946 1 f.
 Lawrence Co., Lead, 11 September 1948 1 f.
 _____, Spearfish, 10 September 1948 1 m.
 Meade Co., Sturgis, 21 July 1947 1 f.
 Union Co., Elk Point, 3 June 1953 4 f 2
 m; 4 July 1946 1 f; 10 July 1946 3 f 4
 m; 17 July 1946 5 f; 16 August 1945 2
 f 2 m; 14 September 1948 1 f.
 Yankton Co., Yankton, 4 June 1955 3 f 3 m.
 Ziebach Co., Dupree, 25 June 1947 a 1 f.

Additional records:

Colorado, Estes Park, 25 August 1920 6
 specimens.
 _____, Medicine Bow Lodge, 15 August 1952
 119 specimens.
 Canada, Manitoba, Sherridon, 14 August
 1949 1 specimen.
 Alaska, Fairbanks, 4 August 1951 1 specimen.

South Dakota ---- 149
 Colorado ----- 125
 Canada ----- 1
 Alaska ----- 1
 Total Collection 276

Dicranonura triquetra (Delong and Caldwell),
 1936a:72
 Type locality: Kansas

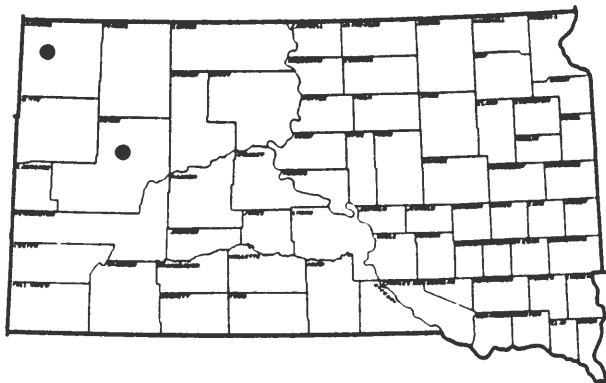


Records:

Codington Co., Florence, 7 September 1948
 1 f.
 Corson Co., Walker, 8 September 1948 1 f.
 Hughes Co., Canning, 7 August 1948 1 m.

South Dakota ---- 3
Total Collection 3

Dikraneura absenta Delong and Caldwell,
1937a:28
Type locality: Idaho



Records:

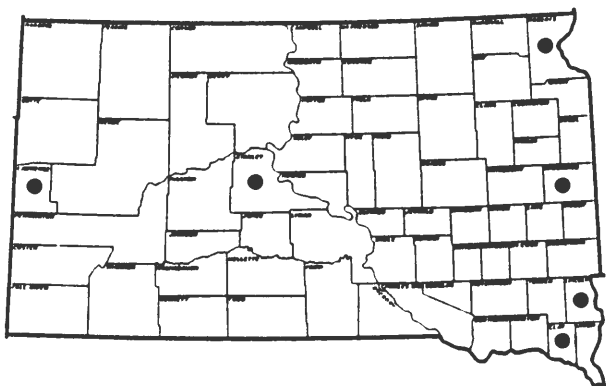
Harding Co., Buffalo, 28 June 1948 1 f;
27 August 1952 1 f 2 m.
Meade Co., Sturgis, 26 May 1951 1 f, 25
July 1947 2 f 4 m.

Additional records:

Canada, British Columbia, Rosedale, 18
August 1947 2 specimens.

South Dakota ---- 11
Canada ----- 2
Total Collection 13

Dikraneura angustata Ball and Delong, 1925a:328
Type locality: Texas

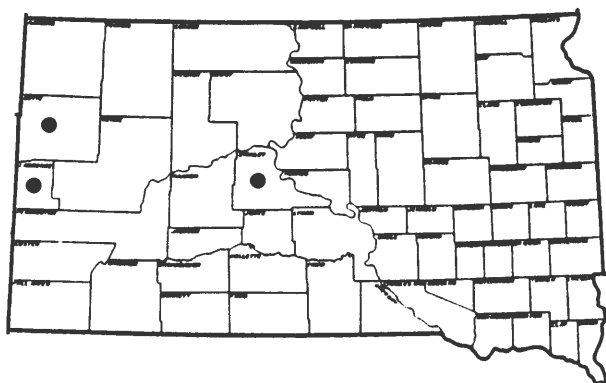


Records:

Brookings Co., Brookings, 8 September 1920
1 f; 9 September 1920 5 f 9 m; 21 Sep-
tember 1946 2 f; 29 September 1946 1 f.
Clay Co., Vermillion, 16 August 1946 1 f.
Lawrence County, Whitewood, 26 June 1923
1 f.
Lincoln Co., Caton, 4 September 1946 1 f.
Roberts Co., Sisseton, 23 August 1946 9 f
3 m.
Stanley Co., Fort Pierre, 20 September
1920 1 f.

South Dakota ---- 34
Total Collection 34

Dikraneura arizona Delong and Caldwell,
1937a:26
Type locality: Colorado



Records:

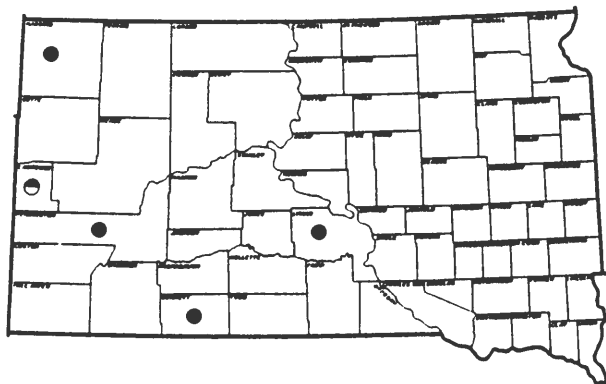
Butte Co., Newell, 5 July 1923 1 f.
Lawrence Co., Whitewood, 26 June 1923 1
f; 8 July 1923 1 f.
Stanley Co., Fort Pierre, 20 September
1920 1 f.

Additional records:

New Mexico, Albuquerque (Manzano Mts.) 18
August 1958 11 specimens.

South Dakota ---- 4
New Mexico ----- 11
Total Collection 15

Dikraneura carneola (Stal), 1858a:196
Type locality: Alaska



Records:

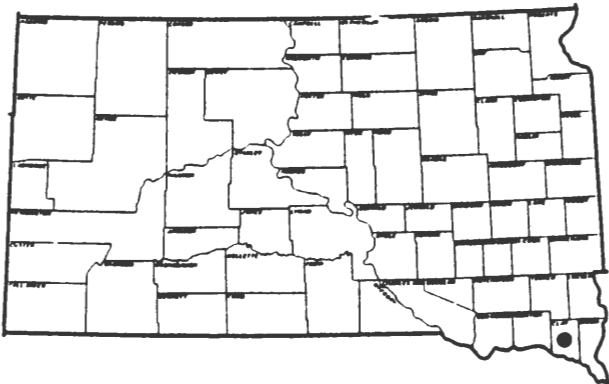
Bennett Co., Martin, 11 September 1948 3
f 5 m.
Harding Co., Buffalo, 27 August 1952 3 f
5 m.
Lawrence Co., Englewood, 26 July 1947 3 f.
_____, Lead, 23 July 1947 3 f 2 m; 11
September 1948 1 f 1 m.
_____, Tinton, 26 July 1947 6 f.
Lyman Co., Kennebec, 17 July 1947 1 f.
_____, Presho, 17 June 1947 1 f.
Pennington Co., Pactola Lake, 10
September 1948 6 f 9 m.

Additional records:

Colorado, Cameron Pass, 18 August 1952 1 specimen.
 _____, Medicine Bow Lodge, 15 August 1952 1 specimen.
 _____, Pingree Park, 22 August 1953 1 specimen.
 Montana, MacDonald Pass, 6 August 1947 1 specimen.
 _____, Placid Lake, 8 August 1947 3 specimens.
 Utah, Bryce National Park, 30 August 1950 21 specimens.
 _____, Holliday, 20 August 1949 2 specimens.
 _____, Marysville, 26 August 1950 5 specimens.
 Washington, Spokane, 14 June 1952 1 specimen; 15 August 1947 17 specimens.
 Canada, British Columbia, Rosedale, 18 August 1947 1 specimen.
 _____, Vancouver, 17 August 1947 1 specimen.

South Dakota ---- 51
 Colorado ----- 3
 Montana ----- 4
 Utah ----- 28
 Washington ----- 18
 Canada ----- 2
 Total Collection 106

Empoa casta (McAtee), 1926a:26
 Type locality: Maryland

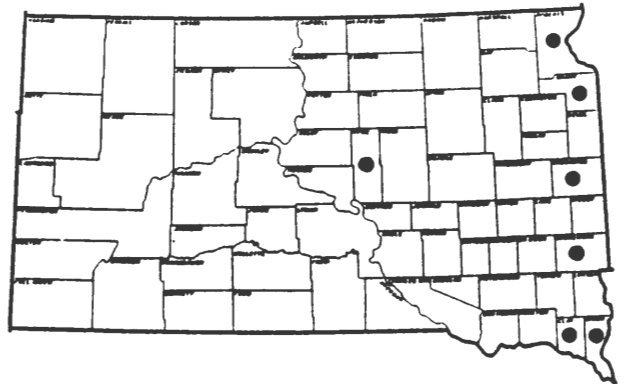


Records:

Clay Co., Vermillion, 6 June 1946 1 f;
 11 June 1946 1 f 3 m; 18 July 1946 1 f.

South Dakota ---- 6
 Total Collection 6

Empoa gillettei: Van Duzee, 1917b:708
 Type locality: Illinois

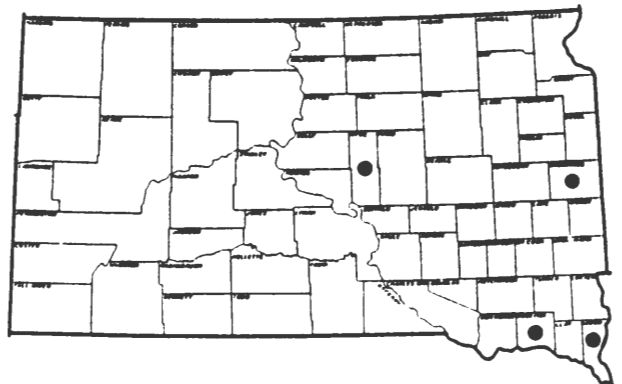


Records:

Brookings Co., Brookings, 17 June 1921 2 f;
 18 June 1921 1 f; 21 June 1921 1 m; 23 June 1921 1 f; 24 June 1944 1 m; 7 June 1946 6 f 5 m; 13 June 1946 a f; 6 July 1945 1 m; 8 July 1945 1 f 1 m; 23 July 1945 1 f; 6 August 1945 1 m. Clay Co., Vermillion, 6 June 1946 10 f 9 m; 7 June 1946 1 f 2 m; 8 June 1945 2 f; 9 June 1946 1 f 1 m; 11 June 1946 6 f 5 m; 14 June 1946 5 f; 16 June 1946 3 m; 18 June 1946 3 f 2 m; 25 June 1946 1 f; 8 July 1946 1 f; 15 July 1946 1 f; 21 July 1946 1 f; 24 July 1946 1 f; 6 August 1946 1 m; 16 August 1946 2 f; 20 August 1946 1 m; 27 August 1946 1 f; 1 September 1945 1 f; 1 September 1946 1 f 2 m; 4 September 1946 2 f; 21 September 1946 1 f.
 Grant Co., Big Stone City, 27 August 1921 1 f.
 Hyde Co., Highmore, 20 June 1946 5 f 4 m; 1 September 1946 3 f.
 Minnehaha Co., Sioux Falls, 16 July 1945 1 f 2 m.
 Roberts Co., Sisseton, 23 August 1946 2 f.
 Union Co., Elk Point, 17 June 1946 2 f 2 m; 18 June 1946 3 f 4 m; 16 August 1946 1 f; 15 September 1946 5 f.

South Dakota ---- 125
 Total Collection 125

Empoa venusta (McAtee), 1926a:29
 Type locality: Wisconsin

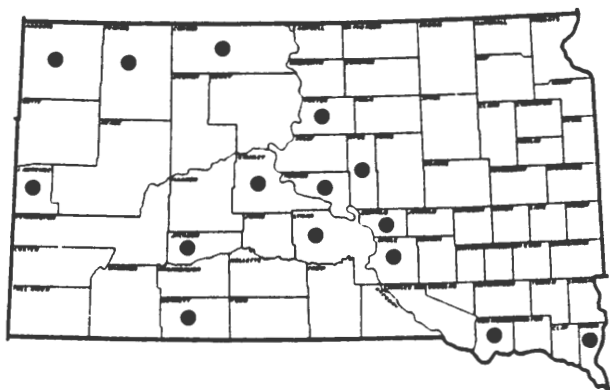


Records:

Brookings Co., Brookings, 17 June 1921 f;
 30 June 1930 1 f; 22 June 1943 1 m; 25
 June 1943 1 m; 28 June 1943 1 f; 2
 July 1943 1 f; 4 July 1943 1 m; 23
 July 1943 2 f 3 m; 5 July 1945 1 f 3
 m; 6 July 1945 2 m; 8 July 1945 3 f 3
 m; 10 July 1945 1 f 1 m; 23 July 1945
 1 f; 6 August 1946 1 f; 11 August 1946
 1 f.
 Clay Co., Vermillion; 11 June 1946 1 f.
 Hyde Co., Highmore, 20 June 1946 1 m.
 Union Co., Elk Point, 18 June 1946 2 f;
 10 July 1946 1 m; 23 July 1946 1 f; 16
 July August 1946 1 f.

South Dakota ---- 38
 Total Collection 38

Empoasca alboneura Gillette, 1898a:743
 Type locality: Mississippi



Records:

Bennett Co., Martin, 11 September 1948 5
 f 4 m.
 Bon Homme Co., Springfield, 13 September
 1948 2 f.
 Brule Co., Chamberlain, 17 June 1947 35
 f, 25 m.
 Buffalo Co., Fort Thompson, 1 September
 1943 1 f.
 Corson Co., McLaughlin, 8 September 1948
 1 f.
 _____, Walker, 8 September 1948 1 m.
 Harding Co., Buffalo, 19 June 1925 2 f 2
 m; 28 June 1947 8 f 11 m.
 Hughes Co., Canning; 7 August 1948 1 f 2
 m; 16 August 1950 3 f 2 m.
 _____, Pierre, 17 June 1947 3 f; 9 June
 1951 1 f; 16 June 1952 12 f 12 m; 17
 July 1947 5 f 7 m; 25 July 1947 6 f;
 21 July 1950 1 f; 25 July 1952 1 f.
 Hyde Co., Highmore, 1 September 1946
 1 f.
 Jackson Co., Cottonwood, 22 June 1952
 1 m.
 Lawrence Co., Spearfish, 28 June 1947
 2 f 1 m; 10 September 1948 1 f.
 _____, Tinton, 26 July 1947 1 f.
 Lyman Co., Presho, 17 June 1947 5 f 4 m;
 27 June 1947 1 f.
 Perkins Co., Lemmon, 8 September 1948

1 f.

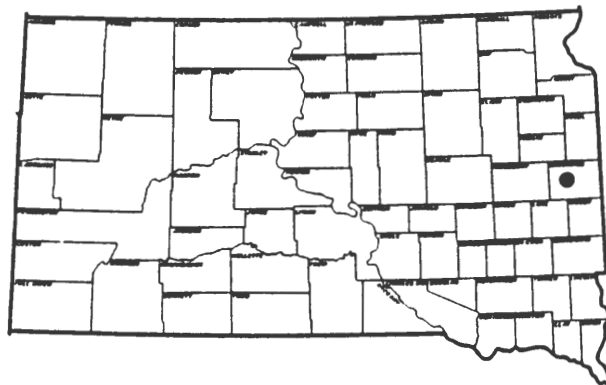
Potter Co., Gettysburg, 26 June 1947 1 m.
 Stanley Co., Fort Pierre, 11 September
 1946 21 f 6 m.
 Union Co., Elk Point, 14 September 1948 1
 f 2 m.

Additional records:

Oklahoma, Texahoma, 1 September 1950 3
 specimens.

South Dakota ---- 202
 Oklahoma ----- 3
 Total Collection 205

Empoasca atrolabes Gillette, 1898a:736
 Type locality: Colorado



Records:

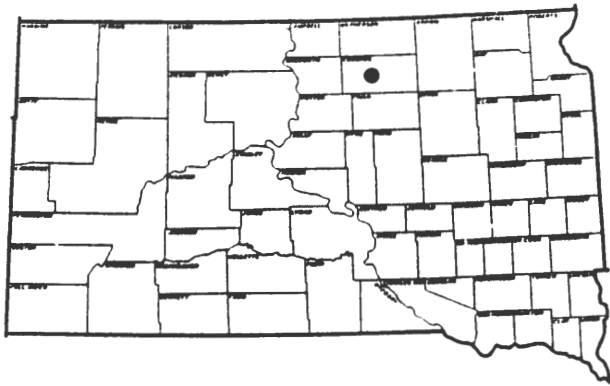
Brookings Co., Brookings, 13 July 1919 1
 f; 15 July 1919 1 f 1 m; 17 July 1919
 1 f; 30 September 1919 1 f; 8
 September 1920 1 f 2 m.

Additional records:

Colorado, Estes Park, 24 August 1920 1
 specimen; 25 August 1920 3 specimens.
 _____, State Bridge, 21 August 1953 28
 specimens.
 Canada, Manitoba, Flin Flon, 13 August
 1949 1 specimen.
 _____, Yukon Territory, Carmacks, 25 July
 1951 15 specimens.
 _____, Fort Yukon, 4 August 1951 11
 specimens.
 _____, Whitehorse, 7 August 1951 11
 specimens.
 Alaska, Circle Hot Springs, 4 August 1951
 2 specimens.
 _____, Fairbanks, 4 August 1951 58
 specimens.
 _____, Mantanuska, 1 August 1951 4 speci-
 mens.

South Dakota ---- 8
 Colorado ----- 32
 Canada ----- 38
 Alaska ----- 64
 Total Collection 142

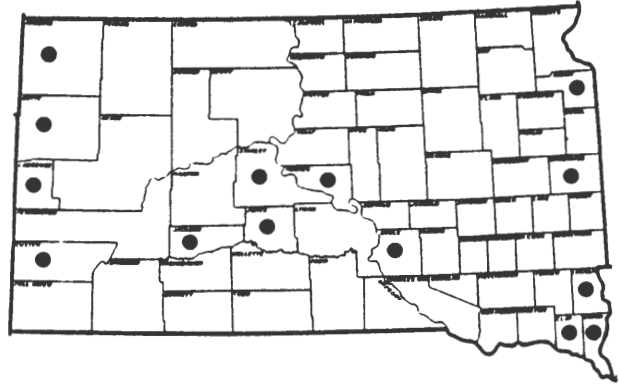
Empoasca aureoviridis (Uhler), 1877a:474
 Type locality: Colorado



Union Co., Elk Point, 28 July 1946 1 f; 1 August 1946 1 f; 6 August 1946 1 f 1 m; 16 August 1946 2 f; 14 September 1946 1 f 2 m; 15 September 1946 2 f 4 m.

South Dakota ---- 241
Total Collection 241

Empoasca esuma Goding, 1890b:116
Type locality: Illinois



Records:

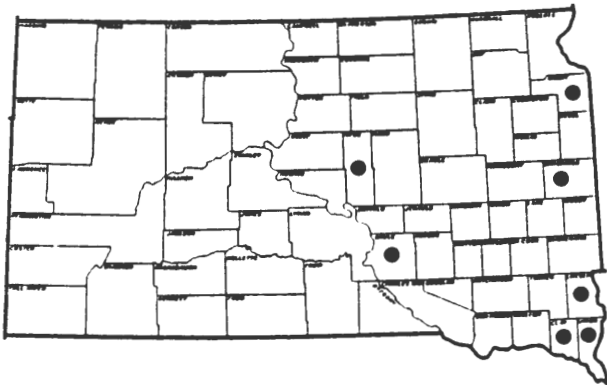
Edmunds Co., Ipswich, 20 June 1919 1 f.

Additional records:

Colorado, Estes Park, 20 August 1920 1 specimen; 25 August 1920 2 specimens; 27 August 1920 2 specimens.

South Dakota ---- 1
Colorado ----- 5
Total Collection 6

Empoasca erigeron Delong, 1931b:48
Type locality: Tennessee



Records:

Brookings Co., Brookings, 23 July 1921 1 f 1 m; 18 July 1939 2 f 1 m; 12 July 1945 1 f; 10 July 1946 1 f 1 m; 21 September 1946 21 f 25 m; 29 September 1946 49 f 37 m.

Brule Co., Chamberlain, 14 September 1946 1 f.

Clay Co., Vermillion, 25 June 1946 1 f; 15 July 1946 1 f; 18 July 1946 1 m; 23 July 1946 1 f 2 m; 1 August 1946 1 f 1 m; 6 July 1946 2 f; 11 August 1946 3 m; 16 July 1946 3 f 2 m; 4 September 1946 2 f; 21 September 1946 15 f 6 m; 1 October 1946 8 f 7 m.

Grant Co., Big Stone City, 8 September 1946 2 f 2 m.

Hyde Co., Highmore, 1 September 1946 7 f 9 m.

Lincoln Co., Canton, 26 June 1946 1 f; 4 September 1946 3 f 4 m.

Records:

Brookings Co., Brookings, 10 July 1946 1 f; 11 August 1946 1 f 3 m; 30 September 1941 10 f 1 m; 21 September 1946 31 f 23 m; 29 September 1946 15 f 16 m; 16 September 1947 1 f; 22 September 1947 1 f 2 m; 30 September 1947 7 f 5 m; 6 September 1948 5 f 5 m; 22 September 1949 5 f; 7 September 1950 1 f; 1 September 1951 1 m; 4 September 1952 3 f 2 m; 1 October 1949 1 f.

Brule Co., Chamberlain, 14 September 1946 3 f 1 m.

Butte Co., Nisland, 16 August 1950 1 f; 30 August 1952 1 f.

Clay Co., Vermillion, 22 June 1946 1 f; 16 July 1946 1 m; 18 July 1946 1 f; 23 July 1946 1 f; 26 July 1946 1 f; 16 August 1946 1 f 2 m; 27 August 1946 1 f; 4 September 1946 1 f 3 m.

Custer Co., State Game Lodge, 22 August 1952 1 f.

Grant Co., Big Stone City, 8 September 1946 1 f.

Harding Co., Buffalo, 28 June 1947 1 f 1 m.

Hughes Co., Pierre, 11 September 1921 2 f.

Jackson Co., Interior (Badlands) 15 June 1948 1 f.

Jones Co., Capa, 19 August 1919 1 m.

Lawrence Co., Deadwood, 9 September 1925 1 f.

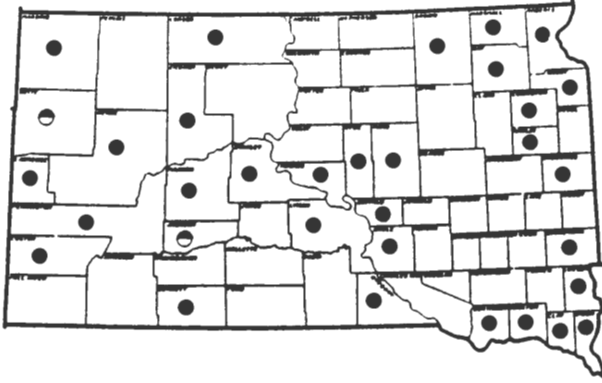
Lincoln Co., Canton, 4 September 1946 1 f.

Stanley Co., Fort Pierre, 6 August 1948 1 f; 12 September 1946 2 f.

Union Co., Elk Point, 22 July 1945 1 f; 4 September 1946 1 f 2 m; 15 September 1946 2 m.

South Dakota ---- 168
Total Collection 168

Empoasca fabae (Harris), 1841a:186
Type locality: Massachusetts



Records:

Bennett Co., Martin, 11 September 1948 3 f 2 m.
 Bon Homme Co., Springfield, 13 September 1948 6 f 3 m.
 Brookings Co., Brookings, 31 May 1951 1 f; 12 June 1919 3 f; 24 June 1919 1 m; 25 June 1919 1 f; 11 June 1921 1 f; 27 June 1921 1 m; 18 June 1930 6 f 10 m; 30 June 1930 1 m; 15 June 1943 1 f; 21 June 1943 1 f; 23 June 1943 1 f; 28 June 1943 1 f; 24 June 1943 1 f 1 m; 26 June 1945 3 f 2 m; 6 June 1946 2 f 3 m; 7 June 1946 4 f; 8 June 1946 3 m; 11 June 1946 1 f 1 m; 13 June 1946 2 f 1 m; 31 June 1951 1 f; 14 June 1962 12 f 10 m; 4 July 1919 1 f; 7 July 1919 3 f 1 m; 17 July 1919 1 f; 19 July 1920 1 f; 21 July 1920 1 m; 11 July 1921 1 f 2 m; 27 July 1921 1 f; 17 July 1924 1 m; 23 July 1927 2 f 1 m; 18 July 1939 8 f 6 m; 6 July 1942 1 f 1 m; 27 July 1943 1 f; 5 July 1945 1 m; 8 July 1945 2 f; 12 July 1945 1 f; 18 July 1945 1 f 1 m; 23 July 1945 1 f; 10 July 1946 3 m; 11 July 1946 1 f; 18 July 1946 1 f; 23 July 1946 1 m; 30 July 1947 3 f 2 m; 18 July 1949 1 f; 25 July 1949 1 f; 11 July 1950 1 f; 25 July 1950 7 f 5 m; 7 August 1942 1 f; 20 August 1946 1 m; 10 August 1943 8 f 5 m; 20 August 1944 1 f; 6 August 1946 1 f; 11 August 1946 3 f 3 m; 27 August 1949 3 f; 15 August 1950 1 f; 24 August 1950 1 f 1 m; 30 September 1919 4 f 1 m; 8 September 1920 4 f 8 m; 23 September 1920 1 f 1 m; 24 September 1920 1 f 3 m; 25 September 1920 4 f 4 m; 20 September 1943 1 f; 21 September 1946 12 f 16 m; 29 September 1946 2 m; 22 September 1947 2 f; 30 September 1947 4 f 6 m; 1 September 1948 1 f; 6 September 1948 16 f 25 m; 22 September 1949 2 f 4 m; 7 September 1950 6 f 10 m; 4 September 1952 21 f 27 m; 11 September 1952 1 f 1 m.
 _____, White, 25 September 1925 1 m.
 Brown Co., Groton, 8 September 1948 1 f 2 m.
 _____, Hecla, 26 July 1952 2 f; 2 August 1944 1 f; 7 September 1948 18 f 14 m.
 Brule Co., Chamberlain, 26 May 1947 1 f; 17 June 1947 6 f 2 m; 14 September 1946 7 f 3 m.
 Buffalo Co., Fort Thompson, 27 June 1943 1 f; 12 August 1943 3 m; 1 September 1943 1 f 2 m.

Butte Co., Newell, 27 May 1951 1 f; 26 June 1950 1 f 2 m.
 _____, Nisland, 16 August 1950 3 f; 13 August 1952 8 f 5 m; 30 August 1952 3 f 2 m.
 _____, Redwater, 4 August 1953 1 f.
 Clay Co., Meckling, 4 June 1953 1 f 2 m.
 _____, Vermillion, 6 June 1946 1 f 1 m; 3 June 1943 21 f 20 m; 20 July 1945 1 f; 10 July 1946 1 f 2 m; 13 July 1946 1 f; 15 July 1946 1 f 1 m; 16 July 1946 1 f 1 m; 23 July 1946 3 f; 1 August 1946 3 m; 6 August 1946 1 f; 16 August 1946 1 f; 21 August 1946 1 m; 4 September 1946 3 f 4 m; 21 September 1946 5 f 4 m; 14 September 1948 1 f; 1 October 1946 1 f.
 Codrington Co., Florence, 7 September 1948 1 f 1 m.
 _____, Watertown, 5 July 1945 2 f.
 Corson Co., McLaughlin, 8 September 1948 1 f.
 _____, Walker, 8 September 1948 1 m.
 Custer Co., State Game Lodge, 25 August 1952 6 f 5 m.
 Day Co., Waubay, 22 June 1936 1 f.
 Grant Co., Big Stone City 23 August 1948 8 f 3 m.
 _____, Marvin, 25 June 1953 39 f 18 m.
 Gregory Co., Bonesteel, 13 September 1948 3 f.
 Haskon Co., Philip, 7 August 1948 11 f 9 m.
 Hamlin Co., Lake Poinsett, 7 September 1948 3 f 4 m.
 Hand Co., Ree Heights, 11 September 1946 3 f 2 m.
 _____, Vayland, 7 June 1949 1 f.
 Harding Co., Buffalo, 10 July 1952 1 f; 27 August 1942 1 f.
 _____, Slim Buttes, 5 August 1953 1 f.
 Hughes Co., Canning, 7 August 1948 15 f 5 m; 16 August 1950 5 f.
 _____, Pierre, 17 June 1947 2 f; 10 June 1952 2 f; 17 July 1947 3 f 3 m; 21 July 1950 7 f; 22 July 1952 4 f 3 m.
 Hyde Co., Highmore, 16 June 1945 2 f; 20 June 1946 3 f 4 m; 16 June 1952 1 f; 23 June 1953 1 f; 1 July 1944 1 f 3 m; 22 July 1952 2 m; 16 August 1946 6 f 3 m; 14 August 1949 5 f; 21 August 1949 4 f.
 Jackson Co., Cottonwood, 24 June 1950 1 f 1 m; 17 June 1952 4 f 2 m; 26 August 1948 3 f.
 _____, Interior (Badlands) 15 June 1943 8 f 2 m; 15 June 1948 3 f 2 m.
 _____, Kadoka, (Badlands), 19 July 1950 6 f 3 m.
 Lawrence Co., Spearfish, 28 June 1947 1 f; 4 August 1953 2 f; 6 August 1953 1 f 3 m; 10 September 1948 3 f 2 m.
 Lincoln Co., Canton, 3 June 1953 12 f 8 m; 4 September 1946 3 f.
 Lyman Co., Lyman, 12 September 1946 2 f 2 m.
 _____, Presho, 17 June 1947 1 f 1 m.
 Marshall Co., Eden, 25 June 1953 1 f 2 m.
 Meade Co., Sturgis, 21 July 1947 1 f.
 Minnehaha Co., Crooks, 13 May 1974 9 f 2 m; 3 June 1974 1 f; 2 July 1974 1 f; 21 August 1973 1 f 2 m.
 Pennington Co., Wall (Badlands), 21 July 1947 1 f; 26 July 1948 5 f 3 m.
 Roberts Co., Sisseton, 26 July 1952 2 f; 29 August 1921 2 f 2 m; 23 August 1946 8 f; 7 September 1948 4 f 6 m.
 Stanley Co., Fort Pierre, 6 August 1948

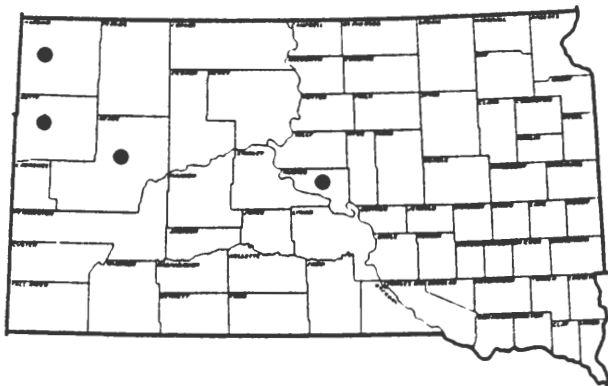
18 f 2 m; 21 September 1920 1 f; 12 September 1946 3 m.
 Union Co., Beresford, 3 September 1946 4 f.
 _____, Elk Point, 6 June 1946 1 f; 3 June 1943 4 f 3 m; 17 July 1945 3 f; 18 July 1945 1 f; 22 July 1945 1 f; 10 July 1946 1 m; 1 August 1946 1 f; 16 August 1946 3 f; 27 August 1946 1 m; 4 September 1946 3 f 1 m; 12 September 1946 1 f; 14 September 1948 21 f 9 m; 15 September 1946 1 f 2 m.
 Yankton Co., Gayville, 10 July 1941 1 f.
 _____, Yankton, 4 June 1953 1 m.
 Ziebach Co., Dupree, 25 June 1947 1 f; 11 July 1952 1 f.

Additional records:

New Mexico, Albuquerque, 18 August 1953 3 specimens.
 _____, Manzano Muntains, 18 August 1953 1 specimen.
 Utah, Bryce National Park, 30 August 1960 16 specimens.
 _____, Zion Park, 28 August 1950 2 specimens.
 Canada, Alberta, Bungalow Camp, 29 July 1946 2 specimens.
 _____, Manitoba, Dolphin, 12 August 1949 9 specimens.
 _____, Sherridon, 14 August 1949 2 specimens.
 Alaska, Fairbanks, 4 August 1951 12 specimens.

South Dakota ---- 975
 New Mexico ----- 4
 Utah ----- 18
 Canada ----- 25
 Alaska ----- 12
 Total Collection 1034

Empoasca filamenta Delong, 1931b:43
 Type locality: Oregon



Records:

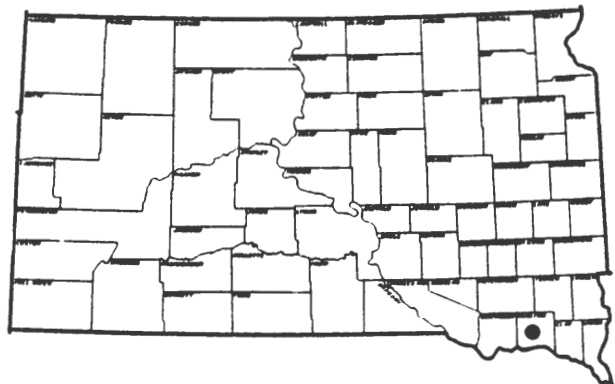
Butte Co., Nisland, 16 August 1950 1 f; 13 August 1952 1 f 1 m.
 Harding Co., Buffalo, 27 June 1950 1 f; 22 August 1952 1 f; 28 August 1952 1 f.
 Hughes Co., Pierre, 23 June 1950 1 f.
 Meade Co., Sturges, 17 June 1952 3 m.

Additional records:

Montana, Placid Lake, 8 August 1947 40 specimens.
 Utah, Zion Park, 28 August 1950 11 specimens.
 Canada, Yukon Territory, Carmacks, 25 July 1951 1 specimen.
 Alaska, Fairbanks, 4 August 1951 1 specimen.
 _____, Matanaska, 1 August 1951 26 specimens.

South Dakota ---- 10
 Montana ----- 40
 Utah ----- 11
 Canada ----- 1
 Alaska ----- 27
 Total Collection 89

Empoasca gelbata Delong and Davidson
 1936a:225
 Type locality: Wisconsin



Records:

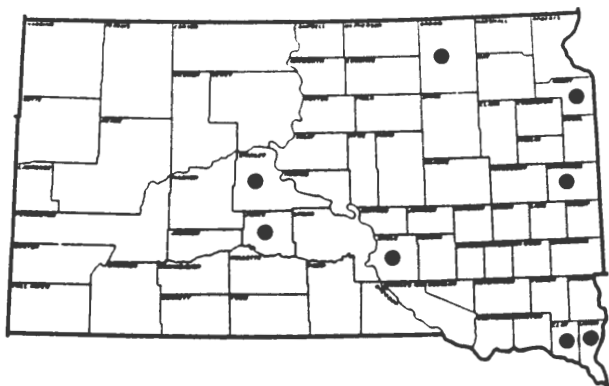
Yankton Co., Midway, 8 July 1952 1 f.

Additional records:

Canada, Yukon Territory, Carmacks, 25 July 1951 1 specimen
 _____, Fort Yukon, 4 August 1951 1 specimen
 _____, Whitehorse, 7 August 1951 2 specimens
 Alaska, Circle Hot Springs, 4 August 1951 2 specimens
 _____, Fairbanks, 4 August 1951 10 specimens
 _____, Matanuska, 1 August 1951 3 specimens
 _____, Mt. McKinley National Park 30 July 1951 56 specimens; 31 July 1951 17 specimens
 _____, Skagway, 9 August 1951 1 specimen

South Dakota ---- 1
 Canada ----- 2
 Alaska ----- 91
 Total Collection 94

Empoasca incida Delong, 1931b:21
 Type locality: Arizona



Records:

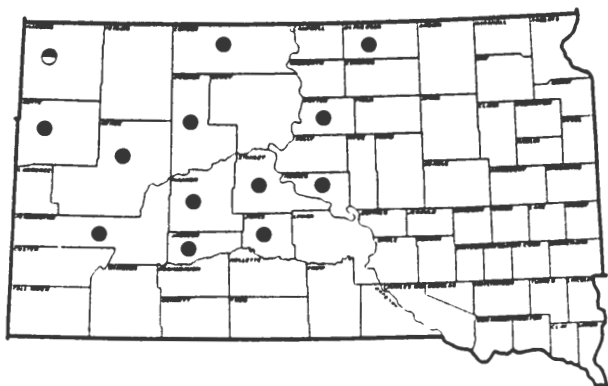
Brookings Co., Brookings, 24 June 1919 1 f;
23 June 1921 1 f; 27 June 1921 1 m; 23
June 1943 1 f; 13 June 1946 1 m; 21 July
1921 1 f; 4 July 1943 1 f 1 m; 23 July
1943 1 f; 7 August 1921 1 f 1 m; 7 August
1922 1 m; 1 August 1946 1 f; 8 September
1920 1 f; 9 September 1920 1 f.
Brown Co., Aberdeen, 30 July 1919 1 f.
Brule Co., Chamberlain, 14 September 1946
7 f 10 m.
Clay Co., Vermillion, 12 June 1946 1 f; 28
June 1946 1 m; 15 July 1946 1 m; 18 July
1946 1 f 2 m; 23 July 1946 1 f; 16 August
1946 1 f 1 m; 20 August 1946 2 f 1 m; 27
August 1946 1 m.
Grant Co., Big Stone City, 27 August 1921
2 f 2 m.
Jones Co., Capa, 1 June 1921 1 f; 15
August 1922 1 m.
Stanley Co., Fort Pierre, 11 September
1921 5 f 3 m.
Union Co., Elk Point, 13 June 1946 1 f; 18
June 1946 1 f 1 m; 28 July 1945 1 f 1 m;
16 July 1946 3 f 2 m; 17 July 1946 1 f; 23
July 1946 4 f 3 m; 1 August 1946 3 f 1 m;
6 August 1946 1 f 1 m; 27 August 1946 3 f
1 m.

Additional records:

Montana, Bozeman, 8 August 1949 7 specimens.

South Dakota ---- 89
Montana ----- 7
Total Collection 96

Empoasca medora (DeLong) 1932c:397
Type locality: North Dakota

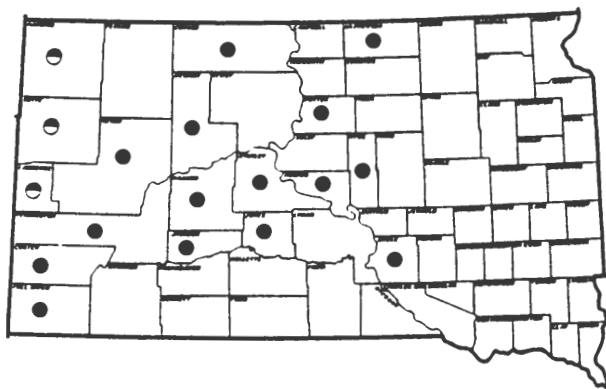


Records:

Butte Co., Newell, 27 May 1951 1 f.
_____, Nisland, 16 August 1950 1 f 2 m;
13 August 1952 2 f.
Corson Co., Walker, 8 September 1948 4 f
3 m;
Haakon Co., Midland, 17 June 1950 1 f.
Harding Co., Antelope Range Field
Station, 10 July 1952 4 f 2 m.
_____, Buffalo, 19 June 1925 1 f 2 m; 27
June 1950 3 f 2 m; 28 June 1947 5 f 3
m; 27 August 1952 1 f; 28 August 1952
18 f 15 m.
_____, Reva, 5 August 1953 6 f 5 m.
Hughes Co., Pierre, 16 June 1927 1 f 2 m;
17 June 1947 8 f 5 m; 9 June 1951 9 f
10 m; 17 July 1947 9 f 8 m.
Jackson Co., Interior, 15 June 1948 2 f.
Jones Co., Capa, 23 September 1920 1 f 1
m;
McPherson Co., Eureka, 24 June 1952 8 f 9
m.
Meade Co., Edson, 27 June 1947 1 f.
Pennington Co., Wall, 26 July 1948 3 f 2
m.
Potter Co., Gettysburg, 27 June 1947 1 f.
Stanley Co., Fort Pierre, 6 August 1948 4
f; 21 September 1920 1 f 1 m; 11
September 1946 16 f 16 m.
Ziebach Co., Dupree, 25 June 1947 8 f 1
m; 11 July 1952 3 f 2 m.

South Dakota ---- 213
Total Collection 213

Empoasca nigra Gillette and Baker, 1895a:108
Type locality: Colorado



Records:

Brule Co., Chamberlain, 17 June 1947 1 f;
Butte Co., Belle Fourche, 27 June 1947 1
f.
_____, Newell, 26 June 1947 1 f.
_____, Nisland, 15 August 1950 2 f; 16
August 1950 6 f 10 m; 13 August 1952 2
f 2 m.
Corson Co., Walker, 8 September 1948 3 f
2 m.
Custer Co., State Game Lodge, 22 August
1952 1 f.
Fall River Co., Hot Springs 27 June 1924
2 f 4 m.
Haakon Co., Midland, 17 June 1950 1 f.
Harding Co., Antelope Range Field
Station, 10 July 1952 1 f; 15 July
1952 3 f 2 m; 27 August 1952 1 f 1 m;
28 August 1952 20 f 11 m.

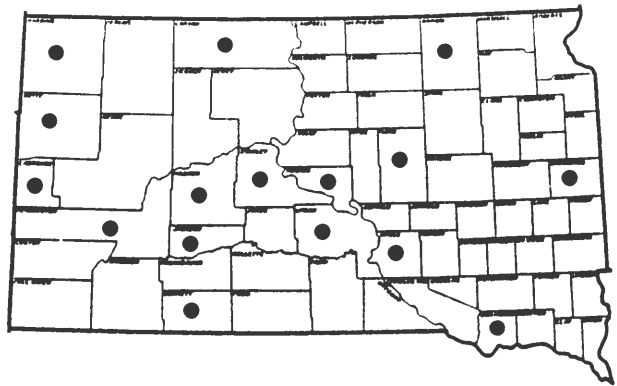
_____, Buffalo, 19 June 1925 7 f 5 m; 27 June 1947 2 f; 28 June 1947 9 f 11 m; 27 June 1980 3 m; 10 September 1948 1 f 2 m.
 _____, Reva (Slim Buttes), 5 August 1953 16 f 9 m.
 Hughes Co., Canning, 16 August 1950 1 f.
 _____, Pierre, 17 June 1947 7 f 20 m; 9 June 1951 8 f 5 m; 17 July 1947 8 f 12 m.
 Hyde Co., Highmore, 1 September 1946 1 f.
 Jackson Co., Interior (Badlands), 15 June 1948 8 f.
 _____, Kadoka, 19 July 1950 1 f.
 Jones Co., Capa, 23 September 1920 18 f 12 m.
 Lawrence Co., Deadwood, 9 September 1925 1 f.
 _____, Englewood, 18 June 1925 1 f.
 _____, Lead, 11 September 1948 1 f 1 m.
 _____, Spearfish, 28 June 1948 2 m.
 McPherson Co., Eureka, 24 June 1952 6 f 4 m.
 Meade Co., Fox Ridge, 22 June 1927 1 f; 28 June 1947 1 f.
 Pennington Co., Wall (Badlands), 26 July 1948 16 f 5 m.
 Potter Co., Gettysburg, 27 June 1947 1 f.
 Stanley Co., Fort Pierre, 21 September 1920 13 f 9 m; 11 September 1946 8 f 10 m.
 Ziebach Co., Dupree, 25 June 1947 21 f 22 m; 11 July 1952 4 f.

Additional records

Colorado, Estes Park, 24 August 1920 2 specimens; 25 August 1950 6 specimens.
 Montana, Bozeman, Spanish Creek, 8 August 1949 1 specimen.
 New Mexico, Albuquerque, 18 August 1953 2 specimens.
 North Dakota, Medora, 26 August 1947 3 specimens.
 Utah, Marysvale, 26 August 1950 2 specimens.
 _____, Orderville, 27 August 1950 2 specimens.
 Washington, Grand Coulee, 17 August 1947 1 specimen.
 Canada, Yukon Territory, Carcross, 7 August 1951 1 specimen.
 Alaska, Mantanuska, 1 August 1951 3 specimens.

South Dakota ---- 378
 Colorado ----- 8
 Montana ----- 1
 New Mexico ----- 2
 North Dakota ---- 3
 Utah ----- 4
 Washington ----- 1
 Canada ----- 1
 Alaska ----- 3
 Total Collection 401

Empoasca patula Delong, 1931b:22
 Type locality: Tennessee



Records:

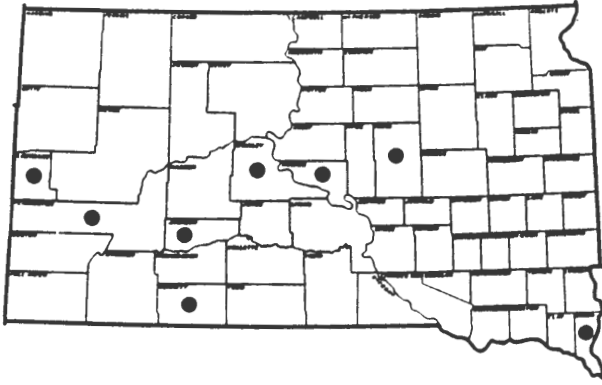
Bennett Co., Martin, 11 September 1948 3 f 5 m.
 Bon Homme Co., Springfield, 13 September 1948 8 m.
 Brookings Co., Brookings, 25 July 1949 7 f 11 m; 2 July 1951 2 f; 22 September 1947 13 f 8 m; 6 September 1948 2 m.
 Brown Co., Hecla, 7 September 1948 2 f.
 Brule Co., Chamberlain, 17 June 1947 4 f 3 m; 17 July 1947 1 f.
 Butte Co., Nisland, 16 August 1950 6 f; 13 August 1952 29 f 27 m; 18 August 1952 5 f 5 m; 30 August 1952 8 f.
 Corson Co., McLaughlin, 8 September 1948 3 f 2 m.
 _____, Walker, 8 September 1948 1 f.
 Haakon Co., Philip, 7 August 1948 42 f 44 m.
 Hand Co., Vayland, 7 June 1949 16 f 6 m.
 Harding Co., Buffalo, 28 June 1947 1 f.
 Hughes Co., Canning, 7 August 1948 3 f 2 m; 16 August 1950 5 f 4 m.
 _____, Pierre, 20 June 1949 1 f; 26 June 1951 1 f; 17 July 1947 2 f; 21 July 1950 1 m; 22 July 1951 5 f 6 m.
 Jackson Co., Interior (Badlands), 15 June 1943 6 f 4 m; 15 June 1948 2 f.
 Lawrence Co., Spearfish, 10 September 1948 3 f.
 Lyman Co., Presho, 17 June 1947 6 f.
 Pennington Co., Wall (Badlands), 26 July 1943 3 f 2 m; 26 July 1948 12 f 29 m.
 Stanley Co., Fort Pierre, 6 August 1948 6 f 2 m.

Additional records:

Montana, MacDonald Pass, 6 August 1947 1 specimen.
 _____, Placid Lake, 8 August 1947 6 specimens.

South Dakota ---- 364
 Montana ----- 7
 Total Collection 371

Empoasca saluta Delong, 1931b: 24
Type locality: Arizona

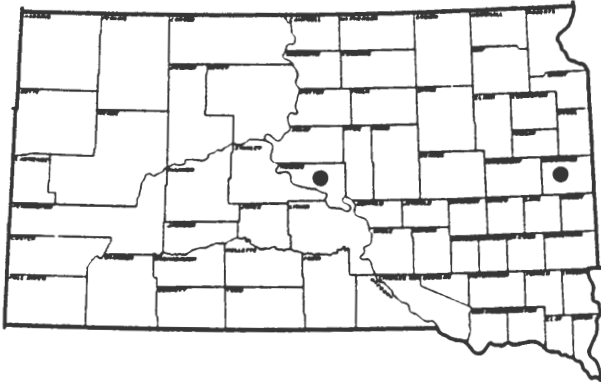


Records:

Bennett Co., Martin, 11 September 1948 1 f.
Hand Co., Vayland, 7 June 1949 1 f.
Hughes Co., Canning, 16 August 1950 1 f.
_____, Pierre, 26 June 1951 2 f 2 m; 16
June 1952 1 f; 21 July 1950 1 f; 22
July 1952 18 f 16 m.
Jackson Co., Interior, 15 June 1943 28 f
7 m; 15 June 1948 2 f.
Lawrence Co., Lead, 23 July 1947 1 f.
_____, Spearfish, 10 September 1948 3 f 2
m.
Pennington Co., Wall, 26 July 1948 5 f 4
m.
Stanley Co., Fort Pierre, 6 August 1948 4
f 1 m.
Union Co., Elk Point, 14 September 1948 2
f.

South Dakota ---- 102
Total Collection 102

Empoasca smaragdula (Fallen), 1806:37
Type locality: Sweden



Records:

Brookings Co., Brookings, 4 September
1952 1 f.
Hughes Co., Pierre, 9 June 1951 1 f; 22
July 1952 7 f 5 m.

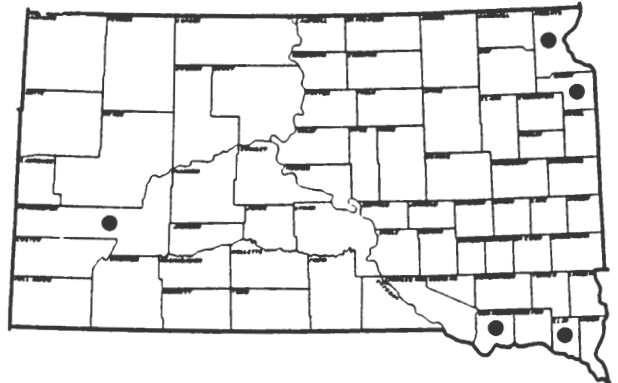
Additional records:

Colorado, Cameron Pass, 18 August 1952 17
specimens.

