A Preliminary Checklist to the Spiders (Arachnida: Araneae) of Minnesota
(U.S.A.) with Annotations

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Abstract
This is a list of spider species for Minnesota (U.S.A.). It includes species that have been recorded in Minnesota as well as those which have ranges that suggest they are likely to be found in the state in the future. The checklist is a compilation of records from the literature, museums, and personal collection efforts by the author. Each species is annotated with a select reference or references and a comment if necessary. This list represents several new state records and expansions of several species’ known ranges.

Key Terms: Minnesota, Araneae
INTRODUCTION

Spiders are an abundant component of terrestrial arthropod assemblages. Over 3,800 species of spiders have been documented in North America north of Mexico (Bradley 2013). They present interesting subjects for the study of behavior, taxonomy, and ecology and it has been suggested that they may serve as important ecological indicators (Clausen 1986; Churchill 1997). Their abundance, ease of capture, and limited expense to study make them ideal subjects for study at the undergraduate level and an interest in such applications sent the author in search of a list of Minnesota spiders. The only faunal list for Minnesota that could be located was limited to the family-level (Cutler 1976).

Several states and provinces in North America have developed such spider faunal lists. In the Upper Midwest, such lists have been created for Michigan (Snider 1991), Illinois/Indiana (Beatty 2002), Wisconsin (Levi & Field 1954), and Manitoba (Benell-Aitchison & Dondale 1990). A regional checklist was assembled for the Great Lakes states but excluded Minnesota (Sierwald et al. 2005). Partial lists can be found for Iowa (Abraham 1996; Stiles & Detwiler 1939; Stiles & Stevens 1941) and South Dakota (Pfeiffer 2012).

While some spider collection has occurred in Minnesota, most notably by Willis J. Gertsch (1930s), Daniel T. Jennings (1960s), Bruce Cutler (1970-90s), and more recently William J. Ehmann (1996-2015), such collections were often focused on one taxon (Cutler 1977; Cutler & Jennings 1992; Ehmann 2002, 2011; Ehman & Boyd 1997), limited in their geographic scope (Cutler et al. 1975; Heimer et al. 1984) or both (Jennings & Cutler 1996). As a result, significant
gaps remain in the knowledge of not only which species occur in Minnesota, but how they are distributed within the state. This checklist is an attempt to take the first step in filling that void.

Minnesota lies at the intersection of three major biomes in North America (prairie, boreal forest, and eastern deciduous forest). It occupies an area of about 225,181 km² which ranks it as the twelfth largest state in the United States (About Minnesota). Aaseng et al. (2011) recognized 104 native plant communities in Minnesota distributed within four ecological provinces: Laurentian Mixed Forest, Eastern Broadleaf Forest, Tallgrass Aspen Parklands, and Prairie Parkland. Such habitat diversity should support a diverse spider fauna.

METHODS

Records of Minnesota spiders were gleaned from a number of different sources. Treatments of North American taxa provided the bulk of the records but records were also gleaned from other literature sources, museum collections (Denver Museum of Nature and Science, New Mexico State University, Harvard Museum of Comparative Zoology, University of Minnesota), BugGuide (www.bugguide.net), iNaturalist (www.inaturalist.org), personal collection efforts, and communication with other araneologists.

RESULTS

This checklist includes 635 spider species. It functions as a record of what has been documented in the state but includes species that may occur and should be searched for with future survey work. It is comprised of 35 families, 197 genera, and 492 species with confirmed
records in Minnesota and an additional one family, 32 genera and 144 spider species that may well occur in the state but for which no records could be found. These hypothetical species are classified as such for a number of reasons. Most have published ranges that are geographically proximate to Minnesota while others are likely to occur in the state as accidental introductions. Still others are represented by specimens in the University of Minnesota or that are lacking proper collection data and/or represent species with a Palearctic distribution (suggesting misidentification and direction for future efforts). A breakdown of family distribution can be found in Table 1.

The list of spiders for Minnesota is contained in Table 2. Select references follow each species for verification as well as other notes in some cases. BugGuide reference numbers represent voucher specimens collected by the author. Nomenclature and taxonomy follows the World Spider Catalog. Please notify the author of any corrections or additions that can be made to the list. The appendix contains records for species that occur in the literature record but are omitted for various reasons. Rationale is provided for each of these omissions.
Table 1: Intrafamily distribution of taxa for confirmed and hypothetical spider species in Minnesota

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**TOTALS** 197 492 32 144
Table 2: Spiders of Minnesota—Hypothetical species are indicated by *. Non-native species that have become well established are indicated by †. Species that are accidental from introductions, stowaways, etc. and occur at best as highly localized populations are indicated by ^.

**Mygalomorphae**

**Atypidae**

*Sphodros niger* (Hentz, 1842)  BugGuide #794224; Gertsch & Platnick 1980

**Theraphosidae**

Indeterminate genera

**Araneomorphae**

**Agelenidae**

*Agenlops actuosa* (Gertsch & Ivie, 1936)*  Chamberlin & Ivie 1941; Gertsch & Ivie 1936

*Agenlops emertoni* Chamberlin & Ivie, 1935  Cutler 1973

*Agenlops naevia* (Walckenaer, 1841)  University of Minnesota (#V Ce 34.2, 34.22, 34.23)

*Agenlops oklahoma* (Gertsch, 1936)  University of Minnesota (#V Ce 34.36)

*Agenlops pennsylvanica* (C.L. Koch, 1843)  Chamberlin & Ivie 1941

*Agenlops potteri* (Blackwall, 1846)  Chamberlin & Ivie 1941; Denver Museum of Nature and Science (#7A.6963)

*Agenlops utahana* (Chamberlin & Ivie, 1933)  Benell-Aitchison & Dondale 1990; Cutler 1973; Levi & Field 1954

*Coras juvenilis* (Keyserling 1881)  Roth & Brown 1986

*Coras lamellosus* (Keyserling, 1887)  Muma 1946

*Coras medicinalis* (Hentz, 1821)  Heimer et al. 1984; Muma 1946

*Coras montanus* (Emerton, 1889)  Muma 1946

*Tegenaria domestica* (Clerck, 1757)*†  BugGuide #741474; Cutler 1973

*Amaurobiidae**

*Arctobius agelenoides* (Emerton, 1919)*  Leech, 1972

*Amaurobius borealis* Emerton, 1909  Leech 1972

*Callobius bennetti* (Blackwall, 1846)  Heimer et al. 1984; Leech 1972

*Cybaeopsis euopla* (Bishop & Crosby, 1935)  Heimer et al. 1984

*Cybaeopsis tibialis* (Emerton, 1888)  Heimer et al. 1984

**Anyphaenidae**

*Anyphaena celer* (Hentz, 1847)  Cutler 1981

*Anyphaena pectorosa* L. Koch, 1866  BugGuide #964215

*Hibana gracilis* (Hentz, 1847)*†  Dondale & Redner 1982; Platnick 1974

*Wulfila saltabundus* (Hentz, 1847)  BugGuide #790302, #790307; Cutler 1976

**Araneidae**

*Acanthepeira stellata* (Walckenaer, 1805)  Dondale et al. 2003

*Araneus bicaudatus* (McCook, 1888)  Dondale et al. 2003; Heimer et al. 1984

*Araneus corticarius* (Emerton, 1884)  Dondale et al. 2003; Heimer et al. 1984

*Araneus diadematus* Clerck, 1757†  iNaturalist #4036137–range limited primarily to Twin Cities region

*Araneus gemmoides* Chamberlin & Ivie, 1935  Archer 1951a; Chamberlin & Ivie 1935; Dondale et al. 2003; Levi 1951

*Araneus groenlandicus* (Strand, 1906)  Dondale et al. 2003; Levi 1971a
Araneus guttulatus (Walckenaer, 1841) Levi 1981b
Araneus iviei (Archer, 1951) iNaturalist #4103054; Levi 1971a
Araneus marmoreus Clerck, 1757 Dondale et al. 2003; Heimer et al. 1984
Araneus nordmanni (Thorell, 1870) Dondale et al. 2003
Araneus pratensis (Emerton, 1884) BugGuide #966138
Araneus saevus (L. Koch, 1872) Dondale et al. 2003; Levi 1971a
Araneus thaddeus (Hentz, 1847) Dondale et al. 2003; Levi 1973
Araneus trifolium (Hentz, 1847) Dondale et al. 2003
Araneus triguttatus (Fabricius, 1793) Archer 1951b
Araniella displicata (Hentz, 1847) Dondale et al. 2003; Stratton et al. 1979
Argiope aurantia Lucas, 1833 Dondale et al. 2003
Argiope trifasciata (Forsskl, 1757) Dondale et al. 2003
Cyclosa conica (Pallas, 1772) Dondale et al. 2003
Cyclosa turbinata (Walckenaer, 1841) Levi 1977a; Sparky Stensaas personal communication
Eustala anastera (Walckenaer, 1841) Dondale et al. 2003; Heimer et al. 1984
Eustala cepina (Walckenaer, 1841) BugGuide #724968, #966148
Gea heptagon (Hentz, 1850)* Levi 1968
Hypsosinga funebris (Keyserling, 1892) Dondale et al. 2003
Hypsosinga pygmaea (Sundevall, 1831) Cutler 1971; Dondale et al. 2003
Hypsosinga rubens (Hentz, 1847)* Levi 1971b
Hypsosinga singaeformis (Scheffer, 1904)* Levi 1971b
Larinioides cornutus (Clerck, 1757) Dondale et al. 2003
Larinioides patagiatus (Clerck, 1757) Denver Museum of Nature and Science (#ZA.7531); Dondale et al. 2003
Larinioides sericus (Clerck, 1757) Heimer et al. 1984
Mangora gibberosa (Hentz, 1847) Dondale et al. 2003; Levi 1975a
Mangora maculata (Keyserling, 1865)* Dondale et al. 2003; Levi 1975a
Mangora placida (Hentz, 1847) Cutler 1971; Dondale et al. 2003; Heimer et al. 1984
Mastophora hutchinsoni Gertsch, 1955 Dondale et al. 2003; Levi 1977b
Metepa lacinia (Hentz, 1847)* Levi 1977b
Metepeira palustris Chamberlin & Ivie, 1941* Dondale et al. 2003; Levi 1977b
Micrathena gracilis (Walckenaer, 1805) BugGuide #459591
Micrathena mitrata (Hentz, 1850) BugGuide #899678
Micrathena sagittata (Walckenaer, 1841) Dondale et al. 2003
Neoscona arabesca (Walckenaer, 1842) Cutler 1971; Dondale et al. 2003; Heimer et al. 1984
Neoscona crucifera (Lucas, 1838) BugGuide #965216
Neoscona pratensis (Hentz, 1847) Berman & Levi 1971; Dondale et al. 2003
Singa eugeni Levi, 1972 BugGuide #790264, 794361
Singa keyserlingi McCook, 1893 Dondale et al. 2003; Museum of Comparative Zoology (MCZ#85551)
Zygiaea nearctica Gertsch, 1964* Dondale et al. 2003; Gertsch 1964a; Levi 1974
Zygiaea x-notata (Clerck, 1757) Heimer et al. 1984
### Clubionidae

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Emblyna cruciata (Emerton, 1888)*

Emblyna hentzi (Kaston, 1945)

Emblyna hortia (Gertsch & Ivie, 1941)

Emblyna minotoba (Ivie, 1947)

Emblyna maxima (Banks, 1892)*

Emblyna phylax (Gertsch & Ivie, 1936)

Emblyna roscida (Hentz, 1850)

Emblyna sublata (Hentz, 1850)

Lathys foxi (Marx, 1891)

Phantyna bicornis (Emerton, 1915)