_____, Pingree Park, 22 August 1953 13
specimens.
Canada, Alberta, Bungalow Camp, 29 July
1946 2 specimens.
_____, Manitoba, Dolphin, 12 August 1949
1 specimen.
_____, _____, Gillam 14 August 1949 8
_____, Yukon Territory, Carcross, 7
August 1951 2 specimens.
_____, _____, Carmacks, 25 July
1951 31 specimens.
_____, _____, Casa reef, 25 July
1951 1 specimen.
_____, _____, Whitehorse, 7 August 1951 8
specimens.
Alaska, Circle Hot Springs, 4 August 1951
3 specimens.
_____, Fairbanks, 4 August 1951 48
specimens.
_____, Matanuska, 1 August 1951 7
specimens.
_____, Mt. McKinley National Park, 10
July 1951 1 specimen, 27 July 1951 33
specimens; 30 July 1951 27 specimens.
_____, Skagway, 8 August 1951 1 specimen;
9 August 1951 8 specimens.

South Dakota ---- 14
Colorado ----- 30
Canada ----- 48
Alaska ----- 128
Total Collection 220

Erythroneura affinis Fitch, 1851a:63
Type locality: New York

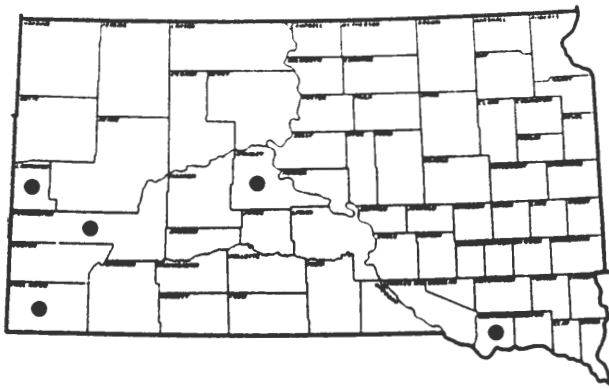


Records:

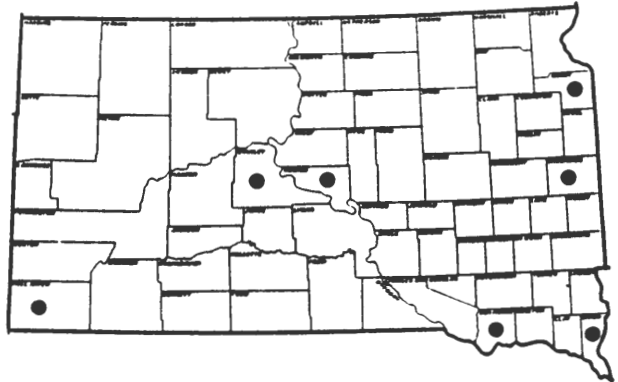
Bon Homme Co., Springfield, 13 September
1948 3 f 5 m.
Clay Co., Vermillion, 24 July 1945 1 f; 10
July 1946 4 f 1 m; 13 July 1946 1 m; 15
July 1946 2 f 1 m; 16 July 1946 2 f; 17
July 1946 2 f 4 m; 11 August 1946 1 f.
Grant Co., Big Stone City, 27 August 1921
1 f.
Pennington Co., Wall, 26 July 1948 5 f 4
m.
Roberts Co., Sisseton, 7 September 1948 2
f 1 m.

South Dakota ---- 40
Total Collection 40

Erythroneura aza Robinson, 1924c:291
Type locality: Kansas



Erythroneura calycula McAtee, 1920a:308
Type locality: Maryland



Records:

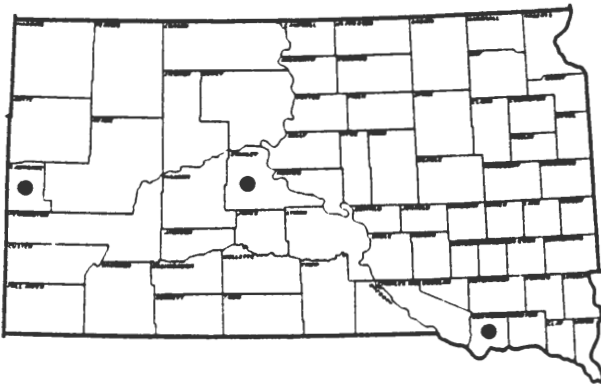
Bon Homme Co., Springfield, 18 September 1948 5 f 4 m.
Fall River Co., Hot Springs, 11 September 1948 1 f.
Lawrence Co., Spearfish Canyon, 4 August 1953 6 f 8 m.
_____, Spearfish, 28 June 1947 1 f 1 m;
10 September 1948 4 f.
Pennington Co., Pactola Lake, 10 September 1948 11 f 9 m.
Stanley Co., Fort Pierre, 16 August 1948 9 f 7 m.

Additional records:

Montana, Placid Lake, 8 August 1947 7 specimens.

South Dakota ---- 66
Montana ----- 7
Total Collection 73

Erythroneura beameri Robinson, 1924a:61
Type locality: Kansas



Records:

Bon Homme Co., Springfield, 18 September 1948 3 f 2 m.
Lawrence Co., Spearfish Canyon, 4 August 1953 1 f 1 m.
Stanley Co., Fort Pierre, 6 August 1948 3 f 3 m.

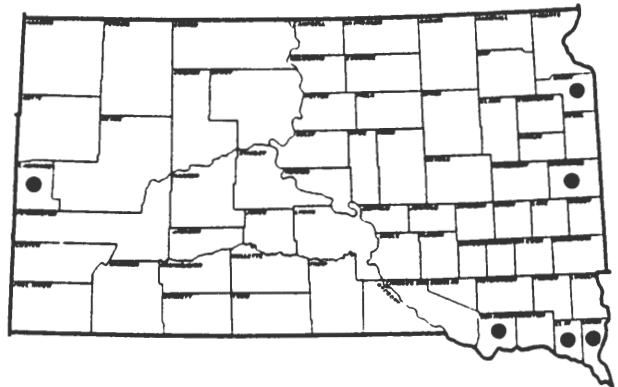
South Dakota ---- 13
Total Collection 13

Records:

Bon Homme Co., Springfield, 13 September 1948 1 f.
Brookings Co., Brookings, 4 September 1952 1 f.
Fall River Co., Hot Springs, 27 August 1922 1 f 1 m; 11 September 1948 1 f.
Grant Co., Big Stone City, 27 August 1921 1 f 2 m; 23 August 1948 6 f 6 m.
Hughes Co., Pierre, 17 June 1947 1 f.
Stanley Co., Fort Pierre, 6 August 1948 9 f 11 m; 20 September 1920 1 f; 21 September 1920 2 f 1 m.
Union Co., Elk Point, 14 September 1948 1 m.

South Dakota ---- 46
Total Collection 46

Erythroneura compora Robinson: 1924a:59
Type locality: Kansas



Records:

Bon Homme Co., Springfield, 19 August 1927 10 f 9 m; 13 September 1948 16 f 11 m.
Brookings Co., Brookings, 10 July 1946 1 f; 18 July 1946 1 f 2 m.
Clay Co., Vermillion, 20 July 1945 1 f; 10 July 1946 1 f; 13 July 1946 1 m; 15 July 1946 7 f 10 m; 16 July 194 5 f; 17 July 1946 3 f 4 m; 4 September 1946 1 f.
Grant Co., Marvin, 25 June 1953 7 f 8 m.
Lawrence Co., Redwater River, 4 August 1953 1 f.
Union Co., Elk Point, 4 July 1946 1 f; 10

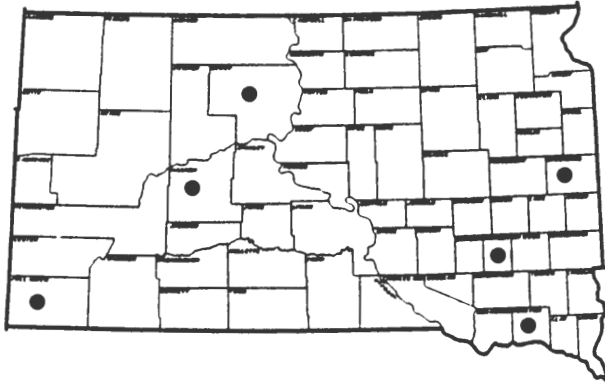
July 1946 3 f 4 m; 16 August 1946 1 f;
14 September 1948 8 f 8 m.

Additional records:

New Mexico, Albuquerque, 18 August 1953
68 specimens.

South Dakota ---- 126
New Mexico ----- 68
Total Collection 194

Erythroneura coloradensis (Gillette), 1892a:16
Type locality: Colorado

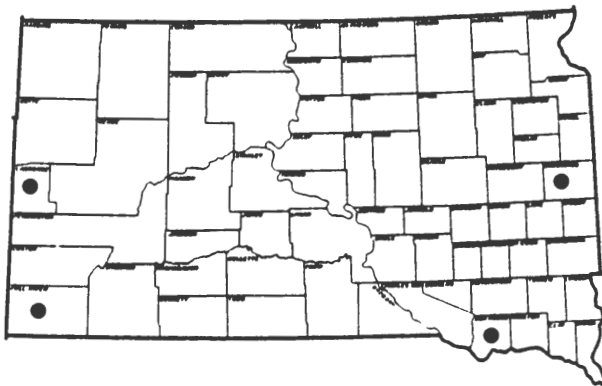


Records:

Brookings Co., Brookings, 26 June 1939 2
f; 8 August 1939 7 f 7 m.
Dewey Co., Firesteel, 26 July 1952 105 f
121 m.
Fall River Co., Hot Springs, 27 August
1922 18 f 25 m.
Haakon Co., Philip, 16 September 1919 3 f
3 m.
Hanson Co., Epiphany, 18 June 1939 1 f.
Yankton Co., Yankton, 7 August 1916 1 f.

South Dakota ---- 293
Total Collection 293

Erythroneura comes (Say), 1825a:343
Type locality: Missouri



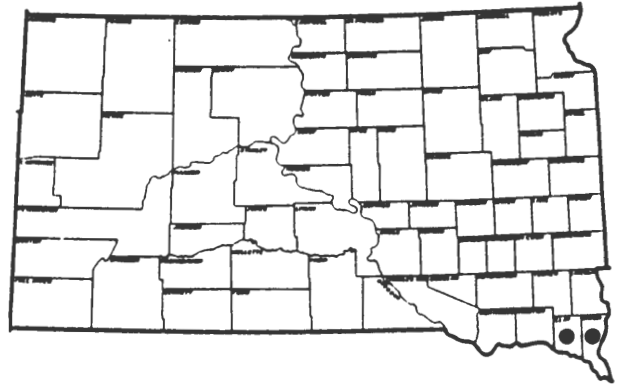
Records:

Bon Homme Co., Springfield, 18 September
1948 1 f 1 m.
Brookings Co., Brookings, 4 September
1952 2 f 1 m.

Fall River Co., Hot Springs, 27 August
1922 5 f 4 m.
Lawrence Co., Spearfish, 10 September
1948 1 f.

South Dakota ---- 15
Total Collection 15

Erythroneura corni Robinson, 1924a:60
Type locality: Kansas

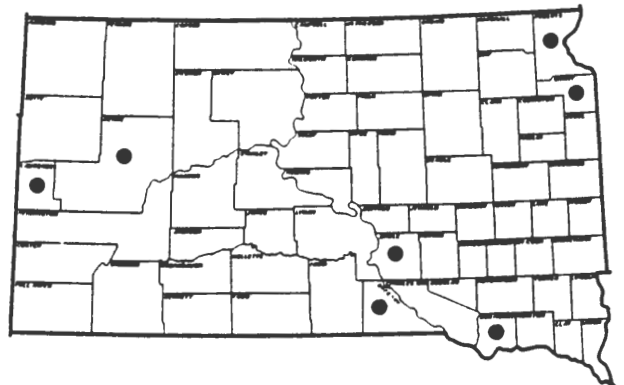


Records:

Clay Co., Vermillion, 28 July 1946 1 f 1
m.
Union Co., Elk Point, 24 June 1926 1 f 2
m; 15 September 1925 1 f; 4 September
1946 1 f 1 m.

South Dakota ---- 8
Total Collection 8

Erythroneura curvata Beamer, 1931a:132
Type locality: Kansas



Records:

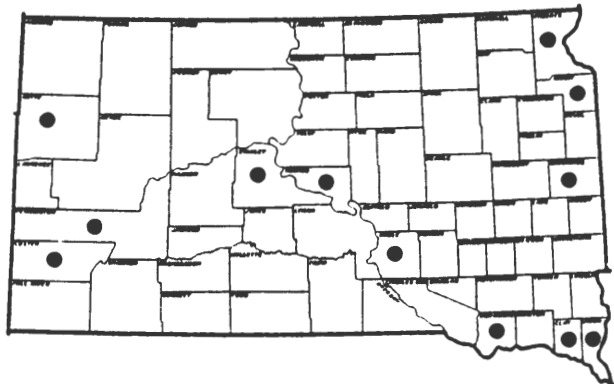
Bon Homme Co., Springfield, 13 September
1948 1 f.
Brule Co., Chamberlain, 17 June 1947 8 f
6 m.
Grant Co., Marvin, 25 June 1953 9 f 11 m.
Gregory Co., Bonesteel, 13 September 1948
1 f.
Lawrence Co., Lead, 11 September 1948 2
f.
Meade Co., Sturgis, 25 July 1947 1 m.
Roberts Co., Sisseton, 23 August 1946 1 f
2 m; 7 September 1948 12 f 19 m.

Additional records:

New Mexico, Albuquerque, 18 August 1953
10 specimens.

South Dakota ---- 71
New Mexico ----- 10
Total Collection 81

Erythroneura elegans McAtee, 1920a:315
Type Locality: Maryland



Records:

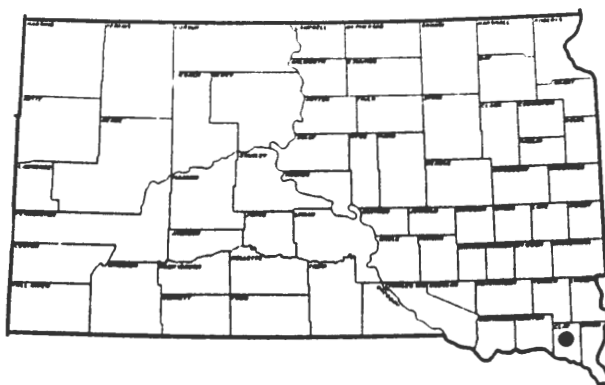
Bon Homme Co., Springfield, 13 September 1948 1 f.
Brookings Co., Brookings, 5 May 1930 1 f; 17 May 1930 1 m; 26 May 1930 1 f; 9 June 1930 1 f; 30 June 1930 1 m; 15 July 1918 1 f; 13 July 1919 1 m; 23 July 1927 5 f 6 m; 10 July 1946 7 f 10 m; 11 July 1946 3 f; 11 August 1946 8 f 5 m; 7 September 1920 1 f 2 m; 8 September 1920 6 f 3 m; 23 September 1945 1 f; 21 September 1946 18 f 7 m; 24 September 1946 32 f 55 m; 17 September 1947 1 f; 1 September 1948 3 f 1 m; 4 September 1952 2 f 2 m.
Brule Co., Chamberlain, 14 September 1946 1 f.
Butte Co., Nisland, 13 August 1952 2 f; 18 August 1942 10 f 8 m.
Clay Co., Vermillion, 16 July 1946 1 f; 21 September 1946 1 f.
Custer Co., State Game Lodge, 12 August 1952 1 f.
Grant Co., Big Stone City, 23 August 1948 1 f; 27 August 1948 1 f 1 m.
Hughes Co., Pierre, 21 June 1949 1 f.
Pennington Co., Pactola Lake, 10 September 1948 1 f.
Roberts Co., Sisseton, 7 September 1948 3 f 3 m; 17 June 1952 1 f 1 m.
Stanley Co., Fort Pierre, 6 August 1948 3 f 2 m; 21 September 1920 1 f.
Union Co., Elk Point, 15 September 1946 1 f 2 m.

Additional records:

New Mexico, Albuquerque, 18 August 1953
160 specimens.
Canada, Manitoba, Dolphin, 12 August 1949
1 specimen.

South Dakota ---- 280
New Mexico ----- 160
Canada ----- 1
Total collection 441

Erythroneura fumida (Gillette), 1898a:758
Type Locality: Kansas

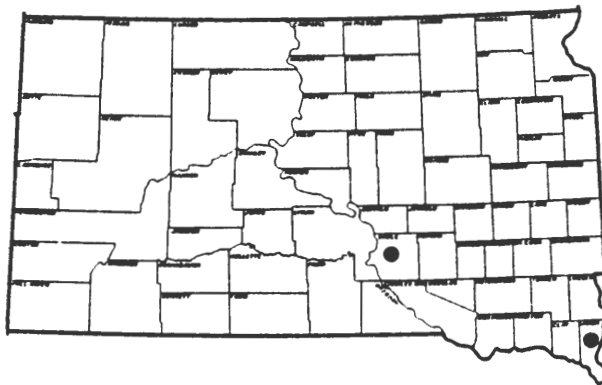


Records:

Clay Co., White, 27 August 1921 1 f; 25 September 1925 1 f 2 m.

South Dakota ---- 4
Total Collection 4

Erythroneura magnacalx Beamer, 1930b:451
Type Locality: Kansas

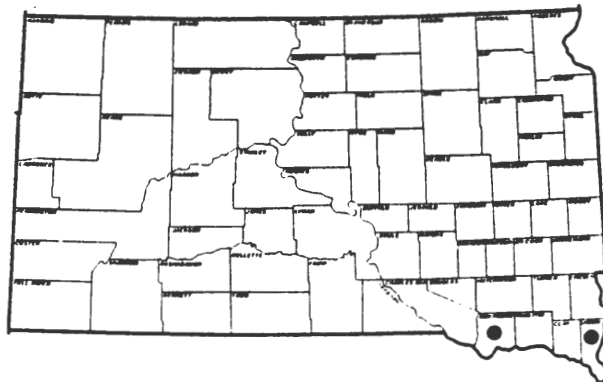


Records:

Brule Co., Chamberlain, 14 September 1946
3 f 2 m.
Union Co., Elk Point, 16 August 1947 2 f 2 m.

South Dakota ---- 9
Total Collection 9

Erythroneura nigra (Gillette), 1898a:765
Type Locality: Illinois

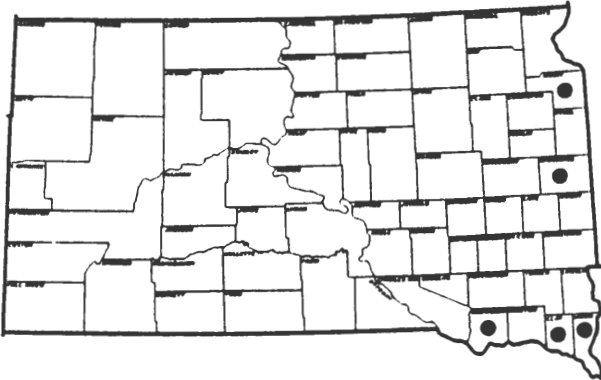


Records:

Bon Homme Co., Springfield, 13 September 1948 3 f 3 m.
Union Co., Elk Point, 14 September 1948 1 f 2 m.

South Dakota ---- 9
Total Collection 9

Erythroneura obliqua (Say), 1825a:342
Type locality: United States

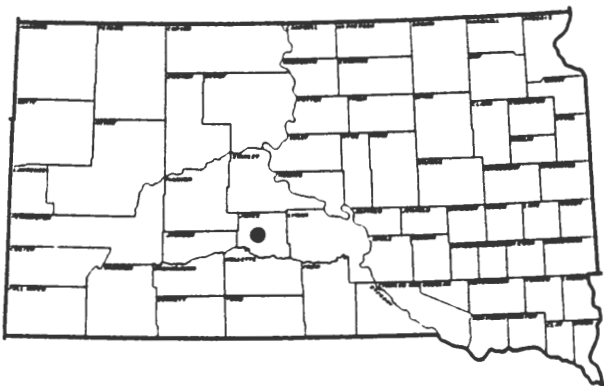


Records:

Bon Homme Co., Springfield, 13 September 1948 1 f 3 m.
Brookings Co., White, 25 September 1925 2 f.
Clay Co., Vermillion, 4 September 1946 1 f.
Grant Co., Big Stone City, 23 August 1948 1 f 2 m.
Union Co., Elk Point, 15 September 1946 1 f; 14 September 1948 2 f.

South Dakota ---- 14
Total Collection 14

Erythroneura plena Beamer, 1930b:442
Type Locality: Kansas



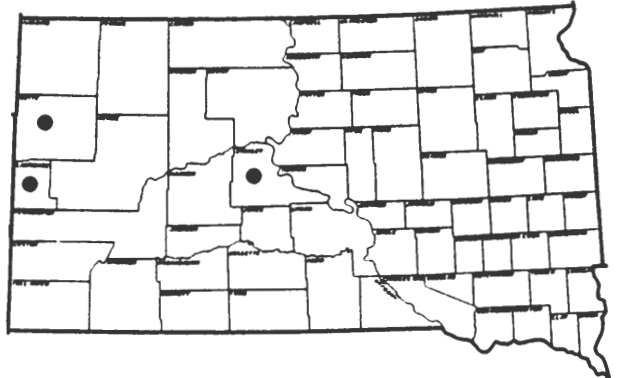
Records:

Jones Co., Capa, 10 May 1922 1 f; 24 September 1920 1 f 3 m.

South Dakota ---- 5

Total Collection 5

Erythroneura pura Knull, 1954d:38
Type locality: South Dakota

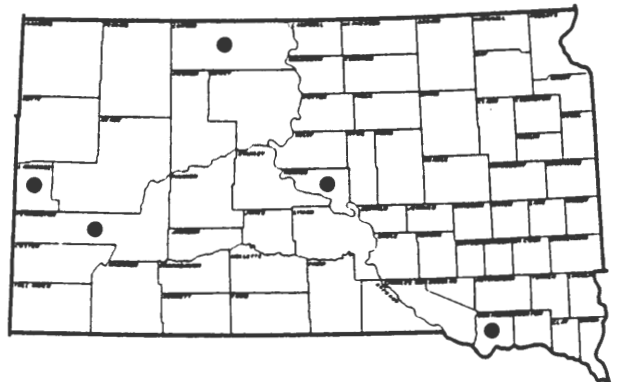


Records:

Butte Co., Misland, 13 August 1952 2 f.
Lawrence Co., Spearfish, 10 September 1948 82 f 83 m.
Stanley Co., Fort Pierre, 6 August 1948 1 f.

South Dakota ---- 168
Total Collection 168

Erythroneura rosa Robinson, 1924a:58
Type locality: Kansas



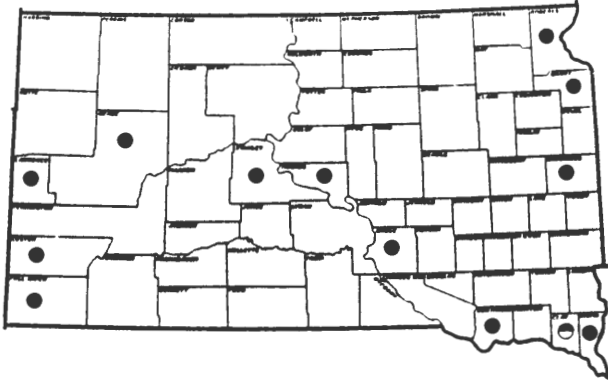
Records:

Bon Homme Co., Springfield, 13 September 1948 1 f.
Corson Co., McLaughlin, 8 September 1948 1 f.
Hughes Co., Pierre, 23 June 1950 1 m.
Lawrence Co., Lead, 11 September 1948 15 f 7 m.
_____, Spearfish, 10 September 1948 1 f.
Pennington Co., Pactola Lake, 10 September 1948 2 f.

South Dakota ---- 28
Total Collection 28

Erythroneura tricincta Fitch, 1851a:63
Type locality: New York

Records:

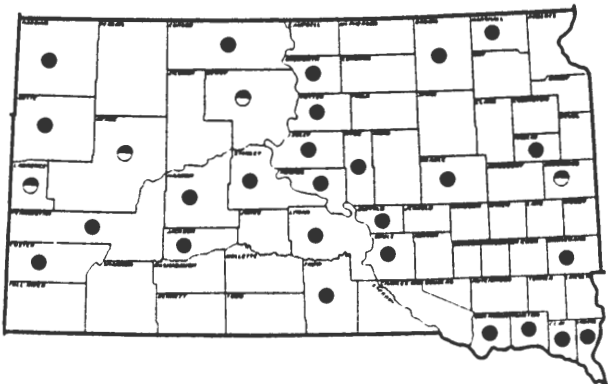


Records:

Bon Homme Co., Springfield, 14 September 1925 1 f; 13 September 1948 3 f 5 m.
 Brookings Co., Brookings, 21 September 1946 1 f; 4 September 1952 3 f 2 m.
 Brule Co., Chamberlain, 14 September 1946 2 f.
 Clay Co., Meckling, 14 September 1948 1 f.
 _____, Vermillion, 24 July 1945 1 m; 16 July 1946 1 f 2 m; 14 September 1948 1 f.
 _____, Wakonda, 25 September 1925 1 f.
 Custer Co., State Game Lodge, 2 August 1952 1 f.
 Fall River Co., Hot Springs, 24 August 1922 2 f 2 m; 11 September 1948 1 f.
 Grant Co., Big Stone City, 27 August 1921 4 f; 28 August 1948 3 f 2 m.
 Hughes Co., Pierre, 1 September 1921 1 f 1 m.
 Lawrence Co., Spearfish Canyon, 4 August 1953 3 f 2 m.
 Meade Co., Sturgis, 26 May 1951 1 f.
 Roberts Co., Sisseton, 7 September 1948 1 f.
 Stanley Co., Fort Pierre, 6 August 1948 14 f 8 m.
 Union Co., Elk Point, 14 September 1948 6 f 5 m.

South Dakota ---- 81
 Total Collection 81

Erythroneura vitifex (Fitch), 1856a:392
 Type locality: New York

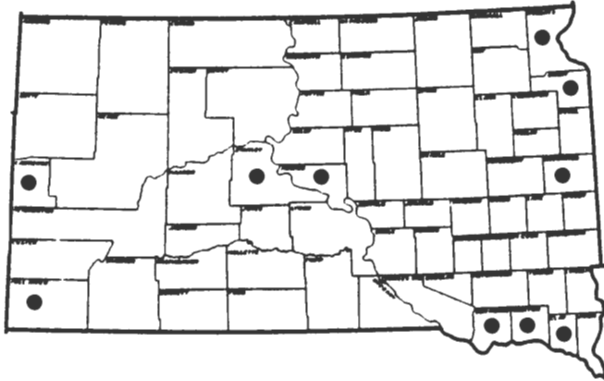


Beadle Co., Wolsey, 2 June 1944 1 f.
 Bon Homme Co., Springfield, 13 September 1948 2 f 4 m.
 _____, Tabor, 20 June 1924 1 f 1 m.
 Brookings Co., Brookings, 15 June 1944 1 f; 7 June 1946 1 f 1 m; 7 July 1943 1 f; 25 July 1950 1 f; 2 August 1942 1 f; 21 September 1946 5 f 7 m; 16 September 1947 1 f 1 m; 17 September 1947 2 f 1 m; 18 September 1947 1 f; 22 September 1947 4 f 3 m; 30 September 1947 3 f; 6 September 1948 28 f 27 m; 4 September 1952 60 f 52 m.
 _____, Lake Oakwood, 14 June 1946 1 f.
 _____, White, 28 May 1925 1 f; 22 July 1935 1 f 1 m; 25 September 1925 1 f.
 Brown Co., Hecla, 17 June 1943 1 f; 20 June 1944 1 f; 16 July 1944 1 f; 7 September 1948 1 f 1 m.
 Brule Co., Chamberlain, 5 June 1947 1 f; 17 June 1947 1 f 1 m; 18 June 1947 1 f; 14 September 1946 5 f 4 m.
 Buffalo Co., Fort Thompson, 27 June 1943 1 f; 21 June 1944 1 f 2 m; 12 August 1943 2 f; 1 September 1943 4 f 4 m.
 Butte Co., Belle Fourche, 24 June 1928 1 f.
 _____, Nisland, 21 July 1947 2 f 2 m.
 Clay Co., Meckling, 14 September 1948 1 f.
 _____, Vermillion, 4 September 1946 1 f.
 Corson Co., McLaughlin, 8 September 1948 1 m.
 Custer Co., State Game Lodge, 27 August 1921 1 f; 25 August 1952 2 f 4 m.
 Dewey Co., Cheyenne Agency, 25 June 1947 1 f 2 m.
 _____, Eagle Butte, 6 August 1948 1 f.
 _____, Lantry, 28 June 1947 1 f.
 Haakon Co., Midland, 23 June 1951 1 f 1 m.
 Hamlin Co., Lake Poinsett, 7 September 1948 1 f.
 Harding Co., Buffalo, 28 June 1947 3 f 1 m; 10 September 1948 2 f.
 Hughes Co., Canning, 16 August 1950 1 m.
 _____, Pierre, 11 September 1921 1 f.
 Hyde Co., Highmore, 14 June 1948 1 f, 1 August 1946 1 f 1 m.
 Jackson Co., Kadoka, 19 July 1950 1 f.
 Lawrence Co., Englewood, 18 June 1925 1 f 2 m; 26 July 1947 1 f; 11 September 1948 1 m.
 _____, Lead, 23 July 1947 2 f 1 m; 11 September 1948 1 f 1 m.
 _____, Spearfish, 28 June 1947, 2 f; 16 July 1944 1 f; 10 September 1948 1 f.
 _____, Spearfish Canyon, 4 August 1953 5 f 4 m.
 Lyman Co., Lyman, 12 September 1946 3 f 1 m.
 Marshall Co., Eden, 25 June 1953 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 4 f 3 m.
 _____, Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 1 f 1 m.
 Minnehaha Co., Sioux Falls, 21 August 1949 5 f 2 m.
 Pennington Co., Hill City, 8 July 1946 2 m; 14 July 1946 1 f 1 m.
 Potter Co., Gettysburg, 26 June 1947 1 f; 27 June 1947 2 m.
 Stanley Co., Fort Pierre, 6 August 1948 115 f 132 m; 21 September 1920 4 f 3 m; 21 September 1920 5 f 2 m.
 Sully Co., Agar, 7 July 1944 1 f.
 Tripp Co., Winner, 21 July 1950 1 f.

Union Co., Elk Point, 7 June 1946 1 f ; 3
 June 1953 1 f 1 m; 17 July 1946 1 f; 1
 August 1946 1 m; 14 September 1948 10 f
 8 m.
 Walworth Co., Selby, 11 August 1942 1 f.
 Yankton Co., Yankton, 20 June 1924 1 f 1
 m; 6 August 1923 3 f.

South Dakota ---- 629
 Total Collection 629

Erythroneura vitis (Harris), 1831a:43
 Type Locality: Massachusetts

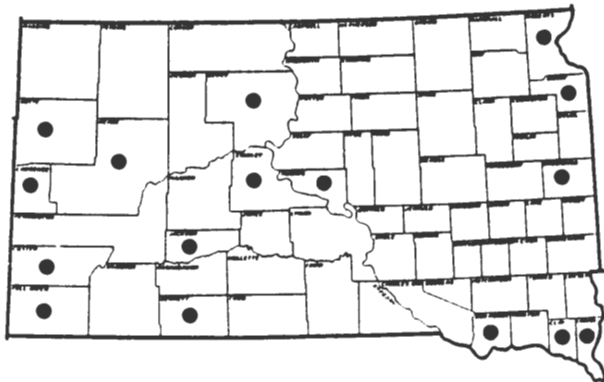


Records:

Bon Homme Co., Springfield, 18 September
 1948 6 f 4 m.
 Brookings Co., Brookings, 23 May 1930 1 f;
 30 June 1930 1 m; 21 September 1946 1 f;
 1 September 1948 1 m.
 Clay Co., Vermillion, 14 September 1948 1 f.
 Fall River Co., Hot Springs, 27 August
 1929 1 f; 17 September 1949 3 f 3 m.
 Grant Co., Big Stone City, 23 August 1948
 12 f 11 m.
 Hughes Co., Pierre, 11 September 1921 1 f.
 Lawrence Co., Spearfish, 10 September
 1948 1 f 1 m.
 Roberts Co., Sisseton, 29 August 1921 14
 f 9 m.
 Stanley Co., Fort Pierre, 6 August 1948
 18 f 6 m.
 Yankton Co., Yankton, 6 August 1943 5 f
 10 m.

South Dakota ---- 135
 Total Collection 135

Erythroneura vulnerata Fitch, 1851a:61
 Type Locality: New York

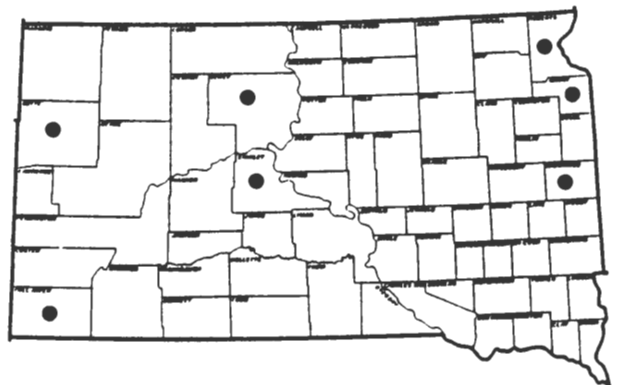


Records:

Bennett Co., Martin, 11 September 1948 3 f.
 Bon Homme Co., Springfield, 14 September
 1925 1 f; 13 September 1948 14 f 7 m.
 Brookings Co., Brookings, 8 September
 1920 1 f; 21 September 1946 18 f 18 m;
 6 September 1948 9 f 5 m; 4 September
 1952 12 f 25 m.
 Butte Co., Newell, 29 June 1923 5 f 8 m.
 Clay Co., Vermillion, 8 July 1946 1 f; 3
 August 1946 1 f; 16 August 1946 1 f; 4
 September 1946 1 f; 14 September 1948
 1 f.
 Custer Co., State Game Lodge, 12 August
 1952 1 f 1 m.
 Dewey Co., Firesteel, 26 July 1952 16 f
 5 m.
 Fall River Co., Hot Springs, 27 August
 1922 8 f 10 m.
 Grant Co., Big Stone City, 27 August 1921
 2 f; 23 August 1948 5 f 5 m; 8
 September 1946 1 f.
 Hughes Co., Pierre, 21 July 1950 1 f; 11
 September 1921 2 f 2 m.
 Jackson Co., Interior, 15 June 1943 1 f.
 Lawrence Co., Spearfish, 4 August 1948 4
 f 3 m; 10 September 1948 3 f.
 _____, Spearfish Canyon, 4 August 1958 6 f.
 Meade Co., Sturgis, 21 July 1947 2 f; 25
 July 1947 1 f.
 Roberts Co., Sisseton, 29 August 1921 1
 f.
 Stanley Co., Fort Pierre, 6 August 1948
 12 f 22 m; 20 September 1920 2 f; 21
 September 1920 1 f.
 Union Co., Elk Point, 15 September 1925 1
 f; 14 September 1948 13 f.

South Dakota ---- 258
 Total Collection 258

Erythroneura ziczac Walsh, 1862a:149
 Type Locality: North America



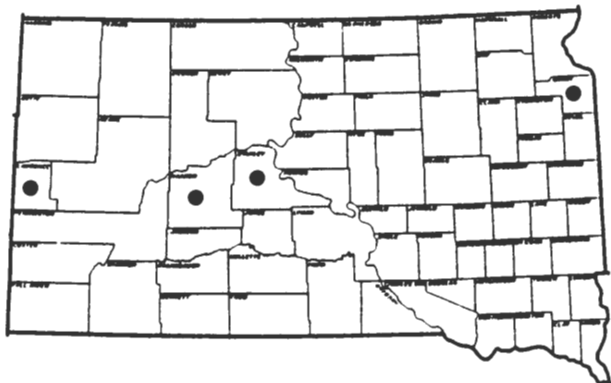
Records:

Brookings Co., Brookings, 23 March 1920 5
 f 7 m; 18 March 1930 1 f; 6 May 1930 1
 f; 17 May 1930 1 f 1; 20 May 1930 2 f
 2 m; 26 May 1930 6 f 20 m; 9 June 1930
 4 f 6 m; 24 June 1930 3 f 1 m; 30 June
 1930 1 f; 6 June 1946 1 f; 15 July
 1918 3 f; 13 July 1919 1 f; 23 July
 1927 4 f 3 m; 10 July 1946 2 m; 21
 September 1946 4 f 3 m; 16 September
 1947 1 f; 30 July 1950 1 f; 4
 September 1952 1 m.
 Butte Co., Nisland, 10 August 1952 4 f; 8

August 1952 5 f 3 m.
 Dewey Co., Firststeel, 26 July 1952 4 f 2
 m.
 Fall River Co., Hot Springs, 27 August
 1922 8 f 7 m.
 Grant Co., Big Stone City, 21 August 1921
 1 f; 23 August 1948 1 m.
 Roberts Co., Sisseton, 29 August 1921 3
 f.
 Stanley Co., Fort Pierre, 6 August 1948 6
 f 5 m; 21 September 1920 1 f.

South Dakota ---- 118
 Total Collection 118

Hymetta balteata McAtee, 1919a:123
 Type locality: Plummer Island

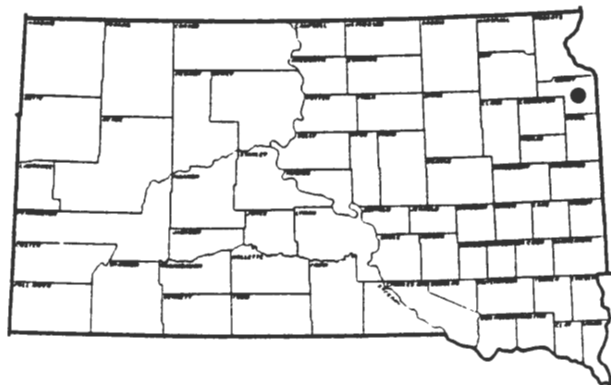


Records:

Grant Co., Big Stone City, 23 August 1948
 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Lawrence Co., Spearfish, 10 September
 1948 1 f.
 Stanley Co., Fort Pierre, 6 August 1948
 18 f 15 m.

South Dakota ---- 37
 Total Collection 37

Ossiannilssonola berenice (McAtee) 1926a:138
 Type locality: District of Columbia



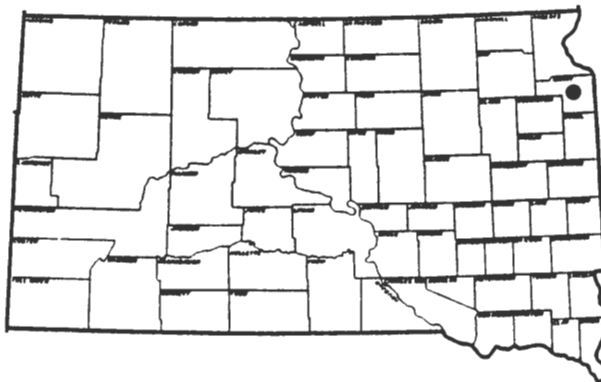
Records:

Grant Co., Marvin, 25 June 1953 18 f 23 m.

South Dakota ---- 41

Total Collection 41

Typhlocyba cassiopeia Knull, 1944d:269
 Type locality: Colorado

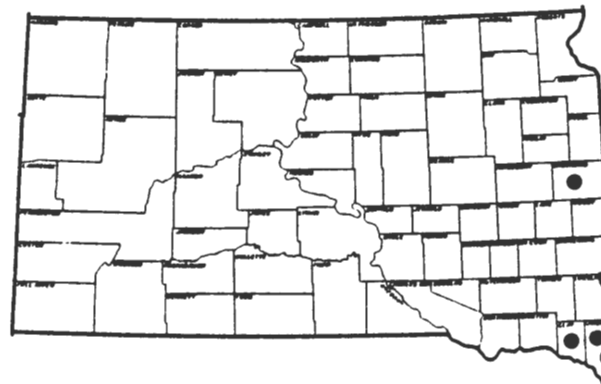


Records:

Grant Co., Marvin, 25 June 1953 6 f 4 m.

South Dakota ---- 10
 Total Collection 10

Typhlocyba modesta Gibson, 1917a:184
 Type locality: Missouri

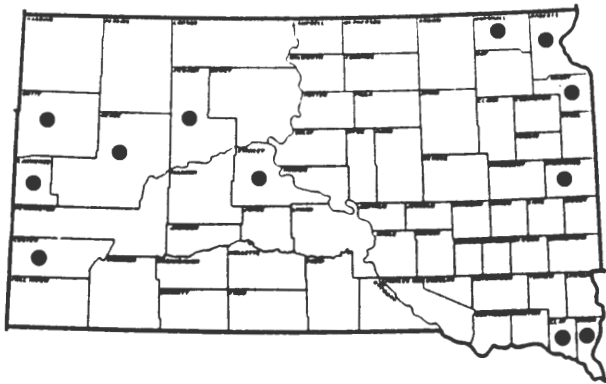


Records:

Brookings Co., Brookings, 24 June 1919
 1 f; 27 June 1921 1 f; 13 June 1946 3
 f 5 m; 5 July 1945 1 f; 18 July 1945 1
 f; 7 September 1920 1 f 1 m; 8
 September 1920 1 m; 15 September 1920
 1 f; 1 September 1948 1 f; 4 September
 1952 1 m.
 Clay Co., Vermillion, 6 June, 1946 3 f 2
 m; 18 June 1946 1 f; 3 July 1945 1 f;
 9 August 1945 1 f; 15 August 1945 1 f
 1 m; 16 August 1946 1 f 1 m; 1
 September 1945 1 f.
 Union Co., Elk Point, 6 June 1946 2 f; 23
 July 1946 1 f; 16 August 1944 1 f 1 m;
 27 August 1946 1 f; 15 September 1946
 1 f 1 m.

South Dakota 35
 Total Collection 35

Typhlocyba pomaria McAtee, 1926a:29
 Type locality: Pennsylvania



Records:

Brookings Co., 14 June 1921 1 f 1 m; 17 June 1921 2 f; 19 June 1921 1 f; 21 June 1921 1 f; 23 June 1921 1 f; 29 June 1921 2 f 4 m; 21 June 1943 3 m; 22 June 1943 1 f 2 m; 24 June 1945 4 f 3 m; 29 June 1945 2 f; 8 June 1946 2 f; 11 June 1946 1 f; 13 June 1945 2 f; 10 July 1919 1 f; 17 July 1919 1 f; 3 July 1921 1 f; 6 July 1945 1 f; 8 July 1945 1 f; 6 August 1946 3 f 1 m; 11 August 1946 1 f; 27 August 1949 4 f; 21 August 1946 1 f 2 m; 29 September 1946 7 f; 30 September 1947 5 f; 1 September 1948 1 f; 6 September 1948 12 f 8 m; 7 September 1950 18 f 14 m; 4 September 1952 38 f 48 m.

Butte Co., Nisland, 13 August 1952 1 f 2 m.

Clay Co., Meckling, 14 September 1948 1 f.

_____, Vermillion, 6 June 1946 6 f 6 m; 29 June 1946 1 f; 15 July 1946 1 f; 21 September 1946 3 f; 1 October 1946 1 f.

Custer Co., State Game Lodge, 12 August 1952 21 f 25 m.

Grant Co., Big Stone City, 27 August 1921 1 f; 28 August 1948 1 f; 8 September 1946 1 m.

_____, Marvin, 25 June 1953 6 f 5 m.

Lawrence Co., Deadwood, 9 September 1925 1 f.

_____, Spearfish, 6 September 1948 1 f; 10 September 1948 1 f.

Marshall Co., Eden, 25 June 1953 7 f 7 m.

Meade Co., Sturgis, 26 May 1951 1 m.

Roberts Co., Sisseton, 7 September 1948 1 f.

Stanley Co., Fort Pierre, 21 September 1920 3 f.

Union Co., Elk Point, 16 August 1946 1 m; 15 September 1946 1 f 1 m.

Ziebach Co., Dupree, 25 June 1947 1 f.

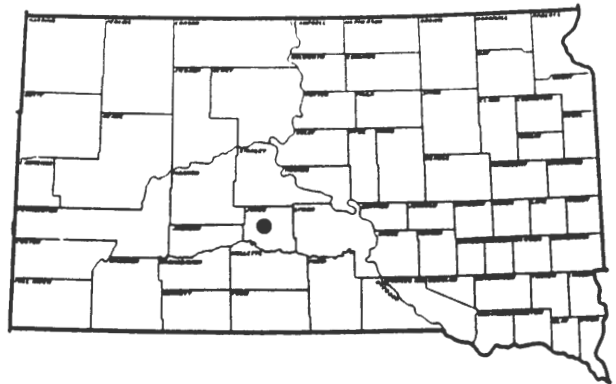
Additional Records:

Alaska, Fairbanks, 4 August 1951 2 specimens.

South Dakota ---- 311
Alaska ----- 2
Total Collection 313

DELTOCEPHALIDAE - Deltocephalinae

Acinopterus acuminatus Van Duzee 1892e:308
Type locality: Maryland

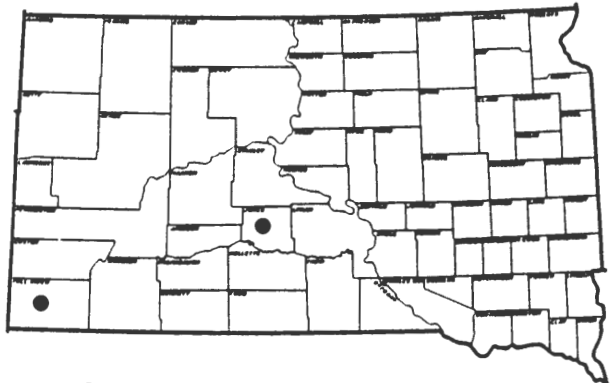


Records:

Jones Co., Capa, 19 August 1919 1 f; 30 August 1919 1 f 1 m.

South Dakota ---- 3
Total Collection 3

Acinopterus bakeri Lawson, 1927b:238
Type locality: Arizona



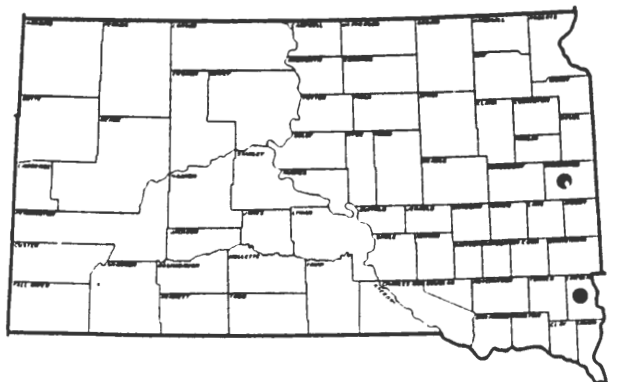
Records:

Fall River Co., Hot Springs, 27 August 1922 1 f.

Jones Co., Capa, 27 August 1919 1 f; 30 August 1919 1 f 3 m; 24 August 1922 2 f 1 m.

South Dakota ---- 9
Total Collection 9

Amblysellus curtisii (Fitch), 1851a:61
Type locality: New York



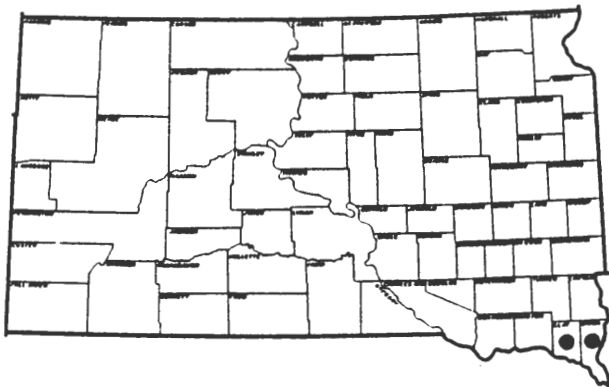
Ecological habitat: Collected associated with Kentucky bluegrass in Eastern South Dakota.

Records:

Brookings, Co., Brookings, 9 September 1920 13 f 15 m; 21 September 1946 2 f; 29 September 1946 1 f 1 m.
Lincoln Co., Canton, 26 June 1946 10 f 4 m.

South Dakota ---- 46
Total Collection 46

Amplicephalus osborni (Van Duzee), 1892d:304
Type locality: New York



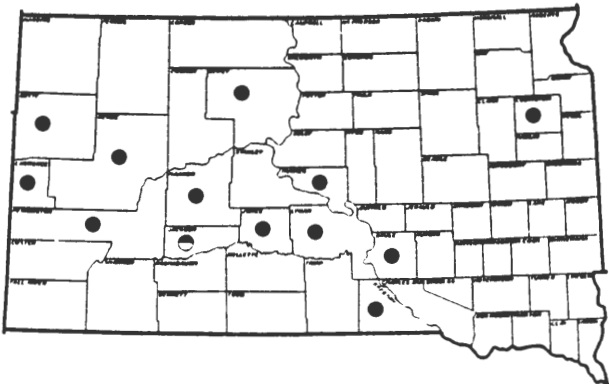
Ecological habitat: Collected along Missouri River bank where river forms marsh areas in southeastern South Dakota.

Records:

Clay Co., Vermillion, 18 June 1946 3 f; 28 June 1946 7 f 7 m; 24 July 1945 1 m; 8 July 1946 1 f; 16 August 1946 1 f.
Union Co., Elk Point, 17 June 1946 2 f; 28 July 1945 1 m; 30 July 1945 2 f 1 m; 1 July 1946 1 f; 8 July 1946 7 f 5 m; 10 July 1946 4 f 9 m; 16 July 1946 1 f; 17 July 1946 1 m; 23 July 1946 1 f; 10 July 1948 1 m; 1 August 1946 1 f; 6 August 1946 1 m; 27 August 1946 1 f.