Dysderidae

Dysdera crocata C.L. Koch, 1838 ♀

Eutichuridae

Chiracanthium inclusum (Hentz, 1841)*

Chiracanthium mildei L. Koch, 1864 ♀

Gnaphosidae

Callilepis imbecilla (Keyserling, 1887)

Callilepis pluto Banks, 1896

Cesonia bilineata (Hentz, 1847)*

Drassodes auriculoides Barrows, 1919*

Drassodes neglectus (Keyserling, 1887)

Drassodes saccatus (Emerton, 1890)

Drassyllus depressus (Emerton, 1890)

Drassyllus fallens Chamberlin, 1922*

Drassyllus niger (Banks, 1896)

Drassyllus rufulus (Banks, 1892)*

Drassyllus socius Chamberlin, 1922*

Gnaphosa brumalis Thorell, 1875

Gnaphosa fontinalis Keyserling, 1887*

Gnaphosa muscorum (L. Koch, 1866)

Gnaphosa parvula (Banks, 1896)

Gnaphosa sericata (L. Koch, 1866)

Haplodrassus bicornis (Emerton, 1909)

Haplodrassus eunis Chamberlin, 1922*

Haplodrassus hiemalis (Emerton, 1909)

Haplodrassus signifer (C. L. Koch, 1939)

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Herpyllus ecclesiasticus Hentz, 1832
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Micaria emertoni Gertsch, 1935*  
Micaria gertschi Barrows & Ivie, 1942  
Micaria longipes Emerton, 1890  
Micaria longispina Emerton, 1911*  
Micaria pulicaria (Sundevall, 1831)  
Micaria riggsi Gertsch, 1942  
Micaria rossica Thorell, 1875  
Nodocion floridanus (Banks, 1896)*  
Nodocion rufithoracicus Worley, 1928  
Orodrassus canadensis Platnick & Shadab, 1981  
Orodrassus coloradensis Emerton, 1877*  
Sergiolus bicolor Banks, 1900  
Sergiolus capulatus (Walckenaer, 1837)  
Sergiolus decoratus Kaston, 1945  
Sergiolus montanus (Emerton, 1890)  
Sergiolus ocellatus (Walckenaer, 1837)  
Sergiolus tennesseensis Chamberlin, 1922*  
Sosticus insularis (Banks, 1895)  
Sosticus loricatus (L. Koch, 1866)  
Urozelotes rusticus (L. Koch, 1872)  
Zelotes exiguides Platnick & Shadab, 1983*  
Zelotes fratris Chamberlin, 1920  
Zelotes hentzi Barrows, 1945  
Zelotes pullus (Bryant, 1936)  
Zelotes puritanus Chamberlin, 1945  
Zelotes subterraneus (C. L. Koch, 1833)  

Hahnidae

Antistea brunnea (Emerton, 1909)  
Cicurina arcuata Keyserling, 1887  
Cicurina brevis (Emerton, 1890)  
Cicurina intermedia Chamberlin & Ivie, 1933  
Cicurina itasca Chamberlin & Ivie, 1940  
Cicurina minnesota Chamberlin & Ivie, 1940  
Cicurina robusta Simon, 1886  
Hahnia cinerea (Emerton, 1890)  
Hahnia ononidum Simon, 1875  
Neoantistea agilis (Keyserling, 1887)  
Neoantistea magna (Keyserling, 1887)  

Linyphiidae

Agyneta amersaxatilis Saaristo & Koponen, 1998*  

* Indicates new combinations or synonyms.
Agyneta barrowsi (Chamberlin & Ivie, 1944)*
Agyneta evadens (Chamberlin, 1925)*
Agyneta fabra (Keyserling, 1886)
Agyneta girardi Dupéré, 2013*
Agyneta jacksoni (Braendegaard, 1937)*
Agyneta ilanoensis (Gertsch & Davis, 1936)*
Agyneta micaria (Emerton, 1882)*
Agyneta olivacea (Emerton, 1882)*
Agyneta protrudens (Chamberlin & Ivie, 1933)
Agyneta simplex (Emerton, 1909)*
Agyneta spicula Dupéré, 2013*
Agyneta unimaculata (Banks, 1892)
Allomengea dentisetis (Grube, 1861)
Baryphyma trifrons (O. P.-Cambridge, 1863)
Bathyphantes albiventris (Banks, 1892)
Bathyphantes brevis (Emerton, 1911)
Bathyphantes canadensis (Emerton, 1882)
Bathyphantes gracilis (Blackwall, 1841)
Bathyphantes pallidus (Banks, 1892)
Centromerus sylvaticus (Blackwall, 1841)
Ceraticelus bryantae Kaston, 1945
Ceraticelus emertoni (O. P. –Cambridge, 1874)
Ceraticelus fissiceps (O. P. –Cambridge, 1874)
Ceraticelus laetabilis (O. P. –Cambridge, 1874)
Ceraticelus laetus (O.P. –Cambridge, 1874)
Ceraticelus minutus (Emerton, 1882)
Ceraticelus paschalis Crosby & Bishop, 1925
Ceraticelus similis (Banks, 1892)
Ceratinella brunnea Emerton, 1882
Ceratinella buna Chamberlin, 1949
Ceratinella diversa Chamberlin, 1949
Ceratinops crenatus (Emerton, 1882)
Ceratinops inflatus (Emerton, 1923)
Ceratinopsis nigriceps Emerton, 1882
Ceratinopsis nigripalpis Emerton, 1882
Collinsia plumosa (Emerton, 1882)
Diplocentria bidentata (Emerton, 1882)*
Diplocentria rectangulata (Emerton, 1915)*
Diplocephalus subrostratus (O. P-Cambridge, 1873)
Diplostyla concolor Wider, 1834

Dismodicus decemoculatus (Emerton, 1882)

Drapetisca alteranda Chamberlin, 1909

Eperigone maculata (Banks, 1892)

Eperigone mediocris Millidge, 1987

Eperigone trilobata (Emerton, 1882)

Eperigone undulata (Emerton, 1914)

Eridantes erigonoides (Emerton, 1882)

Erigone atra Blackwall, 1833

Erigone autumnalis Emerton, 1882

Erigone blaesa Crosby & Bishop, 1928

Erigone dentigera O. P. –Cambridge, 1874

Erigone dentosa O. P. –Cambridge, 1894

Frontinella communis (Hentz, 1850)

Gnatinaroides pedalis (Emerton, 1923)*

Gonatium crassipalpum Bryant, 1933

Gonatium rubens (Blackwall, 1833)

Grammonota angusta Dondale, 1959*

Grammonota gentilis Banks, 1898

Grammonota gigas (Banks, 1896)*

Grammonota ornata (O. P. –Cambridge, 1875)

Grammonota pictilis (O. P. –Cambridge, 1875)

Grammonota semipallida Emerton, 1919*

Grammonota vittata Barrows, 1919

Hoplinis contortus (Emerton, 1882)

Helophora insignis (Blackwall, 1841)

Hypomma marri (Keyserling, 1886)*

Hypselistes florens (O. P. –Cambridge, 1875)

Islandiana flaveola (Banks, 1892)

Islandiana longisetosa (Emerton, 1882)*

Islandiana princeps Braendegaard, 1932

Jacksonella falconeri (Jackson, 1908)

Kaestneria pullata (O. P. –Cambridge, 1863)

Leptophantes leprosus (Ohlert, 1865)*

Leptophantes turbatrix (O. P. Cambridge, 1877)

Maso sundevallii (Westring, 1851)

Megalepthyphantes nebulosus (Sundevall, 1830)

Mermessus contortus (Emerton, 1882)*

Mermessus trilobatus (Banks, 1896)

Microlinyphia mandibulata (Emerton, 1882)

Microlinyphia pusilla (Sundevall, 1830)
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<td>Heimer et al. 1984</td>
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<td>Cutler 1971; Millidge 1981b</td>
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<td>Millidge 1981b</td>
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<td>Scirites pectinatus (Emerton, 1911)*</td>
<td>Dupérré &amp; Paquin 2007</td>
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<td>Tapinopa bilineata Banks, 1893</td>
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<td>Tennesseelum formicum (Emerton, 1882)</td>
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Walckenaeria pallida (Emerton, 1882) Millidge 1983
Walckenaeria palustris Millidge, 1983* Millidge 1983
Walckenaeria redneri Millidge, 1983* Millidge 1983
Walckenaeria spiralis (Emerton, 1882) Millidge 1983
Walckenaeria subdirecta Millidge, 1983* Millidge 1983
Walckenaeria subpallida Millidge, 1983* Millidge 1983
Walckenaeria subspiralis Millidge, 1983* Millidge 1983
Walckenaeria tibialis (Emerton, 1882) Millidge 1983
Walckenaeria vigilax (Blackwall, 1853) Millidge et al. 1984
Liocranidae
Agroeca ornata Banks, 1892 Cutler et al. 1975; Denver Museum of Nature and Science (#ZA.11870)
Agroeca pratensis Emerton, 1890 Cutler et al. 1975
Liocranoeca emertoni (Kaston, 1938) Cutler et al. 1975
Lycosidae
Alopecosa aculeata (Clerck, 1757) Gertsch 1934a; Heimer et al. 1984
Alopecosa kochii (Keyserling, 1877) Gertsch & Wallace 1935
Arctosa alpigena (Doleschall, 1852)* Dondale & Redner 1990
Arctosa emertoni Gertsch, 1934 Gertsch 1934a
Arctosa littoralis (Hentz, 1844) Weber 2002
Arctosa raptor (Kulczynski, 1885)* Dondale & Redner 1990
Arctosa rubicunda (Keyserling, 1877) BugGuide #732119
Geolycosa missouriensis (Banks, 1895) Wallace 1942; Dondale & Redner 1990
Geolycosa turricola (Treat, 1880) Denver Museum of Nature and Science (#ZA.24849)
Geolycosa wrighti (Emerton, 1912) Wallace 1942; Dondale & Redner 1990
Gladicosa gulosa (Walckenaer, 1837) Brady 1987; Dondale & Redner 1990
Hogna baltimoriana (Keyserling, 1877) Dondale & Redner 1990
Hogna carolinensis (Walckenaer, 1805)* Dondale & Redner 1990
Hogna frondicola (Emerton, 1885) Dondale & Redner 1990
Pardosa atlantica Emerton, 1913 Denver Museum of Nature and Science (#ZA.12760)
Pardosa concinna (Thorell, 1877) Heimer et al. 1984
Pardosa distincta (Blackwall, 1846) Gertsch 1934a; Vogel 1964
Pardosa dromaea (Thorell, 1878) Dondale & Redner 1990; Dondale 1999
Pardosa fuscula (Thorell, 1875) Dondale & Redner 1987; Dondale & Redner 1990
Pardosa groenlandica (Thorell, 1872) Dondale & Redner 1990; Dondale 1999
Pardosa hyperborea (Thorell, 1872)* Dondale & Redner 1987; Dondale & Redner 1990
Pardosa lapidicina Emerton, 1885 Dondale & Redner 1990
Pardosa littoralis (Banks, 1896) Heimer et al. 1984--This may be a dubious record
Pardosa mackenziana (Keyserling, 1877) Dondale & Redner 1990
Pardosa milvina (Hentz, 1844) Heimer et al. 1984

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Walckenaeria minuta
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Pardosa hyperborea (Thorell, 1872)* Dondale & Redner 1987; Dondale & Redner 1990
Pardosa lapidicina Emerton, 1885 Dondale & Redner 1990
Pardosa littoralis (Banks, 1896) Heimer et al. 1984--This may be a dubious record
Pardosa mackenziana (Keyserling, 1877) Dondale & Redner 1990
Pardosa milvina (Hentz, 1844) Heimer et al. 1984
Pardosa modica (Blackwall, 1846)  
Dondale & Redner 1990; Gertsch 1934a

Pardosa moesta Banks, 1892  
Dondale & Redner 1987; Gertsch 1934a; Heimer et al. 1984