South Dakota ---- 59
Total Collection 59

Athysanella (Gladionura) argenteola (Uhler), 1877a:473
Type locality: Colorado



Records:

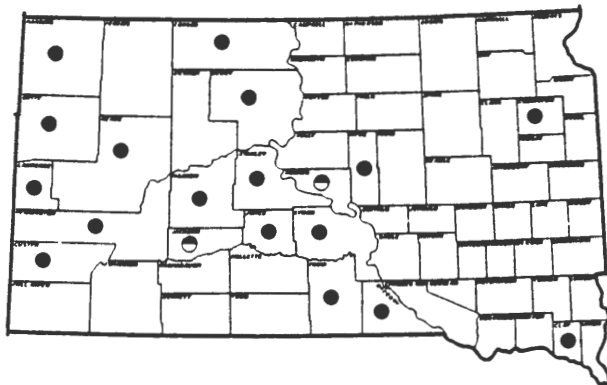
Brule Co., Chamberlain, 17 June 1947 1 f.
Butte Co., Newell, 27 May 1951 1 m; 28 June 1923 1 f.
Codington Co., Florence, 7 September 1948 1 f.
Dewey Co., Eagle Butte, 6 August 1948 1 f 2 m.
Gregory Co., Dallas, 21 July 1950 1 f.
Haakon Co., Midland, 23 May 1951 2 f.
_____, Philip, 23 June 1923 1 f; 7 August 1948 1 m.
Hughes Co., Canning, 26 July 1948 2 f 4 m; 7 August 1948 6 f 5 m; 16 August 1950 25 f 38 m.
Jackson Co., Cottonwood, 24 June 1950 4 f 6 m; 21 July 1950 27 f 20 m; 26 July 1948 10 f 5 m.
_____, Interior, 15 June 1943 6 f 5 m; 22 July 1948 1 f.
_____, Kadoka, 19 July 1950 108 f 111 m.
Jones Co., Capa, 10 May 1922 5 f 3 m; 1 June 1921 6 f; 15 August 1922 1 f.
Lawrence Co., Spearfish, 28 June 1947 1 f.
Lyman Co., Kennebec, 7 July 1947 15 f 9 m; 8 July 1947 6 f; 17 July 1947 10 f 28 m.
Meade Co., Fox Ridge, 28 June 1947 3 f.
_____, Sturgis, 26 May 1951 1 f.
Pennington Co., Wall, 21 July 1947 10 f 4 m; 26 July 1948 3 f 9 m.

Additional Records:

Utah, Bryce National Park, 30 August 1950 1 specimen.
_____, Zion Park, 28 August 1950 2 specimens.

South Dakota ---- 509
Utah ----- 3
Total Collection 512

Athysanella (Amphipyga) attenuata Baker, 1898a:188
Type locality: Colorado



Records:

Butte Co., Newell, 27 May 1951 2 f; 26 June 1950 1 f 3 m; 21 July 1947 1 f 1 m.
_____, Nisland, 16 August 1950 2 f.
Clay Co., Meckling, 16 June 1926 1 f; 14 September 1948 1 f.
Codington Co., Florence, 7 September 1948 2 f 1 m.
Corson Co., Walker, 8 September 1948 1 f.

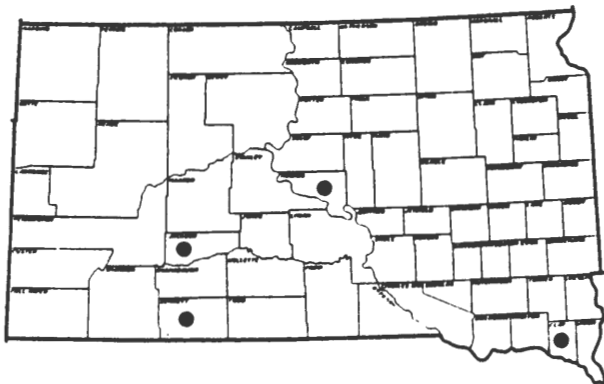
Custer Co., Custer, 28 June 1947 2 f; 29 June 1950 1 m.
 Dewey Co., Eagle Butte, 6 August 1948 39 f 22 m.
 Gregory Co., Dallas, 21 July 1950 3 f 1 m.
 _____, Gregory, 18 June 1931 1 f.
 Haakon Co., Philip, 18 July 1950 7 f 5 m; 7 August 1948 4 f 2 m.
 Harding Co., Reva, 8 September 1948 1 f.
 Hughes Co., Blunt, 7 June 1950 1 f.
 _____, Canning, 16 August 1950 31 f 47 m.
 _____, Pierre, 9 June 1951 3 f; 17 June 1947 1 f.
 Hyde Co., Highmore, 17 May 1951 20 f 2 m; 1 June 1948 1 f; 14 August 1949 1 f; 21 August 1949 1 f.
 Jackson Co., Cottonwood, 9 June 1949 1 f; 15 June 1949 3 f 4 m; 21 June 1950 2 f; 24 June 1950 1 f 4 m; 26 July 1948 17 f 16 m.
 _____, Interior, 15 June 1943 3 f; 22 July 1948 1 f.
 _____, Kadoka, 19 July 1950 20 f 12 m.
 Jones Co., Capa, 24 August 1922 2 f.
 Lawrence Co., Englewood, 20 July 1928 1 f; 27 July 1947 1 f.
 _____, Spearfish, 28 June 1947 1 f.
 Lyman Co., Kennebec, 7 July 1947, 11 f 8 m; 8 July 1947 2 f 15 m; 17 July 1947 21 f 25 m.
 _____, Presho, 17 June 1947 2 m.
 Meade Co., Sturgis, 26 May 1951 4 f 9 m.
 Pennington Co., Wall, 21 July 1947 1 f; 26 July 1948 19 f 6 m.
 Stanley Co., Fort Pierre, 23 May 1951 9 f 6 m.
 Tripp Co., Winner, 21 July 1950 8 f 11 m.

Additional Records:

Kansas, Kinsley, 1 September 1950 3 specimens.
 Wyoming, Wamsutter, 25 August 1950 5 specimens.

South Dakota ---- 223
 Kansas ----- 3
 Wyoming ----- 5
 Total Collection 231

Athysanella (Athysanella) bifida Ball and Beamer, 1940a:23
 Type locality: New Mexico

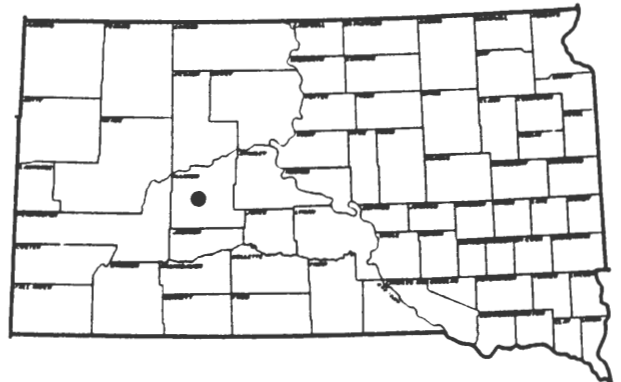


Records:

Bennett Co., Martin, 11 September 1948 1 f.
 Clay Co., Meckling, 14 September 1948 1 m.
 Hughes Co., Canning, 7 August 1948 1 f; 16 August 1950 15 f 8 m.
 Jackson Co., Kadoka, 19 July 1950 9 f 17 m.

South Dakota ---- 52
 Total Collection 52

Athysanella (Gladionura) contracta Ball and Beamer, 1940a:61
 Type locality: Kansas

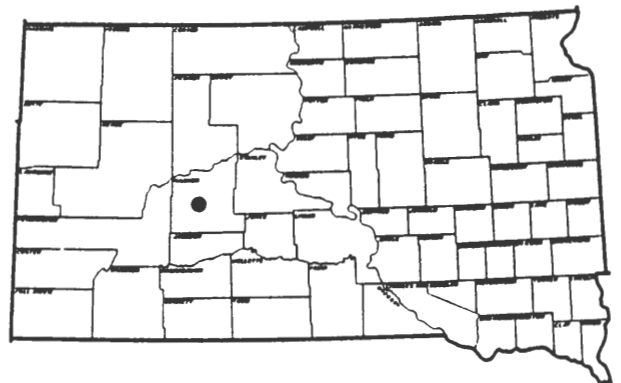


Records:

Haakon Co., Medland, 23 May 1951 5 f 7 m.

South Dakota ---- 12
 Total Collection 12

Athysanella (Athysanella) gardenia Osborn, 1930a:701
 Type locality: Colorado

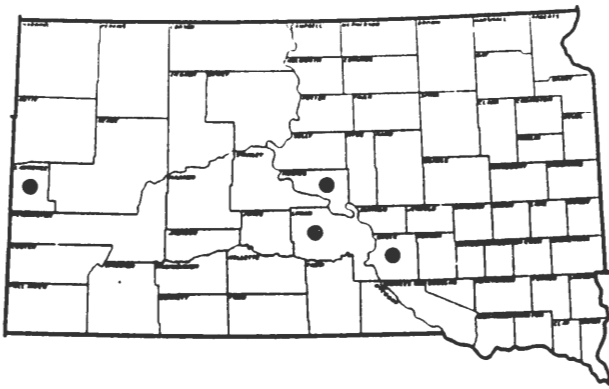


Records:

Haakon Co., Midland, 23 May 1951 7 f 8 m.

South Dakota ---- 15
 Total Collection 15

Athysanella (Athysanella) incongrua Baker, 1898a:188
 Type locality: Colorado



Additional Records:

North Dakota, Medora, 26 August 1947 2 specimens.
 Montana, Placid Lake, 15 August 1947 1 specimen.

South Dakota ---- 474
 North Dakota ---- 2
 Montana ----- 1
 Total Collection 477

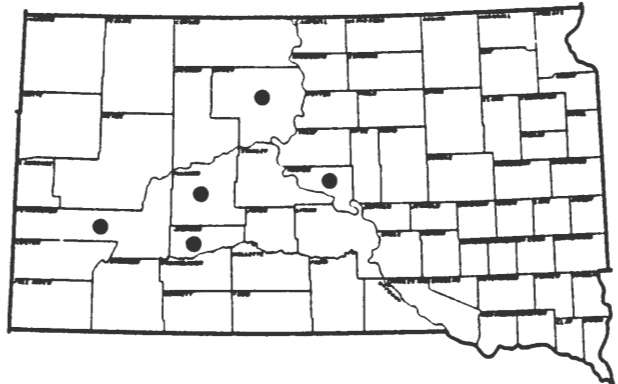
Athysanella (Amphipyga) obesa Ball and Beamer, 1940a:34
 Type locality: Arizona

Records:

Brule Co., Chamberlain, 17 June 1947 1 f.
 Hughes Co., Pierre, 25 July 1947 1 f 1 m.
 Lawrence Co., Spearfish, 28 June 1947 3 f 3 m.
 Lyman Co., Kennebec, 17 July 1947 2 f.

South Dakota ---- 11
 Total Collection II

Athysanella (Athysanella) kadokana Knull, 1951c:180
 Type locality: South Dakota

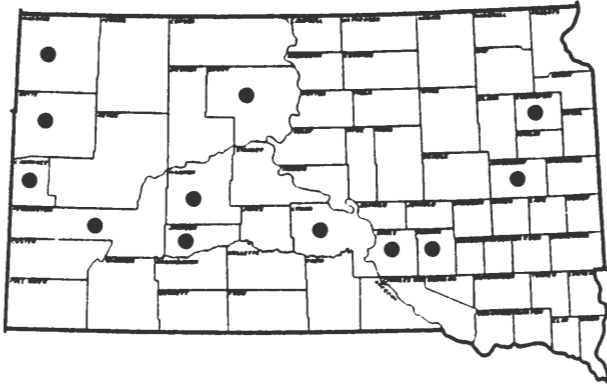


Records:

Dewey Co., Eagle Butte, 6 August 1948 8 f 5 m.
 Haakon Co., Philip, 7 August 1948 2 f.
 Hughes Co., Pierre, 16 August 1950 2 f 4 m.
 Jackson Co., Kadoka (Badlands) 19 July 1950 4 f 5 m.
 Pennington Co., Wall (Badlands), 26 July 1948 3 f 2 m.

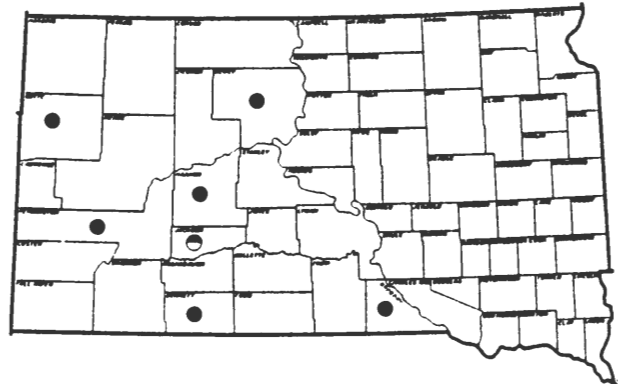
South Dakota ---- 35
 Total Collection 35

Athysanella (Athysanella) terebrans Gillette and Baker, 1895a:102
 Type locality: Colorado



Records:

Aurora Co., White Lake, 27 June 1927 1 f.
 Brule Co., Kimball, 28 June 1950 2 f.
 Butte Co., Newell, 26 June 1947 1 f.
 Codington Co., Florence, 7 September 1947 1 f.
 Dewey Co., Eagle Butte, 6 August 1948 4 f.
 _____, Lantry, 28 June 1947 1 f.
 Haakon Co., Midland, 23 June 1951 10 f 7 m; 23 May 1923 4 f.
 _____, Philip, 7 August 1948 1 f.
 Harding Co., Reva Alkali Flats, 8 September 1948 2 f.
 Jackson Co., Cottonwood, 24 June 1950 1 f.
 _____, Kadoka (Badlands) 19 July 1950 203 f 210 m.
 Kingsbury Co., Lake Albert, 24 August 1923 1 f.
 Lawrence Co., Lead, 23 July 1947 1 f.
 _____, Spearfish, 28 June 1947 2 f.
 Lyman Co., Kennebec, 7 July 1947 1 f; 8 July 1947 5 f; 17 July 1947 11 f.
 _____, Presho, 27 June 1947 1 f.
 Pennington Co., Wall (Badlands), 26 July 1948 1 f.



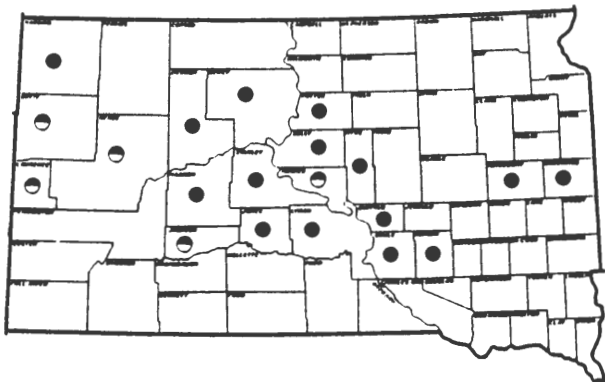
Records:

Bennett Co., Martin, 11 September 1948 1 f 2 m.
 Butte Co., Nisland, 16 August 1950 1 f.
 Dewey Co., Eagle Butte, 6 August 1948 1 f.

Gregory Co., Bonesteel, 13 September 1948
1 f.
Haakon Co., Midland, 17 June 1950 1 f.
Jackson Co., Cottonwood, 24 June 1950 1 f
1 m.
_____, Interior, 15 June 1943, 1 f 3 m.
_____, Kadoka (Badlands) 19 July 1950 10
f 7 m.
Pennington Co., Wall, 26 July 1948 2 f 4
m.

South Dakota ---- 39
Total Collection 39

Auridius auratus (Gillette and Baker), 1895a:85
Type locality: Colorado



Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
Brookings Co., Brookings, 11 July 1950 1
f.
Brule Co., Chamberlain, 17 June 1947 2 f
6 m; 5 June 1947 3 f; 18 June 1947 1
f.
Buffalo Co., Fort Thompson, 27 June 1946
8 f 12 m.
Butte Co., Bell Fourche, 27 June 1947 9 f
13 m.
_____, Castle Rock, 26 June 1950 2 f.
_____, Newell, 26 June 1950 5 f 44 m.
_____, Nisland, 21 July 1947 5 f.
Dewey Co., Lantry, 28 June 1947 1 f.
Haakon Co., Midland, 17 June 1950 2 f.
Harding Co., Buffalo, 19 June 1925 11 f 9
m; 27 June 1947 21 f 9 m; 28 June 1947
12 f 15 m; 27 June 1950 8 f 11 m.
Hughes Co., Blunt, 7 June 1950 3 f 3 m.
_____, Canning, 16 August 1950 2 f.
_____, Pierre, 22 July 1947 1 m; 25 July
1947 1 f 3 m; 9 June 1951 1 f.
Hyde Co., Highmore, 14 June 1948 1 f; 23
July 1950 2 f 2 m; 21 August 1949 1 f.
Jackson Co., Cottonwood, 9 June 1949 1 f
3 m; 26 July 1948 1 f; 24 August 1950
1 f 3 m.
_____, Interior, 15 June 1943 2 f.
_____, Kadoka, 19 July 1950 1 f 1 m.
Jones Co., Capa, 1 June 1921 1 f.
Kingsbury Co., DeSmet, 23 June 1950 1 f.
Lawrence Co., Englewood, 26 July 1947 2
f.
_____, Lead, 23 July 1947 1 f.
_____, Spearfish 28 June 1947 1 f.
Lyman Co., Kennebec, 7 July 1947 1 f; 17
July 1947 2 f 4 m.
_____, Presho, 17 June 1947 11 f 11 m; 27
June 1947 3 f 2 m; 28 June 1947 3 f;
17 July 1947 3 m.

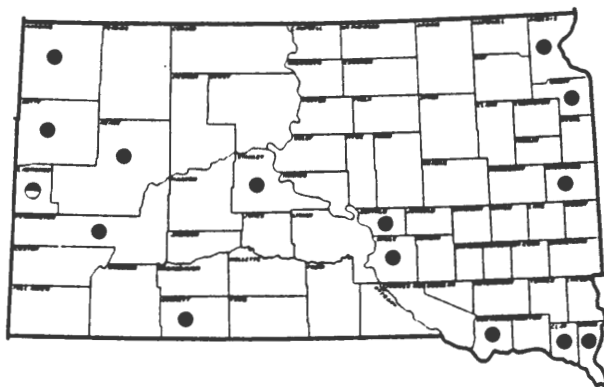
Meade Co., Cedar Canyon, 27 June 1947 1
f.
_____, Edson, 27 June 1947 1 f 2 m.
_____, Faith, 28 June 1947 2 f.
_____, Fox Ridge, 28 June 1947 14 f 25 m.
Potter Co., Gettysburg, 27 June 1947 3 f.
Stanley Co., Fort Pierre, 12 September
1946 1 f.
Sully Co., Onida, 17 June 1947 2 f.
Ziebach Co., Dupree, 25 June 1947 8 f 17
m.

Additional Records:

Montana, Bozeman, 1 August 1949 21
specimens; 4 August 1949 2 specimens;
8 August 1949 2 specimens.
_____, Placid Lake, 8 August 1947 1
specimen.

South Dakota ---- 367
Montana ----- 26
Total Collection 393

Balclutha impicta (Van Duzee), 1892a:113
Type Locality: New York



Ecological habitat: Collected by sweeping
Herbaceous growth in South Dakota.

Records:

Bennett Co., Martin, 11 September 1948 1
f.
Bon Homme Co., Springfield, 13 September
1948 1 f.
Brookings Co., Brookings, 20 March 1948
1 f; 17 July 1946 1 f; 8 September
1920 1 f; 16 September 1947 1 m; 30
September 1947 1 f 1 m; 4 September
1952 1 m.
_____, White, 1 July 1925 1 f; 21
September 1945 1 f; 25 September 1925
1 m.
Brule Co., Chamberlain, 26 May 1947 1 f 1
m.
Buffalo Co., Fort Thompson, 1 September
1943 1 m.
Butte Co., Newell, 26 June 1950 1 f.
_____, Nisland, 16 August 1950 1 m.
Clay Co., Vermillion, 16 June 1946 1 f;
23 July 1946 1 m; 6 August 1946 2 m.
Grant Co., Big Stone City, 23 August 1948
1 f.
_____, Marvin, 25 June 1953 2 f.
Harding Co., Buffalo, 28 June 1947 1 f;
27 June 1950 1 f; 28 August 1952 1 f.
Lawrence Co., Englewood, 18 June 1925 1 f
2 m; 27 July 1925 1 f.

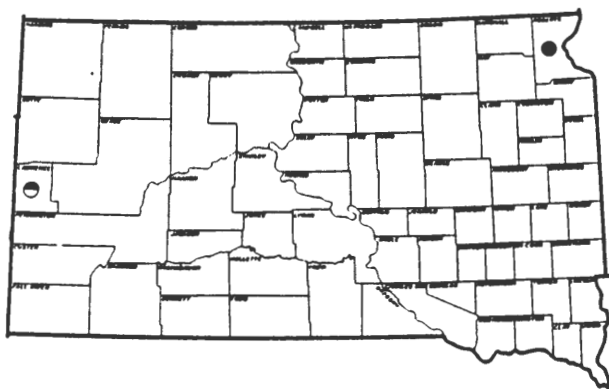
_____, Spearfish, 10 September 1948 1 f.
 _____, Tinton, 26 July 1947 1 f 1 m.
 Meade Co., Sturgis, 26 May 1951 2 m; 21
 July 1947 3 f 4 m; 25 July 1947 5 f 3
 m.
 Pennington Co., Pactola Lake, 10
 September 1948 2 f 2 m.
 Roberts Co., Sisseton, 23 August 1946 1
 f.
 Stanley Co., Fort Pierre, 20 September
 1920 1 f.
 Union Co., Elk Point, 17 June 1946 1 f;
 14 September 1948 1 f 1 m.

Additional Records:

Colorado, Cascade Lodge, 2 August 1931 1
 specimen.
 Iowa, Ames, 27 July 1949 6 specimens.
 Utah, Zion Park, 28 August 1950 1
 specimen.
 Canada, Saskatchewan, Flin Flon, 13
 August 1941 1 specimen.
 _____, Manitoba, Churchill, 18 August
 1941 2 specimens.
 _____, Dolphin, 12 August 1949 2
 specimens.
 _____, Gillam, 14 August 1949 1
 specimen.

South Dakota ---- 70
 Colorado ----- 1
 Iowa ----- 6
 Utah ----- 1
 Canada ----- 6
 Total Collection 85

Balclutha punctata (Fabricus), 1775a:687
 Type locality: Europe



Ecological habitat: Collected by sweeping
 herbaceous plants in South Dakota

Records:

Lawrence Co., Deadwood, 9 September 1925
 2 f 2 m.
 _____, Englewood, 11 September 1948 2 f.
 _____, Lead, 11 September 1948 1 f.
 Roberts Co., Sisseton, 23 August 1946 1 f
 1 m.

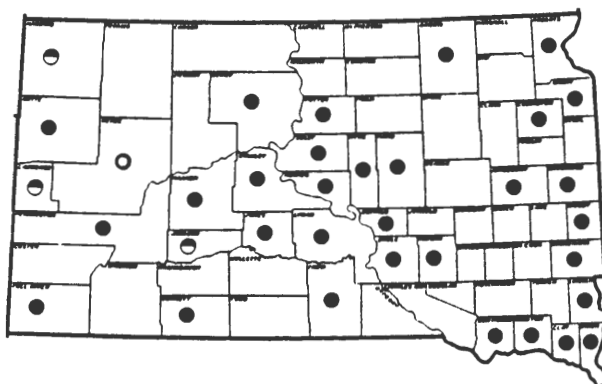
Additional Records:

Colorado, Pingree Park, 22 August 1953 1
 specimen.
 Montana, Bozeman, Gallatin Valley, 4
 August 1949 2 specimens.
 _____, MacDonald Pass, 6 August 1947 1

specimen.
 _____, Placid Lake, 8 August 1947 46
 specimens.
 Utah, Zion Park, 28 August 1950 3
 specimens.
 Washington, Spokane, 15 August 1947 1
 specimen.
 Alaska, Circle Hot Springs, 4 August 1951
 5 specimens.
 _____, Fairbanks, 4 August 1951 61
 specimens.
 _____, Mantanuska, 1 August 1951 5
 specimens.
 Canada, British Columbia, Vancouver, 11
 August 1947 2 specimens.
 _____, Revelstoke, 11 August 1947
 1 specimen.
 _____, Whitehorse, 7 August 1951 6
 specimens.

South Dakota ---- 9
 Colorado ----- 1
 Montana ----- 49
 Utah ----- 3
 Washington ----- 1
 Alaska ----- 71
 Canada ----- 9
 Total Collection 143

Balclutha neglecta (Delong and Davidson),
 1933a:55
 Type locality: Idaho



Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
 Bennett Co., Martin, 11 September 1948 1
 m.
 Bon Homme Co., Springfield, 21 June 1924
 1 f; 13 September 1948 1 f 3 m.
 Brookings Co., Brookings, 5 June 1912 2
 f; 21 July 1943 1 m; 22 June 1943 1 f;
 8 June 1943 3 m; 25 June 1946 2 f;
 12 July 1945 2 f; 17 July 1946 1 f; 30
 August 1943 1 f; 5 August 1944 1 f 3
 m; 1 August 1946 2 f; 11 August 1946 1
 m; 16 August 1946 1 f; 9 September
 1920 3 m; 21 September 1946 1 f; 29
 September 1946 1 m; 30 September 1947
 1 f.
 _____, Lake Oakwood, 10 July 1921 2 m.
 Brown Co., Groton, 8 September 1948 1 f.
 Brule Co., Chamberlain, 26 May 1947 2 f;
 5 June 1947 4 f 8 m; 17 June 1947 3 f.
 _____, Kimball, 17 June 1947, 8 f 4 m; 28
 June 1947 5 m.
 Buffalo Co., Fort Thompson, 27 June 1946
 2 f 4 m; 12 August 1943 2 f; 1
 September 1943 1 f.

Butte Co., Newell, 27 May 1951 1 f; 21 July 1947 3 f 2 m.
 _____, Nisland, 21 July 1947 1 f; 16 August 1950 1 f; 18 August 1952 1 f 1 m.
 Clay Co., Vermillion, 6 June 1921 3 f 4 m; 20 June 1924 3 f; 22 June 1946 1 f; 23 June 1943 1 m; 25 June 1945 2 f; 8 July 1946 1 f 1 m; 1 August 1946 1 f; 6 August 1946 1 m; 11 August 1946 1 m; 16 August 1946 2 f 3 m; 20 August 1946 1 f; 27 August 1946 4 f 6 m.
 _____, Meckling, 16 June 1926 1 f; 14 September 1948 1 f 1 m.
 Codrington Co., Florence, 15 July 1946 1 f.
 Dewey Co., Cheyenne Agency, 25 June 1947 1 f; 27 June 1947 1 f 1 m.
 _____, Eagle Butte, 22 June 1927 5 f 4 m.
 Fall River Co., Hot Springs, 27 June 1924 2 f 4 m; 27 August 1922 1 f.
 Grant Co., Big Stone City, 8 September 1946 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Hand Co., Ree Heights, 11 September 1946 2 f 4 m.
 Harding Co., Antelope Range Field Station, 5 August 1953 1 m.
 _____, Buffalo Co., 27 June 1950 1 f; 28 June 1947 4 f 3 m; 27 August 1952 1 f; 28 August 1952 4 f 1 m.
 _____, Reva (Slim Buttes), 5 August 1953 1 f 4 m.
 Hughes Co., Harrold, 12 September 1946 1 f.
 _____, Pierre, 17 July 1947 2 f; 22 July 1947 3 f 6 m; 25 July 1947 8 f 5 m; 21 July 1950 1 f.
 Hyde Co., Highmore, 1 June 1948 1 f; 8 September 1948 1 f.
 Jackson Co., Cottonwood, 26 July 1948 2 m; 3 August 1953 1 f.
 _____, Interior, 15 June 1943 3 f 4 m; 22 July 1948 1 f.
 _____, Kadoka, 19 July 1950 4 f 2 m.
 Jones Co., Capa, 13 August 1919 1 f; 21 August 1922 1 f.
 Kingsbury Co., DeSmet, 23 June 1950 1 f; 25 June 1947 1 f 1 m.
 Lawrence Co., Englewood, 23 July 1947 5 f 6 m; 26 July 1947 3 f 3 m; 11 September 1948 1 f.
 _____, Spearfish, 28 June 1947 8 f 12 m; 4 July 1958 1 f; 10 September 1948 1 f.
 _____, Spearfish Canyon, 4 August 1953 3 m.
 Lincoln, Canton, 26 June 1946 1 f.
 Lyman Co., Kennebec, 8 June 1948 1 f; 7 July 1947 5 f 9 m; 17 July 1947 10 f 4 m.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Edson, 27 June 1947 5 f 3 m.
 _____, Faith, 28 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 3 f 4 m.
 _____, Sturgis, 25 July 1947 1 m.
 Minnehaha Co., Sioux Falls, 10 July 1973 1 f 1 m.
 Moody Co., Flandreau, 5 August 1919 1 f.
 Pennington Co., Pactola Lake, 10 September 1948 1 f.
 _____, Wall, 21 July 1947 1 f 3 m.
 Potter Co., Gettysburg, 26 June 1947 6 f, 27 June 1947 5 f 7 m.
 Roberts Co., Sisseton, 28 June 1947 2 m.
 Stanley Co., Fort Pierre, 12 September 1946 1 f 2 m.
 Sully Co., Onida, 17 June 1947 1 f.

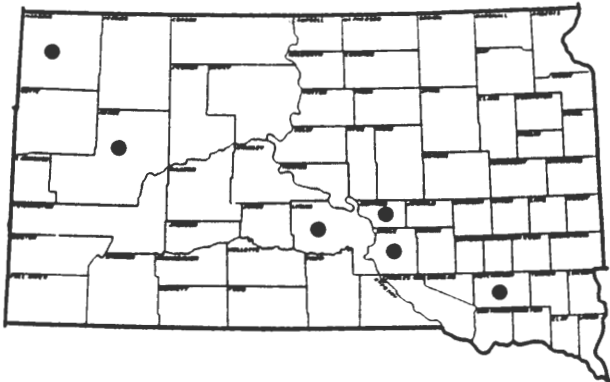
Tripp Co., Winner, 21 July 1950 4 f 2 m.
 Union Co., Elk Point, 10 July 1946 1 f, 28 July 1946 1 f; 6 August 1946 1 f 3 m; 16 August 1946 4 f 1 m; 27 August 1946 1 f 2 m; 4 September 1946 1 f; 15 September 1946 5 f 10 m.
 Yankton Co., Yankton, 20 June 1924 1 f; 8 August 1973 1 m.

Additional Records:

California, Wood Lank, 11 September 1949 1 specimen.
 Colorado, Estes Park, 20 August 1920 1 specimen; 21 August 1920 4 specimens; 25 August 1920 25 specimens.
 _____, Medicine Bow Lodge, 15 August 1952 13 specimens.
 _____, Pingree Park, 22 August 1953 17 specimens.
 _____, Sagauche, 19 August 1953 1 specimen.
 _____, Snowy Range Pass, 22 August 1952 4 specimens.
 _____, State Bridge, 21 August 1953 11 specimens.
 Kansas, Kinsley, 1 September 1950 1 specimen.
 _____, Lindsborg, 21 September 1950 5 specimens.
 Montana, MacDonald Pass, 6 August 1947 1 specimen.
 _____, Placid Lake, 8 August 1947 1 specimen.
 New Mexico, Logan, 28 August 1950 20 specimens.
 _____, Manzano Mountains, Albuquerque, 18 August 1953 11 specimens.
 _____, Tucumcari, 13 August 1953 66 specimens.
 North Dakota, Medora, 26 August 1926 2 specimens.
 Oklahoma, Texahoma, 1 September 1954 8 specimens.
 Texas, Nara Visa, 22 August 1950 3 specimens.
 Utah, Bryce National Park, 30 August 1950 4 specimens.
 _____, Holliday, 20 August 1949 1 specimen.
 _____, Manti, 25 August 1950 11 specimens.
 _____, Marysville, 26 August 1950 1 specimen.
 _____, Zion Park, 28 August 1950 1 specimen.
 Washington, Spokane, 15 August 1947 1 specimen.
 Wyoming, Three Forks, 14 August 1949 4 specimens.
 _____, Wamsutter, 25 August 1950 1 specimen.
 Canada, British Columbia, 19 August 1947 9 specimens.

| | | |
|------------------|-------|-----|
| South Dakota | ---- | 397 |
| California | ----- | 1 |
| Colorado | ----- | 50 |
| Kansas | ----- | 6 |
| Montana | ----- | 2 |
| New Mexico | ----- | 97 |
| North Dakota | ---- | 2 |
| Oklahoma | ----- | 8 |
| Texas | ----- | 3 |
| Utah | ----- | 20 |
| Washington | ----- | 1 |
| Wyoming | ----- | 5 |
| Canada | ----- | 9 |
| Total Collection | | 601 |

Ballana atridorsum (Van Duzee), 1894b:92
 Type locality: Colorado

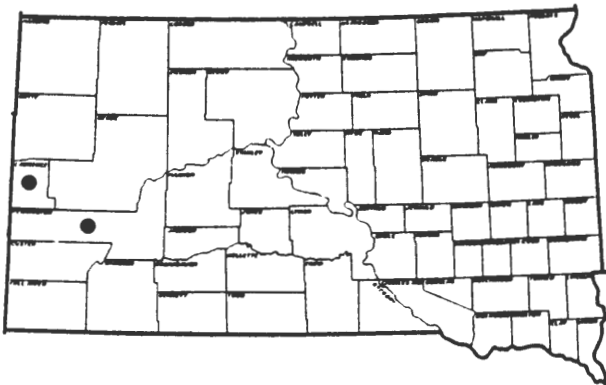


Records:

Brule Co., Chamberlain, 17 June 1947 1 f.
 Buffalo, Co., Fort Thompson, 27 June 1946
 1 m.
 Harding Co., Buffalo, 20 June 1925 1 f;
 28 June 1947 18 f 29 m.
 Hutchinson Co., Freeman, 27 June 1946 1 f.
 Lyman Co., Presho, 17 June 1947 1 m.
 Meado Co., Fox Ridge, 28 June 1947 1 f 1
 m.

South Dakota ---- 55
 Total Collection 55

Chlorotettix lusorius (Osborn and Bell),
 1897a:226
 Type locality: Iowa



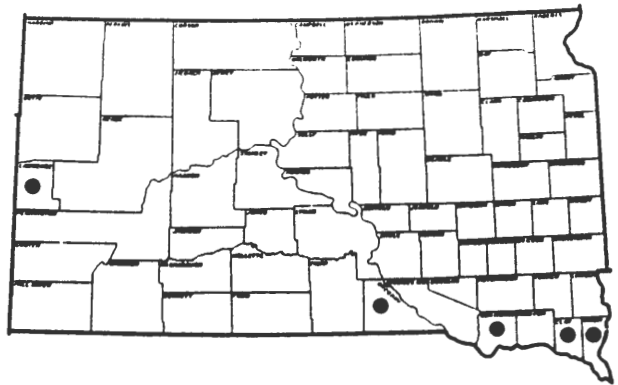
Ecological habitat: Collected in the Black Hills in open woodland sweeping herbaceous growth.

Records:

Lawrence Co., Englewood, 11 September
 1948 1 m.
 _____, Lead, 11 September 1948 1 f.
 Pennington Co., Pactola Lake, 10
 September 1948 1 m.

South Dakota ---- 3
 Total Collection 3

Chlorotettix spatulatus Osborn and Ball,
 1897a:225
 Type locality: Iowa



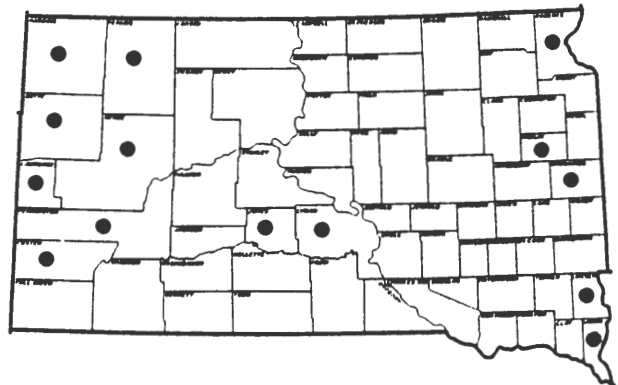
Ecological habitat: Collected along the Missouri River in low marsh areas where river has left its banks and in marsh area along Spearfish Creek in the Black Hills.

Records:

Bon Homme Co., Springfield, 13 September
 1948 4 f.
 Clay Co., Vermillion, 28 June 1946 1 m;
 20 August 1946 1 m.
 Gregory Co., Bonesteel, 13 September 1948
 1 m.
 Lawrence Co., Spearfish Creek, 10
 September 1948 1 m.
 Union Co., Elk Point, 7 June 1946 1 f; 17
 June 1946 1 f 1 m.

South Dakota ---- 12
 Total Collection 12

Chlorotettix unicolor (Fitch), 1851a:58
 Type locality: New York



Ecological habitat: Collected in fresh water marsh areas and along shores of small ponds and lakes. Some collected in green meadows in early summer.

Records:

Brookings Co., Brookings, 12 July 1945 1
 f; 25 July 1950 1 m; 7 August 1922 1 f
 1 m.
 _____, White, 26 July 1922 1 f 3 m; 10
 August 1927 1 f.
 Butte Co., Newell, 21 July 1947 3 f 7 m; 24
 July 1947 3 f 1 m; 21 August 1924 1 f.

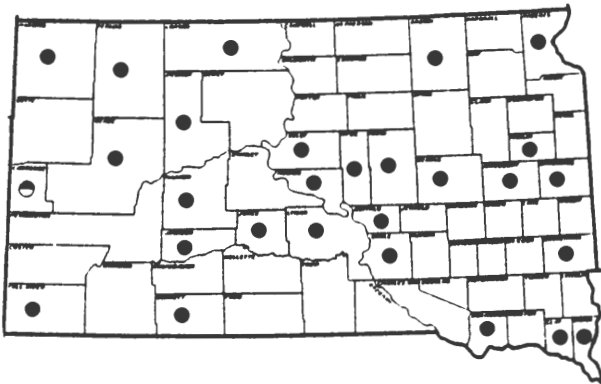
_____, Misland, 21 July 1947 1 f 3 m; 21 August 1924 1 f.
 Custer Co., State Game Lodge, 6 September 1923 1 f.
 Hamlin Co., Lake Poinsett, 7 September 1948 1 m.
 Harding Co., Buffalo, 26 August 1924 1 f 1 m.
 Jones Co., Capa, 24 August 1922 2 m.
 Lawrence Co., Englewood, 27 July 1947 1 f; 30 August 1924 1 f 1 m.
 _____, Spearfish, 28 June 1947 1 f 3 m.
 Lincoln, Canton, 16 August 1927 1 f.
 Lyman Co., Kennebec, 8 July 1947 1 f.
 Meade Co., Sturgis, 21 July 1947 1 f.
 Pennington Co., Badlands, 22 July 1948 1 m.
 _____, Wall, 26 July 1948 1 f.
 Perkins Co., Bison, 25 August 1924 1 f.
 Roberts Co., Sisseton, 23 August 1946 1 f 1 m; 7 September 1948 2 m.
 Union Co., Elk Point, 1 July 1946 1 f.

Additional Records:

Iowa, Stonebrook, 2 specimens.
 Montana, Bozeman, 21 July 1949 3 specimens.
 _____, Spanish Creek 1 August 1949 2 specimens.
 _____, Placid Lake, 8 August 1947 14 specimens.
 Canada, Manitoba, Dolphin, 12 August 1949 1 specimen.
 _____, Sherridon, 14 August 1949 11 specimens.

South Dakota ---- 58
 Iowa ----- 2
 Montana ----- 19
 Canada ----- 12
 Total Collection 91

Cicadula intermedia (Boheman), 1845a:40
 Type locality: Sweden



Ecological habitat: Associated with sweeping in marshes where *Cyperus* and other sedges were present.

Records:

Beadle Co., Wolsey, 10 September 1946 1 f.
 Bennett Co., Martin, 11 September 1948 5 f 8 m.
 Bon Homme Co., Springfield, 13 September 1948 1 f; 14 September 1 f 1 m.

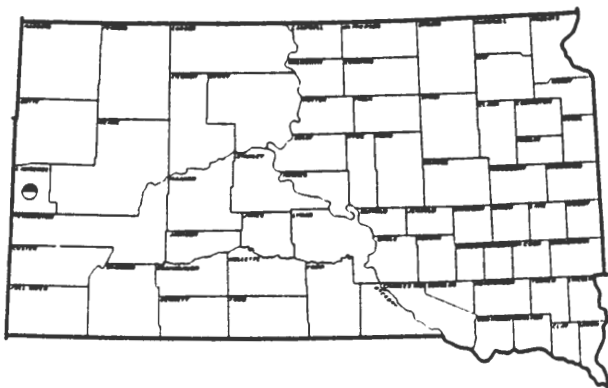
Brookings Co., Brookings, 1 June 1921 1 f; 24 June 1921 1 m; 27 June 1921 1 f 3 m; 28 June 1921 1 f; 29 June 1938 1 f; 15 June 1943 1 f 1 m; 21 June 1943 2 f 1 m; 22 June 1943 1 f; 26 June 1943 1 f; 7 June 1946 1 f 1 m; 10 July 1943 1 f; 8 July 1945 1 m; 12 July 1945 4 f 8 m; 11 July 1950 1 f; 2 July 1951 1 f; 1 August 1946 1 f; 9 September 1920 3 f 2 m; 21 September 1946 1 f; 29 September 1946 1 f 2 m; 22 September 1947 1 m; 23 September 1947 1 f; 15 October 1920 1 f; 8 October 1930 1 f; 8 October 1938 2 f 1 m.
 Brown Co., Hecla, 16 July 1944 1 f; 7 September 1948 1 f.
 _____, Groton, 8 September 1948 1 f 3 m.
 Brule Co., Chamberlain, 17 June 1947 1 f; 14 September 1946 1 f.
 _____, Kimball, 17 June 1947 1 m.
 Buffalo Co., Fort Thompson, 1 September 1943 1 f.
 Clay Co., Meckling, 14 September 1948 4 f 6 m.
 _____, Vermillion, 6 June 1921 1 f; 12 June 1945 1 m; 30 July 1945 1 f; 6 August 1946 1 m; 16 August 1946 1 m; 1 September 1946 1 f.
 Corson Co., McLaughlin, 8 September 1948 3 f.
 _____, Walker, 8 September 1948 3 f 9 m.
 Fall River, Hot Springs, 11 September 1948 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Hamlin Co., Lake Poinsett, 7 September 1948 7 f 12 m.
 Hand Co., Ree Heights, 11 September 1946 1 f.
 _____, Vayland, 7 June 1949 21 f 22 m.
 Harding Co., Reva (Alkali Flats), 8 September 1948 1 f.
 Hughes Co., Pierre, 26 June 1951 1 m.
 Hyde Co., Highmore, 8 September 1944 1 f; 20 September 1944 1 f.
 Jackson Co., Cottonwood, 15 June 1941 1 m; 24 June 1950 1 f.
 _____, Interior (Badlands) 15 June 1948 1 f.
 Jones Co., Capa, 24 September 1920 1 f 3 m.
 Kingsbury Co., DeSmet, 23 June 1950 2 f 1 m.
 Lawrence Co., Deadwood, 9 September 1925 1 m.
 _____, Lead, 23 July 1947 2 f 1 m; 11 September 1948 1 f.
 _____, Spearfish, 28 June 1947 1 f; 10 September 1948 1 f 3 m.
 _____, Tinton, 26 July 1947 1 m.
 Lyman Co., Kennebec, 7 July 1947 1 f 1 m; 8 August 1947 1 f.
 _____, Presho, 17 June 1947 1 f.
 Meade Co., Fox Ridge, 28 June 1947 6 f 7 m.
 _____, Sturgis, 25 July 1947 1 f.
 Minnehaha Co., Sioux Falls, 21 August 1949 1 f 1 m.
 Perkins Co., Lemmon, 8 September 1948 2 f 1 m.
 Roberts Co., Sisseton, 7 September 1948 19 f 30 m.
 Sully Co., Onida, 17 June 1945 1 f.
 Union Co., Elk Point, 6 June 1946 1 f; 6 August 1948 1 f; 12 August 1948 1 m; 14 September 1948 2 f 5 m.
 Ziebach Co., Dupree, 25 June 1947 8 f 8 m.

Additional Records:

Colorado, Pingree Park, 20 August 1925 4 specimens.
 Iowa, Ames, 3 October 1948 1 specimen.
 Montana, Bozeman, 21 July 1949 2 specimens.
 _____, Spanish Creek, 8 August 1949 1 specimen.
 Washington, Spokane, 15 August 1947 3 specimens.
 Canada, British Columbia, Kamloops, 19 August 1947 1 specimen.
 _____, Manitoba, Churchill, 18 August 1949 15 specimens.
 _____, Sherridon, 14 August 1946 12 specimens.
 _____, Yukon, Whitehorse, 7 August 1951 2 specimens.
 Alaska, Mantanuska, 1 August 1951 1 specimen.

South Dakota ---- 291
 Colorado ----- 4
 Iowa ----- 1
 Montana ----- 9
 Washington ----- 3
 Alaska ----- 1
 Canada ----- 30
 Total Collection 339

Cicadula quinquenotata (Boheman) 1847a:38
 Type locality: Sweden



Records:

Lawrence Co., Deadwood, 9 September 1925 1 f 1 m.
 _____, Englewood, 30 August 1924 1 f 3 m.
 _____, Lead, 11 September 1948 1 f.

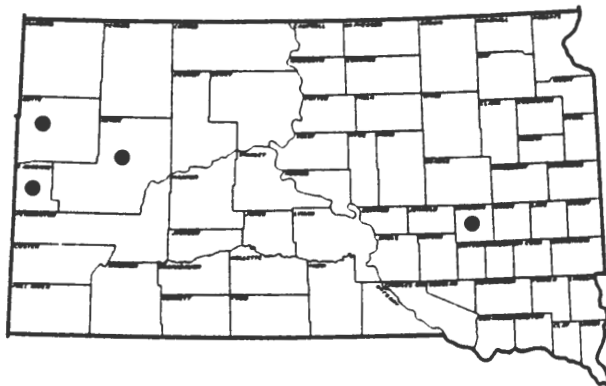
Additional Records:

Colorado, Pingree Park, 20 August 1925 1 specimen.
 Montana, Placid Lake, 8 August 1947 1 specimen.
 Washington, Spokane, 8 August 1947 1 specimen.
 Alaska, Circle Hot Springs, 4 August 1951 2 specimens.
 _____, Fairbanks, 4 August 1951, 46 specimens.
 _____, Matanusak, 1 August 1951 5 specimens.
 _____, Mt. McKinley National Park, 27 July 1951 1 specimen; 30 July 1951 2 specimens.
 _____, Skagway, 9 August 1951 16 specimens.

Canada, Manitoba, Dolphin, 12 August 1949 1 specimen.
 _____, Sherridon, 14 August 1949 11 specimens.
 _____, Yukon Territory, Carmacks, 25 July 1951 1 specimen.
 _____, Fort Yukon, 4 August 1951 1 specimen.
 _____, Whitehorse, 7 August 1951 3 specimens.

South Dakota ---- 7
 Colorado ----- 1
 Montana ----- 2
 Washington ----- 1
 Alaska ----- 76
 Canada ----- 14
 Total Collection 101

Colladonus belli (Uhler) 1877a:471
 Type locality: Colorado



Records:

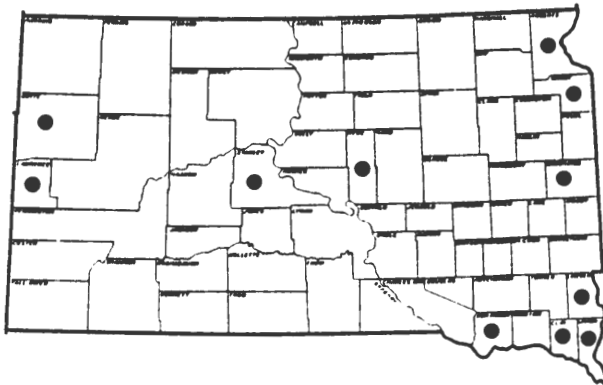
Butte Co., Misland, 16 July 1950 3 f 5 m.
 Lawrence Co., Englewood, 18 June 1925 1 f.
 Meade Co., Sturgis, 26 May 1951 6 f.
 Sanborn Co., Woonsocket, 28 May 1954 1 f.

Additional Records:

Utah, Zion Park, 28 August 1950 4 specimens.

South Dakota ---- 16
 Utah ----- 4
 Total Collection 20

Colladonus clitellarius (Say), 1830b:309
 Type locality: Indiana



Records:

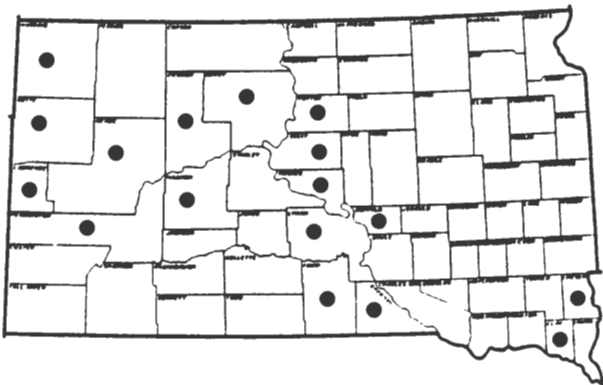
Bon Homme Co., Springfield, 1 September 1954 1 f.
 Brookings Co., Brookings, 25 June 1919 1 f; 30 June 1919 1 f 1 m; 11 June 1921 1 f 2 m; 20 June 1944 1 f; 25 June 1945 1 f; 7 June 1946 2 f; 13 June 1946 1 f; 25 June 1946 1 m; m; 26 June 1946 1 f; 15 July 1919 1 f; 17 July 1919 1 m; 19 July 1919 1 f; 24 July 1920 1 f; 4 July 1943 1 f; 7 July 1943 1 m; 23 July 1943 1 m; 5 August 1919 1 m; 21 August 1919 1 f 1 m; 7 August 1921 1 f; 1 August 1946 2 f; 6 August 1946 2 m; 16 August 1946 1 f; 1 September 1920 1 f; 8 September 1920 3 f 7 m; 9 September 1920 3 f; 10 September 1920 1 f; 15 September 1920 1 m; 30 September 1947 1 f; 4 September 1952 1 f; 19 September 1955 1 m; 8 October 1943 1 f 1 m.
 Butte Co., Newell, 28 June 1923 1 f.
 Clay Co., Vermillion, 6 June 1946 1 f; 16 June 1946 1 m; 24 Jun3 1946 1 f; 8 July 1946 1 f; 11 August 1946 1 f; 16 August 1946 1 f; 21 September 1946 1 f.
 Grant Co., Big Stone City, 8 September 1946 1 f 2 m.
 Hyde Co., Highmore, 27 June 1946 1 f 1 m; 6 August 1946 1 f; 16 August 1946 3 f 1 m; 1 September 1946 4 f 3 m.
 Lawrence Co., Spearfish, 1 August 1944 1 f; 10 September 1948 1 m.
 Lincoln Co., Canton, 26 June 1946 1 f.
 Roberts Co., Sisseton, 7 September 1948 1 m.
 Stanley Co., Fort Pierre, 21 September 1920 1 f.
 Union Co., Beresford, 24 June 1946 1 m. _____, Elk Point, 30 June 1945 1 f; 24 June 1946 1 f; 10 July 1946 1 f; 6 August 1946 1 m; 15 September 1946 1 f 1 m.
 Yankton Co., Yankton, 20 June 1924 1 m.