Pardosa mulaiki Gertsch, 1934*  
Dondale & Redner 1990

Pardosa ontariensis Gertsch, 1933*  
Dondale & Redner 1990; Heimer et al. 1984

Pardosa saxatilis (Hentz, 1844)  
Dondale & Redner 1990

Pardosa tesquorum (Odenwall, 1901)*  
Dondale & Redner 1990

Pardosa uintana Gertsch, 1933*  
Dondale & Redner 1990

Pardosa xerampelina (Keyserling, 1877)  
Heimer et al. 1984

Pirata aspirans Chamberlin, 1904  
Wallace & Exline 1978

Pirata gigantea (Gertsch, 1934)*  
Dondale & Redner 1990

Pirata insularis Emerton, 1885  
Cutler 1971; Heimer et al. 1984

Pirata montanoides Banks, 1892  
BugGuide #1102972; Dondale & Redner 1990

Pirata montanus Emerton, 1885  
Heimer et al. 1984

Pirata piraticus (Clerck, 1757)  
Heimer et al. 1984; Wallace & Exline 1978

Pirata praedae Kulczyński, 1885  
Dondale & Redner 1990

Pirata sedentarius Montgomery, 1904  
Cutler 1971

Piratula canadensis (Dondale & Redner, 1981)  
BugGuide #1073908; Dondale & Redner, 1990

Piratula contralli Wallace & Exline, 1978*  
Dondale & Redner 1990

Piratula minuta (Emerton, 1885)  
Wallace & Exline 1978

Rabidosa rabida (Walckenaer, 1837)  
Brady & McKinley 1994

Schizocosa avida (Walckenaer, 1837)  
University of Minnesota (#V Ce 36.15, 36.16, 36.157, 36.159)

Schizocosa bilineata (Emerton, 1885)*  
Dondale & Redner 1990

Schizocosa crassipalpata Roewer, 1951  
Dondale & Redner 1978; Dondale & Redner 1990

Schizocosa crassipes (Walckenaer, 1837)  
University of Minnesota (#V Ce 36.89, 36.90)

Schizocosa mccooki (Montgomery, 1904)  
BugGuide #811932; Dondale & Redner 1990

Schizocosa minnesotaensis (Gertsch, 1934)  
Gertsch 1934b

Schizocosa ocreata (Hentz, 1844)  
Dondale & Redner 1987; Dondale & Redner 1990

Schizocosa saltatrix (Hentz, 1844)  
Dondale & Redner 1987; Dondale & Redner 1990

Tigrosa aspersa (Hentz, 1844)*  
Dondale & redner 1990

Tigrosa helluo (Walckenaer, 1837)  
Brady 2012

Trochosa terricola Thorell, 1856  
Brady 1980; Dondale & Redner 1990; Gertsch 1934b; Heimer et al. 1984

Varacosa avara (Keyserling, 1877)*  
Dondale & Redner 1990

Mimetidae

Ero canionis Chamberlin & Gertsch, 1935  
Cutler 1976

Mimetus epeiroides Emerton, 1882  
Mott (unpublished data)

Mimetus notius Chamberlin, 1923  
Heimer et al. 1984

Mimetus puritanus Chamberlin, 1923  
Mott (unpublished data)

Mimetus syllepsicus Hentz, 1832*  
University of Minnesota (#V Ce 30.1, 30.2)--out of range?

Oecobiidae

Oecobius annulipes Lucas, 1846*  
Cutler 1973

Oxyopidae
Oxyopes salticus Hentz, 1845
Oxyopes scalaris Hentz, 1845

Philodromidae

Ebo iviei Sauer & Platnick, 1972*
Ebo pepinensis Gertsch, 1933
Ebo latithorax Keyserling, 1884
Philodromus alascensis Keyserling, 1884*
Philodromus cespitum (Walckenaer, 1802)
Philodromus exilis Banks, 1892
Philodromus histrio (Latreille, 1819)
Philodromus imbecillus Keyserling, 1880
Philodromus infuscatus Keyserling, 1880
Philodromus keyserlingi Marx, 1890
Philodromus marxi Keyserling, 1880
Philodromus minutus Banks, 1892
Philodromus oneida Levi, 1951
Philodromus peninsulanus Gertsch, 1934
Philodromus pernix Blackwall, 1846
Philodromus placidus Banks, 1892
Philodromus praelustris Keyserling, 1880
Philodromus rufus Walckenaer, 1826
Philodromus rufus quartus Dondale & Redner, 1968
Philodromus rufus vibrans Dondale, 1967
Philodromus vulgaris (Hentz, 1847)
Thanatus formicinus (Clerck, 1757)
Thanatus coloradensis Keyserling, 1880
Thanatus striatus (C. L. Koch, 1845)
Thanatus vulgaris Simon, 1870*
Tibellus asiaticus Kulczinski, 1908*
Tibellus duttoni (Hentz, 1847)
Tibellus maritimus Simon, 1875
Tibellus oblongus (Walckenaer, 1802)

Pholcidae

Pholcus manueli Gertsch, 1937?
Pholcus opilionoides (Schrank, 1781)?
Pholcus philangioides (Fuesslin, 1775)?
Spermophora senoculata (Dugès, 1836)?

Phrurolithidae

Phrurotimpus alarius (Hentz, 1847)
Phrurotimpus borealis (Emerton, 1911)
Scotinella minnetonka (Chamberlin & Gertsch, 1930)
Scotinella pugnata (Emerton, 1890)*
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<td>Giebel, 1869</td>
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<td><em>Dolomedes triton</em></td>
<td>(Walckenaer, 1837)</td>
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<td>Minnesota DNR 1995; Richman et al. 2012</td>
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<tr>
<td><em>Habronattus viridipes</em> (Hentz, 1846)</td>
<td></td>
<td>Griswold 1987; Ehlmann 2002; Ehlmann &amp; Boyd 1997</td>
</tr>
<tr>
<td><em>Hentzia mitrata</em> (Hentz, 1847)</td>
<td></td>
<td>Richman 1989; Richman et al. 2012</td>
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<td><em>Hentzia palmarum</em> (Hentz, 1832)</td>
<td></td>
<td>Heimer et al. 1984; Richman 1989</td>
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<tr>
<td><em>Lyssomanes viridis</em> (Walckenaer, 1837)*</td>
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<td>BugGuide #1243070</td>
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<tr>
<td><em>Maevia inclemens</em> (Walckenaer, 1837)</td>
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<td>Ehmann 2002; Ehlmann &amp; Boyd 1997</td>
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<tr>
<td><em>Marpissa formosa</em> (Banks, 1892)</td>
<td></td>
<td>Ehlmann 2002</td>
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<tr>
<td><em>Marpissa grata</em> (Gertsch, 1936)</td>
<td></td>
<td>Barnes 1958; Cutler 1971; Gertsch 1936; Ehlmann &amp; Boyd 1997</td>
</tr>
<tr>
<td><em>Marpissa lineato</em> (C. L. Koch, 1848)</td>
<td></td>
<td>Richman et al. 2012</td>
</tr>
<tr>
<td><em>Menemerus bivittatus</em> (Dufour, 1831)*</td>
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<td>Cutler 1990; Richman et al. 2012</td>
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<tr>
<td><em>Naphrys pulex</em> (Hentz, 1846)</td>
<td></td>
<td>Richman 1981; Richman et al. 2012</td>
</tr>
<tr>
<td><em>Neon nelli</em> Peckham &amp; Peckham, 1889</td>
<td></td>
<td>Cutler et al. 1975; Ehlman &amp; Boyd 1997</td>
</tr>
<tr>
<td><em>Paradomoetas fontana</em> Peckham &amp; Peckham, 1885</td>
<td></td>
<td>Cutler 1981; Ehlmann &amp; Boyd 1997; Minnesota DNR 1995</td>
</tr>
<tr>
<td><em>Peckhamia picata</em> (Hentz, 1846)</td>
<td></td>
<td>Cutler 1977; Richman et al. 2012</td>
</tr>
<tr>
<td><em>Peckhamia scorpionia</em> (Hentz, 1846)</td>
<td></td>
<td>University of Minnesota (## Ce 39.61)</td>
</tr>
</tbody>
</table>
Pelegrina exigua (Banks, 1892) Cutler 1977; Ehmann 2015 season—personal communication
Pelegrina insignis (Banks, 1892) Cutler & Jennings 1992; Ehmann & Boyd 1997; Heimer et al. 1984
Pelegrina montana (Emerton, 1891)* Richman et al. 2012
Pelegrina proterva (Walckenaer, 1837) Cutler 1981; Cutler & Jennings 1992; Ehmann 2002
Pellessis lapponicus (Sundevall, 1833)* Richman et al. 2012
Pellessis peninsularis Emerton, 1925 Richman et al. 2012
Phidippus apacheanus Chamberlin & Gertsch, 1929 Minnesota DNR 1995; Richman et al. 2012
Phidippus audax Banks, 1895 Edwards 2004
Phidippus borealis Banks, 1895 Edwards 2004
Phidippus cryptus Edwards, 2004 Edwards 2004
Phidippus insignarius C. L. Koch, 1846 Richman et al. 2012
Phidippus octopunctatus (Peckham & Peckham, 1883)* Richman et al. 2012
Phidippus otiosus (Hentz, 1846)^ Edwards 2004; Richman et al. 2012
Phidippus pius Scheffer, 1906 Minnesota DNR 1995
Phidippus purpuratus Keyserling, 1884 Edwards 2004; Heimer et al. 1984
Phidippus regius C. L. Koch, 1846^ Cutler 1977
Phlegra hentzi (Marx, 1890) Richman et al. 2012
Platycryptus undatus (DeGeer, 1778) Barnes 1958
Poultonella alboimmaculata (Peckham & Peckham, 1883)* Richman et al. 2012
Salticus scincus (Clerck, 1757)# Cutler 1973
Sassacus cyaneus (Hentz, 1846)^ Richman et al. 2012
Sassacus papenhoel Peckham & Peckham, 1895 Minnesota DNR 1995; Richman 2008
Sibianor aemulus (Gertsch, 1934) Gertsch 1934b; Heimer et al. 1984
Sitticus concolor (Banks, 1895) Prószyński 1973a Richman et al. 2012
Sitticus dorsatus (Banks, 1895)* Richman et al. 2012
Sitticus fasciger (Simon, 1880)# BugGuide #749285; Richman et al. 2012
Sitticus finschi (L. Koch, 1879) Heimer et al. 1984
Sittiflor florivola palustris (Peckham & Peckham, 1883) Cutler 1971; Ehmann 2002; Heimer et al. 1984
Sittiflor striatus (Emerton, 1911) Cutler 1971; Prószyński 1980
Synageles noxiosus (Hentz, 1850) Richman et al. 2012
Synageles occidentalis Cutler, 1987 Cutler 1987; Museum of Comparative Zoology (MCZ#24842, MCZ#24843)
Synomesyna formica Hentz, 1879 Richman et al. 2012
Talavera minuta (Banks, 1895) BugGuide #408080; Richman et al. 2012
Thiodina puerpera (Hentz, 1846)^ Richman et al. 2012
Tutelina elegans (Hentz, 1846) Richman et al. 2012
Tutelina formicaria (Emerton, 1891) Ehmann 2002; Richman et al. 2012
Tutelina hartii (Emerton, 1891) BugGuide #536384; Richman et al. 2012
Tutelina similis (Banks, 1895) Cutler 1981; Ehmann 2002; Ehman & Boyd 1997; Heimer et al. 1984
Zygoballus rufipes Peckham & Peckham, 1885 Richman et al. 2012

Segestriidae
Ariadna bicolor (Hentz, 1842)* University of Minnesota (#V Ce 16.3)—No collection data

Sicariidae
Loxosceles reclusa Gertsch & Mulaik, 1940^ Museum of Comparative Zoology (MCZ#52657); Weber 2002