Additional Records:

Iowa, Ames, 4 July 1948 1 specimen.

South Dakota ---- 99
 Iowa ----- 1
 Total Collection 100

Commellus comma (Van Duzee) 1892a:114
 Type locality: Iowa

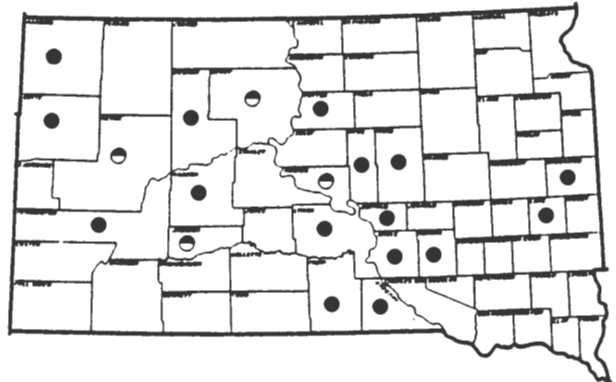


Records:

Buffalo Co., Fort Thompson, 21 June 1944 1 f.
 Butte Co., Nisland, 16 August 1950 1 m. _____, Redwater, 11 August 1953 1 f.
 Clay Co., Meckling, 13 June 1925 1 m.
 Dewey Co., Cheyenne Agency, 25 June 1947 1 f.
 _____, Eagle Butte, 26 July 1952 9 f 7 m.
 Gregory Co., Dallas, 21 July 1950 1 f 1 m.
 Haakon Co., Philip, 7 August 1948 1 f.
 Harding Co., Buffalo, 28 August 1947 10 f 18 m; 22 August 1952 1 f.
 Hughes Co., Canning, 7 August 1948 3 f 3 m.
 _____, Pierre, 22 July 1942 1 m.
 Lawrence Co., Spearfish, 28 June 1947 1 f.
 Lincoln Co., Canton, 12 June 1926 3 f 7 m.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 Meade Co., Maurine, 17 June 1952 4 f 3 m.
 Pennington Co., Wall (Badlands), 26 July 1948 1 f 1 m.
 Potter Co., Gettysburg, 27 June 1947 1 f 1 m.
 Sully Co., Agar, 7 Jul 1944 3 f 2 m. _____, Onida, 7 July 1944 2 f 6 m.
 Tripp Co., Jordan, 21 July 1950 1 f. _____, Winner, 21 July 1950 1 m.
 Ziebach Co., Dupree, 25 June 1947b 3 f 5 m; 11 July 1952 3 m.

South Dakota ---- 112
 Total Collection 112

Commellus sexvittatus (Van Duzee) 1894b:93
 Type locality: Colorado



Records:

Aurora Co., Plankinton, 17 June 1947 15 f 13 m.
 Brookings Co., Brookings, 16 September 1947 1 f.
 Brule Co., Chamberlain, 21 June 1944 1 f; 5 June 1947 4 f 3 m; 17 June 1947 8 f 13 m; 18 June 1947 2 f 5 m.
 Buffalo Co., Fort Thompson, 27 June 1946 3 f 2 m; 28 June 1946 3 f.
 Butte Co., Newell, 27 May 1951 1 f 2 m; 26 June 1950 3 m.
 Dewey Co., Cheyenne Agency, 25 June 1947 1 f; 27 June 1950 1 f 1 m. _____, Eagle Butte, 6 Augus 1948 1 f. _____, Lantry, 28 June 1947, 1 f.
 Gregory Co., Dallas, 2 July 1950 29 f 28 m.

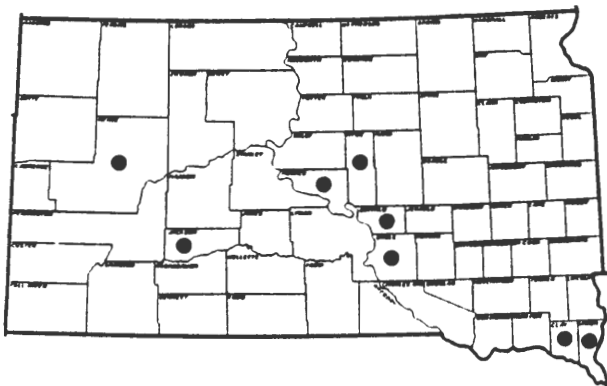
Haakon Co., Philip, 18 July 1950 2 f.
 Hand Co., Vayland, 7 June 1949 1 f.
 Harding Co., Buffalo, 28 June 1947 10 f 9 m; 27 June 1950 1 m.
 Hughes Co., Blunt, 7 June 1950, 12 f 20 m.
 _____, Canning, 15 July 1945 1 f; 16 August 1950 1 m.
 _____, Pierre, 9 June 1951 3 m; 21 June 1951 8 f 8 m; 22 July 1947 1 f 3 m; 25 July 1947 5 f 3 m.
 Hyde Co., Highmore, 1 June 1948 2 f 2 m; 14 June 1948 11 f 11 m; 23 June 1950 1 f; 14 August 1949 2 f 5 m; 21 August 1949 2 f.
 Jackson Co., Cottonwood, 2 June 1948 3 f 3 m; 9 June 1949 3 f 2 m; 15 June 1949 1 f; 24 June 1950 3 f 11 m; 21 July 1950 2 f.
 _____, Interior (Badlands), 15 June 1948 3 f 4 m; 22 July 1948 1 f.
 _____, Kadoka (Badlands), 19 June 1950 6 f 4 m.
 Lake Co., Madison, 29 July 1950 1 f.
 Lyman Co., Kennebec, 3 June 1948 1 f 2 m; 14 June 1948 2 f; 7 July 1947 5 f 8 m; 8 July 1947 2 f 4 m; 17 July 1947 8 f 19 m.
 _____, Presho, 17 June 1947 10 f 9 m; 22 June 1947 14 f 8 m; 28 June 1947 1 f.
 Meade Co., Cedar Canyon, 27 June 1927 2 f.
 _____, Edson, 27 June 1947 10 f 5 m.
 _____, Fox Ridge, 28 June 1947 2 f; 25 July 1947 1 f; 28 July 1947 30 f 48 m.
 Pennington Co., Wall (Badlands) 21 July 1948 1 f 1 m; 21 July 1947 3 f 2 m.
 Potter Co., Gettysburg, 26 June 1947 6 f 4 m; 27 June 1947 3 f 16 m.
 Tripp Co., Jordan, 21 July 1950 1 f.
 _____, Winner, 21 July 1950 5 f 7 m.
 Ziebach Co., Dupree, 25 June 1947 8 f 7 m.

Additional Records:

Wyoming, Wamsutter, 25 August 1950 2 specimens.

South Dakota ---- 566
 Wyoming ----- 2
 Total Collection 568

Deltocephalus balli Van Duzee, 1894a:293
 Type locality: New York



Ecological habitat: Collected from prairie pastures in both eastern and western South Dakota.

Records:

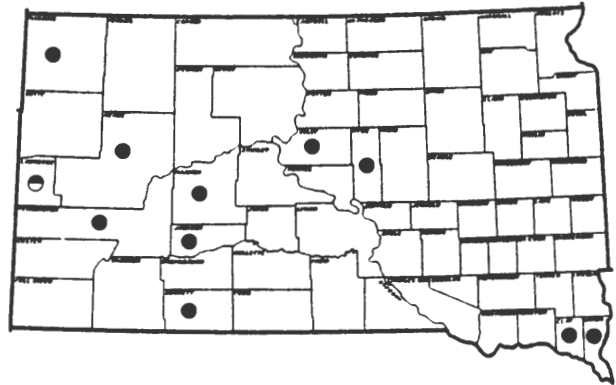
Brule Co., Kimball, 17 June 1947 3 f 2 m; 28 June 1947 1 f.
 Buffalo Co., Fort Thompson, 1 September 1948 1 f 2 m.
 Clay Co., Vermillion, 28 June 1946 1 f.
 Hughes Co., Pierre, 25 June 1951 1 m.
 Hyde Co., Highmore, 20 June 1946 2 f 2 m; 16 July 1946 2 m; 1 August 1946 5 f 9 m; 6 August 1946 5 f 3 m; 8 September 1944 10 f 21 m 20 September 1944 1 f.
 Jackson Co., Cottonwood, 21 July 1950 1 m.
 _____, Kadoka, 19 July 1950 11 f 8 m.
 Meade Co., Fox Ridge, 25 June 1947 1 f.
 Union Co., Elk Point, 1 August 1946 1 f.

Additional Records:

Utah, Holliday, 20 August 1941 2 specimens.

South Dakota ---- 108
 Utah ----- 2
 Total Collection 110

Deltocephalus fuscineruosus Van Duzee 1894:207
 Type locality: California



Records:

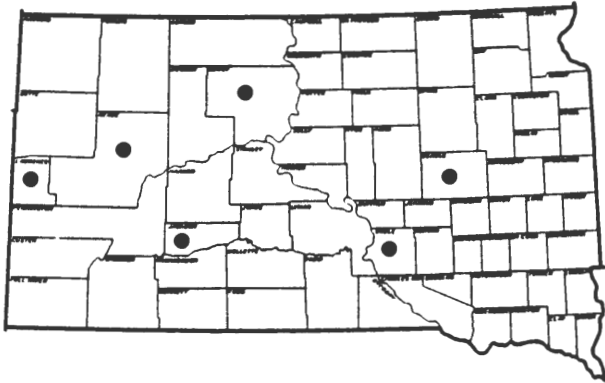
Bennett Co., Martin, 11 September 1948 2 f.
 Clay Co., Vermillion, 6 June 1946 2 f; 18 June 1946 1 f; 24 June 1946 1 m; 28 June 1946 1 f 1 m; 20 July 1945 1 f 1 m; 24 July 1945 1 f; 8 July 1946 1 f 2 m; 10 July 1946 1 f; 13 July 1946 1 f 1 m; 16 July 1946 1 f; 17 July 1946 1 f; 18 July 1946 1 f 3 m; 1 September 1946 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Harding Co., Reva (Alkali Flats), 8 September 1948 1 f 1 m.
 Hyde Co., Highmore, 20 September 1944 1 f.
 Jackson Co., Kadoka, 19 July 1950 1 f.
 Lawrence Co., Deadwood, 9 September 1925 1 m.
 _____, Lead, 23 July 1947 1 f.
 _____, Tinton, 26 July 1947 1 m.
 Meade Co., Faith, 28 June 1947 1 f.
 _____, Fox Ridge, 25 June 1917 6 f 10 m; 25 July 1917 1 m.
 Pennington Co., Wall (Badlands), 1 July 1948 1 f.
 Sully Co., Onida, 17 June 1947 1 f.
 Union Co., Elk Point, 7 June 1946 1 f; 17 June 1946 1 f; 18 June 1946 1 m; 30 July 1945 1 f; 1 July 1946 1 f; 10 July

1946 7 f 10 m; 16 July 1946 1 f; 17 July 5 f 4 m; 1 August 1946 2 f 1 m; 6 August 1946 3 f; 16 August 1946 2 f 2 m; 16 August 1948 1 f; 7 September 1945 1 m.

_____, Jefferson, 13 June 1936 1 f.

South Dakota ---- 107
Total Collection 107

Deltocephalus gnarus Ball, 1900c:345
Type locality: Iowa



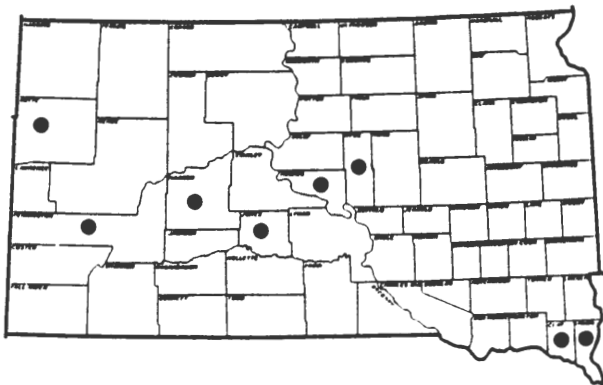
Ecological habitat: Collected on Eleocharis in association with other aquatic plants in South Dakota.

Records:

Beadle Co., Cavour, 7 June 1950 1 f.
Brule Co., Chamberlain, 17 June 1947 3 f 2 m; 18 June 1947 8 f 14 m.
_____, Kimball, 17 June 1947 6 f 10 m; 28 June 1947 1 f.
Dewey Co., Lantry, 28 June 1947 1 f.
Jackson Co., Interior (Badlands), 15 June 1948 1 f.
_____, Kadoka, 19 July 1950 3 f 2 m.
Lawrence Co., Pluma, 26 July 1947 1 m.
_____, Tinton, 26 July 1947 1 f.
Meade Co., Fox Ridge, 25 June 1947 21 f 30 m.

South Dakota ---- 105
Total Collection 105

Deltocephalus sonora Ball, 1900c:344
Type locality: Arizona



Ecological habitat: Collected by sweeping alfalfa fields, open pastures and meadows, normally associated with grass and weeds in South Dakota.

Records:

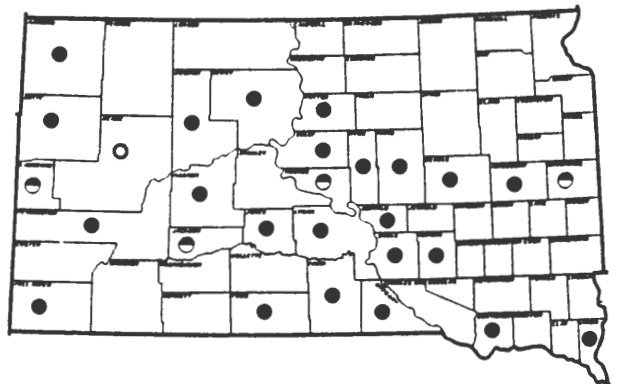
Butte Co., Newell, 28 June 1923 1 m.
Clay Co., Vermillion, 16 August 1946 1 f 1 m; 21 August 1946 1 f.
Haakon Co., Philip, 23 June 1923 1 f.
Hughes Co., Pierre, 1 September 1921 1 m.
Hyde Co., Highmore, 6 August 1946 1 f 1 m.
Jones Co., Capa, 10 May 1922 1 f; 1 June 1921 8 f 10 m.
Pennington Co., Pactola Lake, 10 September 1948 1 f.
Union Co., Elk Point, 17 July 1946 1 f; 28 July 1946 1 m; 20 August 1946 1 f.

Additional Records:

California, Wood Lake, 11 September 1949 1 f 3 m.
Kansas, Kinsley, 1 September 1950 1 f.
_____, Lindsborg, 1 September 1950 9 f 10 m.
Oklahoma, Texahoma, 1 September 1950 1 f.
Texas, Nara Vista, 22 August 1950 1 m.

South Dakota ---- 31
California ----- 4
Kansas ----- 20
Oklahoma ----- 1
Texas ----- 1
Total Collection 57

Diplocoenus configuratus Uhler, 1878a:511
Type locality: Montana



Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
Beadle Co., Cavour, 7 June 1950 9 f 13 m.
Bon Homme Co., Springfield, 21 June 1924 1 f.
Brookings Co., Brookings, 5 June 1948 12 f 10 m; 27 July 1921 1 m; 7 July 1946 1 f; 14 August 1949 1 m; 22 September 1949 1 f.
_____, Lake Hendricks, 21 June 1923 1 f 3 m.
_____, Lake Oakwood, 26 June 1921 1 f.
Brule Co., Chamberlain, 5 June 1947 10 f 17 m; 17 June 1947 4 f 1 m; 18 June 1947 1 f 2 m.
_____, Kimball, 17 June 1947 1 f; 28 June 1947 2 f 1 m.

Buffalo Co., Fort Thompson, 17 June 1946 1 f; 27 June 1946 5 f 6 m; 27 June 1947 4 f 2 m; 28 June 1947 1 f.

Butte Co., Belle Fourche, 27 June 1947 14 f 7 m.

_____, Newell, 28 June 1923 1 f; 29 June 1923 1 m; 26 June 1950 1 f; 27 June 1951 6 f 6 m; 5 July 1923 1 f 1 m; 21 July 1947 2 m.

Dewey Co., Cheyenne Agency, 25 June 1947 3 f 1 m; 27 June 1947 5 f 3 m.

_____, Lantry, 28 June 1947 2 f 4 m.

Fall River Co., Hot Springs, 27 June 1924 1 f.

Gregory Co., Dallas, 21 July 1950 5 f 10 m.

Haakon Co., Midland, 23 May 1951 9 f 4 m; 17 June 1950 1 m.

_____, Philip Co., 7 August 1948 1 f.

Hand Co., Vayland, 7 June 1949 3 f 4 m.

Harding Co., Buffalo, 19 June 1945 6 f 4 m; 28 June 1947 35 f 53 m; 27 June 1950 3 m.

Hughes Co., Blunt, 7 June 1950 15 f 6 m.

_____, Canning, 16 August 1950 1 f 3 m.

_____, Harrold, 28 June 1951 1 f.

_____, Pierre, 17 June 1947 1 f; 23 June 1950 1 f; 9 June 1951 1 f 2 m; 26 June 1951 1 m; 22 July 1947 1 m; 25 July 1947 11 f 23 m; 21 July 1950 1 f.

Hyde Co., Highmore, 17 May 1951 1 f; 1 June 1948 16 f 22 m; 15 July 1945 1 f; 14 August 1949 3 f 4 m; 21 August 1949 21 f 11 m.

Jackson Co., Cottonwood, 4 June 1920 1 f; 2 June 1948 3 f 2 m; 7 June 1949 2 f; 15 June 1949 1 f; 24 June 1950 1 f 2 m; 26 July 1948 1 f 3 m; 21 July 1950 f 2 m.

_____, Interior, 15 June 1948 7 f 10 m; 22 July 1948 1 f.

_____, Kadoka, 19 July 1950 3 f 2 m.

Jones Co., Capa, 1 June 1921 15 f 21 m.

Kingsbury Co., DeSmet, 23 June 1950 1 f 1 m.

Lawrence Co., Englewood, 26 July 1942 2 f 1 m; 27 July 1947 2 f 1 m.

_____, Spearfish, 28 June 1947 5 f 11 m.

_____, Tinton, 26 July 1947 4 f 3 m.

Lyman Co., Kennebec, 3 June 1948 1 f; 8 June 1948 1 f; 7 July 1947 3 f 2 m; 8 July 1947 1 m; 17 July 10 f 11 m.

_____, Presho, 17 June 1947 10 f 8 m; 27 June 1947 5 f 8 m; 28 June 1947 9 f 4 m.

Meade Co., Cedar Canyon, 22 June 1927 2 f; 27 June 1947 3 f 5 m.

_____, Edson, 27 June 1947 18 f 14 m.

_____, Faith, 28 June 1947 1 f 2 m.

_____, Fox Ridge, 22 June 1927 75 f 113 m.

_____, Maurine, 17 June 1952 3 f 3 m.

_____, Sturgis, 26 May 1951 5 f 4 m.

Pennington Co., Rapid City, 24 June 1949 1 f 2 m.

Potter Co., Gettysburg, 26 June 1947 2 f 4 m; 27 June 1947 10 f 9 m.

Sully Co., Onida, 17 June 1947 1 f.

Todd Co., Parmalee, 18 June 1927 1 m.

Tripp Co., Winner, 4 June 1953 4 f 2 m; 21 July 1950 2 f.

Union Co., Elk Point, 15 September 1925 1 f.

Ziebach Co., Dupree, 25 June 1947 28 f 34 m.

Additional Records:

Colorado, Rocky Mt. National Park, Cascade Lodge, 2 August 1931 1 specimen.

Montana, Bozeman, Spanish Creek, 1 August 1949 1 specimen; 8 August 1949 13 specimens.

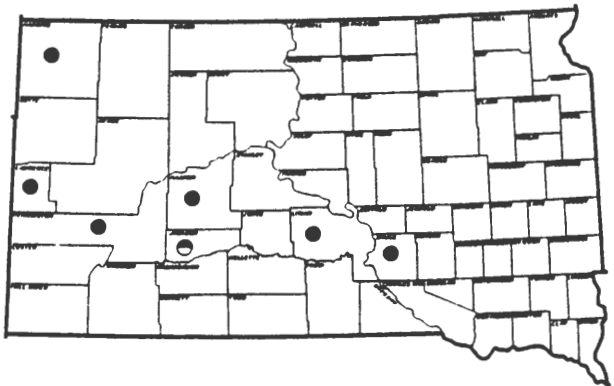
_____, Placid Lake, 8 August 1947 1 specimen.

Canada, Alberta, Waterton Glacier Park, 26 July 1946 2 specimens.

_____, Manitoba, Sherridon, 14 August 1948 1 specimen.

South Dakota ---- 993
 Colorado ----- 1
 Montana ----- 15
 Canada ----- 3
 Total Collection 1012

Driotura gammaroides (Van Duzee), 1894f:209
 Type locality: Kansas



Records:

Brule Co., Chamberlain, 5 June 1947 2 f.

_____, Kimball, 17 June 1947 1 f 1 m.

Haakon Co., Philip, 18 July 1950 1 f.

Harding Co., Reva, 8 September 1948 5 f 5 m.

_____, Reva Alkali Flats, 8 September 1948 4 f 4 m.

Jackson Co., Cottonwood (Badlands) 24 June 1950 1 f.

_____, Interior (Badlands), 22 July 1948 3 f 2 m.

_____, Kadoka (Badlands), 19 July 1950 5 f 7 m.

Lawrence Co., Englewood, 18 June 1925 1 f.

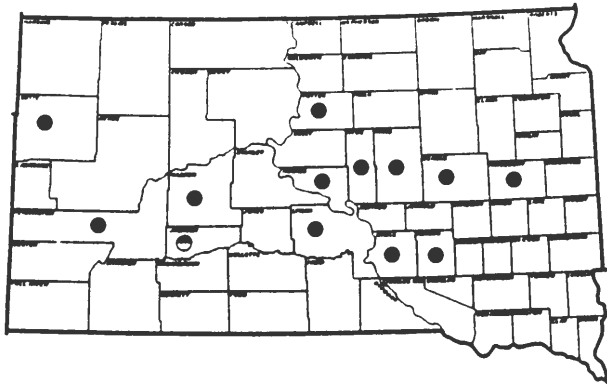
_____, Spearfish, 28 June 1947 1 m.

Lyman Co., Kennebeck, 26 May 1947 1 f; 7 July 1947 2 f 2 m; 8 July 1947 3 f 2 m; 17 July 1947 10 f 13 m.

Pennington Co., Wall (Badlands) 26 July 1948 4 f 6 m

South Dakota ---- 98
 Total Collection 98

Driotura robusta Osborn and Ball, 1898f:87
 Type locality: Kansas

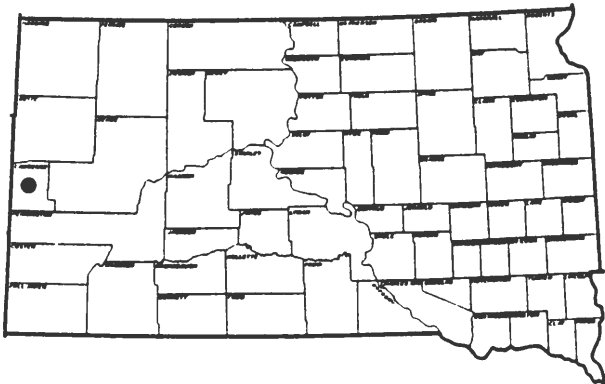


Records:

Aurora Co., Whitelake, 27 June 1946 1 f.
 Beadle Co., Cavour, 7 June 1950 1 m.
 Brule Co., Chamberlain, 17 June 1947 1 f;
 7 July 1947 1 m.
 Butte Co., Newell, 21 July 1947 1 f.
 Haakon Co., Philip, 18 July 1950 1 f.
 Hand Co., Vayland, 17 May 1951 21 f 19 m.
 Hughes Co., Canning, 7 August 1948 3 f 5
 m; 16 August 1950 11 f 10 m.
 Hyde Co., Highmore, 17 May 1951 6 f 6 m;
 14 June 1948 1 f; 14 August 1949 1 m.
 Jackson Co., Cottonwood, 26 July 1948 5 f
 3 m.
 _____, Interior (Badlands), 22 July 1948
 1 f.
 _____, Kadoka (Badlands), 19 July 1950 1
 f 1 m.
 Kingsbury Co., DeSmet, 23 June 1950 1 f 2
 m.
 Lyman Co., Presho, 17 June 1947 1 f.
 Pennington Co., Wall, 21 July 1947 2 f 2
 m; 26 July 1948 1 f.
 Potter Co., Gettysburg, 7 July 1944 1 f.

South Dakota ---- 110
 Total Collection 110

Elymana inornata (Van Duzee) 1892d:303
 Type Locality: New York



Ecological habitat: Collected in the Black
 Hills along banks of creek.

Records:

Lawrence Co., Englewood, 11 September
 1948 1 m.

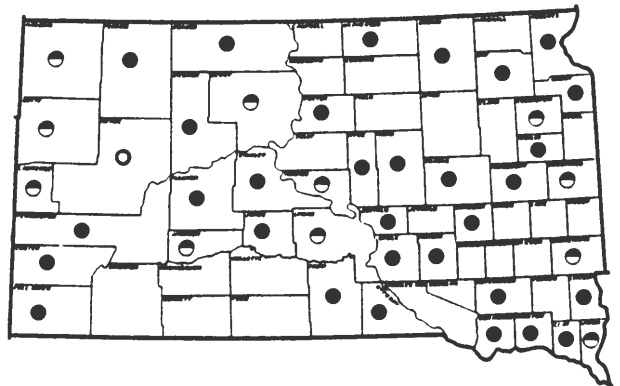
Additional Records:

Montana, Bozeman, Spanish Creek, 8 August
 1941 1 specimen.
 Utah, Bryce National Park, 30 August 1950
 3 specimens.
 Canada, Manitoba, Dolphin, 12 August 1949
 1 specimen.
 _____, Sherridon, 14 August 1949 8
 specimens.

Remarks: Beirne (1952) placed this species
 as a synonym of Elymana virescens.

South Dakota ---- 2
 Montana ----- 1
 Utah ----- 3
 Canada ----- 9
 Total Collection 15

Endria inimica (Say), 1830b:305
 Type Locality: Virginia



Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
 Beadle Co., Byron, 10 September 1946 4 m.
 Bon Homme Co., Springfield, 16 June 1926
 1 f; 13 September 1948 1 f 1 m; 1
 September 1954 2 f 1 m.
 Brookings Co., 5 June 1919 1 m; 27 June
 1921 1 f 2 m; 12 June 1923 1 f; 15
 June 1943 2 f; 21 June 1943 2 f 3 m;
 22 June 1943 1 f; 26 June 1943 4 f 1
 m; 7 June 1946 1 m; 13 June 1946 1 m;
 25 June 1946 1 f 1 m; 5 June 1948 1 f;
 21 June 1950 1 f; 25 June 1950 1 f; 19
 June 1953 1 f 1 m; 14 July 1919 1 f; 7
 July 1920 1 f 1 m; 15 July 1920 1 f 1
 m; 26 July 1921 1 f; 6 July 1942 1 f 1
 m; 4 July 1943 2 f; 25 July 1943 1 m;
 27 July 1943 2 m; 8 July 1946 1 f; 9
 July 1946 1 f 1 m; 10 July 1946 1 f; 25
 July 1949 3 f 4 m; 25 July 1950 10 f 11
 m; 30 July 1950 1 f; 2 July 1951 1 f 1
 m; 2 August 1942 3 f 4 m; 20 August 5 f
 3 m; 2 August 1943 1 f; 5 August 1943 3
 f; 10 August 1943 1 m; 5 August 1944 1
 f; 16 August 1946 1 m; 28 August 1948 1
 f; 27 August 1949 1 f 2 m; 15 August
 1950 2 f 3 m; 24 August 1954 1 f; 6
 September 1920 4 f 2 m; 8 September 1920
 3 m; 9 September 1920 3 f 3 m; 15
 September 1920 1 f; 21 September 1940 1
 f; 5 September 1942 1 m; 20 September
 1943 1 f; 29 September 1946 1 f; 6
 September 1948 1 f 1 m; 21 September
 1950 15 f 22 m; 17 October 1938 1 f.
 _____, Lake Oakwood, 26 June 1921 11 f 6 m.

_____, White (Warrens Woods), 1 August
 1925 1 m; 23 September 1925 1 f.
 Brown Co., Groton, 8 September 1948 2 f 1
 m.
 _____, Hecla, 7 July 1944 3 f 1 m; 16
 July 1944 1 f 3 m; 7 September 1948 4
 f 8 m; 2 September 1954 1 m.
 Brule Co., Chamberlain, 9 June 1942 1 m;
 22 June 1943 1 f; 17 June 1947 1 f 3
 m; 17 July 1947 2 f 3 m.
 _____, Kimbal, 17 June 1947 2 f 1 m; 28
 June 1947 2 f 2 m.
 Buffalo Co., Fort Thompson, 22 June 1943
 3 f 4 m; 27 June 1943 2 m; 18 July
 1945 1 m; 20 August 1942 1 f; 25
 August 1942 2 f 2 m; 1 September 1948
 2 f 1 m.
 Butte Co., Bell Fourche, 24 June 1928 2
 m; 27 June 1947 2 f.
 _____, Newell, 26 June 1950 2 f 2 m; 17
 June 1952 1 f.
 _____, Nisland, 16 August 1950 4 f 5 m.
 Clay Co., Meckling, 26 August 1926 1 f;
 14 September 1948 1 f 1 m.
 _____, Vermillion, 4 May 1946 1 m; 29 May
 1946 1 f; 26 June 1921 1 f; 6 June
 1946 2 f 3 m; 11 June 1946 2 f 2 m; 18
 June 1946 1 f; 24 June 194 1 m; 25
 June 1946 1 f 1 m; 28 June 1946 1 f;
 20 July 1945 1 m; 24 July 1945 1 f; 30
 July 1945 1 f 1 m; 23 July 1946 1 f; 6
 August 1946 3 f 2 m; 16 August 1946 1
 f 1 m; 20 August 1946 3 f 1 m; 21
 August 1946 2 m; 6 September 1946 1 f;
 1 October 1946 1 f.
 Codrington Co., Florence, 7 September 1948
 3 f 4 m.
 _____, Henry, 22 June 1946 1 f.
 _____, Watertown, 22 August 1946 2 m.
 Corson Co., Walker, 8 September 1948 3 f
 2 m.
 Custer Co., State Game Lodge, 22 August
 1952 2 f 4 m.
 Day Co., Grenville, 4 June 1942 1 m.
 _____, Pickeral Lake, 4 October 1947 1 m.
 Dewey Co., Cheyenne Agency, 27 June 1947
 3 f.
 _____, Eagle Butte, 6 August 1948 1 f.
 _____, Lantry, 28 June 1947 3 f 2 m.
 Fall River Co., Hot Springs, 27 August
 1922 1 m; 11 September 1948 1 f.
 Grant Co., Big Stone City, 27 August 1921
 4 f 6 m; 23 August 1948 1 f 3 m.
 _____, Marvin, 25 June 1953 2 f 1 m.
 Gregory Co., Bonesteel, 13 September 1948
 1 f; 18 September 1948 1 m.
 Haakon Co., Philip, 7 August 1948 2 f 1
 m.
 Hamlin Co., Lake Poinsett, 7 September
 1948 2 f 1 m.
 Hand Co., Ree Heights, 11 September 3 f 4
 m.
 _____, Vayland, 7 June 1949 2 f 4 m.
 Harding Co., Antelope Range Field
 Station, 10 July 1952 1 m.
 _____, Buffalo, 28 June 1947 1 f 3 m; 27
 June 1950 1 f; 22 August 1952 1 m; 27
 August 1952 1 f; 28 August 1952 3 f 5
 m; 10 September 1948 1 f 1 m.
 _____, Reva (Alkali Flats), 8 September
 1948 1 f.
 _____, Reva (Slim Buttes) 5 August 1953 1
 f 1 m.
 Hughes Co., Canning, 7 August 1948 1 f 1
 m; 16 August 1950 5 f 2 m.
 _____, Harrold, 12 September 1946 3 f.
 _____, Pierre, 17 June 1947 1 f; 23 June
 1950 1 m; 16 June 1952 1 f; 17 July
 1947 1 f 3 m; 22 July 1947 4 f 3 m; 25
 July 1947 5 f 8 m; 21 July 1950 1 f;
 23 July 1952 1 m.
 Hutchinson Co., Dimock, 1 September 1954
 2 m.
 Hyde Co., Highmore, 1 June 1948 2 m, 14
 June 1948 4 f; 1 August 1946 1 f 3 m;
 8 September 1944 5 f 3 m.
 Jackson Co., Cottonwood, 2 June 1948 1 f;
 15 June 1949 1 m; 24 June 1950 1 f 1
 m; 17 June 1952 2 f; 20 July 1948 1 f;
 26 June 1948 3 f 6 m; 3 August 1953 1
 m.
 _____, Interior (Badlands), 15 June 1948
 9 f 12 m; 28 August 1922 1 f.
 _____, Kadoka (Badlands) 19 July 1950 2 f
 2 m.
 Jones Co., Capa, 1 June 1921 1 f; 12
 August 1919 1 f 3 m; 24 August 1922 1
 f.
 Kingsbury Co., DeSmet, 23 June 1950 1 f.
 Lawrence Co., Englewood, 20 July 1928 1 f
 1 m; 26 July 1947 4 f 6 m; 27 July
 1947 4 f 3 m; 11 September 1948 4 m.
 _____, Lead, 23 June 1947 1 f; 23 July
 1917 1 m; 23 July 1947 1 f; 25 July
 1947 1 f 1 m; 11 September 5 f 6 m.
 _____, Spearfish, 28 June 1947 7 f 8 m; 4
 August 1953 2 f 4 m; 10 September 1 f
 2 m.
 _____, Tinton, 26 July 1947 5 f 2 m.
 Lincoln Co., Canton, 26 June 1946 2 f 1
 m; 3 June 1953 1 f; 27 August 1923 1 m;
 4 September 1946 3 f 1 m.
 Lyman Co., Kennebec, 7 July 1947 3 m; 17
 July 1947 2 f 3 m.
 _____, Lyman, 12 September 1946 5 m.
 _____, Presho, 17 June 1947 9 f 1 m; 27
 June 1947 1 f.
 McPherson Co., Eureka, 24 June 1952 1 f 2
 m; 8 June 1953 1 f.
 Meade Co., Cedar Canyn, 27 June 1947 1 f.
 _____, Edson, 27 June 1947 3 f 6 m.
 _____, Faith, 28 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 7 f 6 m.
 _____, Maurine, 17 June 1952 2 f 2 m.
 Minnehaha Co., Crooks, 3 June 1974 1 f 1
 m; 30 July 1974 1 f 3 m; 21 August
 1973 1 m.
 _____, Dell Rapids, 28 August 1954 1 f 2
 m.
 _____, Sioux Falls, 8 June 1952 1 f.
 Pennington Co., Pactola Lake, 10
 September 1948 2 f 5 m.
 Perkins Co., Lemmon, 8 September 1948 2
 m.
 Potter Co., Gettysburg, 26 June 1947 1 f;
 27 June 1947 8 f 4 m.
 Roberts Co., 17 June 1952 3 f 1 m; 29
 August 1921 3 f 1 m; 23 August 1946 4
 f 8 m; 7 September 1948 7 m.
 Sanborn Co., Forestburg, 1 September 1954
 1 f.
 Stanley Co., Fort Pierre, 6 August 1948 1
 f 1 m; 20 September 1920 1 f 1 m; 21
 September 1920 2 f.
 Tripp Co., Jordan, 21 July 1950 3 m.
 _____, Winner, 21 July 1950 18 f 14 m; 12
 September 1940 3 f.
 Union Co., Beresford, 3 September 1946 1
 f.
 _____, Elk Point, 19 June 1924 3 f 1 m;
 21 June 1925 1 f; 7 June 1946 1 f 2 m;
 17 June 1946 3 f; 18 June 1946 1 m; 3
 June 1953 3 m; 1 July 1946 1 f; 8 July
 1946 1 m; 10 July 1946 1 f 3 m; 16
 August 1946 3 f 6 m; 29 August 1954 1
 m; 14 September 1948 3 f.

_____, State Park, 28 August 1954 3 f 4 m.
 Yankton Co., Volin, 29 August 1923 1 f.
 _____, Yankton, 20 June 1924 1 m; 3 August 1973 1 f; 28 May 1974 1 m.
 Ziebach Co., Dupree, 26 June 1947 1 f.

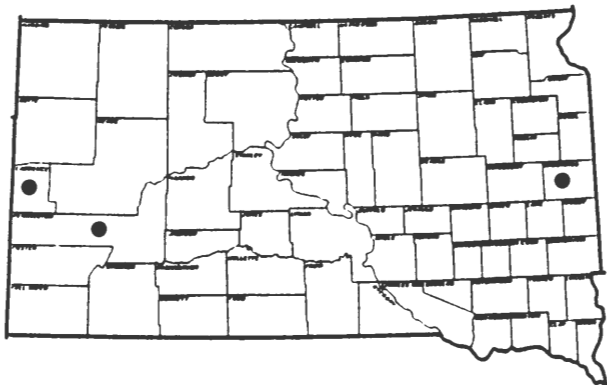
Additional Records:

Colorado, Pingree Park, 20 August 1925 1 specimen.
 _____, State Bridge, 21 August 1953 3 specimens.
 Iowa, Ames, 10 September 1948 1 specimen.
 _____, LeMars, 8 September 1948 3 specimens.
 Kansas, Marysville, 8 August 1950 2 specimens.
 Minnesota, Mantorville, 9 July 1923 6 specimens.
 Montana, Placid Lake, 8 August 1947 2 specimens.
 Washington, Spokane, 15 August 1947 1 specimen.
 Canada, Manitoba, Dolphin, 12 August 1941 1 specimen.

South Dakota ---- 809
 Colorado ----- 4
 Iowa ----- 3
 Kansas ----- 2
 Minnesota ----- 6
 Montana ----- 2
 Washington ----- 1
 Canada ----- 1
 Total Collection 828

Errastunus sobrinus (DeLong and Sanders)

1928a:100
 Type locality: Canada



Records:

Brookings Co., Brookings, 11 July 1950 1 m.
 Lawrence Co., Englewood, 18 June 1921 1 f; 26 July 1947 1 f 3 m; 27 July 1947 1 f 3 m; 11 August 1948 1 f.
 _____, Lead, 23 July 1947 4 f 8 m; 2 August 1935 1 f.
 Pennington Co., Pactola Lake, 10 August 1948 1 f 1 m.

Additional Records:

Montana, Bozeman, Gallatin Valley, 4 August 1949 2 specimens; 8 August 1949 2 specimens.
 _____, Glacier National Park, 31 July

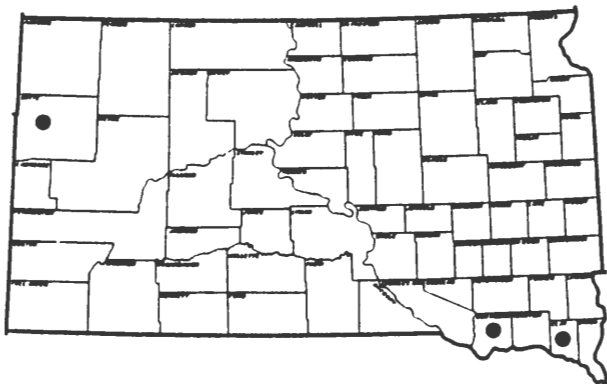
1946 2 specimens.

_____, Greenbough, Lake Placid, 5 August 1946 3 specimens.

South Dakota ---- 28
 Montana ----- 9
 Total Collection 37

Remarks: Beirne (1956) placed this species as a synonym of Errastunus ocelligris (Fallen)

Eutettix variabilis Hepner, 1924b:269
 Type locality: Arkansas

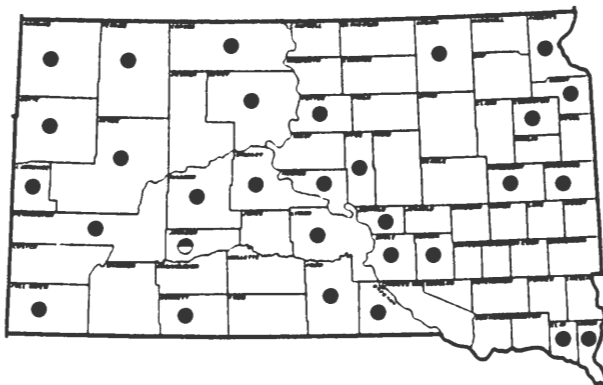


Records:

Bon Homme Co., Springfield, 19 August 1927 1 f.
 Butte Co., Nisland, 21 July 1947 1 m.
 Clay Co., Vermillion, 21 July 1945 1 f.

South Dakota ---- 3
 Total Collection 3

Exitianus exitiosus (Uhler), 1880a:72
 Type Locality: Maryland



Records:

Aurora Co., Plankinton, 17 June 1947 1 f 1 m.
 Bennett Co., Martin, 11 September 1948 1 f.
 Brookings Co., Brookings, 25 July 1949 2 f 3 m; 25 July 1950 5 f 8 m; 21 September 1950 4 f 4 m.
 Brown Co., Groton, 8 September 1948 1 f 1 m.
 _____, Hecla, 7 September 1948 3 f 1 m.

Brule Co., Chamberlain, 5 June 1947 2 f;
17 June 1947 5 f 6 m; 18 June 1947 1
f.
Buffalo Co., Cheyenne Agency, 27 June
1947 1 m.
_____, Fort Thompson, 1 September 1943 1 f
1 m.
Butte Co., Nisland, 16 August 1950 1 f 2
m.
Clay Co., Vermillion, 22 June 1946 2 f.
Codrington Co., Florence, 7 September 1948
2 f 3 m.
_____, Lake Poinsett, 7 September 1948 1
f.
Corson Co., Walker, 8 September 1948 1 f.
Dewey Co., Lantry, 28 June 1947 1 f 1 m.
Fall River Co., Hot Springs, 11 September
1948 1 f.
Grant Co., Big Stone City, 23 August 1948
3 f 2 m; 25 August 1948 2 m.
Gregory Co., Dallas, 21 July 1950 3 m.
Haakon Co., Philip, 7 August 1948 2 f 1
m.
Harding Co., Buffalo, 28 June 1947 1 f.
_____, Reva, 8 September 1948 1 f.
Hughes Co., Canning, 16 August 1950 1 f.
_____, Pierre, 25 July 1947 2 f 4 m.
Hyde Co., Highmore, 1 June 1948 2 m; 14
June 1948 1 f 1 m; 21 July 1949 1 f;
21 August 1940 1 m; 1 September 1948 1
f.
Jackson Co., Cottonwood, 9 June 1949 1 f;
26 July 1948 9 f 18 m; 21 July 1950 2
f.
_____, Interior (Badlands), 15 June 1948
2 f 2 m.
_____, Kadoka, 19 July 1950 1 f 2 m.
Kingsbury Co., DeSmet, 23 June 1950 1 f.
Lawrence Co., Englewood, 26 July 1947 4
m; 27 July 1947 2 f.
_____, Spearfish, 28 June 1947 1 f; 1
August 1944 1 m.
Lyman Co., Kennebec, 8 July 1947 1 f; 17
July 1947 3 f 5 m.
_____, Presho, 17 June 1947 3 f 5 m; 27
June 1947 3 f.
Meade Co., Edson, 27 June 1947 1 f.
_____, Fox Ridge, 25 June 1946 1 f; 28
June 1947 1 f 1 m.
Pennington Co., Pactola Lake, 10
September 1946 1 f.
_____, Wall (Badlands), 26 July 1948 3 f
2 m.
Perkins Co., Lemmon, 8 September 1948 1
f.
Potter Co., Gettysburg, 26 June 1947 1 f;
27 June 1947 1 f 1 m.
Roberts Co., Sisseton, 7 September 1948 3
f.
Stanley Co., Fort Pierre, 6 August 1943 1
m; 6 August 1948 1 f 2 m.
Tripp Co., Winner, 21 July 1950 6 f 10 m.
Union Co., Elk Point, 14 September 1948 2
f.

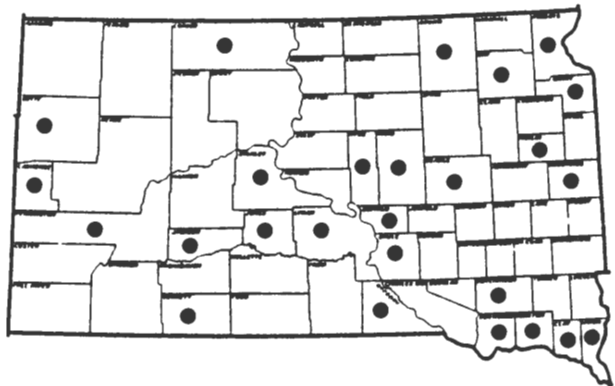
Additional Records:

Colorado, Rocky Mt. National Park,
Cascade Lodge, 2 August 1931 1
specimen.
_____, Waterton Glacier Park, 26 July
1946 4 specimens.
Kansas, Kinsley, 1 September 1950 1
specimen.
_____, Marysville, 8 August 1950 4
specimens.
Montana, Placid Lake, 8 August 1947 30
specimens.

New Mexico, Logan, 28 August 1950 1
specimen.
Oklahoma, Texahoma, 1 September 1950 32
specimens.
Texas, Nara Vista, 22 August 1950 5
specimens.
Utah, Marysville, 26 August 1950 1
specimen.
Washington, Grand Coulee, 17 August 1947
1 specimen.
Canada, Manitoba, Sherridon, 14 August
1949 1 specimen.

| | | |
|------------------|-------|-----|
| South Dakota | ---- | 210 |
| Colorado | ----- | 5 |
| Kansas | ----- | 6 |
| Montana | ----- | 30 |
| New Mexico | ----- | 1 |
| Oklahoma | ----- | 26 |
| Texas | ----- | 5 |
| Utah | ----- | 3 |
| Washington | ----- | 16 |
| Canada | ----- | 1 |
| Total Collection | | 303 |

Exitianus obscurinervis (Stal), 1859b:293
Type Locality: Bueno Aires



Records:

Beadle Co., Byron, 10 September 1921 1 f.
Bennett Co., Martin, 11 September 1948 1 f.
Bon Homme Co., Springfield, 16 June 1926
1 m; 25 June 1935 1 f; 14 September
1925 1 m.
Brookings Co., Brookings, 23 May 1921 1
f; 15 June 1943 2 f 4 m; 26 June 1943
3 f 3 m; 28 June 1943 1 f 1 m; 25 June
1946 1 f 2 m; 19 July 1919 1 f; 25
July 1919 1 f 3 m; 11 July 1921 1 f;
27 July 1921 1 m; 12 July 1945 1 f; 18
July 1945 1 m; 10 July 1946 5 f 10 m;
25 July 1950 1 m; 5 August 1944 1 f; 6
August 1945 1 m; 6 September 1920 1 f;
7 September 1920 1 m; 8 September 1920
1 f; 9 September 3 f 6 m; 20 September
1944 1 f; 29 September 1946 1 f; 21
September 1950 1 m; 15 October 1920 1
f 1 m.
_____, Lake Oakwood, 26 June 1921 1 f; 31
June 1931 3 f 2 m; 20 July 1945 1 m;
24 August 1923 1 f.
Brown Co., Hecla, 18 July 1944 1 f.
Brule Co., Chamberlain, 24 July 1940 2 f
4 m.
Buffalo Co., Fort Thompson, 27 June 1946
1 f; 28 June 1946 1 f.
Butte Co., Newell, 26 July 1923 2 f 1 m;
31 August 1922 1 f.

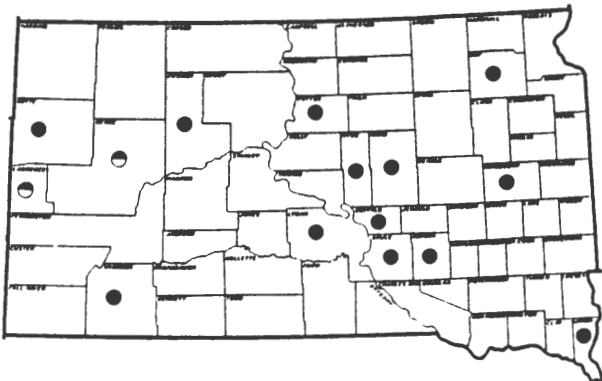
Clay Co., Meckling, 14 September 1944 1 f.
 _____, Vermillion, 26 June 1926 1 f; 18
 June 1946 1 f 2 m; 22 June 1946 1 f 2
 m; 25 June 1946 1 f; 20 July 1945 1 m;
 30 July 1945 1 f 1 m; 8 July 1946 1 f;
 10 July 1946 1 m; 20 August 1946 2 f;
 16 August 1948 1 m.
 Corson Co., McLaughlin, 8 September 1948
 1 f.
 Day Co., Waubay Refuge, 22 June 1940 1 m.
 Grant Co., Big Stone City, 27 August 1921
 1 f 1 m.
 Gregory Co., Fairfax, 12 August 1919 1 m.
 Hamlin Co., Lake Poinsett, 7 September
 1948 1 f.
 Hand Co., Ree Heights, 11 September 1946
 1 m.
 Hutchinson Co., Freeman, 7 August 1919 1
 f 1 m.
 Hyde Co., Highmore, 14 August 1949 1 m; 8
 September 1944 5 f 6 m.
 Jackson Co., Cottonwood, 26 July 1948 3 f
 2 m.
 _____, Interior, 15 June 1948 1 f 2 m.
 Jones Co., Capa, 1 June 1921 1 f; 27 July
 1919 2 f 3 m.
 Lawrence Co., Englewood, 11 September
 1948 1 f.
 _____, Spearfish, 1 August 1944 1 m.
 Lyman Co., Lyman, 12 September 1946 1 f.
 _____, Presho, 17 June 1947 1 m.
 Pennington Co., Pactola Lake, 10
 September 1948 2 m.
 _____, Rapid City, 25 June 1923 1 f.
 Roberts Co., Sisseton, 13 July 1919 1 f;
 23 August 1946 1 f 1 m.
 Stanley Co., Fort Pierre, 21 September
 1920 2 f 4 m.
 Union Co., Elk Point, 24 June 1926 1 f;
 12 June 1925 1 f 1 m; 7 June 1946 1 f;
 17 June 1946 1 f; 18 June 1946 1 f 1
 m; 30 July 1945 1 f; 1 July 1946 1 f;
 16 August 1946 3 f 2 m.
 Yankton Co., Yankton, 30 August 1923 1 f;
 27 September 1923 1 m.

Additional Records:

Montana, Glacier National Park, 31 July
 1946 13 specimens.
 _____, Lake Placid (Grennough), 5 August
 1946 36 specimens.

South Dakota ---- 172
 Montana ----- 49
 Total Collection 221

Extrusanus extrusus (Van Duzee) 1893a:283
 Type locality: New York

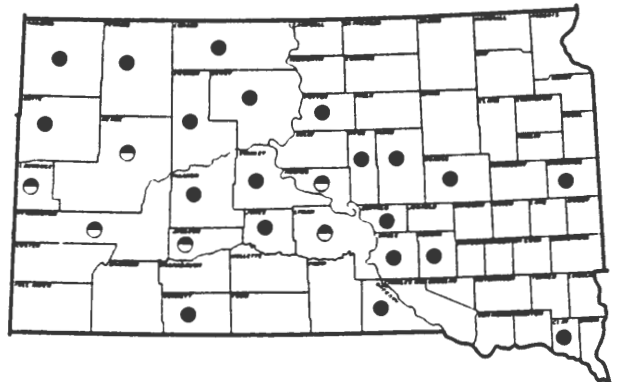


Records:

Aurora Co., Plankinton, 17 June 1947 2 f
 4 m.
 Brule Co., Chamberlain, 26 May 1947 1 f;
 5 June 1947 16 f 8 m; 18 June 1947 1 f.
 _____, Kimball, 7 June 1947 2 f 2 m; 28
 June 1947 4 f 2 m.
 Buffalo Co., Fort Thompson, 12 June 1943
 1 f.
 Butte Co., Bell Fourche 27 June 1947 1 m.
 _____, Newell, 27 May 1951 1 f.
 Day Co., Waubay Refuge, 23 May 1948 1 f 1
 m.
 Hand Co., Vayland, 17 May 1951 3 f 4 m; 7
 June 1949 1 f.
 Hyde Co., Highmore, 14 June 1948 1 f 2 m.
 Kingsbury Co., 23 June 1950 10 f 13 m.
 Lawrence Co., Englewood, 18 June 1925 5 f
 5 m; 20 July 1928 1 f; 26 July 1947 1
 f 1 m; 27 July 1947 1 m.
 _____, Hanna, 17 June 1936 1 m.
 _____, Tinton, 26 July 1947 1 f 2 m.
 Lyman Co., Kennebec, 26 May 1947 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 4 f 6 m.
 _____, Sturgis, 26 May 1951 7 f 6 m.
 Potter Co., Gettysburg, 23 June 1947 1 f;
 27 June 1947 1 m.
 Shannon Co., Batesland, 20 June 1928 1 f.
 Union Co., Elk Point, 27 June 1946 1 f.
 Ziebach Co., Dupree, 25 June 1947 3 f 3 m.

South Dakota ---- 135
 Total collection 135

Flexamia abbreviata (Osborn and Ball)
 1897a:206
 Type locality: Iowa



Records:

Aurora Co., Plankinton, 17 June 1947 4 f
 8 m.
 Beadle Co., Cavour, 7 June 1950 28 f 36 m.
 Bennette Co., Martin, 11 September 1948 3
 f.
 Brookings Co., 9 September 1920 1 f 1 m.
 Brule Co., Chamberlain, 5 June 1947 1 f;
 17 June 1947 48 f 87 m; 18 June 1947
 10 f 4 m.
 _____, Kimball, 28 June 1947, 3 f 4 m.
 Buffalo Co., Fort Thompson, 27 June 1946
 4 f 2 m.
 Butte Co., Newell, 21 July 1947 1 f 2 m;
 24 July 1947 1 f.
 _____, Nisland, 21 July 1947 1 m.
 Clay Co., Meckling, 14 September 1948 1 f.
 Corson Co., Walker, 8 August 1948 4 f 3 m.

Dewey Co., Eagle Butte, 6 August 1948 9 f 7 m.
 _____, Lantry, 28 June 1947 2 m.
 Gregory Co., Bonesteel, 13 September 1 f.
 _____, Dallas, 21 June 1950 3 f 3 m.
 Haakon Co., Midland, 23 May 1951 1 f.
 _____, Philip, 7 August 1948 2 f 4 m.
 Hand Co., Ree Heights, 11 September 1946 4 m.
 Harding Co., Buffalo, 19 June 1925 1 f;
 28 June 1947 20 f 11 m; 27 June 1950 1 f 1 m;
 10 September 1948 4 f 6 m.
 _____, Reva, 8 September 1948 5 f 1 m.
 Hughes Co., Canning, 7 August 1948 12 f 18 m;
 16 August 1950 9 f 17 m.
 _____, Harrold, 12 September 1946 3 f 9 m.
 _____, Pierre, 9 June 1951 1 f 2 m; 26 June 1951 1 f;
 17 July 1947 1 f; 22 July 1947 1 m;
 25 July 1947 4 f 6 m; 25 July 1948 1 f.
 Hyde Co., Highmore, 1 June 1948 1 f; 14 August 1949 1 f 3 m.
 Jackson Co., Cottonwood, 21 June 1950 5 f 5 m;
 24 June 1950 7 f 8 m; 26 July 1948 5 f 2 m.
 _____, Interior, 16 June 1945 1 f; 15 June 1948 21 f 11 m.
 _____, Kadoka, 19 July 1950 49 f 54 m.
 Jones Co., Capa, 1 June 1921 1 f 2 m.
 Lawrence Co., Lead, 23 July 1947 1 f 1 m; 11 September 1948 1 f.
 _____, Pluma, 26 July 1947 1 m.
 _____, Spearfish, 28 June 1947 9 f 12 m.
 _____, Tinton, 26 July 1947 2 f.
 Lyman Co., Kennebec, 7 July 1947 10 f 21 m;
 8 July 1947 1 f; 17 July 1947 18 f 3 m.
 _____, Lyman, 12 April 1947 1 f.
 _____, Presho, 17 June 1947 31 f 67 m; 27 June 1947 10 f 2 m; 28 June 1947 5 f.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Edson, 27 June 1947 21 f 2 m.
 _____, Fox Ridge, 25 June 1947 1 f, 28 June 1947 32 f 19 m.
 Pennington Co., Pactola Lake, 10 September 1948 1 f.
 _____, Rapid City, 24 June 1923 1 f.
 _____, Wall, 21 July 1947 3 f; 26 July 1948 11 f 15 m.
 Perkins Co., Bison, 10 September 1948 3 f 5 m.
 _____, Lemmon, 8 September 1948 3 f 3 m.
 Potter Co., Gettysburg, 17 June 1947 2 f; 26 June 1947 2 f 5 m; 27 June 1948 1 f 2 m.
 Stanley Co., Fort Pierre, 6 August 1948 1 f.
 Ziebach Co., Dupree, 25 June 1947 1 f 3 m.

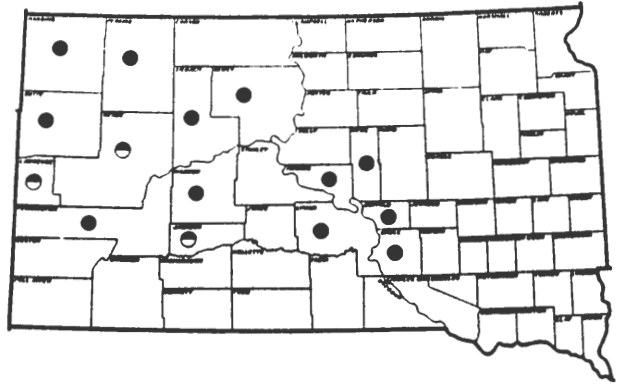
Additional Records:

Kansas, Kinsley, 1 September 1950 3 specimens.
 North Dakota, Medora, 26 August 1947 30 specimens.
 Oklahoma, Texahoma, 1 September 1950 3 specimens.
 Vermont, Marysville, 26 August 1950 1 specimen.

South Dakota ---- 923
 Kansas ----- 3
 North Dakota ---- 30
 Oklahoma ----- 3
 Vermont ----- 1

Total Collection 959

Flexamia curvata DeLong, 1926d:34
 Type locality: Kansas



Records:

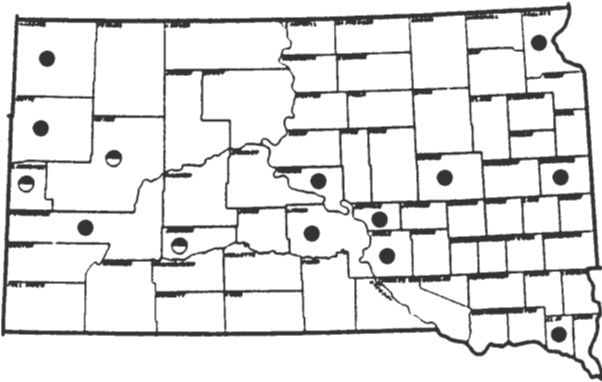
Brule Co., Chamberlain, 5 June 1947 2 f;
 7 June 1947 2 f 3 m; 17 June 1947 11 f 26 m;
 18 June 1947 4 f 3 m.
 _____, Kimball, 17 June 1947 2 f 2 m; 28 June 1947 3 m.
 Buffalo Co., Fort Thompson, 27 June 1946 1 f.
 Butte Co., Newell, 24 July 1947 18 f 22 m.
 Dewey Co., Eagle Butte, 6 August 1948 2 f 2 m.
 Haakon Co., Philip, 7 August 1948 1 f.
 Harding Co., Buffalo, 10 September 1948 1 f.
 Hughes Co., Pierre, 25 July 1947 3 f 4 m.
 Hyde Co., Highmore, 14 July 1949 2 f 1 m; 21 August 1949 1 f.
 Jackson Co., Cottonwood, 24 June 1950 1 f;
 23 July 1948 1 f; 26 July 1948 32 f 61 m;
 21 July 1950 1 f.
 _____, Interior, 15 June 1943 1 f; 15 June 1948 6 f 6 m.
 _____, Kadoka, 19 July 1950 8 f 5 m.
 Lawrence Co., Englewood, 26 June 1947 1 f.
 _____, Spearfish, 28 June 1947 9 f 6 m.
 _____, Tinton, 26 July 1947 2 f 1 m.
 Lyman Co., Kennebec, 7 July 1947 52 f 48 m;
 8 July 1947 1 f; 17 July 1947 10 f 11 m.
 _____, Presho, 17 June 1947 9 f 12 m; 17 July 1947 1 m.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 9 f 6 m.
 _____, Sturgis, 21 July 1947 1 f.
 Pennington Co., Pactola Lake, 10 September 1948 1 f 1 m.
 _____, Wall, 26 July 1948 10 f 3 m.
 Perkins Co., Bison, 10 September 1948 10 f 15 m.
 _____, Lemmon, 8 September 1948 1 f 1 m.
 Ziebach Co., Dupree, 25 June 1947 1 f 1 m.

Additional Records:

Kansas, Kinsley, 1 September 1950 1 specimen.
 Oklahoma, Texahoma, 1 September 1950 272 specimens.

South Dakota ---- 470
 Kansas ----- 1
 Oklahoma ----- 272
 Total Collection 743

Flexamia flexulosa (Ball), 1899b:189
Type locality: Colorado

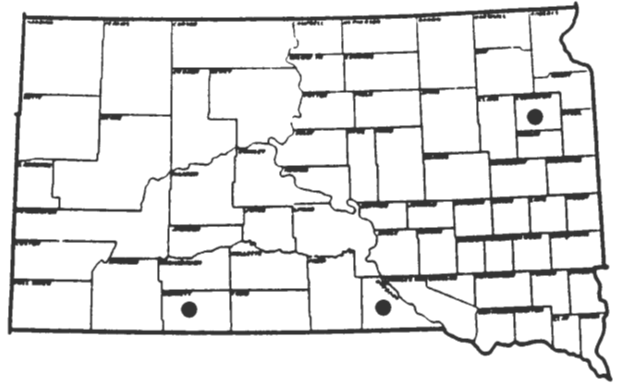


Records:

Beadel Co., Cavour, 7 June 1950 1 f.
 Brookings Co., Brookings, 21 June 1943 5 f 6 m; 5 June 1948 1 f.
 Brule Co., Chamberlain, 18 June 1947 1 m.
 Buffalo Co., Fort Thompson, 27 June 1946 1 f; 28 June 1946 1 f; 15 July 1945 2 f 4 m; 18 July 1945 3 m.
 Butte Co., Newell, 28 June 1923 2 f 1 m.
 Clay Co., Meckling, 14 September 1948 2 f.
 Harding Co., Buffalo, 19 June 1925 2 f 2 m; 20 June 1925 1 f; 27 June 1950 2 f 4 m; 28 July 1947 21 f 29 m.
 Hughes Co., Canning, 7 August 1948 1 f; 16 August 1950 2 f 3 m.
 _____, Pierre, 25 June 1947 1 f 1 m; 25 July 1947 2 f 1 m.
 Jackson Co., Cottonwood, 24 June 1950 8 f 4 m; 26 July 1948, 1 f 2 m; 21 July 1950 9 f 13 m.
 _____, Interior, 15 June 1943 1 f; 15 June 1948 5 f 6 m.
 _____, Kadoka, 19 June 1950 6 f 8 m.
 Lawrence Co., Englewood, 26 July 1947 1 f.
 _____, Spearfish, 28 June 1947 16 f 11 m.
 _____, Tinton, 26 July 1947 1 f 1 m.
 Lyman Co., Kennebec, 7 July 1947 1 f.
 _____, Presho, 17 June 1947 1 m.
 Meade Co., Edson, 27 June 1947 1 f.
 _____, Fox Ridges, 28 June 1947 3 f 2 m.
 _____, Sturgis, 25 July 1947 1 f.
 Pennington Co., Wall, 21 July 1947 2 f 2 m; 26 July 1948 3 f 1 m.
 Roberts Co., Sisseton, 7 September 1948 1 f.

South Dakota ---- 212
Total Collection 212

Flexamia grammica (Ball), 1900b:204
Type locality: Colorado

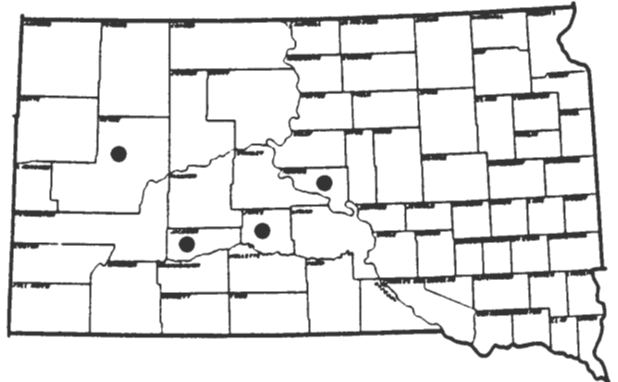


Records:

Bennett Co., Martin, 12 September 1925 1 f 1 m; 11 September 1948 6 f 8 m.
 Codington Co., Florence, 7 September 1948 1 f.
 Gregory Co., Bonesteel, 13 September 1948 3 f 4 m.

South Dakota ---- 24
Total Collection 24

Flexamia pectinata (Osborn and Ball), 1897a:202
Type locality: Iowa



Ecological habitat: Collected by sweeping in mixed prairie habitats in association with grass belonging to the genus Bouteloua.

Records:

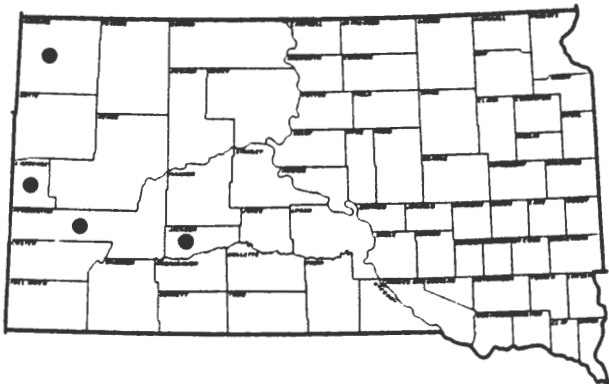
Hughes Co., Pierre, 21 June 1949 1 f; 25 July 1947 1 m.
 Jackson Co., Interior (Badlands), 16 June 1943 1 f; 15 June 1948 1 f; 22 July 1948 1 f.
 Jones Co., Capa, 12 August 1922 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.

Additional Records:

Canada, Yukon Territory, Carmacks, 25
 July 1951 7 specimens.
 Alaska, Skagway, 8 August 1951 1 specimen;
 9 August 1951 24 specimens.

South Dakota ---- 7
 Canada ----- 7
 Alaska ----- 24
 Total Collection 38

Flexamia stylata (Ball), 1899b:190
 Type locality: Iowa



Records:

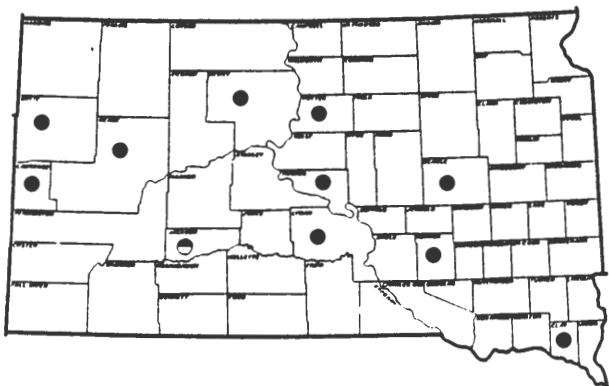
Harding Co., Buffalo, 19 June 1925 1 m.
 Jackson Co., Cottonwood, 24 June 1950 1 m.
 _____, Interior (Badlands), 15 June 1943
 6 f 2 m; 22 July 1948 3 f.
 Lawrence Co., Englewood, 27 July 1947 1 f.
 _____, Spearfish, 28 June 1947 3 f 4 m.
 Pennington Co., Wall (Badlands) 26 July
 1948 10 f 12 m.

Additional Records:

North Dakota, Medora, 26 August 1947 2
 specimens.

South Dakota ---- 43
 North Dakota ---- 2
 Total Collection 45

Flexamia surcula Delong and Slesmon, 1928a:99
 Type locality: Texas



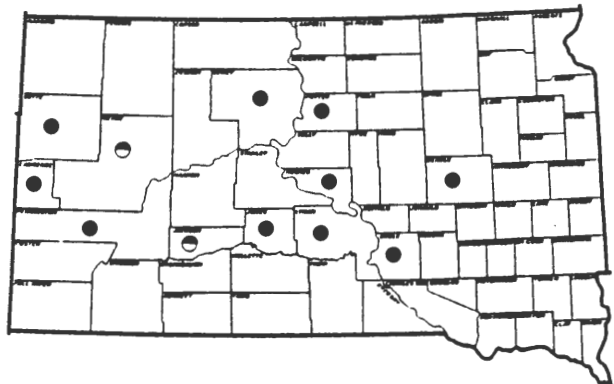
Records:

Aurora Co., Plankinton, 17 June 1947 1 f.
 Beadle Co., Cavour, 7 June 1950 5 f 10 m.

Butte Co., Newell, 21 July 1947 4 f 6 m;
 24 July 1947 1 f.
 Clay Co., Meckling, 14 September 1948 1 f.
 Dewey Co., Cheyenne Agency, 27 June 1947
 1 m.
 Hughes Co., Canning, 16 August 1950 18 f
 5 m.
 Jackson Co., Cottonwood, 26 July 1948 3
 f; 21 July 1950 33 f 32 m.
 _____, Interior 15 June 1948 2 f.
 _____, Kadoka, 19 July 1950 6 m.
 Lawrence Co., Spearfish, 28 June 1947 6 f
 5 m.
 Lyman Co., Kennebec, 7 July 1947 1 f; 17
 July 1947 5 f 2 m.
 _____, Presho, 28 June 1947 3 f 5 m.
 Meade Co., Fox Ridge, 28 June 1947 7 f 5 m.
 Potter Co., Gettysburg, 27 June 1947 2 f
 4 m.

South Dakota ---- 185
 Total Collection 185

Gillettella atopuncta (Gillette) 1898b:28
 Type locality: Colorado

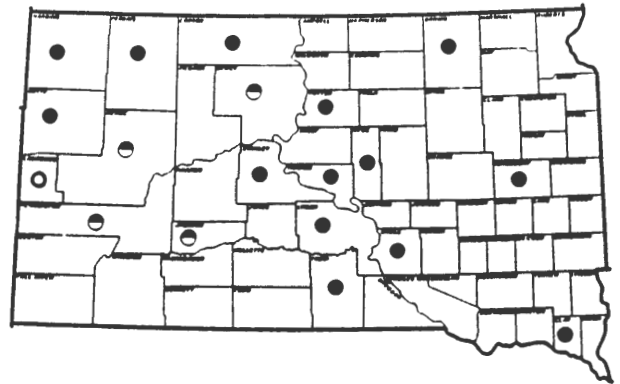
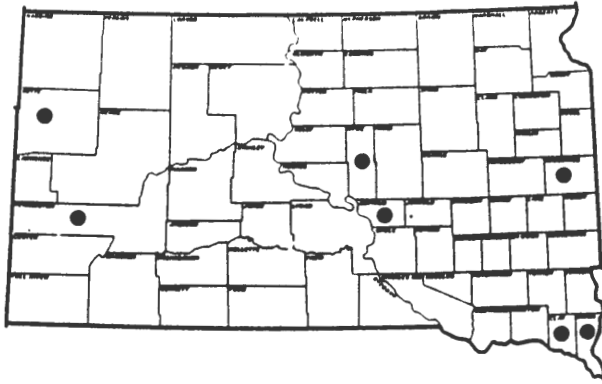


Records:

Beadle Co., Cavour, 7 June 1950 27 f 25 m.
 Brule Co., Chamberlain, 17 June 1947 5 f
 10 m; 18 June 1947 2 f.
 _____, Kimball, 28 June 1947 1 m.
 Butte Co., Newell, 21 June 1923 1 f.
 Dewey Co., Lantry, 28 June 1947 1 f.
 Hughes Co., Canning, 16 August 1950 62 f
 85 m.
 Jackson Co., Cottonwood, 26 July 1948 1 f
 3 m.
 _____, Interior, 16 June 1948 1 f.
 _____, Kadoka, 19 July 1950 4 f 5 m.
 Jones Co., Capa, 1 July 1921 1 f.
 Lawrence Co., Spearfish, 28 June 1947 2 f.
 Lyman Co., Kennebec, 7 July 1947 5 f 10
 m; 8 July 1947 2 f 3 m; 17 July 1947
 18 f 24 m.
 _____, Presho, 17 June 1947 20 f 5 m; 27
 June 1947 1 f; 28 June 1947 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Faith, 28 June 1947 1 m.
 _____, Fox Ridge, 28 June 1947 4 f 5 m.
 Pennington Co., Wall (Badlands), 28 July
 1948 1 f.
 Potter Co., Gettysburg, 26 June 1947 1 f.

South Dakota ---- 314
 Total Collection 314

Graminella nigrifrons (Forbes), 1885a:67
 Type locality: Illinois



Records:

Brookings Co., Brookings, 1 June 1921 1 f; 21 June 1921 1 m; 27 June 1921 5 f 10 m; 28 June 1921 1 f 1 m; 29 June 1921 1 f; 7 June 1946 1 f 2 m; 13 June 1946 2 f; 4 July 1921 1 f 1 m; 28 July 1921 2 f; 24 July 1922 1 m; 8 July 1946 2 m; 9 July 1946 1 f; 18 July 1946 2 f; 30 July 1950 1 f; 7 August 1921 1 f; 12 August 1921 1 f; 30 August 1943 1 m; 5 August 1944 1 f 1 m; 20 August 1944 3 f; 11 August 1945 1 f; 1 August 1946 1 f; 16 August 1946 1 m; 24 August 1950 1 f; 25 August 1950 1 f 1 m; 7 September 1950 1 f 1 m.

Buffalo Co., Fort Thompson, 12 August 1943 15 f 13 m; 1 September 1943 10 f 16 m.

Butte Co., Newell, 19 July 1923 1 f.

Clay Co., Vermillion, 6 June 1946 1 f; 11 June 1946 1 m; 28 June 1946 5 f 5 m; 8 July 1946 1 f; 15 July 4 f 3 m; 16 July 1946 1 f; 18 July 1946 1 m; 13 August 1945 1 f; 1 August 1946 2 f 2 m; 6 August 1946 2 m; 16 August 1946 3 f 2 m; 21 August 1946 1 f; 27 August 1946 3 f 3 m.

Hyde Co., Highmore, 20 June 1946 1 f; 1 August 1946 1 f 2 m; 6 August 1946 1 m; 1 September 1946 1 f 1 m.

Pennington Co., Hill City, 22 June 1946 1 f.

Union Co., Elk Point, 19 June 1924 1 f; 7 June 1946 4 f 6 m; 17 June 1946 6 f 5 m; 18 June 1946 1 f; 30 July 1945 3 f 4 m; 1 July 1946 3 f 2 m; 8 July 1946 3 f; 10 July 1946 5 f 2 m; 16 July 1946 2 m; 26 July 1946 1 f; 28 July 1946 1 m; 1 August 1946 7 f 8 m; 6 August 1946 8 f 8 m; 16 August 1946 2 f 2 m; 20 August 1946 1 f; 6 August 1948 2 f 4 m.

Additional Records:

Kansas, Lindsborg, 1 September 1950 1 specimen.

South Dakota ---- 254
 Kansas ----- 1
 Total Collection 255

Hebecephalus rostratus Beamer and Tuthill,
 1935a:534
 Type locality: Kansas

Records:

Brown Co., Groton, 8 September 1948 1 f.
 _____, Hecla, 7 September 1948 6 f 5 m.

Brule Co., Chamberlain, 26 May 1947 1 f 1 m; 5 June 1947 1 f 2 m; 17 June 1947 1 f; 18 June 1947 1 m.

_____, Kimball, 17 June 1947 1 f 1 m.

Butte Co., Belle Fourche, 24 June 1928 1 f.
 _____, Newell, 26 June 1950 1 m.

Clay Co., Vermillion, 21 August 1946 1 f 2 m.

Corson Co., Walker, 8 September 1948 2 f 2 m.

_____, McLaughlin, 8 September 1948 3 m.

Dewey Co., Cheyenne Agency, 25 June 1947 1 f.
 _____, Eagle Butte, 22 June 1927 1 f; 6 August 1948 4 f 6 m.
 _____, Lantry, 28 June 1947 1 f.

Harding Co., Buffalo, 28 June 1947 1 m; 27 June 1950 2 f 1 m.

_____, Reva (Alkali Flats), 8 September 1948 2 f 1 m.

Hughes Co., Canning, 7 August 1948 3 f 1 m.
 _____, Pierre, 22 July 1947 1 f.

Hyde Co., Highmore, 1 June 1948 1 f; 23 June 1950 1 m; 8 July 1944 1 f; 21 August 1949 5 f 7 m; 8 September 1944 2 f 1 m.

Jackson Co., Cottonwood, 2 June 1948 1 f; 9 June 1949 1 m; 24 June 1950 1 f; 26 July 1948 6 f 5 m.

_____, Interior, 15 June 1948 3 f 4 m.
 _____, Kadoka, 19 July 1950 1 f 1 m.

Kingsbury Co., DeSmet, 28 June 1950 1 f.

Lawrence Co., Englewood, 18 June 1925 3 f 1 m; 26 July 1947 3 m; 11 September 1948 1 f.
 _____, Lead, 11 September 1948 2 m.
 _____, Spearfish, 28 June 1947 1 f.
 _____, Tinton, 26 July 1947 1 m.

Lyman Co., Kennebec, 26 May 1947 3 f 5 m; 7 July 1947 3 f 2 m.

_____, Presho, 17 June 1947 3 f; 17 July 1947 2 m.

Meade Co., Cedar Canyon, 22 June 1927 3 f 2 m.
 _____, Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 25 June 1917 1 f.

Pennington Co., Hill City, 5 August 1945 1 f.
 _____, Pactola Lake, 10 September 1948 3 f.
 _____, Wall (Badlands), 26 July 1948 3 f 3 m.

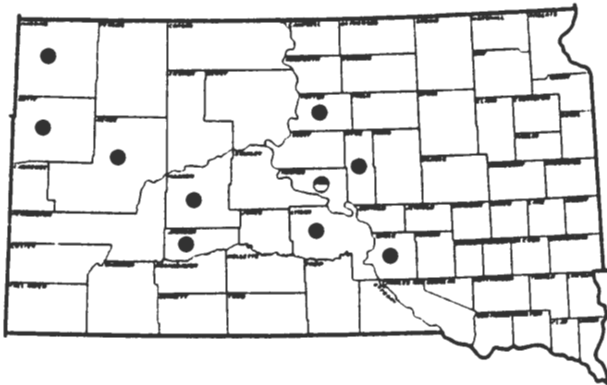
Perkins Co., Bison, 10 September 1948 1 f
1 m.
_____, Lemmon, 8 September 1948 1 f.
Potter Co., Gettysburg, 26 June 1947 1 f;
27 June 1947 1 f 1 m.
Stanley Co., Fort Pierre, 6 August 1948 1
f 1 m.
Tripp Co., Winner, 21 July 1950 2 f.

Additional Records:

North Dakota, Medora, 26 August 1947 8
specimens.
Montana, Placid Lake, 8 August 1947 1
specimen.
Wyoming, Wamsutter, 25 August 1950 34
specimens.

South Dakota ---- 146
North Dakota ---- 8
Montana ----- 1
Wyoming ----- 34
Total Collection 189

Hebecephalus sagittatus Beamer and Tuthill,
1935a:533
Type locality: Oregon



Records:

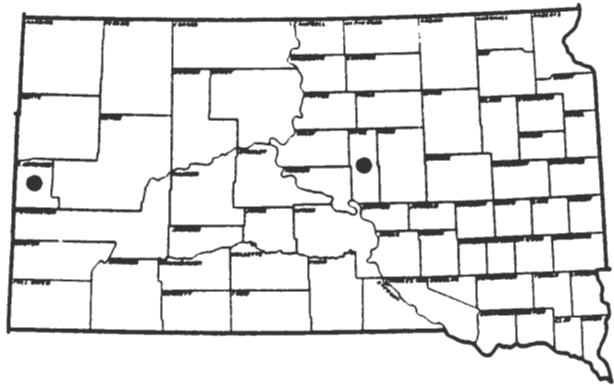
Brule Co., Kimball, 28 June 1947 1 f.
Butte Co., Newell, 27 May 1951 3 f 5 m.
_____, Nisland, 16 August 1950 8 f 6 m.
Haakon Co., Midland, 23 May 1951 3 f 4 m.
Harding Co., Buffalo, 28 June 1947 1 f.
Hughes Co., Blunt, 7 June 1950 1 m.
_____, Canning, 16 August 1950 9 f 7 m.
_____, Pierre, 26 June 1951 1 f 1 m.
Hyde Co., Highmore, 8 September 1944 1 f.
Jackson Co., Cottonwood, 2 June 1948 2 f
2 m.
_____, Interior, 15 June 1948 1 f.
Lyman Co., Kennebec, 26 May 1947 1 f.
_____, Presho, 28 May 1947 2 f; 27 June
1947 3 f 1 m.
Meade Co., Fox Ridge, 28 June 1947 1 f.
_____, Sturgis, 26 May 1951 9 f 11 m.
Potter Co., Gettysburg, 27 June 1947 1 f.

Additional Records:

Montana, MacDonald Pass, 6 August 1947 1
specimen.
Canada, Manitoba, Dolphin, 12 August 1949
1 specimen.

South Dakota ---- 89
Montana ----- 1
Canada ----- 1
Total Collection 91

Hebecephalus signatifrons (Van Duzee),
1892d:305
Type locality: United States

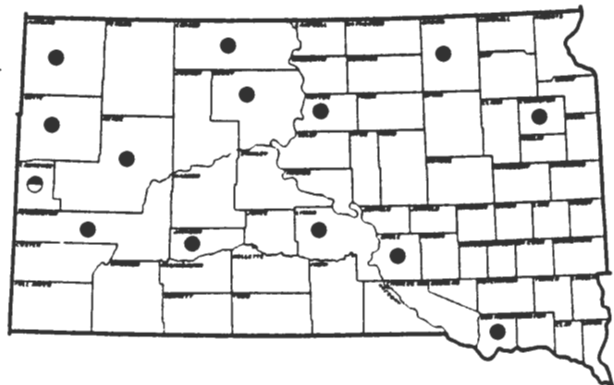


Records:

Hyde Co., Highmore, 14 August 1949 1 m.
Lawrence Co., Lead, 11 September 1948 1
f.

South Dakota ---- 2
Total Collection 2

Laevcephalus parvulus (Gillette), 1898b:23
Type locality: Colorado



Records:

Bon Homme Co., Springfield, 13 September
1948 1 f 2 m.
Brown Co., Hecla, 7 September 1948 1 f.
Brule Co., Chamberlain, 11 June 1947 1 m.
Butte Co., Newell, 26 June 1950 16 f 27
m.
Codington Co., Florence, 7 September 21 f
39 m.
Corson Co., Walker, 8 September 1948 5 f
3 m.
Dewey Co., Eagle Butte, 6 August 1948 3
f.
Harding Co., Buffalo, 28 August 1952 58 f
49 m; 10 September 1948 4 f.
_____, Custer Cave Hills, 8 September
1948 78 f 113 m.
Jackson Co., Cottonwood, 26 July 1948 3 f
5 m; 21 July 1950 5 f.
_____, Kadoka, 19 July 1950 2 f 7 m.
Lawrence Co., Englewood, 26 July 1947 1 f.
_____, Lead, 11 September 1948 1 f.
_____, Tinton, 26 July 1947 1 m.

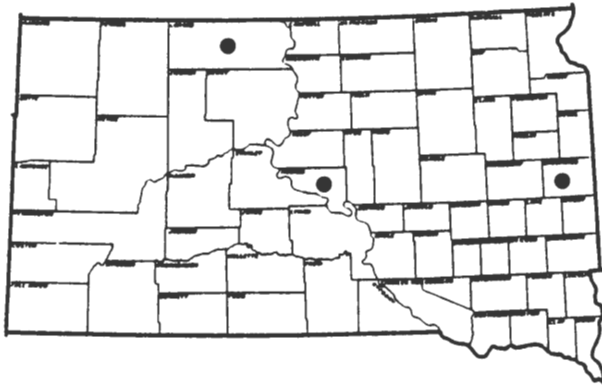
Lyman Co., Kennebec, 7 June 1947 1 f; 28 June 1947 3 f 3 m; 14 June 1948 1 m; 8 July 1947 1 f.
 _____, Presho, 17 June 1947 1 f.
 Meade Co., Fox Ridge, 28 June 1947 1 f.
 Pennington Co., Wall, 21 July 1947 1 f; 26 July 1948 1 f.
 Potter Co., Gettysburg, 27 June 1947 1 f 1 m.

Additional Records:

Washington, Grand Coulee Dam, 17 August 1947 1 specimen.

South Dakota ---- 458
 Washington ----- 1
 Total Collection 459

Laevicephalus sylvestris Osborn and Ball,
 1897a:213
 Type locality: Iowa



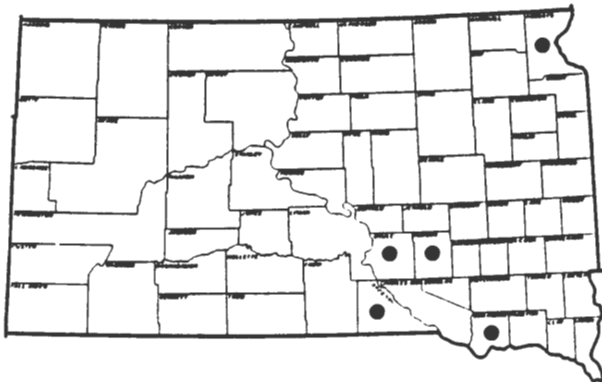
Ecological habitat: Collected by sweeping prairie pasture grasses in South Dakota. This species is known to be associated with Danthonia spicata.

Records:

Brookings Co., Brookings, 6 September 1948 1 f.
 Corson Co., McLaughlin, 8 September 1948 1 f.
 Hughes Co., Pierre, 21 June 1949 1 m.

South Dakota ---- 3
 Total Collection 3

Laevicephalus unicoloratus (Gillette and Baker)
 1895a:89
 Type locality: Colorado



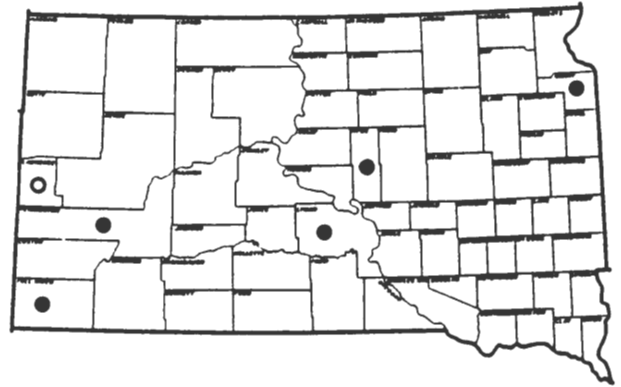
Ecological habitat: Collected by sweeping prairie pastures in association with members of the grass genus Andropogon in South Dakota.

Records:

Aurora Co., Plankinton, 17 June 1947 1 f 2 m.
 Bon Homme Co., Tabor, 20 June 1924 1 f.
 Brule Co., Kimball, 17 June 1947 1 m.
 Gregory Co., Bonesteel, 13 September 1948 1 m.
 Roberts Co., Sisseton, 7 September 1948 1 f.

South Dakota ---- 8
 Total Collection 8

Latulus misellus (Ball), 1899b:191
 Type locality: Colorado



Records:

Fall River Co., Hot Springs, 27 August 1922 1 f.
 Grant Co., Big Stone City, 23 August 1948 1 m.
 Hyde Co., Highmore, 14 August 1949 1 f.
 Lawrence Co., Deadwood, 9 September 1925 1 f.
 _____, Englewood, 26 July 1947 3 f 2 m; 27 July 1947 1 f 2 m.
 _____, Lead, 23 July 1947 3 f 7 m; 11 September 1948 3 f.
 _____, Spearfish, 28 June 1947 1 f.
 _____, Tinton, 26 July 1947 2 f 2 m.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 Pennington Co., Pactola Lake, 10 September 1948 2 f 4 m.

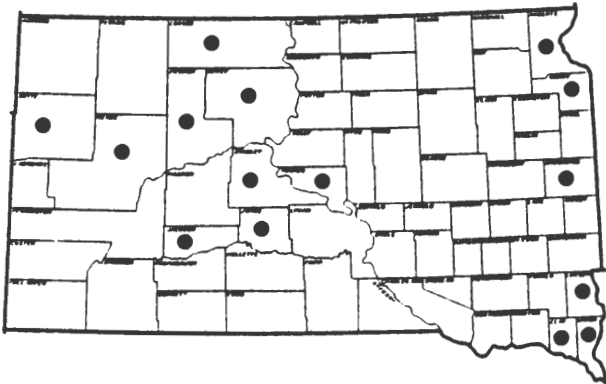
Additional Records:

Colorado, Estes Park, 20 August 1920 1 specimen; 21 August 1920 1 specimen; 25 August 1920 5 specimens; 29 August 1920 1 specimen.
 _____, Pingree Park, 20 August 1925 1 specimen.
 Iowa, Springbook, 2 July 1948 1 specimen.
 Montana, Bozeman (Spanish Creek), 1 August 1941 2 specimens; 4 August 1949 1 specimen; 8 August 1949 1 specimen.
 _____ (Gallatin Valley) 4 August 1949 2 specimens.
 _____, Glacier National Park, 31 July 1946 1 specimen.
 _____, Greenough, Lake Placid, 5 August 1946 6 specimens; 8 August 1947 56 specimens.

Washington, Spokane, 15 August 1947 1 specimen.
 Canada, Alberta, Waterton Glacier Park 26 July 1946 2 specimens.
 _____, British Columbia, Ben My Chree, 23 August 1951 5 specimens.
 _____, Manitoba, Sherridon, 14 August 1941 6 specimens.
 _____, Yukon Territory, Carcross, 7 August 1951 9 specimens.
 _____, _____, Carmacks, 25 July 1951 13 specimens.
 _____, _____, Fort Yukon, 4 August 1951 3 specimens.
 Alaska, Circle Hot Springs, 4 August 1951 8 specimens.
 _____, Fairbanks, 4 August 1951 76 specimens.
 _____, Matanuska, 1 August 1951 1 specimen.
 _____, Mt. McKinley National Park, 30 July 1951 40 specimens.
 _____, Skagway, 9 August 1951 1 specimen.
 _____, Whitehorse, 7 August 1951 11 specimen.

South Dakota ---- 37
 Colorado ----- 9
 Iowa ----- 1
 Montana ----- 77
 Washington ----- 1
 Canada ----- 38
 Alaska ----- 137
 Total Collection 300

Latulus sayi (Fitch), 1851a:61
 Type Locality: New York



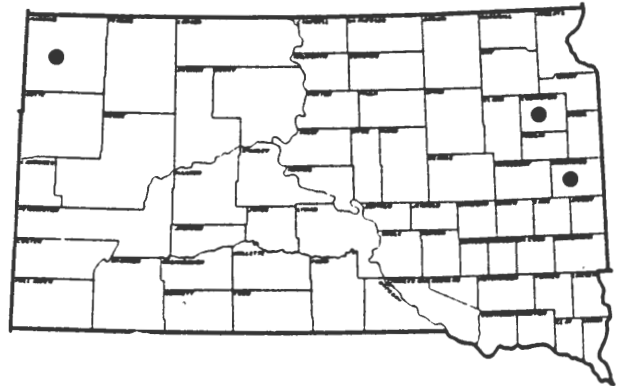
Records:

Brookings Co., Brookings, 12 June 1923 1 f; 5 June 1948 5 f 7 m; 13 July 1919 1 f; 2 July 1929 1 m; 15 July 1949 1 f; 7 September 1920 1 f 1 m; 8 September 1920 3 f 2 m; 9 September 1920 2 f 4 m; 6 September 1948 3 f; 21 September 1950 4 f 1 m.
 _____, White (Warrens Woods), 1 July 1925 1 f 3 m.
 Butte Co., Nisland, 16 August 1950 4 f 6 m.
 Clay Co., Vermillion, 16 August 1946 1 f.
 Corson Co., McLaughlin, 8 September 1948 1 m.
 Dewey Co., Cheyenne Agency, 25 June 1947 1 f.
 Grant Co., Big Stone City, 23 August 1948 1 f.
 Hughes Co., Pierre, 21 June 1949 1 f.

Jackson Co., Interior, 15 June 1948 2 f 2 m.
 Jones Co., Capa, 24 September 1920 3 f 2 m.
 Lincoln Co., Canton, 26 June 1946 3 f.
 Meade Co., Sturgis, 21 July 1947 2 f 2 m; 25 July 1947 3 f 7 m; 26 July 1947 1 f.
 Roberts Co., Sisseton, 23 August 1946 3 f 4 m; 7 September 2 f.
 Stanley Co., Fort Pierre, 21 September 1920 5 m.
 Union Co., Elk Point, 14 September 1948 1 f.
 Ziebach Co., Dupree, 25 June 1947 2 f 2 m.

South Dakota ---- 102
 Total Collection 102

Limotettix bisoni Knull, 19521:231
 Type Locality: South Dakota



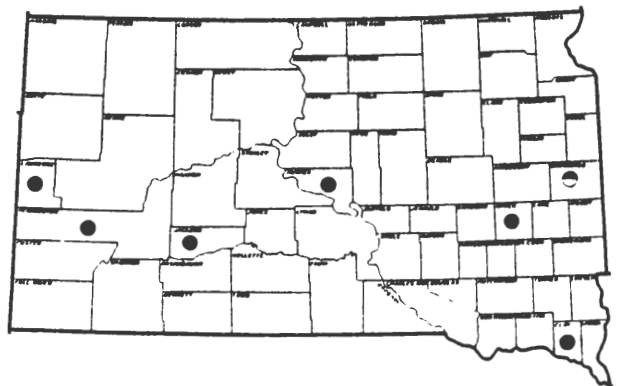
Records:

Brookings Co., Brookings, 25 July 1950 1 f
 Codington Co., Florence, 7 September 1948 3 f 6 m.
 Harding Co., Buffalo, 10 September 1948 2 f 3 m.

South Dakota ---- 15
 Total Collection 15

Remarks: According to Beine (1956) this species could possibly be a synonym of Limotettix atricapillaris (Boheman).

Limotettix parallelus (Van Duzee), 1891a:169
 Type Locality: Ontario



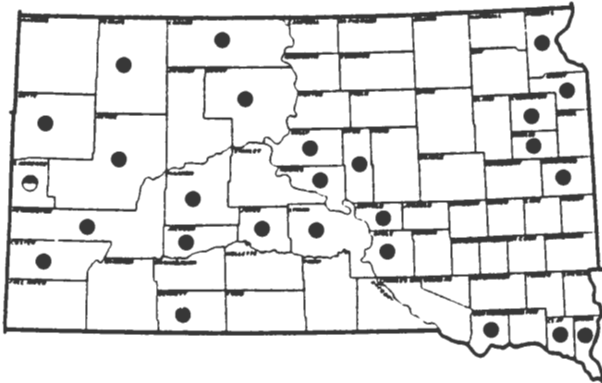
Ecological habitat: Collected from ponds, lakes and streams, associated with sedges in South Dakota.

Records:

Brookings Co., Brookings, 30 June 1921 1 f; 9 July 1919 1 f; 16 July 1920 1 m; 5 July 1921 1 f; 6 July 1921 1 m; 9 July 1921 1 f 1 m; 11 July 1921 1 f; 19 July 1921 1 f; 27 July 1921 1 f; 2 July 1922 1 f; 24 July 1922 1 m; 27 July 1922 2 m; 19 July 1928 1 f; 23 July 1943 1 f; 10 July 1946 2 m; 25 July 1950 97 f 70 m; 6 August 1945 1 f; 15 October 1920 1 f.
 _____, Lake Hendricks, 12 July 1922 2 f; 23 July 1922 1 m.
 _____, Lake Oakwood, 31 July 1921 1 f.
 Clay Co., Vermillion, 28 June 1946 1 f.
 Hughes Co., Canning, 7 August 1948 1 m.
 Jackson Co., Interior (Badlands), 28 August 1922 3 f 5 m; 29 August 1922 2 f 1 m.
 Lawrence Co., Spearfish, 1 August 1944 1 f.
 Miner Co., Roswell, 13 July 1921 1 f.
 Pennington Co., Wall (Badlands), 26 July 1928 2 f 3 m.

South Dakota ---- 211
 Total Collection 211

Limnottettix striolus (Fallen), 1806a:31
 Type locality: Sweden



Ecological habitat: Collected by sweeping along stream banks and low moist areas in association with sledges in South Dakota.

Records:

Bennett Co., Martin, 11 September 1948 3 f 3 m.
 Bon Homme Co., Springfield, 13 September 1948 2 m.
 Brookings Co., Brookings, 25 June 1919 1 f; 1 June 1921 1 f 1 m; 2 June 1921 1 f; 18 June 1921 1 f; 24 June 1921 1 m; 27 June 1921 3 f 1 m; 28 June 1921 1 f 1 m; 15 June 1943 1 f; 21 June 1943 1 f 3 m; 7 June 1946 2 m; 25 June 1946 2 f; 9 July 1921 1 f 2 m; 4 July 1943 1 f; 8 July 1945 2 f 5 m; 10 July 1946 3 f; 23 July 1946 1 f; 25 July 1950 2 f 5 m; 21 August 1921 1 f; 16 August 1946 1 f; 15 October 1920 5 f 5 m.
 _____, Lake Oakwood, 31 July 1921 1 f 2

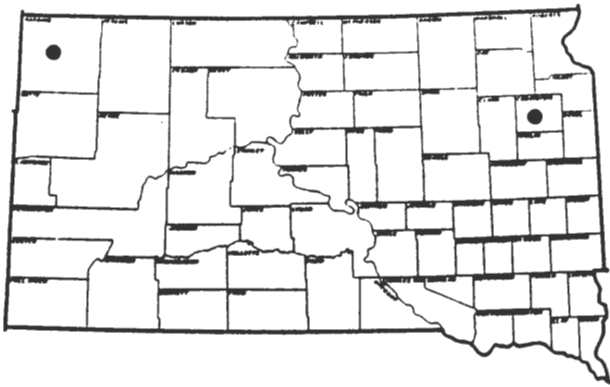
m; 17 August 1921 2 f.
 Brule Co., Chamberlain, 18 June 1947 1 f.
 _____, Kimball, 17 June 1947 8 f 12 m; 28 June 1947 1 f.
 Buffalo Co., Fort Thompson, 22 June 1943 1 f; 27 June 1943 1 f; 12 August 1943 3 f 2 m; 1 September 2 f 2 m.
 Butte Co., Newell, 28 June 1923 1 f; 29 June 1923 1 f; 26 June 1950 1 f; 30 August 1922 3 f 1 m.
 Clay Co., Meckling, 14 September 1948 2 f 5 m.
 _____, Vermillion, 6 June 1946 2 m; 8 June 1946 1 f 1 m; 22 June 1946 2 m; 24 June 1946 1 f; 28 June 1946 1 f 2 m; 29 June 1946 1 f; 1 July 1946 1 m; 16 August 1946 1 f 2 m; 21 August 1946 2 f; 27 August 1946 1 f 2 m.
 Codington Co., Florence, 7 September 1948 5 f 3 m.
 Corson Co., Walker, 8 September 3 f 2 m.
 Custer Co., Buffalo, 28 June 1947 1 f; 10 September 1948 1 f 2 m.
 Dewey Co., Lantry, 24 June 1947 1 f; 28 June 1947 1 f.
 Grant Co., Big Stone City, 27 August 1921 1 f.
 Haakon Co., Philip, 7 August 1948 1 f.
 Hamlin Co., Lake Poinsett, 7 September 1948 1 f.
 Hughes Co., Pierre, 22 April 1919 1 f; 25 July 1947 2 f.
 Hyde Co., Highmore, 27 June 1946 1 f; 1 September 1946 1 f 2 m.
 Jackson Co., Interior (Badlands) 15 June 1948 11 f 21 m; 28 August 1922 1 f 2 m; 29 August 1922 2 f 1 m.
 _____, Kadoka, 19 July 1950 21 f 36 m.
 Jones Co., Capa, 10 May 1922 1 f; 19 August 1919 1 f; 24 August 1922 1 f 1 m.
 Lawrence Co., Lead, 23 July 1947 1 f.
 _____, Spearfish, 10 September 1948 2 f 2 m.
 _____, Tinton, 26 July 1947 1 m.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 _____, Lyman, 12 September 1 m.
 Meade Co., Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 25 June 1947 10 f 8 m; 28 June 1947 2 f 4 m.
 Pennington Co., Wall (Badlands), 26 July 1948 1 f 1 m.
 Perkins Co., Lemmon, 8 September 1948 1 f 1 m.
 Roberts Co., Sisseton, 7 September 1948 1 f.
 Sully Co., Onida, 17 June 1947 1 f.
 Union Co., Elk Point, 7 June 1946 1 f; 17 June 1946 5 f 13 m; 27 June 1946 3 f; 1 July 1946 1 f 3 m; 8 July 1946 3 f; 10 July 1946 1 m; 1 August 1946 1 f 2 m; 16 August 1946 1 f.