Sparassidae
Heteropoda venatoria (Linneaus, 1767)^ Cutler 1973

Tetragnathidae
Glenognatha foxi (McCook, 1894)* Levi 1980
Leucage venusta (Walckenaer, 1841) Levi 1980
Meta ovalis (Gertsch, 1933) Levi 1980
Metallina curtisi Chamberlin & Ivie, 1941 Levi 1980
Pachygnatha autumnalis Marx, 1884* Dondale et al. 2003; Weber 2002
Pachygnatha clerckii Sundevall, 1823* Dondale et al. 2003
Pachygnatha dorothea McCook, 1884 Heimer et al. 1984
Pachygnatha tristriata C. L. Koch, 1845 Heimer et al. 1984
Pachygnatha xanthostoma C.L. Koch, 1845 Levi 1980
Tetragnatha caudata Emerton, 1884 Cutler 1971; Heimer et al. 1984
Tetragnatha dearmata Thorell, 1873 Levi 1981a
Tetragnatha elongata Walckenaer, 1842 Heimer et al. 1984
Tetragnatha extensa (Linneaeus, 1758)* Levi 1981a
Tetragnatha guatemalensis O. P. -Cambridge, 1758 Levi 1981a
Tetragnatha laboriosa Hentz, 1850 Cutler 1971; Denver Museum of Nature and Science (#ZA.9533)
Tetragnatha pallescens F.O.P. Cambridge, 1903 BugGuide #1454409 ; Levi 1981a
Tetragnatha straminea Emerton, 1884 Levi 1981a
Tetragnatha vermilformis Emerton, 1884* Levi 1981a
Tetragnatha versicolor Walckenaer, 1842 Heimer et al. 1984
Tetragnatha viridis Walckenaer, 1841 Heimer et al. 1984

Theridiidae
Arctachaea sp. (undescribed) BugGuide #1084981
Asagena americana (Emerton 1882) BugGuide #749287
Canalidion montanum (Emerton 1882) Levi 1957a
Coleosoma floridanum Banks 1900 Cutler 1973
Crustulina altera Gertsch & Archer 1942 Levi 1957b
Crustulina sticta (O. P. -Cambridge 1861) Levi 1957b
Cryptochoera rupicola (Emerton 1882)* Levi 1955
Dipoea nigra (Emerton 1882)

Enoplognatha caricis (Hickert 1876)

Enoplognatha intrepid (Sørensen 1898)

Enoplognatha marmorata (Hentz 1850)

Enoplognatha oavota (Clerck 1757)

Eurypis argentea Emerton 1882*

Eurypis funebris (Hentz 1850)

Eurypis pepini Levi 1954*

Eurypis saukea Levi, 1951

Hentziectypus globosus (Hentz, 1850)

Lasaeola prona (Menge, 1868)*

Latrodectus hesperus Chamberlin & Ivie, 1935^*

Latrodectus mactans (Fabricius, 1775)^*

Latrodectus variolus Walckenaer, 1837*

Neospintharus trigonum (Hentz, 1850)

Parasteatoda tabulata (Levi, 1980)

Parasteatoda tepidariorum (C. L. Koch, 1841)

Pholco mma hirsutum Emerton, 1882*

Rhomphaea fictilium (Hentz, 1850)

Robertus banksi (Kaston, 1946)*

Robertus eremophilus Chamberlin, 1928

Robertus fuscus (Emerton, 1894)

Robertus riparius (Keyserling, 1886)

Robertus spinifer (Emerton, 1909)*

Rugothodes sexpunctatus (Emerton, 1882)

Steatoda albomaculata (DeGeer, 1778)

Steatoda borealis (Hentz, 1850)

Steatoda triangulosa (Walckenaer, 1802)*

Theonoe stridula Crosby, 1906*

Theridion alabamensis (Gertsch & Archer, 1942)*

Theridion albium (Banks, 1895)

Theridion differens Emerton, 1882

Theridion frondeum (Hentz, 1850)

Theridion glaucescens Becker, 1879

Theridion hemerobium Simon, 1914

Theridion murarium Emerton, 1882

Theridion pictum (Walckenaer, 1802)

Theridula emerton Levi, 1954

Theridula opulenta (Walckenaer, 1841)

Thymoites minnesota Levi, 1964

Thymoites unimaculatus (Emerton, 1882)
Yunohamella lyrica (Walckenaer, 1841)

Theridiosomatidae

Heridiosoma gemmosum (L. Koch, 1877)

Thomisidae

Bassaniana utahensis (Gertsch, 1932)

Bassaniana versicolor (Keyserling, 1880)

Coriarachne brunneipes Banks, 1893*

Mecaphesa asperata (Hentz, 1847)

Mecaphesa celer (Hentz, 1847)

Misumena vatia (Clerck, 1757)

Misumenoides formosipes (Walckenaer, 1837)

Mecaphesa asperata (Hentz, 1847)

Mecaphesa celer (Hentz, 1847)

Misumena vatia (Clerck, 1757)

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Misumena vatia (Clerck, 1757)

Misumenoides formosipes (Walckenaer, 1837)
**DISCUSSION**

County-level distributions have also been assembled, but are not detailed here in the interest of space. A brief overview though provides a better understanding of how little is known about Minnesota’s spider fauna. A total of 472 species of the 492 with known occurrence in the state were represented by county-level data (95.9%). The number of species records in each of Minnesota’s 87 counties ranges from 1-172 with an average of 26.5 species per county. Twenty-one counties have records of 10 spider species or less and only four counties have records of over 100 species. Clearwater County (150) contains the Itasca Field Station associated with the University of Minnesota which served for the site of the most thorough Minnesota spider survey that could be found (Heimer et al. 1984). Hennepin (172) and Ramsey (135) Counties include the cities of Minneapolis and St. Paul respectively and this is where the University of Minnesota is located; this has certainly resulted in above average
collection efforts for those counties. Blue Earth County (152) is where the author resides and has focused collecting efforts.