Additional Records:

Utah, Holliday, 20 August 1949 10 specimens.
 Canada, Manitoba, Sherridon, 14 August 1949 2 specimens.

South Dakota ---- 336
 Utah ----- 10
 Canada ----- 2
 Total Collection 348

Lonatura catalina Osborn and Ball, 1898f:83
 Type locality: Iowa



Ecological habitat: Collected by sweeping prairie grasslands in South Dakota. Known to be associated with members of the grass genus Aristida.

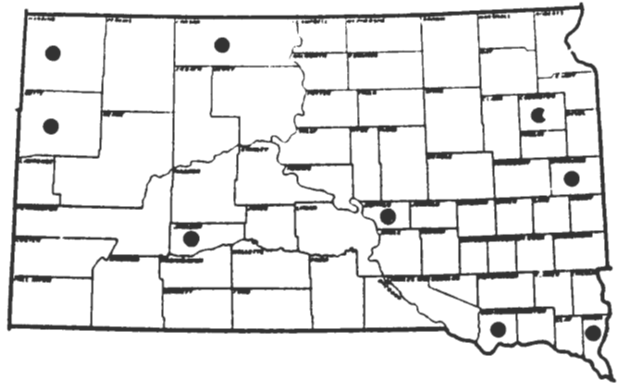
Records:

Codington Co., Florence, 7 September 1948 1 f.

Harding Co., Reva (Alkali Flats), 8 September 1948 16 f 22 m.

South Dakota ---- 39
Total Collection 39

Lonatura noctivaga Ball, 1900c:341
Type locality: Nebraska



Records:

Bon Homme Co., 19 August 1927 1 f.

Brookings Co., Brookings, 27 July 1943 1 f; 10 July 1946 1 f; 18 July 1946 1 f; 2 August 1942 1 m; 6 August 1946 1 f 1 m.

Buffalo Co., Fort Thompson, 8 July 1943 1 m; 20 August 1942 1 f.

Butte Co., Newell, 26 June 1950 1 m.

Codington Co., Florence, 7 September 1948 1 f; 8 September 1948 1 f.

Corson Co., Walker, 8 September 1 m.

Harding Co., Reva (Alkali Flats), 8 September 1948 3 f 5 m.

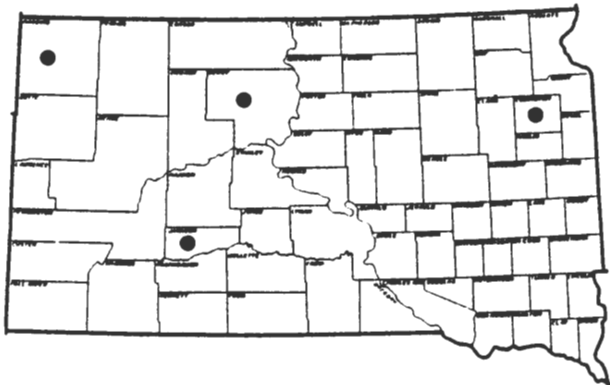
_____, Reva, 8 September 1948 1 f.

Jackson Co., Kadoka, 19 July 1950 11 f 13 m.

Union Co., Elk Point, 8 July 1946 1 f; 10 July 1946 1 m.

South Dakota ---- 48
Total Collection 48

Macrosteles divisa (Uhler), 1877a:472
Type locality: Colorado



Records

Codington Co., Florence, 7 September 1948 10 f 8 m.

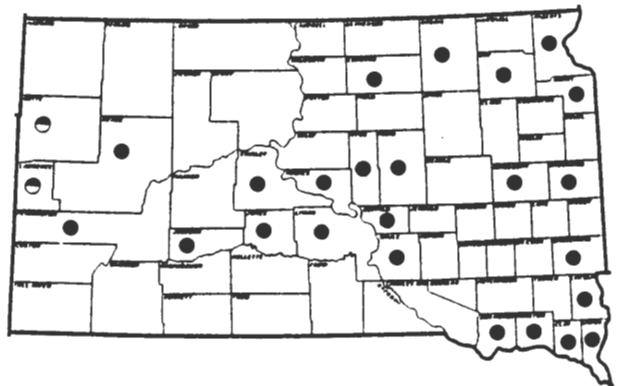
Dewey Co., Eagle Butte, 6 August 1948 3 f.

Harding Co., Reva (Alkali Flats), 8 September 1948 1 f 2 m.

Jackson Co., Kadoka, 19 July 1950 90 f 65 m.

South Dakota ---- 77
Total Collection 77

Lonatura salsura Ball, 1899d:310
Type locality: Colorado



Records:

Bon Homme Co., Springfield, 25 June 1935 1 f.

Brookings Co., Brookings, 18 June 1919 1 f; 23 June 1919 1 m; 24 June 1919 3 f 6 m; 25 June 1919 1 f 1 m; 1 June 1921

4 m; 10 June 1921 1 f; 21 June 1921 1 m; 23 June 1921 1 f 1 m; 27 June 1921 1 f; 29 June 1921 1 f; 21 June 1943 2 f 3 m; 25 June 1943 1 f; 5 June 1946 1 f; 6 June 1946 1 m; 7 June 1946 1 f; 6 July 1919 1 f; 10 July 1919 1 f; 12 July 1919 1 m; 15 July 1919 1 f; 19 July 1919 1 m; 27 July 1922 1 f; 20 July 1930 1 m; 2 July 1943 1 f; 4 July 1943 1 m; 23 July 1943 2 f 1 m; 25 July 1943 1 f; 5 July 1945 1 f; 1 August 1919 1 m; 7 August 1922 2 f 4 m; 9 August 1922 1 m; 2 August 1942 1 f; 1 August 1946 2 f 4 m; 6 August 1946 1 f; 16 August 1946 2 f 2 m; 6 September 1920 2 f; 7 September 1920 1 f 3 m; 8 September 1920 3 m; 9 September 1920 3 f 5 m; 29 September 1946 1 f; 15 October 1920 1 f 1 m.

_____, Lake Oakwood, 24 August 1921 1 f 2 m.

Brown Co., Aberdeen, 15 July 1918 1 m.

_____, Hecla, 17 July 1943 1 f; 2 August 1944 1 f.

Brule Co., Chamberlain, 5 June 1947 4 f 2 m; 14 September 1946 6 f 5 m.

Buffalo Co., Fort Thompson, 28 June 1945 1 f; 18 July 1945 1 f 1 m.

Butte Co., Belle Fourche, 24 June 1928 1 f.

_____, Newell, 28 June 1923 1 f 3 m; 29 June 1923 1 f.

_____, Nisland, 21 June 1926 1 f.

Clay Co., Vermillion, 24 June 1921 4 f 2 m; 1 June 1946 1 f; 25 June 1946 1 m; 28 June 1946 1 m; 30 July 1945 2 f; 15 July 1946 1 m; 20 July 1946 1 f; 6 August 1946 1 f; 16 August 1946 1 m; 21 August 1946 3 f; 27 August 1946 1 f.

Day Co., Waubay, 22 June 1936 3 m; 1 August 1919 1 f.

Edmunds Co., Ipswich, 29 July 1919 1 f.

Grant Co., Big Stone City, 27 August 1921 1 f 2 m.

Hand Co., Ree Heights, 11 September 1946 5 f 2 m.

Hughes Co., Harrold, 12 September 1946 5 f 4 m.

_____, Pierre, 6 August 1919 1 f; 1 September 1921 1 f.

Hyde Co., Highmore, 15 July 1945 1 m; 1 August 1946 3 f 5 m; 6 August 1946 3 f 1 m; 16 August 1946 2 f; 1 September 1946 1 f.

Jackson Co., Interior, 15 June 1943 1 f 4 m.

Jones Co., Capa, 1 June 1921 5 m; 7 August 1919 1 f; 27 August 1919 3 f 2 m; 30 August 1919 1 m; 24 August 1922 1 f.

Kingsbury Co., Lake Albert, 22 August 1923 1 f.

Lawrence Co., Lead, 2 August 1935 3 m.

_____, Spearfish, 28 June 1947 3 f 2 m.

_____, Whitwood, 10 September 1923 4 f.

Lincoln Co., Canton, 4 September 1946 2 m.

Lyman Co., Kennebec, 26 May 1947 1 f; 17 July 1947 1 f.

_____, Presho, 27 June 1947 1 f; 12 September 1946 1 f 2 m.

Meade Co., Fox Ridge, 28 June 1947 1 f.

Minnehaha Co., Colton, 1 August 1923 1 m.

_____, Crooks, 13 May 1974 1 m.

Pennington Co., Hill City, 18 June 1946 1 f; 27 June 1946 1 f; 10 July 1946 5 f 6 m; 16 August 1946 3 f 3 m.

_____, Rapid City, 24 June 1928 6 f 5 m.

Roberts Co., Sisseton, 31 July 1919 1 m; 29 August 1921 1 f; 23 August 1946 3 f 2 m.

Stanley Co., Fort Pierre, 20 September 1920 1 f; 21 September 1920 2 f 5 m; 1 September 1946 1 f; 11 September 1946 3 f 7 m.

Union Co., Elk Point, 6 June 1946 1 f; 7 June 1946 1 f 1 m; 17 June 1946 4 f 2 m; 18 July 1945 1 f; 22 July 1945 1 f; 4 July 1946 1 m; 16 July 1946 1 f; 15 September 1946 4 m.

Yankton Co., Yankton, 28 May 1974 1 m; 21 August 1973 1 f.

Additional Records:

Colorado, Estes Park, 25 August 1920 2 specimens.

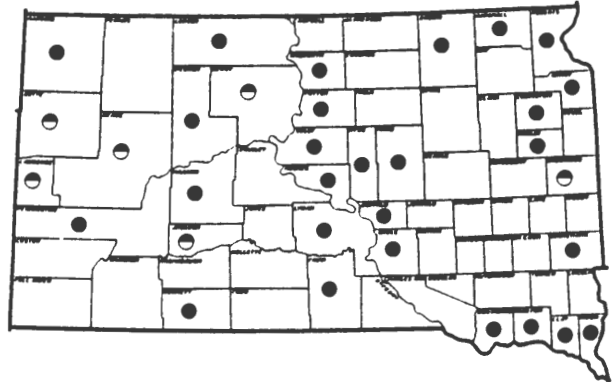
North Dakota, Edgeley, 25 July 1921 5 specimens.

Pennsylvania, Mechanicsburg, 15 June 1919 1 specimen.

Washington, Spokane, 15 August 1947 1 specimen.

| | |
|-------------------|-----|
| South Dakota ---- | 300 |
| Colorado ----- | 3 |
| North Dakota ---- | 5 |
| Pennsylvania ---- | 1 |
| Washington ----- | 1 |
| Total Collection | 310 |

Macrosteles fascifrons (Stal), 1858c:194
 type locality: Bavaria



Records:

Bennett Co., Martin, 11 September 1948 2 f.

Bon Homme Co., Tabor, 20 July 1924 1 f 1 m.

Brookings Co., Brookings, 28 June 1943 1 f; 2 June 1944 1 m; 15 June 1944 2 m; 7 June 1946 2 m; 5 June 1948 1 f; 7 July 1943 1 f; 23 July 1943 1 f; 25 July 1943 1 f; 18 July 1946 2 m; 25 July 1950 2 f; 2 August 1942 1 f; 15 August 1950 2 f; 30 September 1947 1 f 1 m; 6 September 1948 1 f.

_____, Lake Oakwood, 14 June 1923 1 f.

_____, White, 28 May 1925 1 f; 22 July 1935 1 f 1 m.

Brown Co., Hecla, 17 June 1943 1 f; 20 June 1944 1 f; 16 July 1944 1 f; 7 September 1948 1 f 2 m.

Brule Co., Chamberlain, 5 June 1947 1 m; 17 June 1947 2 f 1 m.

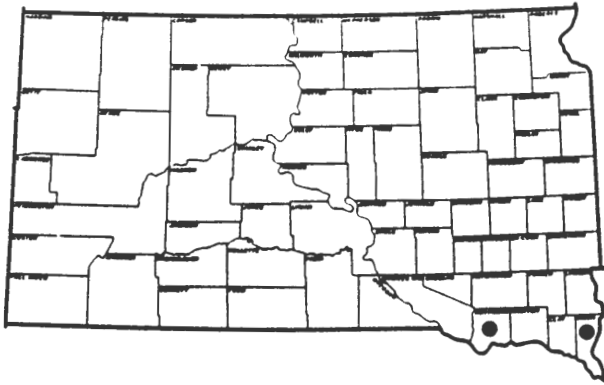
_____, Kimball, 17 June 1947 1 m; 28 June 1947 1 f.
 Buffalo Co., Fort Thompson, 27 June 1943 1 f; 21 June 1944 1 f 3 m; 12 August 1943 2 m; 12 August 1944 2 f 1 m; 1 September 1943 2 f 3 m; 1 September 1945 2 m; 1 September 1948 2 f.
 Butte Co., Bell Fourche, 24 June 1928 1 f.
 _____, Newell, 27 May 1951 3 m; 21 July 1947 1 f.
 _____, Nisland, 21 July 1947 1 f 3 m.
 Clay Co., Meckling, 14 September 1948 1 f.
 _____, Vermillion, 3 June 1953 1 m.
 Codington Co., Florence, 7 September 1948 23 f 33 m.
 Corson Co., McLaughlin, 8 September 1948 1 f.
 Dewey Co., Cheyenne Agency, 25 June 1947 3 m.
 _____, Eagle Butte, 6 August 1948 1 f 1 m.
 _____, Lantry, 28 June 1947 1 m.
 Grant Co., Marvin, 25 June 1953 1 f.
 Haakon Co., Midland, 23 May 1951 2 f.
 Hamlin Co., Lake Poinsett, 7 September 1948 1 f.
 Hand Co., Vayland, 7 June 1949 2 f.
 Harding Co., Buffalo, 28 June 1947 1 f 3 m; 27 August 1952 1 f; 10 September 1948 3 m.
 Hughes Co., Canning, 16 July 1950 1 f 2 m; 7 August 1948 1 f.
 _____, Pierre, 17 July 1947 5 f; 22 July 1947 4 f; 25 July 1947 2 f 4 m.
 Hyde Co., Highmore, 14 June 1948 1 f; 1 August 1946 1 f 1 m.
 Jackson Co., Cottonwood, 2 June 1948 1 f; 9 June 1949 32 f 20 m.
 _____, Interior (Badlands), 15 June 1943 275 f 118 m.
 _____, Kadoka, 19 July 1950 1 f.
 Lawrence Co., Englewood, 18 June 1925 1 f 2 m; 26 July 1947 1 m; 11 September 1948 1 f.
 _____, Lead, 23 July 1947 3 f; 11 September 1948 3 m.
 _____, Spearfish, 28 June 1947 2 m; 16 July 1944 1 f.
 Lyman Co., Lyman, 12 September 1946 1 f 3 m.
 _____, Kennebec, 17 July 1947 5 f 5 m; 14 July 1948 3 f.
 Marshall Co., Eden, 25 June 1953 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 4 f 2 m.
 _____, Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 2 f.
 Minnehaha Co., Sioux Falls, 21 August 1949 3 f 5 m.
 Pennington Co., Hill City, 8 July 1946 2 f; 14 July 1946 1 f 1 m.
 Potter Co., Gettysburg, 26 June 1947 1 f; 27 June 1947 1 f 1 m.
 Roberts Co., Sisseton, 7 September 1948 2 m.
 Sully Co., Agar, 7 July 1944 1 f.
 _____, Onida, 17 June 1947 1 f 1 m.
 Tripp Co., Winner, 21 July 1950 1 f.
 Union Co., Elk Point, 7 June 1946 3 f; 17 July 1946 1 f; 1 August 1946 1 f; 14 September 1948 1 f.
 Walworth Co., Selby, 11 August 1942 1 f.
 Yankton Co., Yankton, 20 June 1924 2 m.
 Ziebach Co., Dupree, 25 June 1947 15 f 19 m.

Additional Records:

Colorado, Pingree Park, 20 August 1925 2 specimens.
 Montana, Bozeman, 21 July 1949 10 specimens; 25 July 1949 1 specimen; 5 August 1949 8 specimens; 8 August 1949 1 specimen.
 _____, MacDonald Pass, 6 August 1947 1 specimen.
 _____, Placid Lake, 8 August 1947 11 specimens.
 North Dakota, Medora, 26 August 1947 3 specimens.
 Utah, Bryce Natural Park, 30 August 1950 1 specimen.
 _____, Holliday, 20 August 1949 9 specimens.
 _____, Manti, 25 August 1950 3 specimens.
 _____, Marysville, 26 August 1950 5 specimens.
 Washington, Spokane, 15 August 1947 3 specimens.
 Wyoming, Three Forks, 14 August 1949 1 specimen.
 Alaska, Carcross, 7 August 1951 10 f 4 specimens.
 _____, Circle Hot Springs, 4 August 1951 125 specimens.
 _____, Fairbanks, 4 August 1951 44 specimens.
 _____, Mantanuska, 1 August 1951 122 specimens.
 _____, McKinley National Park, 30 August 1951 14 specimens.
 _____, Palmer, 1 August 1951 10 specimens.
 _____, Skagway, 8 August 1951 40 specimens; 9 August 1951 292 specimens.
 Canada, British Columbia, Gillam, 14 August 1949 27 specimens.
 _____, Kamloops, 19 August 1947 16 specimens.
 _____, Revelstoke, 11 August 1947 3 specimens.
 _____, Rosedale, 18 August 1947 7 specimens.
 _____, Manitoba, Churchill, 18 August 1949 159 specimens.
 _____, Dolphin, 12 August 1949 35 specimens.
 _____, Sherridon, 14 August 1949 10 specimens.
 _____, Yukon Territory, Carmacks, 25 July 1951 96 specimens.
 _____, Camark, Casa Reef, 25 July 1951 9 specimens.
 _____, Fort Yukon, 4 August 1951 2 specimens.
 _____, Whitehorse, 7 August 1951 16 specimens.

| | | |
|------------------|-------|-----|
| South Dakota | ---- | 717 |
| Colorado | ----- | 2 |
| Montana | ----- | 32 |
| North Dakota | ---- | 3 |
| Utah | ----- | 18 |
| Washington | ----- | 3 |
| Wyoming | ----- | 1 |
| Alaska | ----- | 129 |
| Canada | ----- | 68 |
| Total Collection | | 972 |

Macrosteles lepida (Van Duzee), 1894c:139
 Type locality: New York



Ecological habitat: Collected in woodlands along river banks and marshy habitats in association with sedges in South Dakota.

Records:

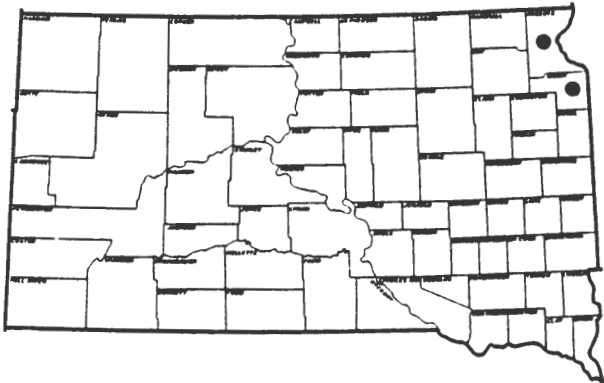
Bon Homme Co., Springfield, 13 September 1948 1 f.
 Union Co., Elk Point, 6 June 1946 1 f; 7 June 1946 3 f 5 m; 19 June 1946 6 f 5 m; 18 June 1946 2 f; 30 July 1945 1 f; 17 July 1946 1 f; 28 July 1946 1 m; 10 July 1948 1 f; 13 August 1945 1 f; 6 August 1946 1 f 1 m; 27 August 1946 1 f.

Additional Records:

Montana, Bozeman, 1 August 1949 1 specimen.

South Dakota ---- 31
 Montana ----- 1
 Total Collection 32

Macrosteles pоторia (Ball), 1900c:346
 Type locality: Iowa



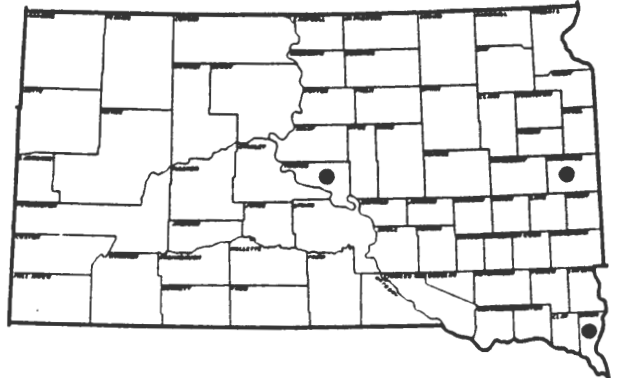
Ecological habitat: Collected along creek bank and on shore of Big Stone Lake in South Dakota.

Records:

Grant Co., Big Stone City, 27 August 1921 3 f 4 m.
 Roberts Co., Sisseton, 7 September 1948 92 f 99 m.

South Dakota ---- 198
 Total Collection 198

Macrosteles variata (Fallen), 1806a:34
 Type locality: Europe



Ecological habitat: Collected along river banks in moist woodland areas in South Dakota.

Records:

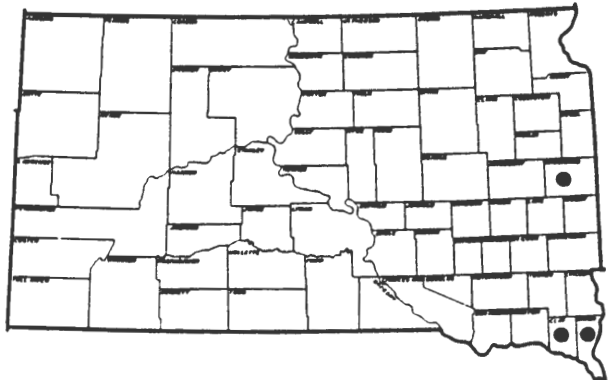
Brookings Co., Brookings (near Sioux River), 7 June 1946 1 f; 13 June 1946 1 f.
 Hughes Co., Canning, 7 August 1948 1 m.
 Union Co., Elk Point, 7 June 1946 1 f.

Additional Records:

Montana, Bozeman, Spanish Creek, 8 August 1949 1 f.
 Canada, Manitoba, Dolphin, 12 August 1949 1 m.

South Dakota ---- 4
 Montana ----- 1
 Canada ----- 1
 Total Collection 6

Menosoma cincta (Osborn and Ball), 1898f:97
 Type locality: Iowa



Ecological habitat: Collected in wooded areas and along river banks in South Dakota.

Records:

Brookings Co., Brookings, 6 July 1942 1 f.

Clay Co., Vermillion, 3 August 1945 1 m;
6 August 1945 1 f; 9 August 1945 1 f;
12 August 1945 1 f; 6 August 1946 1 m;
1 September 1945 1 m.
Union Co., Elk Point, 10 August 1924 1 f;
6 August 1946 1 f.

Roberts Co., Sisseton, 23 August 1946 1
f.
Stanley Co., Fort Pierre, 12 September
1946 3 f 7 m.
Ziebach Co., Dupree, 25 June 1947 4 f 2
m.

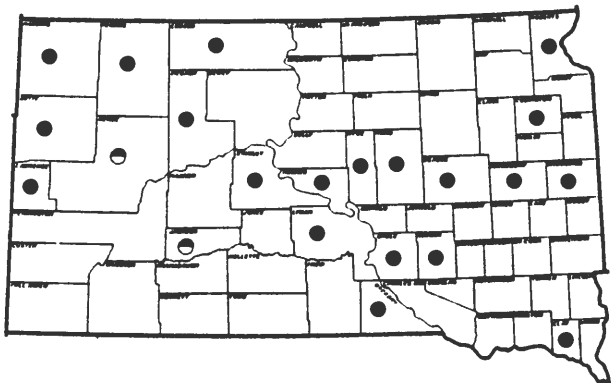
South Dakota ---- 9
Total Collection 9

South Dakota ---- 147
Total Collection 147

Mesamia coloradensis (Gillette and Baker),

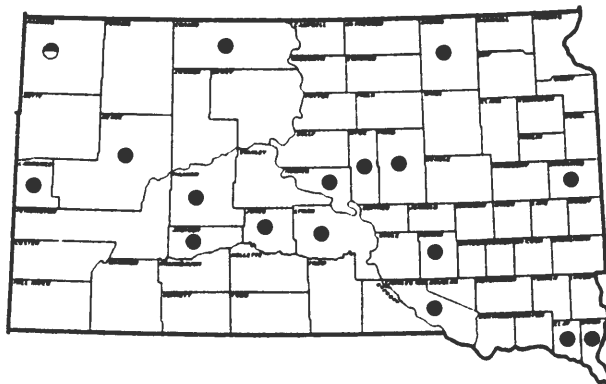
1895a:91

Type Locality: Colorado



Mesamia nigridorsum (Ball), 1907a:60

Type Locality: Pennsylvania



Records:

Aurora Co., Plankinton, 17 June 1947 6 f
6 m.
_____, White Lake, 27 June 1946 1 f.
Beadle Co., Byron, 10 September 1946 3 f
4 m.
_____, Wolsey, 10 September 1946 15 f 17
m.
Brookings Co., Brookings, 16 August 1946
1 f.
_____, Bruce, 24 August 1923 2 f.
Butte Co., MIsland, 16 August 1950 1 f.
Brule Co., Chamberlain, 18 June 1947 3 f.
_____, Kimball, 17 June 1947 4 f 3 m.
Clay Co., Meckling, 26 August 1926 1 f.
Codington Co., Watertown, 22 August 1946
1 f.
Corson Co., Walker, 8 September 1948 1 f
1 m.
Gregory Co., Bonesteel, 13 September 1948
1 f 1 m.
Hand Co., Ree Heights, 11 September 1946
1 f.
Harding Co., Buffalo, 28 June 1947 7 f 5
m.
_____, Reva, 8 September 1948 6 f 5 m.
Hughes Co., Canning, 16 August 1950 1 f.
_____, Harrold, 12 September 1946 3 f.
Hyde Co., Highmore, 6 August 1946 3 m; 14
August 1949 2 f; 21 August 1949 1 f.
Jackson Co., Cottonwood, 9 June 1949 1 f;
24 June 1950 1 f.
_____, Interior, 15 June 1948 1 f 1 m.
_____, Kadoka, 19 July 1950 3 f 1 m.
Kingsbury Co., DeSmet, 23 June 1940 1 f.
Lawrence Co., Spearfish, 28 June 1947 1
m.
Lyman Co., Kennebec, 17 July 1947 1 f.
Meade Co., Cedar Canyon, 27 June 1947 1 f
1 m.
_____, Edson, 27 June 1947 1 f.
_____, Fox Ridge, 28 June 1947 3 f 6 m.
Perkins Co., Bison, 10 September 1948 5
m.

Ecological habitat: Collected sweeping
prairie habitats in association with
Helianthus sp. in South Dakota.

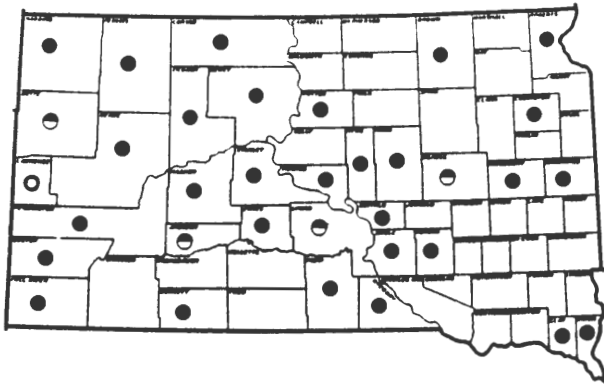
Records:

Aurora Co., White Lake, 23 August 1929 4
m.
Brookings Co., Brookings, 25 July 1949 1
f.
Brown Co., Hecla, 20 June 1940 1 f.
Charles Mix Co., Platte, 16 June 1933 1 f
1 m.
Clay Co., Vermillion, 1 August 1946 1 f.
Corson Co., McLaughlin, 8 September 1948
2 f.
Haakon Co., Philip, 7 August 1948 1 f 2
m.
Hand Co., Vayland, 7 June 1949 2 f.
Harding Co., Buffalo, 28 July 1947 1 f.
_____, Reva (Alkali Flats, 8 September
1948 1 f 2 m.
_____, Reva, 8 September 1948 3 f.
Hughes Co., Canning 15 July 1945 1 f.
Hyde Co., Highmore, 20 June 1946 1 f; 5
September 1945 1 f.
Jackson Co., Cottonwood, 9 June 1949 3 f
3 m.
Jones Co., Capa, 15 August 1922 1 f; 20
August 1922 1 f; 24 August 1922 1 f.
Lawrence Co., Lead, 23 July 1947 1 f.
Lyman Co., Kennebec, 7 July 1947 1 f; 17
July 1947 2 f 3 m.
Meade Co., Edson, 27 June 1947 1 f.
Union Co., Elk Point, 19 June 1924 2 f 1
m; 7 June 1946 1 f; 27 June 1946 1 f;
30 July 1945 1 f; 16 July 1946 1 f 1
m; 28 July 1946 3 m; 1 August 1946 5 f
3 m; 6 August 1946 1 f; 1 September
1946 1 m.

South Dakota ---- 76
Total Collection 76

Mocuellus collinus (Boheman), 1850a:261

Type Locality: Gotland



Records:

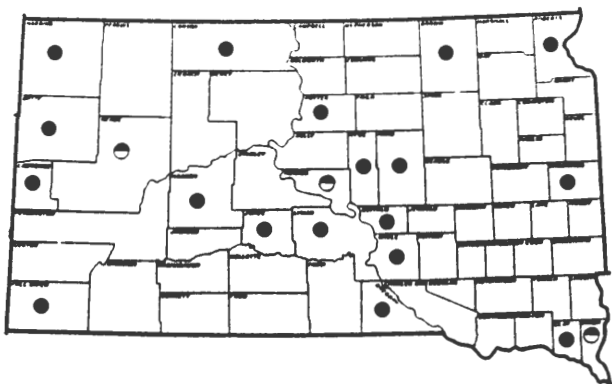
- Aurora Co., Plankinton, 17 June 1947 15 f 25 m.
 Beadle Co., Byron, 10 September 1946 2 f.
 _____, Cavour, 7 June 1950 1 f 2 m.
 _____, Wolsey, 10 September 1946 1 f 3 m.
 Bennett Co., Martin, 11 September 1948 1 f.
 Brookings Co., Brookings, 25 August 1943 1 f.
 _____, Lake Oakwood, 14 June 1923 1 f; 24 August 1923 1 f.
 Brown Co., Hecla, 7 September 1948 3 f 7 m.
 Brule Co., Chamberlain, 5 June 1947 10 f 22 m; 17 June 1947 19 f 13 m; 18 June 1947 2 f 4 m.
 _____, Kimball, 17 June 1947 32 f 15 m; 28 June 1947 38 f 21 m.
 Buffalo Co., Fort Thompson, 27 June 1946 4 f 3 m; 28 June 1946 1 f; 15 July 1946 1 f.
 Butte Co., Belle Fourche, 27 June 1947 3 f 2 m.
 _____, Newell, 27 May 1951 1 f; 29 June 1923 1 f; 21 July 1947 6 f 4 m.
 _____, Nisland, 13 August 1952 2 f.
 Clay Co., Meckling, 16 June 1926 6 f 5 m; 26 August 1926 2 f 2 m; 14 September 1948 3 f 1 m.
 Codington Co., Florence, 7 September 1948 13 f 9 m.
 Corson Co., Walker, 8 September 1948 10 f 5 m.
 Custer Co., State Game Lodge, 22 August 1952 1 f.
 Dewey Co., Eagle Butte, 22 June 1927 1 m; 26 July 1952 1 f 2 m; 6 August 1948 2 f.
 Fall River Co., Hot Springs, 27 June 1924 2 f 1 m; 11 September 1948 1 f.
 Gregory Co., Dallas, 21 July 1950 3 f 4 m.
 Haakon Co., Midland, 23 May 1951 4 f 4 m; 17 June 1950 1 f.
 _____, Philip, 7 August 1948 2 f.
 Hand Co., Ree Heights, 11 September 1946 33 f 56 m.
 Harding Co., Buffalo, 19 June 1925 5 f 4 m; 27 June 1947 2 f; 28 June 1947 10 f 7 m; 27 June 1950 1 f; 22 August 1952 3 m; 27 August 1952 1 f; 28 August 1952 1 f 3 m; 5 August 1953 1 f; 6 September 1925 2 f; 10 September 1948 2 f 2 m.
 _____, Reva, 8 September 1948 2 f 4 m.
 Hughes Co., Harrold, 12 September 1946 41 f 38 m.
 _____, Pierre, 25 June 1947 12 f 10 m; 21 June 1949 1 f; 9 June 1951 1 f; 25 June 1951 1 f; 22 July 1947 1 f 3 m.
 Hyde Co., Highmore, 1 June 1948 1 f; 23 June 1950 1 f; 15 July 1945 1 f; 14 August 1949 3 m.
 Jackson Co., Cottonwood, 9 June 1949 1 f; 15 June 1949 1 f 1 m; 24 June 1950 3 f 4 m; 12 June 1952 1 f; 26 July 1948 5 f 5 m; 21 July 1950 2 f.
 _____, Interior, 15 June 1943 7 m; 22 July 1948 1 f; 28 August 1922 3 f 1 m.
 _____, Kadoka, 19 July 1950 8 f 5 m.
 Jones Co., Capa, 1 June 1921 16 f 12 m; 27 August 1919 1 f 2 m; 31 August 1919 1 f; 24 August 1922 10 f 9 m; 23 September 1920 2 f 3 m.
 Kingsbury Co., DeSmet, 23 June 1950 1 f.
 Lawrence Co., Cheyenne Crossing, 25 June 1947 2 f; 27 June 1947 1 f 1 m.
 _____, Lead, 23 July 1947 1 f.
 _____, Spearfish, 28 June 1947 13 f 8 m.
 _____, Tinton, 26 July 1947 1 f 1 m.
 Lyman Co., Kennebec, 3 June 1948 1 f; 7 July 1947 14 f 19 m; 8 July 1947 1 f; 17 July 1947 21 f 27 m.
 _____, Lyman, 12 September 1947 1 f 2 m.
 _____, Presho, 17 June 1947 8 f 14 m; 27 July 1947 10 f 1 m; 28 June 1947 3 f 5 m.
 Meade Co., Edson, 27 June 1947 3 f 5 m.
 _____, Fox Ridge, 25 June 1947 3 f 1 m; 28 June 1947 9 f 6 m.
 Pennington Co., Rapid City, 25 June 1923 1 f.
 _____, Wall, 21 July 1947 6 f 5 m; 26 July 1948 1 f 2 m.
 Perkins Co., Bison, 10 September 1948 2 f 1 m.
 Potter Co., Gettysburg, 26 June 1947 7 f 4 m; 27 June 1947 10 f 9 m.
 Roberts Co., Sisseton, 29 August 1921 1 f; 7 September 1948 1 f.
 Stanley Co., Fort Pierre, 23 May 1951 1 f; 12 September 1946 17 f 18 m.
 Tripp Co., Winner, 21 July 1951 3 f 2 m.
 Union Co., Elk Point, 27 June 1946 1 f.
 Ziebach Co., Dupree, 25 June 1947 3 f 5 m.

Additional Records:

- Colorado, Rocky Mt. National Park, 2 August 1931 1 specimen.
 Kansas, Kinsley, 1 September 1950 1 specimen.
 North Dakota, Medora, 26 August 1947 48 specimens.
 Oklahoma, Texahoma, 1 September 1950 3 specimens.
 Utah, Bryce National Park, 30 August 1950 20 specimens.
 Wyoming, Wamsutter, 25 August 1950 11 specimens.

| | |
|-------------------|------|
| South Dakota ---- | 1006 |
| Colorado ----- | 1 |
| Kansas ----- | 1 |
| North Dakota ---- | 49 |
| Oklahoma ----- | 3 |
| Utah ----- | 20 |
| Wyoming ----- | 11 |
| Total Collection | 1091 |

Norvellina chenopodii (Osborn), 1923a:161
 Type locality: Iowa



Ecological habitat: Collected from members of the goosefoot plant family Chenopodiaceae and the species *Chenopodium album*, lamb's quarters in South Dakota.

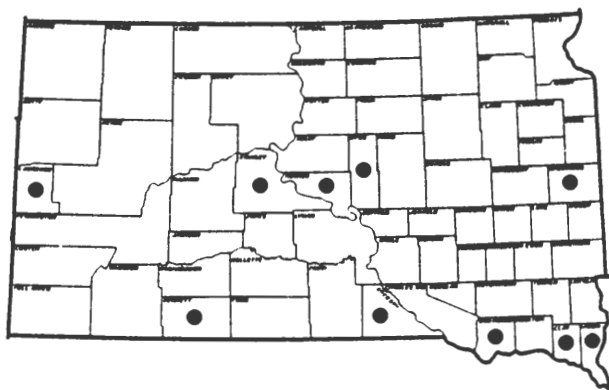
Records:

- Brookings Co., Brookings, 27 June 1921 1 f; 24 June 1939 1 m; 21 June 1943 1 f; 26 June 1943 1 m; 28 June 1943 1 f; 13 June 1946 1 f; 25 June 1946 1 f; 26 June 1919 1 f; 28 July 1920 1 m; 17 July 1924 1 f; 23 July 1927 1 m; 4 July 1943 1 f; 15 July 1943 1 f; 13 July 1945 1 m; 16 August 1942 1 f; 30 August 1943 1 m; 21 September 1946 1 f; 8 October 1943 1 f 1 m.
 _____, Volga, 19 June 1921 1 f.
 Brown Co., Aberdeen, 30 July 1919 1 f.
 _____, Hecla, 7 September 1948 2 f.
 Brule Co., Chamberlain, 17 July 1947 1 f 2 m.
 Buffalo Co., Fort Thompson, 22 June 1943 1 f 1 m; 27 June 1943 2 f 1 m; 8 July 1943 1 f; 20 August 1942 1 f; 25 August 1942 1 f; 12 August 1943 1 f 1 m; 1 September 1942 1 f; 1 September 1943 1 m.
 Butte Co., Belle Fourche, 24 June 1928 1 f.
 _____, Mtisland, 21 July 1947 1 m.
 Clay Co., Meckling, 26 August 1926 4 f 3 m.
 _____, Vermillion, 6 June 1946 2 f; 16 June 1946 1 f; 18 June 1946 3 f 2 m; 28 June 1946 8 f; 30 July 1945 1 f; 1 July 1946 2 m; 4 July 1946 5 f 2 m; 8 July 1946 1 f; 10 July 1946 1 f; 15 July 1946 1 f 2 m; 17 July 1946 1 f; 6 August 1946 3 f 3 m; 7 August 1946 1 f; 16 August 1946 4 f 2 m 21 August 1946 2 f; 27 August 1946 3 f 3 m; 6 September 1946 1 f; 21 September 1946 4 f 3 m.
 Corson Co., Walker, 8 September 1948 7 f 8 m.
 Fall River Co., Hot Springs, 27 June 1924 1 f.
 Gregory Co., Fairfax, 2 August 1919 1 f.
 _____, Gregory, 18 June 1931 1 f.
 Haakon Co., Milesville, 23 June 1931 1 m.
 _____, Philip, 7 August 1948 1 f 2 m.
 Hand Co., Vayland, 7 June 1949 2 f 1 m.
 Harding Co., Buffalo, 26 August 1924 1 f; 28 June 1947 1 f.
 Hughes Co., Canning, 15 July 1945 1 f.
 _____, Harrold, 12 September 1946 1 f.
 _____, Pierre, 17 July 1947 1 f 2 m.

- Hyde Co., Highmore, 20 June 1946 1 f; 27 June 1946 2 f 1 m; 12 July 1945 1 f; 6 August 1946 1 f; 16 August 1946 3 f 3 m; 1 September 1946 4 f 4 m.
 Jones Co., Capa, 21 August 1919 1 f; 15 August 1922 1 f; 20 August 1922 1 m; 24 August 1922 1 f.
 Lawrence Co., Spearfish, 28 June 1947 2 f 4 m.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 Meade Co., Cedar Canyon, 27 June 1947 1 f.
 _____, Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 3 f 2 m.
 Potter Co., Gettysburg, 26 June 1947 1 f.
 Roberts Co., Sisseton, 7 September 1948 1 f.
 Union Co., Beresford, 3 September 1946 1 f 1 m.
 _____, Elk Point, 12 June 1923 1 f; 17 June 1946 1 f 1 m; 18 June 1946 3 f 2 m; 27 June 1946 1 f; 30 July 1945 1 f; 1 July 1946 1 f; 10 July 1946 1 f 2 m; 17 July 1946 2 f; 1 August 1946 3 f 5 m; 6 August 1946 2 f; 16 August 1946 3 f; 27 August 1946 1 f 2 m; 15 September 1946 2 f; 14 September 1948 2 f.
 _____, Jefferson, 13 June 1936 1 f.

South Dakota ---- 217
 Total Collection 217

Norvellina seminuda (Say) 1830b:307
 Type locality: Indiana



Ecological habitat: Collected by sweeping along cultivated fields and gardens in South Dakota.

Records:

- Bennett Co., Martin, 11 September 1948 1 f.
 Bon Homme Co., Springfield, 13 September 1948 1 f 3 m.
 Brookings Co., Brookings, 21 June 1943 1 f; 26 June 1943 1 f; 7 June 1946 1 f; 17 June 1946 1 m; 25 June 1946 1 m; 18 July 1946 1 m; 1 August 1946 1 f 1 m; 16 August 1946 2 f 3 m; 6 September 1948 1 f; 8 October 1943 1 f.
 Clay Co., Vermillion, 6 June 1946 2 f 2 m; 7 June 1946 1 f; 14 June 1946 1 f; 16 June 1946 1 m; 22 June 1946 1 f 1 m; 24 June 1946 1 f; 3 m; 25 June 1946 1 f; 30 July 1945 1 f; 1 July 1946 1 f; 6 August 1943 1 f; 1 August 1946 1 f; 6 August 1946 1 f 1 m; 16 August

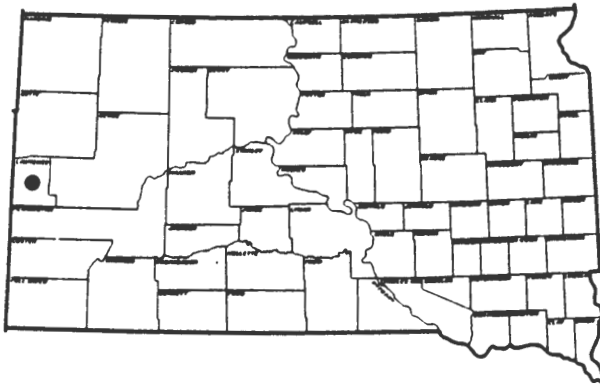
1946 2 f 1 m; 21 August 1946 1 f 1 m;
 27 August 1946 1 f.
 Gregory Co., Bonesteel, 13 September 1948
 1 m.
 Hughes Co., Canning, 7 August 1948 1 f.
 Hyde Co., Highmore, 10 June 1946 1 f; 12
 June 1946 1 m; 1 August 1946 1 f; 16
 August 1946 1 f 1 m.
 Lawrence Co., Spearfish, 10 September
 1948 1 f 1 m.
 Stanley Co., Fort Pierre, 6 August 1948 1 f.
 Union Co., Elk Point, 7 June 1946 1 f; 16
 June 1946 1 f; 17 June 1946 1 f; 18 June
 1946 2 f 4 m; 28 June 1945 1 f; 30 July
 1945 1 f; 8 July 1946 1 f; 6 August 1946
 1 f 1 m; 14 September 1948 2 f 1 m.

Additional Records:

Iowa, Ames, 19 September 1948 1 specimen;
 3 October 1948 1 specimen.
 _____, Sioux City, 20 July 1948 1 specimen.

South Dakota ---- 76
 Iowa ----- 3
 Total collection 79

Oncopsis fitchi (Van Duzee), 1916a:65
 Type locality: New York



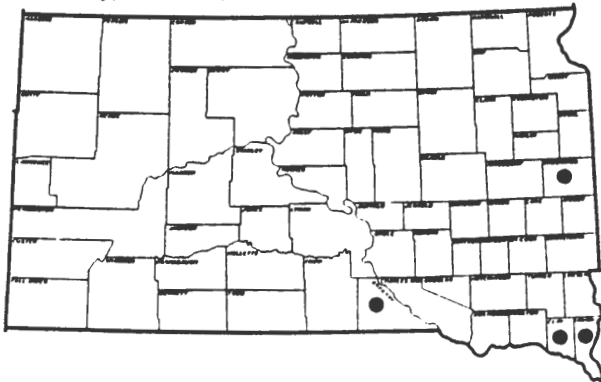
Ecological habitat: Collected from Betula
 sp. (Birch) in South Dakota.

Records:

Lawrence Co., Pluma, 26 July 1947 1 f 2 m.

South Dakota ---- 3
 Total Collection 3

Oncopsis verticis (Say), 1830b:308
 Type locality: Missouri



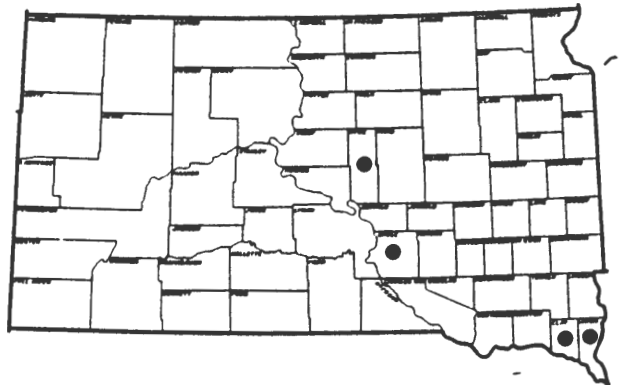
Ecological habitat: Collected from Black
 Walnut trees in South Dakota.

Records:

Brookings Co., Brookings, 1 July 1945 1
 f; 4 July 1945 10 f 9 m; 6 July 1945 1
 f 1 m; 1 August 1922 1 f 1 m.
 Clay Co., Vermillion, 30 July 1945 1 f 1
 m; 20 August 1946 1 f.
 Gregory Co., Fairfax, 22 June 1924 3 f 2
 m.
 Union Co., Elk Point, 17 July 1945 8 f 4
 m; 28 July 1945 1 f 1 m; 16 July 1946
 1 f; 13 September 1945 1 f.

South Dakota ---- 54
 Total Collection 54

Opsius stactogalus Fieber, 1866a:505
 Type locality: France



Ecological habitat: Collected from the
 ornamental tamarix in South Dakota.

Records:

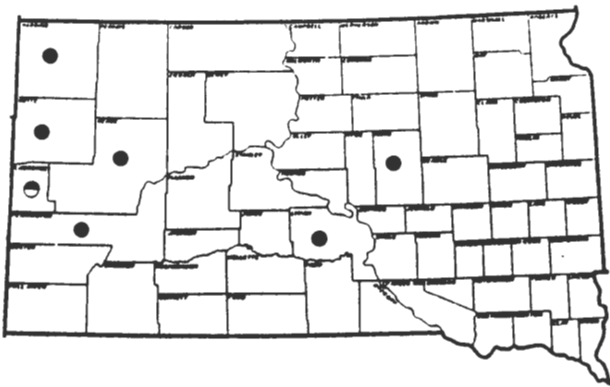
Brule Co., Chamberlain, 14 September 1946
 1 f.
 Clay Co., Vermillion, 20 July 1945 3 f 4
 m; 21 July 1945 3 f 6 m; 22 July 1945
 4 f; 24 July 1945 10 f 9 m; 30 July
 1945 1 f; 23 July 1946 1 f; 11 August
 1945 1 f; 29 August 1945 1 m; 16
 August 1946 3 f 4 m; 21 August 1946 1
 f; 27 August 1946 1 f 1 m; 5 September
 1945 3 f 1 m; 7 September 1945 3 f; 11
 September 1945 2 m; 4 September 1946 2
 f 4 m; 21 September 1946 5 f 4 m.
 Hyde Co., Highmore, 6 August 1946 2 f.
 Union Co., Elk Point, 22 July 1945 5 m;
 30 July 1945 3 f; 28 July 1946 1 f 1
 m; 8 August 1945 1 f; 15 September
 1946 2 f 4 m; 13 September 1945 1 f.