Several notable species were collected by the author during the development of this checklist (and are deposited in the collection at Bethany Lutheran College); a few are highlighted here. The most significant record involved the collection of a female *Pholcus opilionoides* Schrank from a woodland on the campus of Bethany Lutheran College in Mankato; this represents one of the first records of this species in North America. The voucher specimen can be viewed on BugGuide ([http://bugguide.net/node/view/765731](http://bugguide.net/node/view/765731)). Surprisingly, more females were collected in Sandstone, MN (Pine County) during the summer of 2015. Additionally, a specimen of an undescribed member of *Arctachaeoa* (Theridiidae) was collected in June 2015 near Jessenland, MN ([http://bugguide.net/node/view/1084981/bgpage](http://bugguide.net/node/view/1084981/bgpage)) during a bioblitz with the U. S. Fish and Wildlife Service. A male *Sphodros niger* Hentz was collected during another bioblitz and was the first confirmed naturally occurring mygalomorph for the state. Several other collected specimens represented significant range expansions beyond that indicated in the literature: *Diplocephalus subrostratus* O. P-Cambridge, *Singa eugeni* Levi, *Anyphaena pectorosa* L. Koch, and *Parasteatoda tabulata* Levi to name a few.

The challenge that involved the genus *Latrodectus* Walckenaer is worthy of being detailed here. Bruce Cutler (1973) indicates that *L. hesperus* (Chamberlin & Ivie 1935) and *L. mactans* (Fabricius 1775) occur as accidental introductions in imports. Denning (1937) indicates a collection of three female *Latrodectus* with one identified by R. V. Chamberlain as *L. mactans*
*texanus*. The World Spider Catalog indicates synonymy of this name with *L. hesperus* which suggests this species may naturally occur. However, Levi (1959) indicates records of *L. variolus* Walckenaer, 1837 (as *L. curacaviensis* Muller 1776) from Wisconsin and South Dakota. He also indicates that the ranges of the other species do not approach Minnesota, suggesting that *L. variolus* is actually the most likely species to occur naturally in the state. Obviously, further research will need to be done to sort this out.

In conclusion, this checklist is intended to be a starting point for those wishing to know more about Minnesota’s spider fauna. New species have been added to the list regularly as a result of collecting efforts which suggests that while extensive, this list is far from complete. In addition to further survey work, an effort should be made to confirm the identities of specimens held at the University of Minnesota. Please direct any corrections to the author.

ACKNOWLEDGEMENTS

I am most grateful for all the support that I received during the development of this checklist. Special thanks must be given to Dr. William J. Ehmann of Mercy College who was very helpful with Salticidae, permitted me the opportunity to join him in the field a couple of times, and read early drafts of this paper. I am also thankful for the encouragement I received from Bruce Cutler (who also read an earlier draft), Ron Huber, Kevin Pfeiffer, Dr. Daniel Mott of Texas A&M International University, Sparky Stensaas, Larry Weber and all the helpful araneologists at BugGuide. Thanks also needs to go Ramsey Turner for all his library assistance and to Bethany
Lutheran College which has financially supported my research and given me time to work on it. Finally, thanks also must be expressed to my family who has collected spiders with me, supported me, and heard much more Latin from my mouth than they cared to. *Soli Deo Gloria.*

**APPENDIX--Omissions**

*Parazygiella dispar* (Kulczynski, 1885) – Records found in Gertsch 1964a and Levi 1974. Both of these authors suggested synonomy of *P. dispar* with *Zygiella nearctica* Gertsch 1964 which is the likely species for Minnesota according to published ranges (Dondale et al. 2003). In this checklist is is recorded as the latter.

*Bathyphantes nigrinus* (Westring, 1851) — Record found in University of Minnesota collection (#V Ce 27.1). This specimen was collected in Stillwater, MN on 15 July 1933. Due to the strictly Palearctic distribution of this species, it has been excluded at this time and assumed to be a misidentification.

*Mimetus sylepsicus* Hentz, 1832 — Records found in University of Minnesota collection (#V Ce 30.1, 30.2). These specimens were collected on 28-29 May 1934 in Itasca State Park. This species has a more southern distribution in North America and after conversations with Dr. Daniel Mott, it was concluded that they were likely misidentified. This species is omitted for now.

*Philodromus aureolus* (Clerck, 1757) — Numerous records found in University of Minnesota

*Admestina tibialis* (C. L. Koch, 1846) — Record found in Heimer et al. 1984. Richman et al. 2012 has a range map that suggest this record was incorrect. In this checklist the record has been assigned to the more likely *Admestina wheeleri* (Peckham & Peckham 1888).

*Habronattus agilis* (Banks, 1893) — Record found in Cutler 1977 and Ehmann & Boyd 1997. Richman et al. 2012 has a range map that indicates this species has a distribution along the Atlantic Coast of North America from Maine to North Carolina. This paper includes Cutler as an author and is assumed to be a correction of Cutler 1977. New Mexico State University has a specimen (#NMSUACA0001868) from 6 August 1977 collected by Cutler and is assumed to be the specimen in question. Ehmann has indicated his records were erroneous as well (personal communication).

*Neon plutonus* Gertsch & Ivie, 1955 — Record found in Richman & Cutler 1978. Richman et al. 2012 indicates possible synonomy with *N. ellamae* Gertsch & Ivie 1955 and indicates the latter has been recorded in Minnesota. It is assumed that this is a correction of the 1978 list.

*Phlegra fasciata* (Hahn, 1826) — Record found in Cutler 1977. Richman et al. 2012 which
includes Bruce Cutler in its list of authors does not include this Palearctic species in the North American fauna but does include *P. hentzi* (Marx, 1890); this is simply a taxonomic change.

*Crustulina guttata* (Wider, 1934) – Two records found in the University of Minnesota collection (#V Ce 26.44, V Ce 26.45). This species has a Palearctic distribution according to the World Spider Catalog and therefore these records likely represent misidentified specimens. This species is omitted for now.

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