Additional Records:

Utah, Zion Park, 28 August 1950 94
 specimens.

South Dakota ---- 98
 Utah ----- 94
 Total Collection 192

Orocatus perpusillus (Ball and Delong),
 1926a:241
 Type locality: Montana



Records:

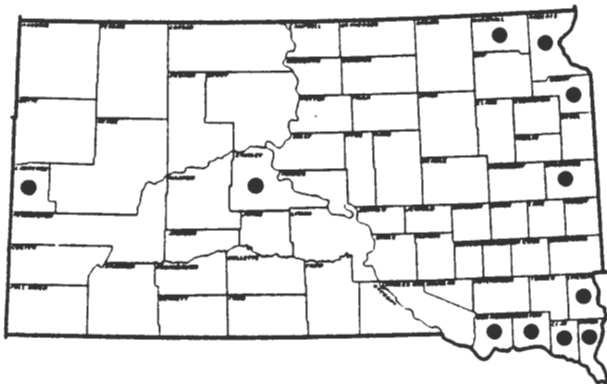
Butte Co., Nisland, 16 August 1950 1 f.
 Hand Co., Ree Heights, 11 September 1946 1 f.
 Harding Co., Buffalo, 27 June 1947 38 f 51 m; 28 June 1947 15 f 5 m; 23 June 1950 31 f 22 m.
 Lawrence Co., Lead, 23 July 1947 1 f 1 m. _____, Spearfish, 28 June 1947 12 f 13 m. _____, Tinton, 26 July 1947 2 f 3 m.
 Lyman Co., Presho, 27 June 1947 1 f.
 Meade Co., Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 1 f 1 m.
 Pennington Co., Wall, 21 July 1947 1 f.

Additional Records:

Montana, Bozeman (Spanish Creek), 1 August 1949 3 specimens.

South Dakota ---- 201
 Montana ----- 3
 Total Collection 204

Osbornellus auronitens (Provancher), 1889a:277
 Type Locality: Massachusetts



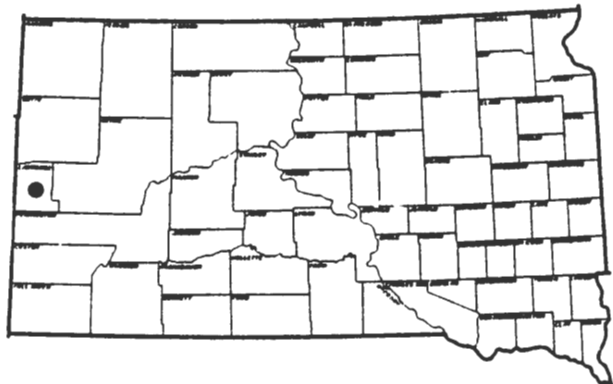
Records:

Bon Homme Co., Springfield, 13 September 1948 1 f 2 m.
 Brookings Co., Brookings, 3 July 1919 3 m; 26 July 1919 1 f 3 m; 29 July 1919 1 f; 28 July 1920 1 f; 15 August 1919 1 f; 30 August 1919 2 f 2 m; 25 August 1920 2 f; 28 August 1920 1 f; 16 August 1942 1 m; 1 August 1946 1 f; 6 September 1920 1 f 1 m; 7 September

1920 3 f; 8 September 1920 6 f 6 m; 6 September 1946 2 m; 29 September 3 f; 6 September 1948 1 f 1 m; 7 September 1950 2 f; 8 October 1920 1 f.
 Clay Co., Vermillion, 22 June 1946 1 f; 23 July 1946 1 f; 16 August 1946 1 f; 6 September 1946 1 f 2 m.
 Grant Co., Big Stone City, 23 August 1948 4 f 5 m; 8 September 1946 1 f.
 Lawrence Co., Spearfish, 10 September 1948 1 f.
 Lincoln Co., Canton, 26 August 1923 1 f; 27 August 1923 1 f.
 Marshall Co., Lake City, 18 September 1944 1 f.
 Roberts Co., Sisseton, 23 August 1946 1 f.
 Stanley Co., Fort Pierre, 6 August 1948 5 f 4 m.
 Union Co., Elk Point, 16 August 1946 2 f; 14 September 1948 2 f.
 Yankton Co., Volin, 29 August 1923 1 f.

South Dakota ---- 83
 Total Collection 83

Paluda gladiola (Ball), 1910c: 309
 Type Locality: New York



Ecological habitat: Collected in association with conifers in the Black Hills of South Dakota.

Records:

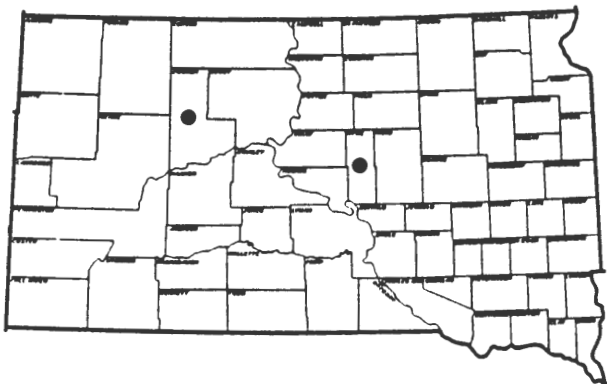
Lawrence Co., Englewood, 30 August 1924 1 f 1 m; 11 September 1924 2 f.

Additional Records:

Canada, British Columbia, Ben My Chree, 23 July 1951 13 specimens.
 _____, Manitoba, Sherridon, 14 August 1949 5 specimens.
 _____, Whitehorse, 7 August 1951 1 specimen.
 _____, Yukon Territory, Carcross, 7 August 1951 9 specimens.
 _____, Carmacks, 25 July 1951 1 specimen.
 Alaska, Circle Hot Springs, 4 August 1951 9 specimens.
 _____, Fairbanks, 4 August 1951 15 specimens.
 _____, McKinley National Park, 27 July 1951 1 specimen; 30 July 1951 3 specimens.
 _____, Palmer, 1 August 1951 2 specimens.

South Dakota ---- 1
 Canada ----- 29
 Alaska ----- 31
 Total Collection 60

Palus bilineatus (Gillette and Baker), 1895a:85
 Type locality: Colorado



Records:

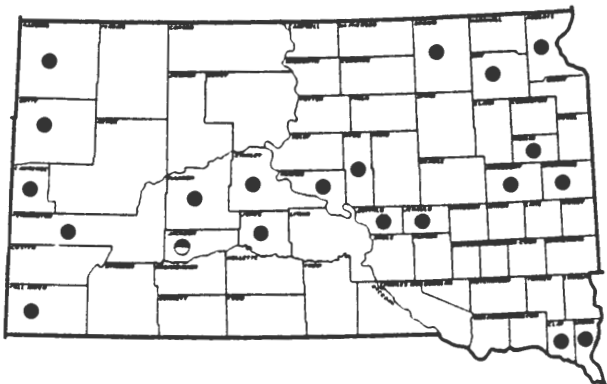
Hyde Co., Highmore, 20 June 1946 1 f.
 Ziebach Co., Dupree, 25 June 1947 1 f 2 m.

Additional Records:

Canada, Whitehorse, 7 August 1951 2 specimens.
 Alaska, Circle Hot Springs, 4 August 1951 1 specimen.
 _____, McKinley National Park, 27 July 1951 2 specimens.

South Dakota ---- 5
 Canada ----- 1
 Alaska ----- 3
 Total Collection 9

Paraphlepsius altus (Osborn and Ball),
 1897a:228
 Type locality: Iowa



Records:

Brookings Co., Brookings, 28 July 1942 1 f;
 23 July 1943 1 f; 15 July 1945 1 f 2 m;
 27 July 1948 1 f; 2 August 1943 1 f;
 6 August 1948 1 f.
 _____, Lake Oakwood, 11 August 1921 1 f.
 Brown Co., Hecla, 2 August 1944 1 f.

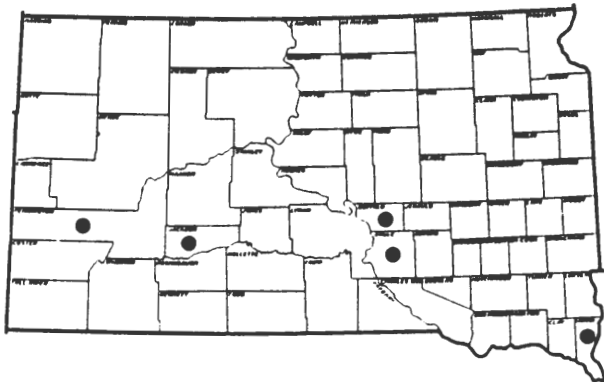
Buffalo Co., Fort Thompson, 27 July 1943 1 f.
 Butte Co., Newell, 28 July 1923 5 f 6 m.
 Clay Co., Vermillion, 30 July 1945 5 f 5 m;
 10 July 1946 2 f; 11 August 1945 2 f;
 12 August 1945 1 m.
 Day Co., Waubay, 30 July 1945 5 f 3 m; 1 August 1924 1 f.
 Fall River Co., Hot Springs, 27 August 1922 1 f;
 6 September 1923 1 m.
 Haakon Co., Philip, 7 August 1948 1 f 1 m.
 Hamlin Co., Lake Poinsett, 29 August 1927 1 f.
 Harding Co., Buffalo, 26 August 1924 1 m.
 Hughes Co., Canning, 15 July 1945 1 f; 6 August 1948 1 f 1 m;
 7 August 1948 1 f; 16 August 1950 6 f 10 m.
 Hyde Co., Highmore, 5 August 1944 1 f 1 m.
 Jackson Co., Cottonwood, 26 July 1948 1 f 1 m.
 _____, Interior, 15 June 1943 1 f; 22 July 1948 1 f;
 28 August 1922 5 f 3 m.
 _____, Kadoka, 19 July 1950 1 f; 25 August 1929 1 f.
 Jerauld Co., Wessington Springs, 3 August 1924 1 m.
 Jones Co., Capa, 26 August 1919 1 f; 12 August 1922 7 f 2 m;
 20 August 1922 1 m.
 Kingsbury Co., Lake Albert, 24 August 1923 2 m.
 _____, Lake Preston, 22 August 1923 1 f.
 Lawrence Co., Spearfish, 28 June 1947 4 m;
 31 August 1924 1 f.
 Pennington Co., Wall, 26 July 1948 3 f 4 m.
 Roberts Co., Sisseton, 29 August 1921 1 f.
 Stanley Co., Fort Pierre, 12 September 1946 1 m.
 Union Co., Elk Point, 10 July 1946 1 f; 28 July 1946 3 m;
 14 August 1945 1 f; 1 August 1946 2 m;
 6 August 1946 2 f 2 m; 1 September 1945 2 f;
 11 September 1945 1 f.

Additional Records:

North Dakota, Edgely, 25 July 192 4 specimens.

South Dakota ---- 127
 North Dakota ---- 4
 Total Collection 131

Paraphlepsius apertus (Van Duzee), 1892c:76
 Type locality: Quebec



Records:

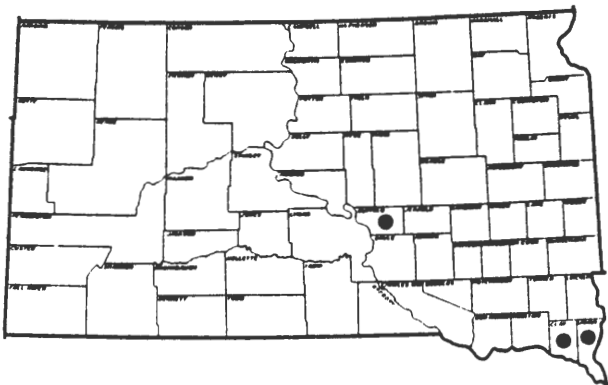
Brule Co., Kimball, 4 October 1956 1 f 1 m.
 Buffalo Co., Fort Thompson, 1 September 1943 1 f.
 Jackson Co., Cottonwood, 17 June 1952 4 f 7 m.
 Pennington Co., Sylvan Lake, 6 September 1923 1 f.
 Union Co., Beresford, 7 August 1956 1 f.
 _____, Elk Point, 1 July 1946 1 m.

Additional Records:

Colorado, Cameron Pass, 18 August 1952 22 specimens.
 _____, Greenough, Lake Placid, 5 August 1946 1 specimen.
 _____, Pingree Park, 20 August 1925 7 specimens.
 _____, Rocky Mountain National Park, 2 August 1931 4 specimens.
 Montana, Bozeman, 21 July 1949 1 specimen.
 Canada, Yukon Territory, Whitehorse, 7 August 1951 4 specimens.
 _____, Fort Yukon, 4 August 1951 5 specimens.
 Alaska, Fairbanks, 4 August 1951 11 specimens.
 _____, Matanuska, 1 July 1951 59 specimens.
 _____, Mt. McKinley National Park 27 July 1951 4 specimens, 30 July 1951 12 specimens.
 _____, Palmer, 1 August 1951 20 specimens.
 _____, Skagway, 8 August 1951 5 specimens, 9 August 1951 36 specimens.

South Dakota ---- 17
 Colorado ----- 34
 Montana ----- 1
 Canada ----- 5
 Alaska ----- 151
 Total Collection 208

Paraphlepsius certus (DeLong), 1938a:44
 Type locality: Wisconsin

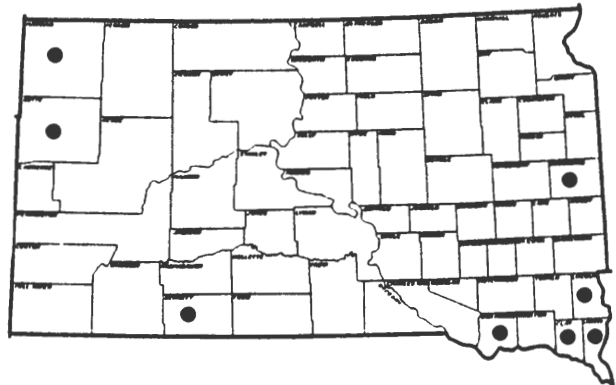


Records:

Buffalo Co., Fort Thompson, 27 June 1943 1 m.
 Clay Co., Vermillion, 14 June 1946 1 f; 18 June 1946 1 f.
 Union Co., Elk Point, 17 June 1946 4 m; 18 June 1946 1 f; 28 July 1945 1 f; 10 July 1946 1 f; 23 July 1946 1 m.

South Dakota ---- 12
 Total Collection 12

Paraphlepsius hemicolor (Sanders and DeLong), 1923a:152
 Type locality: Wisconsin

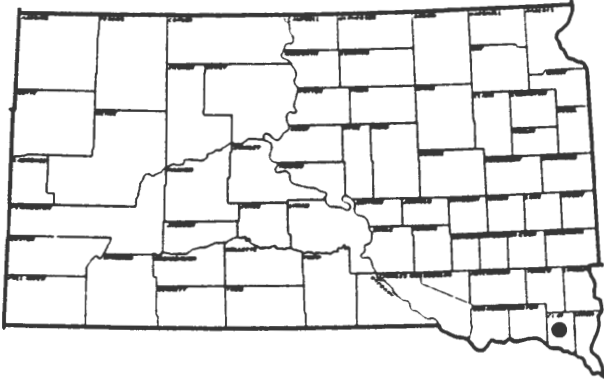


Records:

Bennett Co., Martin, 11 September 1948 1 f.
 Bon Homme Co., Springfield, 13 September 1948 1 f.
 Brookings Co., Brookings, 4 August 1944 1 m; 15 August 1945 1 f; 17 August 1945 1 f 2 m; 3 September 1921 1 f.
 Butte Co., Newell, 31 August 1922 1 f.
 _____, Nisland, 16 August 1950 2 f 4 m; 18 August 1952 1 f 1 m.
 Clay Co., Vermillion, 20 August 1945 1 f.
 Harding Co., Buffalo, 27 August 1924 1 f.
 Lincoln Co., Canton, 4 September 1946 1 f.
 Union Co., Union Co. State Park, 28 August 1954 1 f.

South Dakota ---- 21
 Total Collection 21

Paraphlepsius humidus (Van Duzee), 1892c:76
Type locality: New York

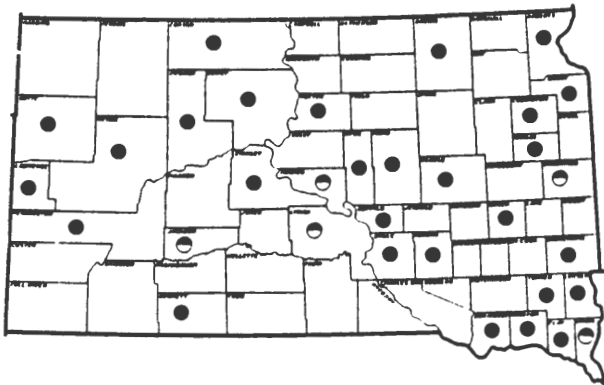


Records:

Clay Co., Vermillion, 18 June 1946 1 m.

South Dakota ---- 1
Total Collection I

Paraphlepsius irroratus (Say), 1830b:308
Type locality: United States



Ecological habitat: Very common in South Dakota in pastures, meadows, and wet prairie situations. It can cause damage to many types of cultivated crops.

Records:

Aurora Co., White Lake, 27 June 1946 1 f.
Beadle Co., Cavour, 7 June 1950 1 f.
Bennett Co., Martin, 11 September 1948 11 f 16 m.
Bon Homme Co., Springfield, 15 June 1928 1 f 1 m; 27 August 1926 1 f; 13 September 1948 8 f 20 m.
Brookings Co., Brookings, 23 May 1921 1 f; 31 May 1921 1 m; 31 May 1946 1 f 1 m; 11 June 1921 1 m; 17 June 1921 1 f; 19 June 1921 1 f; 24 June 1921 2 f; 27 June 1921 1 f; 15 June 1943 1 f; 17 June 1943 1 m; 21 June 1943 5 f 9 m;

25 June 1943 2 f; 26 June 1943 1 f; 28 June 1943 1 f; 24 June 1945 2 m; 6 June 1946 3 m; 25 June 1946 2 f 3 m; 26 June 1946 1 f; 5 June 1946 1 m; 21 July 1920 1 m; 1 July 1921 1 f; 2 July 1943 1 f 1 m; 15 July 1943 2 f 1 m; 17 July 1943 1 f; 23 July 1943 1 f; 27 July 1943 3 m; 8 July 1946 1 f; 12 July 1946 1 m; 18 July 1946 2 f; 11 July 1950 1 f; 15 July 1958 21 f 17 m; 24 August 1939 1 f 1 m; 7 August 1942 1 f; 20 August 1942 1 m; 10 August 1943 1 f; 6 August 1946 1 f; 11 August 1946 1 f; 16 August 1946 2 f 4 m; 27 August 1949 1 f; 6 September 1920 3 m; 7 September 1920 1 f; 8 September 1920 2 f 3 m; 9 September 1920 2 f 2 m; 15 September 1920 1 f; 3 September 1921 1 f; 21 September 1942 1 m; 1 September 1943 1 f; 20 September 1943 1 f 1 m; 16 September 1947 1 f; 30 September 1947 1 m; 6 September 1948 2 f 4 m; 22 September 1949 1 f; 21 September 1950 1 f; 4 September 1952 3 f 2 m; 25 September 1953 8 f 5 m; 25 September 1958 1 f; 15 October 1920 1 f; 8 October 1943 1 f 1 m; 14 October 1943 1 f; 6 October 1958 5 f 7 m.
_____, Lake Oakwood, 26 June 1921 1 f; 31 July 1921 1 f 1 m.
_____, Volga, 19 June 1921 1 f 3 m.
Brown Co., Hecla, 28 June 1943 1 f; 7 September 1948 1 f 1 m.
Brule Co., Chamberlain, 22 June 1943 1 f; 17 July 1947 13 f 14 m; 14 September 1946 1 f.
_____, Kimball, 19 June 1947 1 f.
Buffalo Co., Fort Thompson, 22 June 1943 10 f 8 m; 27 June 1943 3 f 4 m; 27 June 1946 3 f; 28 June 1946 1 f; 27 July 1943 3 f 2 m; 20 August 1942 3 f 9; 20 August 1942 5 f 5 m; 21 September 1920 1 f; 1 September 1942 2 f 4 m; 1 September 1943 10 f 7 m.
Butte Co., Newell, 26 June 1950 1 f 1 m.
_____, Nisland, 13 August 1952 1 f.
Clay Co., Meckling, 14 September 1948 2 f.
_____, Vermillion, 23 May 1946 2 f; 6 July 1921 3 f; 11 June 1921 1 f 2 m; June 1942 1 m; 6 June 1946 1 f 1 m; 22 June 1946 3 f 3 m; 25 June 1946 1 f 3 m; 29 June 1946 1 f; 30 June 1946 2 f; 21 July 1945 1 f; 24 July 1945 1 m; 30 July 1945 1 f; 1 July 1946 2 f 1 m; 4 July 1946 1 f; 10 July 1946 1 f; 13 July 1946 1 f 1 m; 15 July 1946 1 f; 1 August 1946 1 f; 6 August 1946 3 f 2 m; 16 August 1946 1 f; 27 August 1946 1 f; 4 September 1946 1 f; 6 September 1946 1 f 1 m; 1 October 1946 1 f.
Codington Co., Florence, 7 September 1948 1 f.
_____, Watertown, 5 August 1945 1 m.
Corson Co., Walker, 8 September 1948 1 f.
Dewey Co., Cheyenne Agency, 25 June 1947 1 f.
_____, Lantry, 28 June 1947 1 f 2 m.
Grant Co., Big Stone City, 23 August 1948 13 f 14 m.
Hamlin Co., Lake Poinsett, 7 September 1948 5 f 4 m.
Hand Co., Vayland, 7 June 1950 2 f 2 m.
Hughes Co., Blunt, 18 July 1945 1 f.
_____, Canning, 25 August 1953 2 f; 25 August 1958 7 f 6 m.
_____, Pierre, 17 June 1947 10 f 6 m; 23 June 1950 1 f; 10 June 1952 1 f; 16 June 1952 2 m; 22 July 1947 2 f; 25

July 1947 1 f 1 m.
 Hyde Co., Highmore, 22 June 1945 2 f; 10
 June 1946 2 f; 20 June 1946 1 f 1 m; 1
 June 1948 4 m; 14 June 1948 1 f 3 m;
 16 June 1952 2 f; 29 July 1945 1 f 1
 m; 1 August 1946 2 f 4 m; 6 August
 1946 2 f; 16 August 1946 2 f 2 m; 8
 September 1944 2 f 4 m.

Jackson Co., Cottonwood, 26 July 1948 1
 f.

_____, Interior (Badlands), 15 June 1943
 1 f 2 m; 28 August 1922 1 f.

_____, Kadoka, 19 July 1950 1 f.

Lawrence Co., Lead, 23 July 1947 1 f.

_____, Spearfish, 10 September 1948 10 f
 21 m.

Lincoln Co., Canton, 26 June 1946 3 f; 27
 August 1923 1 f; 4 September 1946 2 f.

Lyman Co., Kennebec, 3 June 1948 1 f.

_____, Lyman, 12 September 1946 1 f.

_____, Presho, 17 July 1947 1 f.

Meade Co., Edson, 27 June 1947 1 f.

_____, Sturgis, 26 May 1951 1 f.

Miner Co., Lake Hendricks, 12 July 1922 1
 f; 15 September 1958 1 f 2 m.

Minnehaha Co., Dell Rapids, 28 August
 1954 2 f 1 m.

_____, Sioux Falls, 3 June 1974 2 f 4 m;
 18 June 1974 3 f; 3 July 1973 1 f.

Pennington Co., Hill City, 1 July 1946 1
 f; 13 July 1946 1 f.

Potter Co., Gettysburg, 26 June 1947 1 m.

Roberts Co., Sica Hollow, 2 September
 1954 2 f.

_____, Sisseton, 17 June 1952 1 f; 23
 July 1946 1 f 3 m; 29 August 1921 1 f;

7 September 1948 8 f 5 m.

Stanley Co., Fort Pierre, 21 September
 1921 4 f 5 m.

Turner Co., Centerville, 14 June 1928 1
 f.

Union Co., Beresford, 21 August 1943 1 f;
 21 August 1945 1 f; 3 September 1943 1
 f 1 m.

_____, Elk Point, 19 June 1924 1 f 3 m;
 12 June 1925 1 f; 6 June 1946 3 f; 17
 June 1946 3 f 3 m; 24 June 1946 2 f;

27 June 1946 3 m; 22 July 1945 1 f; 28
 July 1945 1 f; 30 July 1945 2 f 2 m;

1 July 1946 5 f 7 m; 10 July 1946 2 f;
 16 July 1946 2 f; 23 July 1946 1 f; 25
 August 1926 1 m; 1 August 1946 2 f; 6
 August 1946 2 f; 16 August 1946 1 f 1
 m; 29 August 1954 10 f 8 m; 14
 September 1948 14 f 8 m.

_____, Union Co. State Park, 28 August
 1954 10 f 8 m.

Yankton Co., Yankton, 30 July 1923 2 f.

Ziebach Co., Dupree, 25 June 1947 1 f

Additional Records:

Colorado, Cascade Lodge, Rocky Mt.
 National Park, 2 August 1931 1
 specimen.

Iowa, Ames, 10 September 1947 1 specimen;
 10 September 1948 1 specimen.

Kansas, Marysville, 8 August 1950 1
 specimen.

Minnesota, Big Trout Lake, Pine River, 30
 August 1942 1 specimen.

Utah, Holliday, 20 August 1949 2
 specimens.

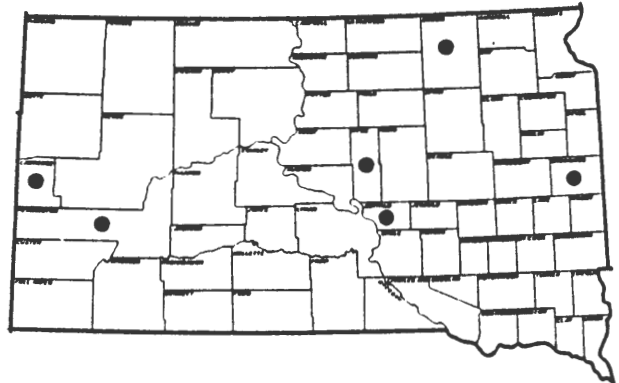
Canada, Manitoba, Sherridon, 14 August
 1949 1 specimen.

South Dakota ---- 755

Colorado ----- 1

| | |
|------------------|-----|
| Iowa ----- | 2 |
| Kansas ----- | 1 |
| Minnesota ----- | 1 |
| Utah ----- | 2 |
| Canada ----- | 1 |
| Total Collection | 763 |

Paraphlepsius lascivius (Ball), 1900b:200
 type locality: Colorado



Records:

Brookings Co., Brookings, 18 July 1946 1
 f; 11 August 1945 1 f; 1 August 1946 1
 f 1 m.

Brown Co., Hecla, 12 July 1943 3 f 7 m; 2
 August 1944 1 f.

Buffalo Co., Fort Thompson, 27 June 1946
 2 f; 1 September 1943 1 f.

Hyde Co., Highmore, 29 July 1945 1 m.

Lawrence Co., Spearfish, 1 August 1944 3
 m.

Pennington Co., Hill City, 5 August 1945
 1 f.

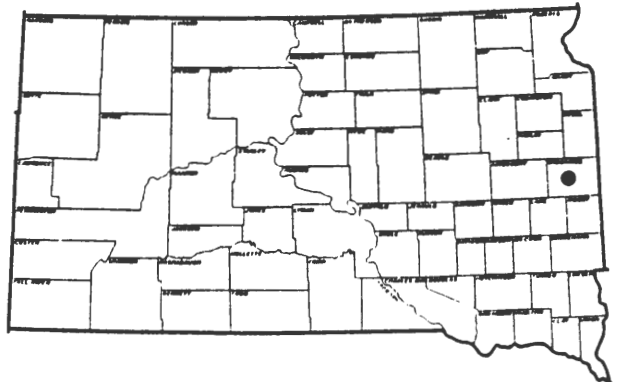
_____, Wall (Badlands), 26 July 1948 2
 specimens.

Additional Records:

Oklahoma, Texahoma, 1 September 1950 1 f.

| | |
|-------------------|----|
| South Dakota ---- | 25 |
| Oklahoma ----- | 1 |
| Total Collection | 26 |

Paraphlepsius lobatus (Osborn), 1898a:247
 type locality: Iowa

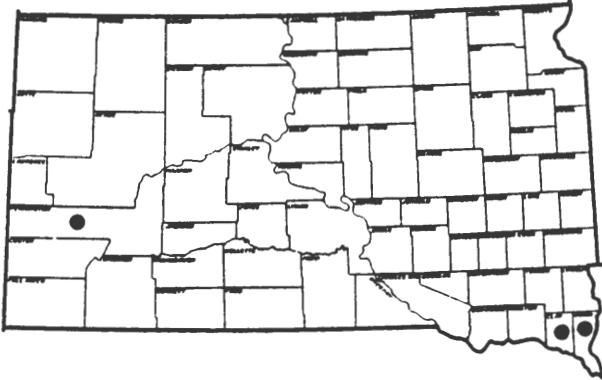


Records:

Brookings Co., Brookings, 2 June 1943 1 f; 10 August 1943 1 f.

South Dakota ---- 2
Total Collection 2

Paraphlepsius punctiscriptus (Van Duzee),
1892c:75
Type locality: Texas

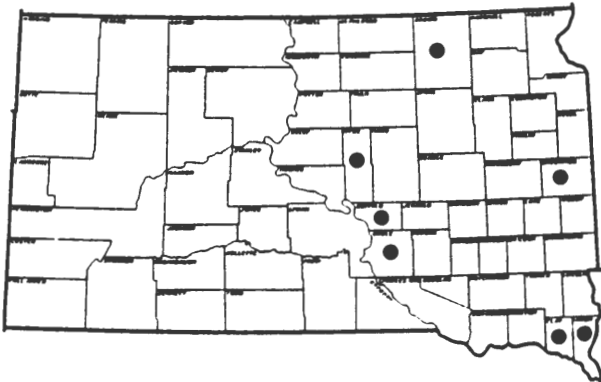


Records:

Clay Co., Vermillion, 18 June 1946 1 f;
22 June 1946 1 m; 24 June 1946 1 f.
Pennington Co., Hill City, 5 August 1946
1 f.
Union Co., Elk Point, 1 July 1946 1 f.

South Dakota ---- 5
Total Collection 5

Paraphlepsius solidaginis (Walker), 1851b:847
Type locality: United States



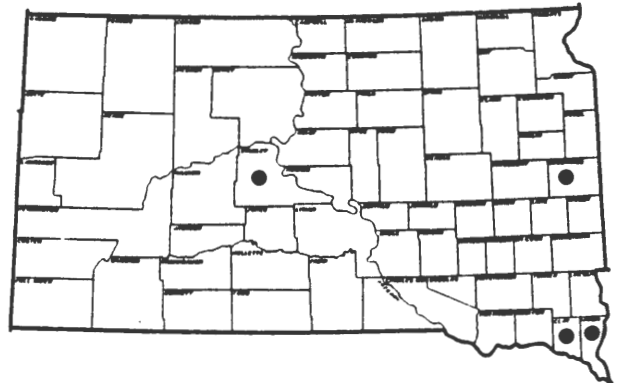
Records:

Brookings Co., Brookings, 26 June 1943 1 f;
11 July 1919 1 f; 23 July 1943 1 f 3 m;
24 July 1943 3 f; 25 July 1943 3 f 7 m;
26 July 1943 1 f; 27 July 1943 6 f 5 m;
17 July 1944 1 f; 20 July 1944 1 f; 10
July 1946 1 f; 17 July 1946 1 m; 25 July

1950 1 f 2 m; 7 August 1922 1 f; 5
August 1944 1 f; 6 August 1945 1 m; 11
August 1945 1 f; 17 August 1945 1 m.
_____, Lake Oakwood, 31 July 1921 1 f.
Brown Co., Hecla, 16 July 1944 3 m; 2
August 1944 1 f.
Brule Co., Chamberlain, 24 July 1940 1 f.
Buffalo Co., Fort Thompson, 20 August
1942 1 m; 1 September 1943 1 f 3 m.
Clay Co., Vermillion, 28 June 1946 1 f 1 m;
20 July 1945 1 f; 21 July 1945 1 m; 24
July 1945 1 f 1 m; 30 July 1945 2 f 3 m;
8 July 1946 1 f; 15 July 1946 1 f; 28
July 1946 2 f; 12 August 1945 1 f; 1
August 1946 1 m; 16 August 1946 1 f 2 m.
Hyde Co., Highmore, 16 July 1946 1 f 1 m;
6 August 1946 1 f.
Union Co., Elk Point, 18 June 1946 2 f 4
m; 18 July 1945 5 f; 22 July 1945 1 f;
30 July 1945 1 f; 1 July 1946 1 f; 8
July 1946 1 f; 10 July 1946 1 f 3 m;
16 July 1946 5 f 5 m; 23 July 1946 2
f; 1 August 1946 2 m; 16 August 1946 1
f 2 m; 27 August 1946 1 f.

South Dakota ---- 114
Total Collection 114

Paraphlepsius truncatus (Van Duzee), 1892c:72
Type locality: North Carolina

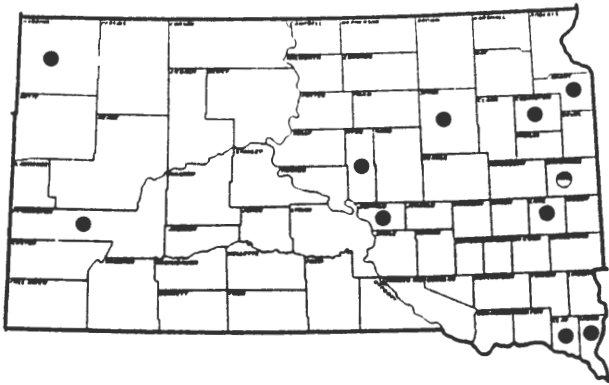


Records:

Brookings Co., Brookings, 25 June 1946 1
f; 8 September 1920 1 f.
_____, Lake Oakwood, 24 August 1923 1 f 1 m.
Clay Co., Vermillion, 28 June 1946 1 m;
24 July 1945 1 f 1 m; 1 July 1946 2 f.
Stanley Co., Fort Pierre, 20 September
1920 1 f; 21 September 3 f 5 m.
Union Co., Elk Point, 18 June 1946 1 f;
17 July 1946 1 f; 14 September 1948 2
f 1 m.

South Dakota ---- 23
Total Collection 23

Paraphlepsius turpiculus (Ball), 1900b:200
Type locality: Colorado

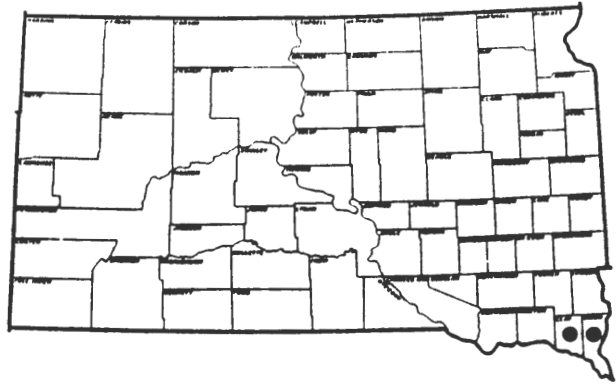


Records:

Brookings Co., Brookings, 21 June 1921 1 f; 24 June 1921 7 f 6 m; 25 June 1921 1 m; 27 June 1921 31 f 22 m; 28 June 1921 1 f; 29 June 1921 1 f 3 m; 30 June 1921 3 f; 17 July 1920 1 f; 1 July 1921 1 m; 9 July 1921 2 f 5 m; 11 July 1921 1 f; 19 July 1921 3 f; 15 July 1922 6 f 5 m; 18 July 1922 1 f; 27 July 1922 1 f 23 July 1943 2 f; 24 July 1943 1 f; 25 July 1943 1 f; 27 July 1943 2 f 3 m; 3 August 1921 1 f. _____, Lake Hendricks, 23 July 1922 2 f; 10 August 1927 1 f 2 m. _____, Lake Oakwood, 17 August 1921 1 f 1 m.
 Buffalo Co., Fort Thompson, 27 July 1943 1 f.
 Codrington Co., Florence, 7 September 1948 1 f 2 m.
 Clay Co., Vermillion, 18 June 1946 1 f 1 m; 22 June 1946 3 f; 25 June 1946 1 m; 28 June 1946 1 f 2 m; 8 July 1946 1 f; 1 September 1946 1 f.
 Grant Co., Big Stone City, 27 August 1921 8 f 2 m.
 Harding Co., Sand Hills, 15 September 1930 1 f.
 Hyde Co., Highmore, 1 August 1946 1 f.
 Lake Co., Chester, 29 June 1929 1 f.
 Pennington Co., Cascade Springs 30 July 1935 1 f.
 Spink Co., Tulare, 13 July 1928 1 m.
 Union Co., Elk Point, 17 June 1946 7 f 7 m; 18 July 1945 1 f 1 m; 22 July 1945 2 m; 30 July 1945 1 f; 1 July 1946 10 f 3 m; 8 July 1946 1 f; 10 July 1946 1 f 2 m; 1 August 1946 1 f; 27 August 1946 1 f.

South Dakota ---- 189
 Total Collection 189

Planicephalus flavicosta (Stal), 1862a:53
 Type locality: Rio DeJaneiro

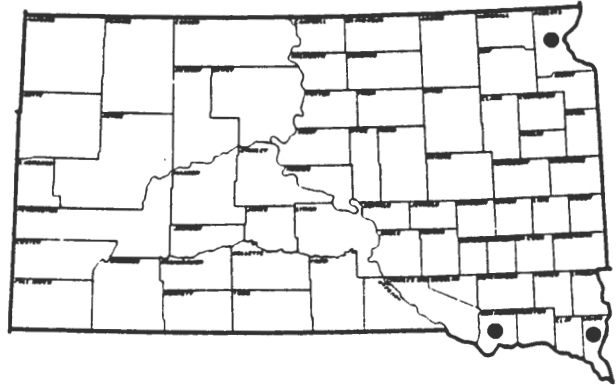


Records:

Clay Co., Vermillion, 18 June 1946 1 f 1 m; 28 June 1946 1 f; 20 July 1945 1 f; 6 August 1946 1 m.
 Union Co., Elk Point, 17 June 1946 1 f; 17 July 1945 1 f.

South Dakota ---- 8
 Total Collection 8

Prescottia lobato (Van Duzee), 1894f:211
 Type Locality: New York

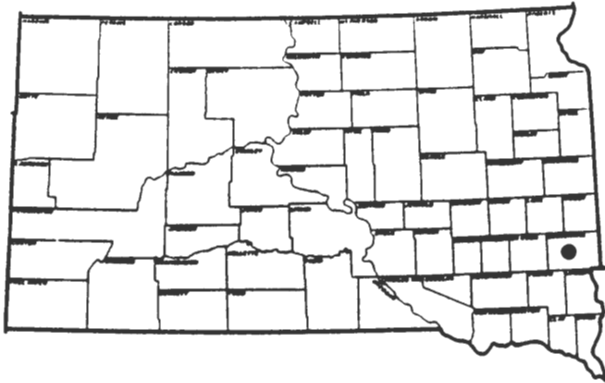


Records:

Bon Homme Co., Springfield, 1 September 1954 1 f.
 Roberts Co., Sica Hollow, 2 September 1954 1 m.
 Union Co., Union Co. State Park, 28 August 1954 1 f 1 m.

South Dakota ---- 4
 Total Collection 4

Psammotettix confinis (Dahlbom), 1850a:193
 Type locality: Canada



Records:

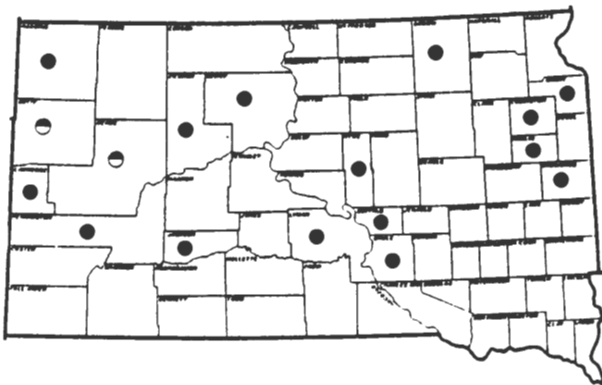
Minnehaha Co., Sioux Falls, 8 June 1952 1 f.

Additional Records:

Canada, British Columbia, Ben Mychee, 23 July 1951 1 specimen.
 _____, Yukon Territory, Carcross, 7 August 1951 7 specimens.
 _____, Carmacks, 25 July 1951 6 specimens.
 _____, Fort Yukon, 4 August 1951 1 specimen.
 _____, Whitehorse, 1951 5 specimens.
 Alaska, Circle Hot Springs, 4 August 1951 2 specimens.
 _____, Fairbanks, 4 August 1951 53 specimens.
 _____, Mantanuska, 1 August 1951 25 specimens.
 _____, McKinley National Park, 27 July 1951 1 specimen; 30 July 1951 6 specimens.
 _____, Palmer, 1 August 1951 5 specimens.
 _____, Skagway, 8 August 1951 13 specimens; 9 August 1951 245 specimens.

South Dakota ---- 1
 Canada ----- 15
 Alaska ----- 355
 Total Collection 371

Psammotettix ferratus (DeLong and Davidson)
 1935b:170
 Type locality: Pennsylvania



Records:

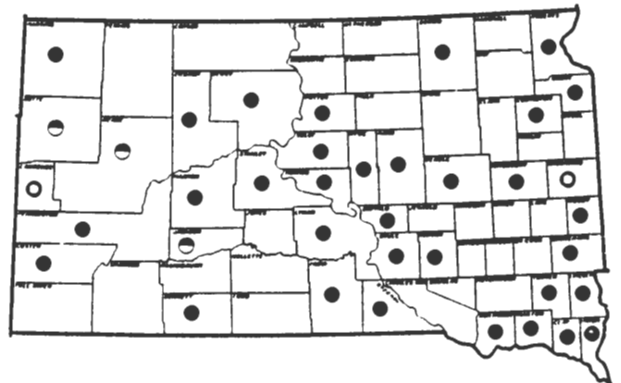
Brookings Co., Brookings, 5 June 1919 1 f; 26 June 1943 1 f 1 m; 28 June 1943 2 f; 7 July 1920 1 m; 23 July 1943 1 f 3 m; 24 July 1943 1 f; 25 July 1943 1 f; 8 July 1945 1 f 1 m.
 Brown Co., Hecla, 17 June 1943 1 m.
 Brule Co., Chamberlain, 14 June 1944 1 f; 17 June 1947 2 f 3 m.
 Buffalo Co., Fort Thompson, 22 June 1943 2 f.
 Butte Co., Belle Fourche, 24 June 1928 2 f 2 m.
 _____, Newell, 21 July 1947 1 f; 26 July 1950 1 f.
 _____, Nisland, 21 June 1926 1 f 3 m.
 Codington Co., Florence, 7 September 1948 3 f 1 m.
 Dewey Co., Eagle Butte, 26 July 1952 8 f 11 m.
 Grant Co., Big Stone City, 8 September 1946 1 f.
 Hamlin Co., Bryant, 10 September 1946 1 f.
 Harding Co., Buffalo, 27 June 1947 1 f; 28 June 1947 4 f 6 m; 10 September 1947 2 f.
 Hyde Co., Highmore, 1 June 1948 1 f 1 m.
 Jackson Co., Cottonwood, 30 June 1940 1 f.
 Lyman Co., Lyman, 12 September 1946 1 f 1 m.
 _____, Presho, 17 June 1947 2 f.
 Lawrence Co., Lead, 23 July 1947 5 f 4 m.
 Meade Co., Cedar Canyon, 27 June 1947 2 f.
 _____, Fox Ridge, 28 June 1947 1 f 1 m.
 _____, Sturgis, 26 May 1951 1 f 2 m.
 Pennington Co., Wall, 21 July 1947 1 f.
 Ziebach Co., Dupree, 25 June 3 1947 2 m.

Additional Records:

Colorado, Cascade Lodge, 2 August 1931 1 specimen.
 Canada, Yukon Territory, Fort Yukon, 4 August 1951 7 specimens.

South Dakota ---- 98
 Colorado ----- 2
 Canada ----- 7
 Total Collection 107

Psammotettix lividellus (Zetterstedt),
 1840a:290
 Type locality: Greenland



Records:

Aurora Co., White Lake, 27 June 1946 1 f.
 Beadle Co., Cavour, 7 June 1950 1 f 1 m.
 Bennett Co., Martin, 11 September 1948 3 f 4 m.

Bon Homme Co., Springfield, 13 September 1948 2 f.

Brookings Co., Brookings, 23 May 1921 2 f 2 m; 5 June 1912 6 f 4 m; 5 June 1919 3 f; 7 June 1919 2 f; 17 June 1921 1 f; 12 June 1925 3 f 6 m; 5 June 1948 3 f; 15 July 1920 1 f; 26 July 1921 1 f; 11 July 1950 1 m; 2 July 1951 6 f 5 m; 21 July 1951 1 f; 16 July 1958 5 f 9 m; 7 August 1922 2 f 5 m; 9 September 1920 10 f 12 m; 10 September 1920 2 f; 6 September 1948 1 f; 21 September 1948 10 f 3 m; 4 September 1942 1 f; 5 October 1920 1 f; 30 October 6 f 3 m.

_____, Lake Hendricks, 12 July 1922 1 f.

_____, Lake Oakwood, 26 June 1921 3 f 2 m; 14 June 1923 2 f.

_____, White, 26 July 1922 1 f.

Brown Co., Hecla, 26 July 1952 1 f; 7 September 1948 1 f 1 m.

Brule Co., Chamberlain, 5 June 1947 12 f 4 m; 17 June 6 f 4 m; 7 July 1947 1 f.

_____, Kimball, 17 June 1947 28 f 7 m; 28 June 1947 5 f 1 m.

Buffalo Co., Fort Thompson, 27 June 1946 2 f.

Butte Co., Bell Fourche, 27 June 1947 1 f.

_____, Newell, 27 May 1951 31 f 21 m; 29 June 1923 1 f; 26 June 1923 4 f 4 m; 5 July 1923 1 f; 24 July 1947 1 f.

_____, Nisland, 21 June 1926 1 f; 21 July 1947 2 f; 16 August 1950 11 f 7 m; 13 August 1952 7 f; 18 August 1952 10 f 8 m.

Clay Co., Meckling, 14 September 1948 7 f 4 m.

_____, Vermillion, 6 June 1921 4 f 4 m; 26 June 1921 1 f 1 m; 28 June 1946 2 f; 10 July 1946 1 f; 14 September 1948 1 f.

Codington Co., Florence, 7 September 1948 3 f 2 m.

Custer Co., State Game Lodge, 22 August 1952 5 f.

Dewey Co., Lantry, 28 June 1947 15 f 18 m.

Grant Co., Big Stone City, 27 August 1921 1 f.

Gregory Co., Dallas, 21 July 1950 3 f.

_____, Gregory, 7 August 1950 2 f 2 m.

Haakon Co., Midland, 23 May 1951 3 f 1 m.

Hand Co., Vayland, 7 June 1949 4 f 3 m.

Harding Co., Buffalo, 28 June 1947 6 f 4 m; 28 August 1952 1 f.

Hughes Co., Canning, 7 August 1948 1 f; 16 August 1950 1 f.

_____, Pierre, 17 June 1947 3 f 2 m; 23 June 1950 1 f; 9 June 1951 2 f; 25 July 1947 3 f 2 m; 21 July 1949 1 f.

Hyde Co., Highmore, 15 June 1946 1 m; 20 June 1946 1 f; 1 June 1948 13 f 7 m; 14 June 1948 2 f 2 m; 23 June 1950 1 f; 1 August 1946 1 f; 6 August 1946 2 f 4 m; 14 August 1949 1 f; 21 August 1949 1 f.

Jackson Co., Cottonwood, 26 July 1948 5 f 2 m; 21 July 1950 1 f; 24 July 1950 1 f 1 m.

_____, Interior, 15 June 1943 3 f; 28 August 1922 1 f.

_____, Kadoka, 19 July 1950 8 f 2 m.

Kingsbury Co., DeSmet, 23 June 1950 8 f 9 m.

Lawrence Co., Deadwood, 9 September 1925 2 m; 9 September 1945 1 f.

_____, Englewood, 18 June 1925 9 f; 17 June 1936 1 f; 26 July 1947 1 f 1 m;

11 September 1948 6 f 5 m.

_____, Lead, 23 July 1947 14 f 7 m; 11 September 1948 16 f 30 m.

_____, Spearfish, 28 June 1947 9 f 6 m; 10 September 1948 1 f 2 m.

_____, Tinton, 26 July 1947 3 f 1 m.

Lincoln Co., Canton, 26 June 1946 1 f.

Lyman Co., Kennebec, 7 July 1947 1 f; 17 July 1947 2 m.

_____, Presho, 17 June 1947 2 f; 27 June 1947 3 m; 17 July 1947 1 f 1 m.

Meade Co., Cedar Canyon, 27 June 1947 2 f 2 m.

_____, Fox Ridge, 25 June 1947 1 f 1 m; 28 June 1947 13 f 13 m.

_____, Sturgis, 21 May 1947 1 f; 26 May 1951 39 f 43 m.

Minnehaha Co., Dell Rapids, 14 September 1949 1 f.

_____, Sioux Falls, 21 August 1949 5 f 1 m.

Moody Co., Flandreau, 6 August 1919 1 f.

Pennington Co., Pactoia Lake, 10 September 1948 32 f 15 m.

_____, Rapid City, 25 June 1923 2 f.

Potter Co., Gettysburg, 26 June 1947 1 f; 27 June 1947 1 f 1 m.

Roberts Co., Sisseton, 29 August 1921 3 f 4 m; 7 September 1948 2 f.

Stanley Co., Fort Pierre, 23 May 1951 1 f; 12 September 1946 1 f 1 m.

Sully Co., Onida, 17 June 1947 1 f 3 m.

Tripp Co., Jordan, 21 July 1950 1 f.

_____, Winner, 21 July 1950 1 f.

Turner Co., Chancellor, 8 December 1939 2 f.

Union Co., Elk Point, 27 June 1946 2 f.

Yankton Co., Yankton, 22 May 1919 1 f; 15 June 1928 1 f.

Ziebach Co., Dupree, 25 June 1947 3 f 3 m.

Additional Records:

Colorado, Estes Park, 25 August 1920 1 specimen.

_____, Pingree Park, 20 August 1925 3 specimens.

_____, Rocky Mt. National Park, Cascade Lodge, 2 August 1931 2 specimens.

Montana, Bozeman, 21 July 1949 3 specimens; 1 August 1949 3 specimens; 4 August 1949 11 specimens; 8 August 1949 4 specimens.

_____, Glacier National Park, 30 July 1946 1 specimen.

_____, Greenough, 5 August 1946 1 specimen.

_____, Placid Lake, 8 August 1947 9 specimens.

Utah, Manti, 25 August 1950 6 specimens.

Washington, Spokane, 15 August 1947 4 specimens.

Wyoming, Centennial, 22 August 1936 1 specimen.

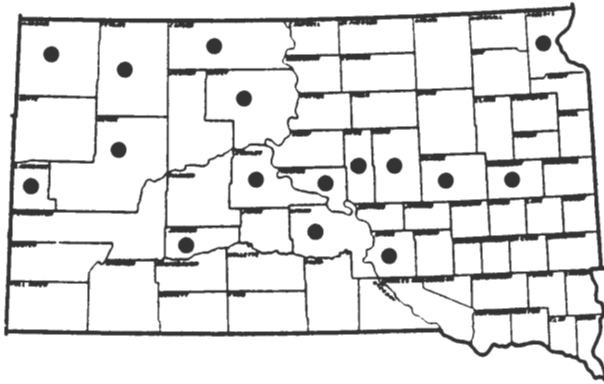
Canada, British Columbia, Kamloops, 19 August 1947 1 specimen.

_____, Revelstoke, 11 August 1947 1 specimen.

_____, Manitoba, Churchill, 18 August 1949 32 specimens.

| | |
|-------------------|-----|
| South Dakota ---- | 828 |
| Colorado ----- | 6 |
| Montana ----- | 33 |
| Utah ----- | 6 |
| Washington ----- | 4 |
| Wyoming ----- | 1 |
| Canada ----- | 34 |
| Total Collection | 912 |

Rosenus cruciatus (Osborn and Ball), 1898f:77
 Type Locality: Iowa

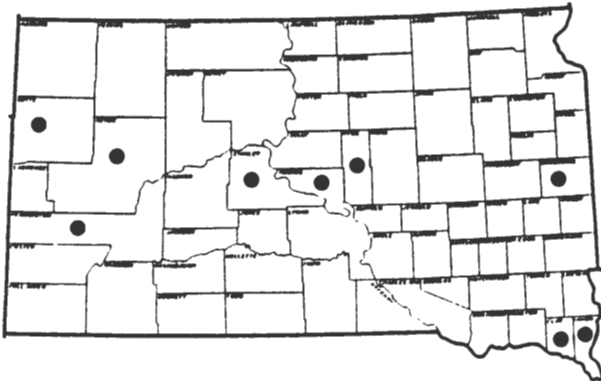


Records:

- Beadle Co., Cavour, 7 June 1950 2 f 2 m;
17 June 1950 3 f 2 m.
- Brule Co., Chamberlain, 5 June 1947 5 f;
17 June 1947 1 m.
- Corson Co., Walker, 8 September 1948 1 f.
- Dewey Co., Cheyenne Agency, 25 June 1947
1 f; 27 June 1947 3 m.
- _____, Eagle Butte, 28 June 1947 1 f; 6
August 1948 2 f 2 m.
- Hand Co., Ree Heights, 11 September 1946 1
f.
- Harding Co., Buffalo, 28 June 1947 4 f 3 m.
_____, Reva, 8 September 1948 1 f.
- Hughes Co., Canning, 16 August 1950 2 m.
- Hyde Co., Highmore, 23 June 1950 1 f; 14
August 1949 1 f 1 m.
- Jackson Co., Cottonwood, 24 June 1950 1 f.
- Kingsbury Co., DeSmet, 23 June 1950 12 f
19 m.
- Lawrence Co., Spearfish, 28 June 1947 5 f
3 m.
- Lyman Co., Presho, 17 June 1947 1 f 2 m;
28 June 1947 1 f.
- Meade Co., Edson, 27 June 1947 4 f 3 m.
_____, Fox Ridge, 28 June 1947 10 f 3 m.
- Perkins Co., Bison, 10 September 1948 3 f.
- Roberts Co., Sisseton, 7 September 1948 1 f.
- Stanley Co., Fort Pierre, 12 September
1946 1 m.

South Dakota ---- 110
 Total Collection 110

Scaphoideus auctus Delong and Mohr, 1936b:970
 Type Locality: Pennsylvania

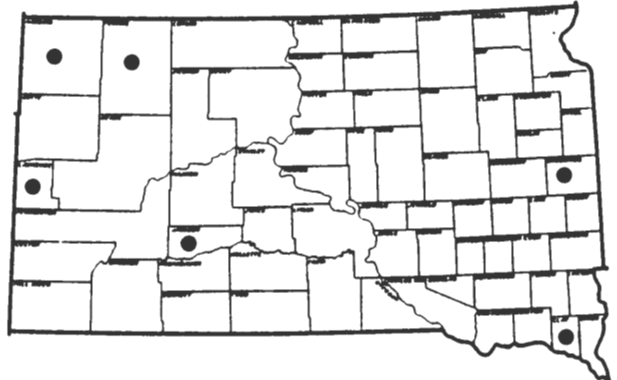


Records:

- Brookings Co., Brookings, 6 July 1942 1 f;
23 July 1942 1 f; 11 July 1950 1 f 1 m;
25 July 1950 1 f; 30 July 1950 1 f 2 m;
19 August 1919 1 f 1 m; 9 September 1920
2 f 2 m; 7 September 1950 1 f.
- _____, White, 1 July 1925 1 f; 10 August
1927 1 f.
- Butte Co., Nisland, 3 August 1952 1 f.
- Clay Co., Vermillion, 24 June 1946 1 f 1
m; 25 June 1946 1 f.
- Hughes Co., Pierre, 21 July 1950 1 f.
- Hyde Co., Highmore, 16 August 1946 1 m.
- Meade Co., Sturgis, 25 July 1947 1 f.
- Pennington Co., Wall, 26 July 1948 1 m.
- Stanley Co., Fort Pierre, 6 August 1948 1 f.
- Union Co., Elk Point, 1 July 1946 1 m; 10
July 1946 1 f.

South Dakota ---- 28
 Total Collection 28

Scaphoideus cinerosus (Osborn), 1900a:208
 Type Locality: Iowa

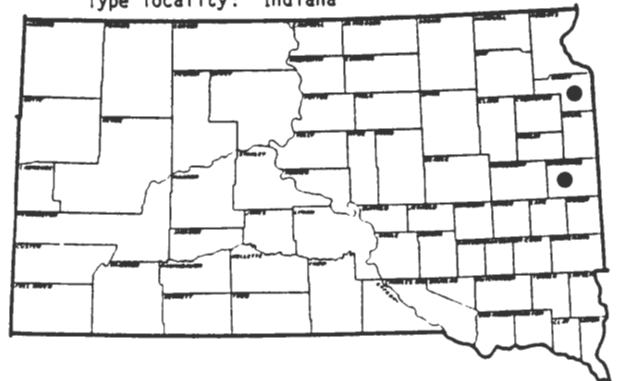


Records:

- Brookings Co., Brookings, 21 June 1943 1 f
1 m.
- Clay Co., Meckling, 14 September 1948 2 f
4 m.
- Harding Co., Buffalo, 10 September 1948 1 f.
- Jackson Co., Cottonwood, 9 June 1949 1 f.
- _____, Interior, 15 June 1948 1 f 1 m.
- Lawrence Co., Spearfish, 10 September
1948 1 f.
- Perkins Co., Lemmon, 8 September 1948 1 f.

South Dakota ---- 14
 Total Collection 14

Scaphoideus immistus (Say), 1830f:306
 Type Locality: Indiana

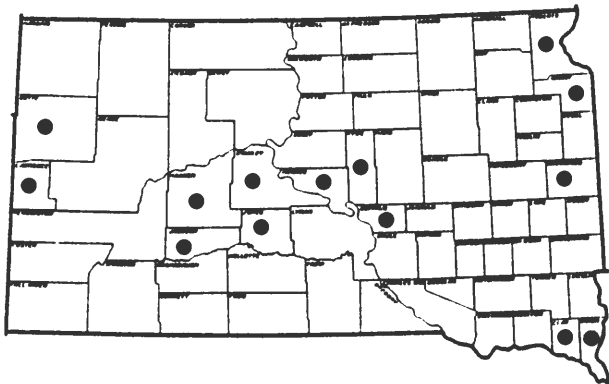


Records:

Brookings Co., Brookings, 27 August 1949
1 f; 8 September 1920 1 f 1 m; 29
September 1946 1 f; 7 September 1950 2
f 1 m.
Grant Co., Big Stone City, 23 August 1948
1 f.

South Dakota ---- 8
Total Collection 8

Scaphoideus littoralis (Ball), 1932a:15
Type locality: Massachusetts



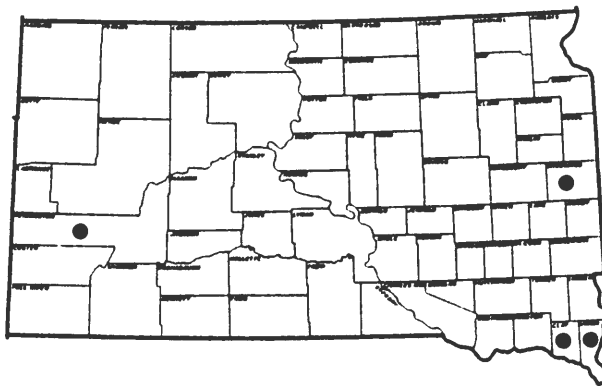
25 August 1926 1 f 1 m; 1 August 1946
3 f 2 m; 6 August 1946 1 f; 16 August
1946 2 f; 20 September 1920 1 f; 14
September 1948 1 f.

Additional Records:

Canada, Manitoba, Dolphin, 12 August 1949
1 specimen.

South Dakota ---- 81
Canada ----- 1
Total Collection 82

Scaphoideus opalinus Osborn, 1905c:525
Type locality: New York



Records:

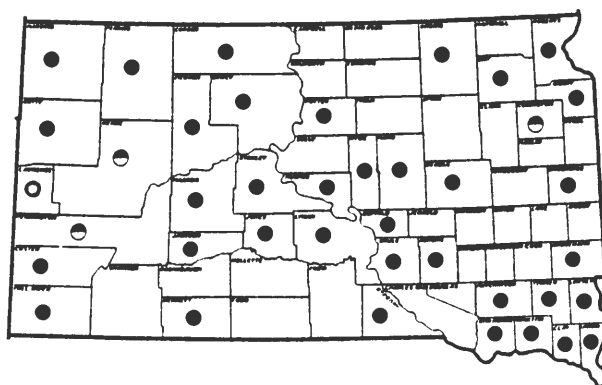
Bon Homme Co., Springfield, 13 September
1948 1 f.
Brookings Co., Brookings, 25 June 1946 1
f; 19 July 1919 1 f 1 m; 26 July 1919
1 f; 30 July 1919 1 f 1 m; 13 July
1920 1 m; 1 July 1921 1 f; 15 July
1922 1 m; 23 July 1943 1 f; 18 July
1946 1 f; 30 August 1942 1 f; 1 August
1946 1 m; 16 August 1946 1 f; 24
August 1950 1 f; 8 September 1920 1 f;
1 September 1943 1 f.
_____, White (Warrens Woods), 10 August
1927 1 f.
Buffalo Co., Fort Thompson, 8 July 1943 1
f; 27 July 1943 1 m; 1 September 1943
1 f 2 m.
Butte Co., Newell, 20 July 1923 1 f.
_____, Nisland, 16 August 1950 1 f 2 m.
Clay Co., Vermillion, 26 June 1921 1 f;
24 June 1946 1 f; 4 July 1946 1 f 2 m;
8 July 1946 1 f; 10 July 1946 1 m; 15
August 1946 2 f 3 m; 17 July 1946 1 f;
18 August 1946 1 f; 3 August 1945 1 f
1 m; 1 August 1946 1 f; 6 August 1946
1 m; 16 August 1946 1 f 27 August 1946
1 m.
Grant Co., Big Stone City, 8 September
1946 1 f.
Haakon Co., Philip, 7 August 1948 2 m.
Hughes Co., Pierre, 17 July 1947 1 f.
Hyde Co., Highmore, 1 September 1946 1 f.
Jackson Co., Interior (Badlands), 28
August 1922 1 f.
Jones Co., Capa, 30 August 1919 1 f.
Lawrence Co., Spearfish, 10 September
1948 1 m.
Roberts Co., Sisseton, 7 September 1948 1
f 1 m.
Stanley Co., Fort Pierre, 6 August 1948 1
f 1 m; 20 September 1920 1 f.
Union Co., Elk Point, 18 June 1946 1 f; 1
July 1946 2 f 3 m; 10 July 1946 1 f;

Records:

Brookings Co., Brookings, 7 September
1950 1 f.
Clay Co., Vermillion, 30 July 1945 1 f; 1
August 1946 1 f; 4 September 1946 1 f.
Pennington Co., Wall (Badlands), 26 July
1948 1 m.
Union Co., Beresford, 21 August 1945 1 f
1 m; 21 August 1946 1 f.
_____, Elk Point, 1 July 1946 1 f.

South Dakota ---- 9
Total Collection 9

Scaphytopius acutus (Say), 1831b:306
Type locality: Indiana



Records:

Aurora Co., White Lake, 27 June 1946 1 f.
Beadle Co., Cavour, 7 June 1950 1 f.
Bennett Co., Martin, 11 September 1948 3
f 4 m.

Bon Homme Co., Springfield, 27 August 1920 1 f; 14 September 1925 1 f 1 m.

Brookings Co., Brookings, 12 June 1925 1 f; 21 June 1943 1 f; 25 June 1946 1 f; 17 June 1949 1 m; 13 July 1919 1 f 2 m; 15 July 1919 1 m; 16 July 1919 1 m; 17 July 1924 1 f; 25 July 1947 1 f; 7 September 1920 2 f 3 m; 8 September 1920 4 f 4 m; 9 September 2 f; 21 September 1946 1 f; 22 September 1947 1 m; 3 September 1947 1 f; 6 September 1948 1 f 1 m.

Brown Co., Groton, 8 September 1948 1 m.

_____, Hecla, 7 September 1948 28 f 29 m.

Brule Co., Chamberlain, 17 June 1947 3 f 2 m; 14 September 1946 6 f 5 m.

_____, Kimball, 28 June 1947 1 f.

Buffalo Co., Fort Thompson, 21 June 1944 1 f; 27 June 1946 1 f; 28 June 1946 1 m; 18 July 1945 1 f; 12 August 1943 1 m; 1 September 1948 1 f 2 m.

Butte Co., Newell, 26 June 1950 1 f 1 m; 5 July 1923 2 m.

_____, Nisland, 30 August 1952 1 f.

Clay Co., Meckling, 14 September 1948 3 m.

_____, Vermillion, 16 July 1946 1 f 23 June 1946 1 f; 28 July 1946 1 f; 1 August 1946 1 f; 6 August 1946 1 f 2 m; 16 August 1946 11 f 10 m; 27 August 1946 11 f 9 m; 1 September 1945 1 f; 6 September 1946 2 f 1 m; 1 October 1946 1 f.

Codington Co., Florence, 7 September 1948 1 f 1 m.

_____, Henry, 3 July 1946 1 f.

_____, Watertown, 22 August 1946 1 f.

Corson Co., Walker, 8 September 1948 1 f.

Custer Co., Pringle, 14 September 1930 1 m.

Day Co., Bristol, 27 June 1946 1 f.

Dewey Co., Cheyenne Agency, 25 June 1947 2 f 4 m.

Fall River Co., Hot Springs, 27 August 1922 1 f 1 m; 17 September 1949 2 f.

Grant Co., Big Stone City, 23 August 1948 1 f; 8 September 1946 1 m.

Gregory Co., Bonesteel, 13 September 1948 3 f 2 m.

_____, Fairfax, 12 August 1919 1 f.

Haakon Co., Philip, 23 June 1923 1 f; 7 August 1948 1 m.

Hand Co., Ree Heights, 11 September 1946 3 f 1 m.

_____, Vayland, 7 June 1949 3 f 2 m.

Harding Co., Buffalo, 20 June 1925 1 f 1 m; 28 June 1947 1 f 3 m; 26 August 1924 1 f 1 m; 10 September 1948 1 f.

_____, Reva, 8 September 1948 5 f.

Hughes Co., Canning, 7 August 1948 1 f.

_____, Pierre, 21 June 1949 1 f; 25 July 1947 3 f 4 m.

Hutchinson Co., Freeman, 27 June 1946 1 f.

Hyde Co., Highmore, 20 June 1946 1 f; 1 June 1948 1 f; 14 June 1948 2 f 1 m; 23 Jun 1950 1 f; 15 July 1945 1 m; 6 August 1946 1 f; 16 August 1946 2 f 2 m; 21 August 1949 5 m; 1 September 1946 1 f.

Jackson Co., Cottonwood, 9 June 1949 1 f; 15 June 1949 3 f; 24 June 1950 1 f 1 m; 26 July 1948 1 f; 21 July 1950 2 m.

Jones Co., Capa, 1 June 1921 2 m; 26 August 1919 1 f; 27 August 1919 3 f 1 m; 30 August 1919 7 f 2 m; 12 August 1922 1 f; 15 August 1922 2 m; 20 August 1922 1 f; 24 August 1922 1 m; 23 September 1920 3 f 4 m; 24 September 1920 1 f.

Lawrence Co., Deadwood, 9 September 1925 2 m.

_____, Englewood, 11 September 1948 1 f 1 m.

_____, Lead, 23 July 1947 1 f; 11 September 1948 1 f 2 m.

_____, Spearfish, 28 June 1947 2 m; 10 September 1948 11 f 8 m.

_____, Whitewood, 8 July 1923 1 f.

Lincoln Co., Canton, 26 June 1946 2 f; 27 August 1923 2 f.

Lymon Co., Kennebec, 8 July 1947 1 f; 17 July 1947 2 f.

Meade Co., Cedar Canyon, 27 June 1947 12 m.

_____, Edson, 27 June 1947 3 f.

_____, Fox Ridge, 28 June 1947 6 f.

_____, Sturgis, 25 July 1947 1 f.

Minnehaha Co., Sherman, 14 September 1949 8 f 4 m.

Pennington Co., Pactola Lake, 10 September 1948 2 m.

_____, Rapid City, 24 June 1923 2 f.

_____, Sylvan Lake, 6 September 1923 1 f; 1 September 1924 1 f.

_____, Wall (Badlands) 26 July 1948 2 f 2 m.

Perkins Co., Bison, 25 August 1924 1 f.

_____, Lemmon, 8 September 1948 1 f 2 m.

Potter Co., Gettysburg, 26 July 1947 1 f; 27 June 1947 1 f.

Roberts Co., Sisseton, 29 August 1921 1 f; 23 August 1946 1 f; 7 September 1948 4 f 3 m.

Stanley Co., Fort Pierre, 6 August 1948 3 f 5 m; 21 September 1920 2 f 2 m; 12 September 1945 4 f 3 m.

Turner Co., Centerville, 14 June 1928 1 f.

Union Co., Elk Point, 19 June 1924 1 f; 12 June 1925 10 f; 7 June 1946 1 f; 18 June 1946 3 m; 27 June 1946 1 m; 1 July 1946 1 f 2 m; 8 July 1946 1 m; 28 July 1946 1 f; 26 August 1926 2 f 3 m; 1 August 1946 32 f 21 m; 6 August 1946 6 f 5 m; 16 August 1946 2 f; 20 August 1946 1 f; 4 September 1946 2 m; 15 September 1946 1 f 1 m; 14 September 1948 1 f 2 m.

Yankton Co., Yankton, 11 August 1919 5 f; 19 August 1924 1 f; 18 August 1927 1 f.

Ziebach, Co., Dupree, 25 June 1947 3 f 2 m.

Additional Records:

Montana, Glacier National Park, 30 July 1946 6 specimens.

_____, Lake Placid, 5 August 1946 15 specimens; 8 August 1947 14 specimens.

North Dakota, Edgely, 29 July 1924 1 specimen.

Canada, Manitoba, Dolphin, 12 August 1949 2 specimens.

_____, Yukon Territory, Carmacks, 25 July 1951 4 specimens.

_____, Fort Yukon, 4 August 1951 4 specimens.

Alaska, Fairbanks, 4 August 1951 7 specimens.

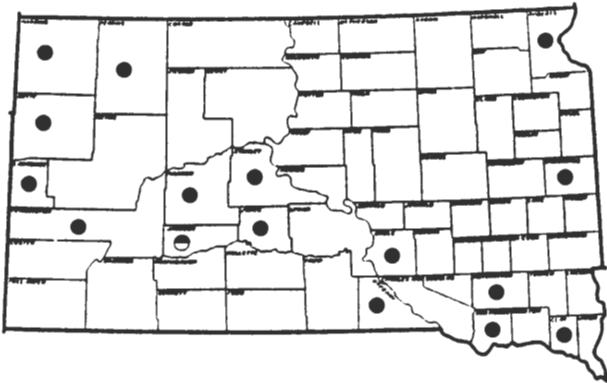
_____, Mantanuska, 1 August 1951 2 specimens.

South Dakota ---- 557
 Montana ----- 35
 North Dakota ---- 1
 Canada ----- 6
 Alaska ----- 9
 Total Collection 608

Scaphytopius cinereus (Osborn and Ball), 1897a:

193

Type locality: United States

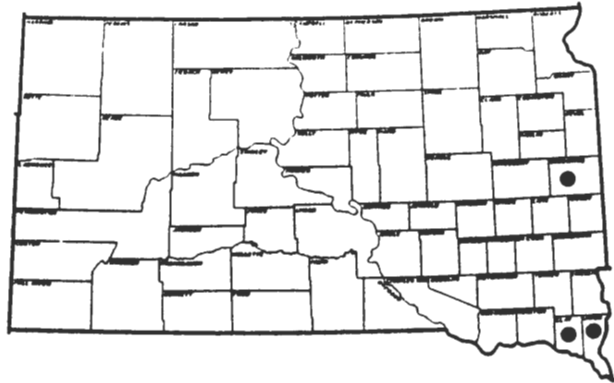


Records:

- Bon Homme Co., Springfield, 15 June 1928 1 f; 14 September 1925 1 f.
- Brookings Co., Brookings, 21 June 1943 1 f 3 m.
- Brule Co., Chamberlain, 17 June 1947 2 f.
- Butte Co., Nisland, 16 August 1950 1 f.
- Clay Co., Meckling, 14 September 1948 3 f 3 m.
- _____, Vermillion, 8 June 1921 2 f; 11 June 1921 2 f 5 m; 19 June 1921 1 f; 24 June 1921 1 f 1 m; 26 June 1921 2 f; 1 August 1946 1 f; 6 August 1946 3 m; 20 August 1946 1 f.
- Gregory Co., Bonesteel, 13 September 1948 3 f.
- Haakon Co., Philip, 23 June 1923 1 f.
- Harding Co., Buffalo, 19 June 1925 1 f; 10 September 1948 1 f.
- Hutchinson Co., Freeman, 27 June 1946 1 f 2 m.
- Jackson Co., Cottonwood, 9 June 1949 1 f; 24 June 1950 1 m.
- _____, Interior (Badlands), 15 June 1948 2 f; 28 August 1922 1 f.
- _____, Kadoka (Badlands), 19 July 1950 3 f 2 m.
- Jones Co., Capa, 26 August 1919 1 f; 27 August 1919 3 m; 30 August 1919 1 f 1 m; 24 August 1922 1 f; 23 September 1920 1 f; 24 September 1920 2 f.
- Lawrence Co., Spearfish, 28 June 1947 1 f; 10 September 1948 1 f.
- _____, Whitewood, 8 July 1923 1 f.
- Pennington Co., Rapid City, 24 July 1923 2 f.
- _____, Wall (Badlands), 26 July 1943 1 m.
- Perkins Co., Lemmon, 8 September 1948 1 f.
- Roberts Co., Sisseton, 23 August 1946 2 f 2 m.
- Stanley Co., Fort Pierre, 11 September 1946 1 f; 12 September 1946 1 m.

South Dakota ---- 77
Total Collection 77

Scaphytopius frontalis (Van Duzee), 1890a:112
Type locality: New York

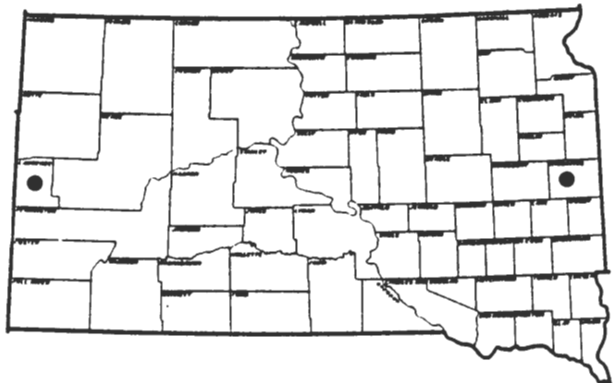


Records:

- Brookings Co., Brookings, 18 July 1946 1 f.
- Clay Co., Vermillion, 10 July 1946 1 m; 1 August 1946 1 m; 16 August 1946 5 f 4 m; 20 August 1946 1 f; 27 August 1946 1 f; 6 September 1946 2 f 2 m.
- Union Co., Elk Point, 19 June 1924 3 f 2 m; 12 June 1925 2 f 3 m; 18 June 1946 1 f; 27 June 1946 1 f; 1 August 1946 1 m; 14 September 1948 3 f 3 m.

South Dakota ---- 37
Total Collection 37

Scaphytopius latus (Baker), 1900c:50
Type locality: Quebec

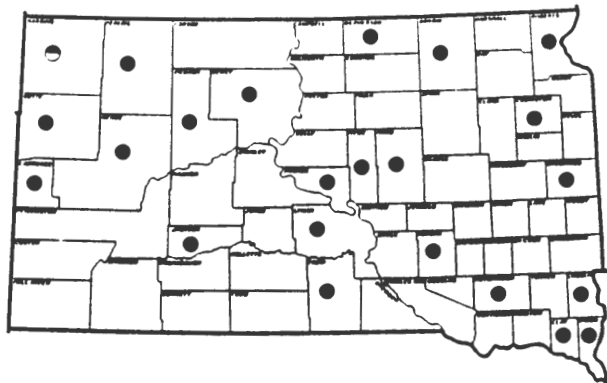


Records:

- Brookings Co., White (Warrens Woods), 1 July 1925 1 f.
- Lawrence Co., Lead, 11 September 1948 5 f.

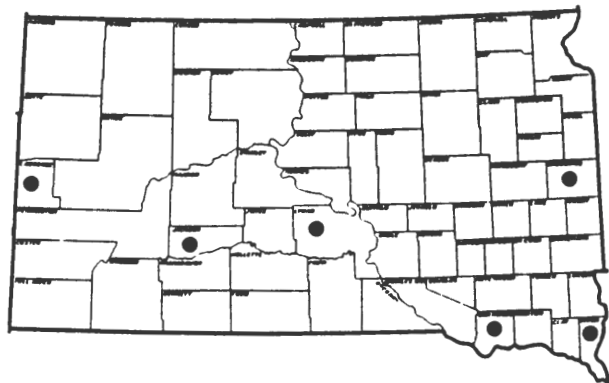
South Dakota ---- 6
Total Collection 6

Scaphytopius osborni (Van Duzee), 1910a:229
Type locality: Guatemala



South Dakota ---- 179
 Colorado ----- 8
 New York ----- 3
 Total Collection 190

Scleroracis anthracinus (Van Duzee), 1894c:136
 Type Locality: Iowa



Records:

Aurora Co., White Lake, 27 June 1946 2 f.
 Brookings Co., Brookings, 26 June 1943 1 f; 4 July 1943 1 f; 8 July 1945 1 f 2 m; 12 July 1945 5 f 4 m; 17 July 1946 1 f.
 _____, Lake Hendricks, 12 July 1922 1 f.
 Brown Co., Hecla, 26 July 1952 1 f.
 Butte Co., Newell, 26 June 1950 1 m; 27 June 1952 1 f.
 Codington Co., Watertown, 22 August 1946 1 m.
 Clay Co., Vermillion, 22 June 1946 1 f 1 m; 24 June 1946 1 f; 30 July 1945 1 f; 3 July 1946 1 m.
 Dewey Co., Eagle Butte, 26 July 1952 1 f 1 m.
 Hand Co., Vavland, 7 June 1949 8 f 9 m.
 Harding Co., Antelope Range Field Station, 24 June 1954 2 f.
 _____, Buffalo, 22 August 1952 1 f.
 _____, Reva, 5 August 1953 1 f.
 Hughes Co., Canning, 7 August 1948 3 f 2 m; 16 August 1950 6 f.
 _____, Pierre, 16 June 1952 2 m.
 Hutchinson Co., Freeman, 27 June 1946 1 f.
 Hyde Co., Highmore, 14 June 1948 2 f; 16 June 1952 3 m; 22 July 1952 1 f.
 Jackson Co., Cottonwood, 17 June 1952 9 f 10 m; 22 June 1952 5 f.
 Lawrence Co., Englewood, 26 July 1947 2 m.
 _____, Spearfish, 28 June 1947 14 f.
 Lincoln Co., Canton, 26 June 1946 2 m.
 Lyman Co., Kennebec, 7 July 1947 1 f; 8 July 1947 1 f 1 m; 17 July 1947 1 f.
 McPherson Co., Eureka, 24 June 1952 1 f.
 Meade Co., Maurine, 17 June 1952 1 f.
 _____, Sturgis, 25 July 1947 1 f.
 Perkins Co., Lemmon, 8 September 1948 1 m.
 Roberts Co., Sisseton, 17 June 1952 10 f 6 m.
 Tripp Co., Winner, 21 July 1950 1 f.
 Union Co., Elk Point, 27 May 1954 1 f; 24 June 1946 1 f; 18 June 1946 15 f 12 m; 24 June 1946 1 f.
 Ziebach Co., Dupree, 11 July 1952 6 f 5 m.

Additional Records:

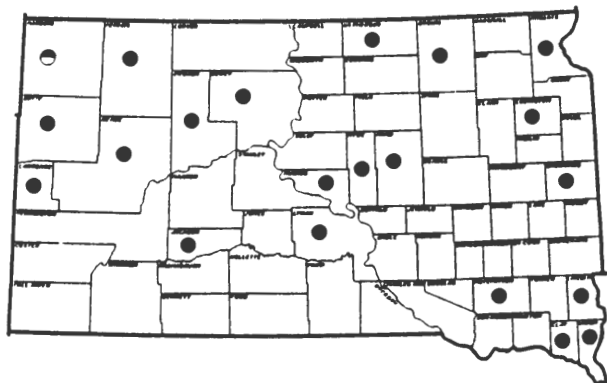
Colorado, Cameron Pass, 18 August 1952 8 specimens.
 New York, Canton, 18 August 1925 1 specimen.
 _____, Potsdam, 10 September 1926 1 specimen.

Records:

Bon Homme Co., Springfield, 16 June 1926 1 f.
 Brookings Co., White, 5 July 1925 1 m.
 Jackson Co., Cottonwood, 21 July 1956 1 m.
 Lawrence Co., Englewood, 26 July 1947 1 f.
 Lyman Co., Kennebec, 7 July 1947 1 f 1 m; 8 July 1947 2 f; 17 July 1947 6 f.
 Union Co., Elk Point, 26 June 1946 2 f 2 m.

South Dakota ---- 15
 Total Collection 15

Scleroracis oshorni (Ball), 1928c:190
 Type Locality: New Jersey



Records:

Brookings Co., Brookings, 26 June 1943 1 f; 4 July 1943 1 m; 8 July 1945 1 f 2 m; 12 July 1945 5 f 4 m; 17 July 1946 1 f.
 _____, Lake Hendricks, 12 July 1922 1 f.
 Brown Co., Hecla, 26 June 1952 1 m.
 Butte Co., Newell, 26 June 1950 1 f; 27 June 1952 1 f.
 Codington Co., Watertown, 22 August 1946 1 f.
 Clay Co., Vermillion, 22 June 1946 1 f 1 m; 24 June 1946 1 f; 3 July 1946 1 m; 30 July 1945 1 f.

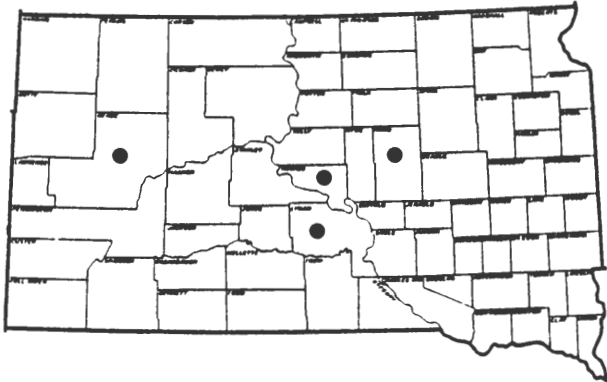
Dewey Co., Eagle Butte, 26 July 1952 2 f.
 Hand Co., Vayland, 7 June 1949 6 f 10 m.
 Harding Co., Antelope Range Field Station,
 24 June 1954 2 f.
 _____, Buffalo (Sandhills), 22 August
 1952 1 m.
 _____, Reva (Slim Buttes), 5 August 1953
 1 f.
 Hughes Co., Canning, 7 August 1948 3 f 2
 m; 16 August 1950 8 f.
 _____, Pierre, 16 June 1952 2 f.
 Hutchinson Co., Freeman, 27 June 1946 1 f.
 Hyde Co., Highmore, 14 June 1948 2 f; 16
 June 1952 1 f 2 m; 22 July 1952 1 f.
 Jackson Co., Cottonwood, 17 June 1952 6 f
 13 m; 22 June 1952 5 m.
 Lawrence Co., Englewood, 26 July 1947 2 f.
 _____, Spearfish, 28 June 1947 10 f 4 m.
 Lincoln Co., Canton, 26 June 1946 2 f.
 Lyman Co., Kennebec, 7 July 1947 2 m; 8
 July 1947 2 m.
 McPherson Co., Eureka, 24 June 1952 1 f.
 Meade Co., Maurine, 17 June 1952 1 f.
 _____, Sturgis, 25 July 1947 1 f.
 Perkins Co., Lemmon, 8 September 1948 1 f.
 Roberts Co., Sisseton, 17 June 1952 3 f 3
 m.
 Union Co., Elk Point, 27 May 1954 1 f; 18
 June 1946 10 f 17 m; 1 July 1946 2 f.
 Ziebach Co., Dupree, 11 July 1952 6 f 5 m.

Additional Records:

Colorado, Cameron Pass, 18 August 1952 7
 specimens.
 New York, Canton, 18 August 1925 1
 specimen; 11 August 1927 1 specimen.
 _____, Potsdam, 10 September 1926 1
 specimen.

South Dakota ---- 168
 Colorado ----- 7
 New York ----- 3
 Total Collection 178

Sorhoanus debilis (Uhler), 1876a:360
 Type locality: Colorado



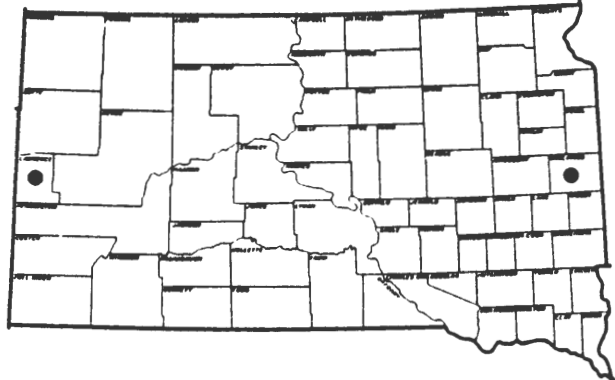
Records:

Hand Co., Ree Heights, 11 September 1946
 1 f.
 Hughes Co., Pierre, 25 July 1947 1 f.

Lyman Co., Presho, 17 June 1947 1 f 1 m.
 Meade Co., Fox Ridge, 28 June 1947 1 f.

South Dakota ---- 5
 Total Collection 5

Sorhoanus flavovirens (Gillette and Baker),
 1895a:87
 Type locality: Colorado



Records:

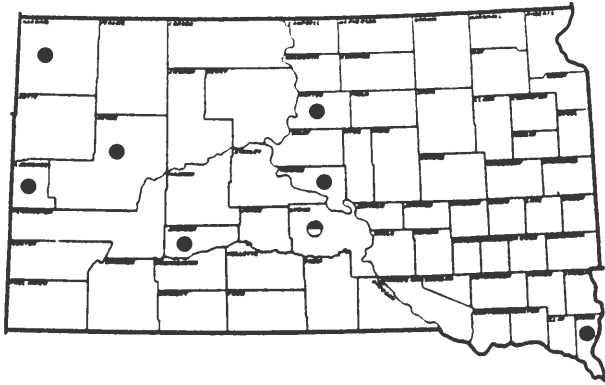
Brookings Co., Brookings, 5 June 1948 1 f.
 Lawrence Co., Lead, 11 September 1948 1 f.

Additional Records:

Montana, Bozeman (Gallatin Valley) 4
 August 1949 3 specimens.
 _____, Bozeman (Spanish Creek) 8 August
 1949 29 specimens.
 _____, Placid Lake, 8 August 1947 1
 specimen.
 Canada, Manitoba, Dolphin, 12 August 1949
 2 specimens.
 _____, Sherridon, 14 August 1949 9
 specimens.
 _____, Yukon Territory, Carmacks, 25 July
 1951 2 specimens.
 _____, Fort Yukon, 4 August 1961 6
 specimens.
 _____, Whitehorse, 4 August 1951 4
 specimens.
 Alaska, Circle Hot Springs, 4 August 1951
 30 specimens.
 _____, Fairbanks, 4 August 1951 22
 specimens.
 _____, Matanuska, 1 August 1951 21
 specimens.
 _____, Mt. McKinley National Park, 30
 July 1951 2 specimens.
 _____, Palmer, 1 August 1951 2 specimens.
 _____, Skagway, 9 August 1951 43
 specimens.

South Dakota ---- 2
 Montana ----- 33
 Canada ----- 23
 Alaska ----- 120
 Total Collection 178

Sorhoanus spicatus (Delong), 1926b:74
 Type locality: Kansas



Records:

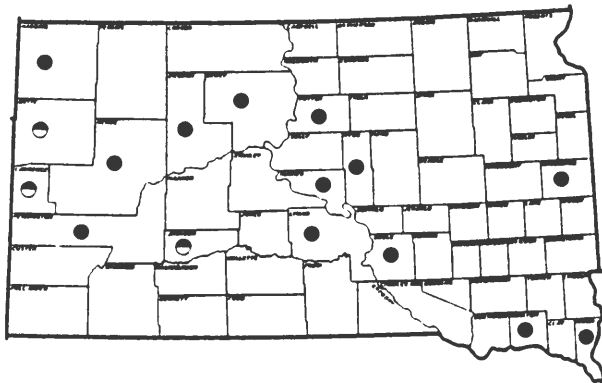
- Harding Co., Buffalo, 27 June 1950 1 f.
 Hughes Co., Pierre, 17 July 1947 1 f; 22 July 1947 1 f.
 Jackson Co., Cottonwood, 2 June 1948 3 f 5 m; 9 June 1949 2 f; 15 June 1949 15 f 9 m; 24 June 1950 3 f 2 m.
 Lawrence Co., Englewood, 27 July 1947 1 f.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 _____, Oacoma, 19 August 1949 1 f.
 _____, Presho, 17 June 1947 2 f.
 Meade Co., Edson, 27 June 1947 1 f.
 _____, Fox Ridge, 28 June 1947 1 f.
 Potter Co., Gettysburg, 26 June 1947 1 f.
 Union Co., Elk Point, 26 June 1946 1 f.

Additional Records:

Canada, Manitoba, Sherridon, 14 August 1949 1 specimen.

South Dakota ---- 55
 Canada ----- 1
 Total Collection 56

Sorhoanus uhleri (Oman), 1931b:432
 Type locality: Colorado



Records:

- Brookings Co., Brookings, 5 June 1948 16 f 13 m.
 _____, White, 28 May 1925 1 f 2 m.
 Brule Co., Chamberlain, 26 May 1947 1 f; 17 June 1947 1 f; 17 July 1947 2 f.
 Butte Co., Belle Fourche, 27 June 1947 1 m.

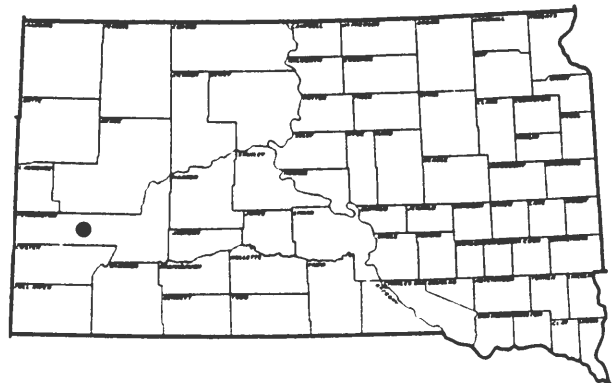
- _____, Newell, 27 May 1951 1 f.
 _____, Nisland, 21 July 1947 1 f.
 Dewey Co., Cheyenne Agency, 25 June 1947 16 f 10 m.
 Harding Co., Buffalo, 20 June 1925 1 f; 28 June 1947 1 f.
 Hughes Co., Pierre, 21 June 1949 1 f; 26 June 1951 1 f; 17 July 1947 1 f 1 m; 25 July 1947 1 f 2 m.
 Hyde Co., Highmore, 1 June 1948 1 f; 21 August 1949 1 m.
 Jackson Co., Cottonwood, 2 June 1948 1 f 3 m; 9 June 1949 1 f; 24 June 1950 2 f 1 m.
 _____, Interior (Badlands), 15 June 1943 3 f; 15 June 1948 5 f 7 m.
 _____, Kadoka, 19 July 1950 1 f.
 Lawrence Co., Englewood, 18 June 1925 4 f; 20 July 1928 1 f; 26 July 1947 4 f 10 m; 27 July 1947 4 f 5 m.
 _____, Spearfish, 28 June 1947 5 f 3 m.
 _____, Tinton, 26 July 1947 1 f 1 m.
 Lyman Co., Kennebec, 17 July 1947 1 f.
 _____, Presho, 17 June 1947 1 m.
 Meade Co., Fox Ridge, 28 June 1947 1 f.
 _____, Sturgis, 21 July 1947 5 f 4 m; 25 July 1947 6 f 9 m.
 Pennington Co., Wall, 26 July 1948 1 f.
 Potter Co., Gettysburg, 27 June 1947 3 f.
 Union Co., Elk Point, 27 June 1946 1 f.
 Yankton Co., Yankton, 15 June 1928 1 f.
 Ziebach Co., Dupree, 18 June 1925 3 f 2 m; 25 June 1947 33 f 26 m.

Additional Records:

- Colorado, Pingree Park, 20 August 1925 2 specimens.
 _____, Rocky Mt. National Park, Cascade Lodge, 2 August 1931 2 specimens.
 Montana, Bozeman (Spanish Creek), 1 August 1949 10 specimens; 4 August 1949 12 specimens; 8 August 1949 3 specimens.

South Dakota ---- 235
 Colorado ----- 4
 Montana ----- 33
 Total Collection 272

Streptanus aemulans (Kirschbaum), 1868b:107
 Type locality: Prussia



Records:

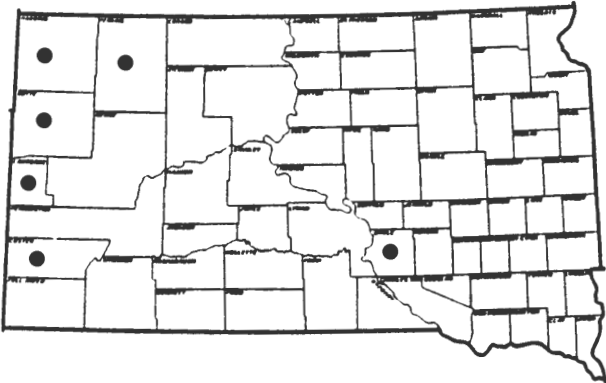
- Pennington Co., Pactola Lake, 10 September 1948 1 f.

Additional Records:

Canada, Yukon Territory, Whitehorse, 7 August 1951 1 specimen.
 Alaska, Circle Hot Springs, 4 August 1951 4 specimens.
 _____, Fairbanks, 4 August 1951 5 specimens.
 _____, McKinley National Park, 30 July 1951 1 specimen.
 _____, Skagway, 8 August 1951 7 specimens; 9 August 1951 8 specimens.

South Dakota ---- 1
 Canada ----- 1
 Alaska ----- 32
 Total Collection 34

Texanus cumulatus (Ball), 1900b:202
 Type locality: Colorado

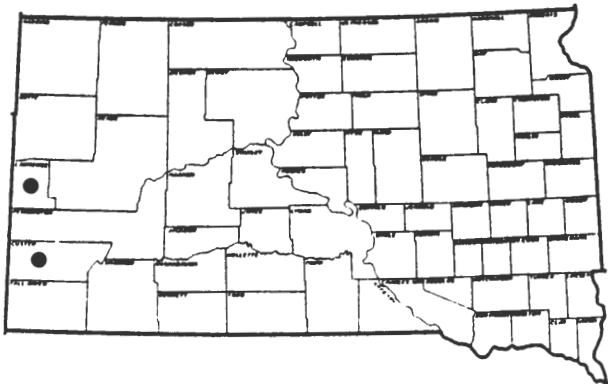


Records:

Brule Co., Brule Agency, 23 August 1929 1 f.
 Butte Co., Newell, 16 September 1930 1 f.
 Custer Co., Custer, 30 August 1933 1 m.
 _____, Pringle, 14 September 1930 1 f.
 Harding Co., Buffalo, 26 August 1924 1 f 1 m; 27 August 1924 2 f; 6 September 1925 1 f 1 m.
 Lawrence Co., Whitewood, 29 August 1924 1 f.
 Perkins Co., Bison, 25 August 1924 1 m.

South Dakota ---- 12
 Total Collection 12

Thamnotettix confinis Zetterstedt, 1828a:527
 Type locality: Norway



Records:

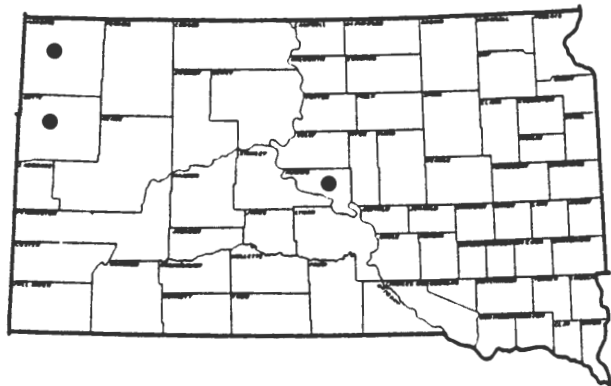
Custer Co., Sylvan Lake, 1 September 1925 1 f 1 m.
 Lawrence Co., Englewood, 18 June 1925 11 f 11 m; 17 June 1936 1 f; 20 July 1928 1 f; 26 July 1947 3 m.
 _____, Lead, 23 July 1947 1 f 2 m.

Additional Records:

Colorado, Rocky Mt. National Park, Cascade Lodge, 2 August 1931 7 specimens.

South Dakota ---- 32
 Colorado ----- 7
 Total Collection 39

Unoka gillettei Metcalf, 1955a:266
 Type locality: Colorado



Records:

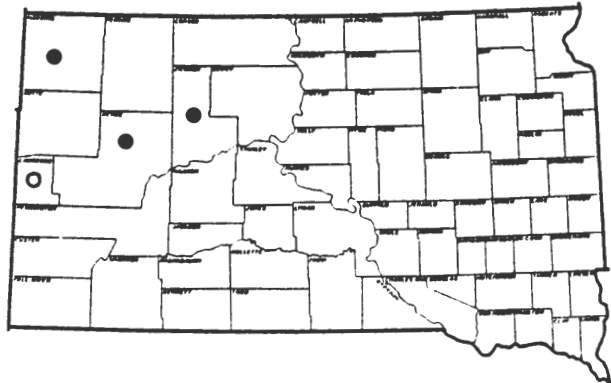
Butte Co., Newell, 26 June 1950 1 f.
 Harding Co., Buffalo, 27 June 1950 1 f.
 Hughes Co., Canning, 16 August 1950 16 f 21 m.

Additional Records:

Kansas, Kinsley, 1 September 1950 1 specimen.
 Oklahoma, Texahoma, 1 September 1950 1 specimen.

South Dakota ---- 39
 Kansas ----- 1
 Oklahoma ----- 1
 Total Collection 41

Verdanus evansi Ashmead, 1904a:132
 Type locality: Europe



Records:

Harding Co., Buffalo, 28 June 1947 1 f.
Lawrence Co., Englewood, 18 June 1925 15
f 11 m; 17 June 1936 1 f; 20 July
1928 1 f; 26 July 1947 40 f 41 m; 27
July 1947 15 f 7 m.
_____, Hanna, 17 June 1936 1 f.
_____, Lead, 23 July 1947 82 f 93 m; 2
August 1935 2 f.
_____, Pluma, 26 July 1947 1 f .
_____, Spearfish, 28 June 1947 10 f 3 m.
_____, Tinton, 26 July 1947 6 f.
Meade Co., Sturgis, 21 July 1947 2 f.
Ziebach Co., Dupree, 25 June 1947 1 f.

Additional Records:

Colorado, Estes Park, 25 August 1920 3
specimens.
_____, Pingree Park, 20 August 1925 1
specimen.
_____, Rocky Mt. National Park, 2 August
1931 3 specimens.
Montana, Placid Lake, 8 August 1947 1
specimen.
Canada, British Columbia, Rosedale, 18
August 1947 4 specimens.

| | |
|-------------------|------------|
| South Dakota ---- | 335 |
| Colorado ----- | 7 |
| Montana ----- | 1 |
| Canada ----- | 4 |
| Total Collection | <u>347</u> |