

JUMPING SPIDERS ONLY

Notations Used

E	Endangered
T	Threatened
SC	Special Concern
N	None (location records maintained by DNR, in most cases)
N (X)	None, and probably extirpated from Minnesota (location records maintained by DNR, in most cases)
--	None (location records <i>not</i> yet maintained by DNR)
*	Change in scientific name accompanies change in status

CHANGE IN SCIENTIFIC NAME NOT ACCOMPANIED BY A CHANGE IN STATUS

<u>Old Scientific Name</u>	<u>New Scientific Name</u>	<u>Status</u>
<i>Metaphidippus arizonensis</i>	<i>Pelegrina arizonensis</i>	SC

CHANGE IN STATUS; STATUS SHEET PROVIDED

<u>Common Name</u>	<u>Scientific Name</u>	<u>Current Status</u>	<u>Proposed Status</u>
A Species of Jumping Spider	<i>Habronattus calcaratus maddisoni</i>	--	SC
A Species of Jumping Spider	<i>Habronattus viridipes</i>	--	SC
A Species of Jumping Spider	<i>Marpissa formosa</i>	--	SC
A Species of Jumping Spider	<i>Marpissa grata</i>	SC	N
A Species of Jumping Spider	<i>Tutelina formicaria</i>	SC	T

SPECIES STATUS SHEET

SCIENTIFIC NAME: *Habronattus calcaratus maddisoni*

COMMON NAME: A Species of Jumping Spider

CURRENT MINNESOTA STATUS: None

PROPOSED MINNESOTA STATUS: Special Concern

BASIS FOR PROPOSED MINNESOTA STATUS: Jumping spiders are a relatively easily surveyed and identified group of spiders, but studies of their distribution have been limited. *Habronattus calcaratus maddisoni* is a distinctive jumping spider with a central white abdominal band, a hook-like structure on the male's third leg, and characteristic genetics and courtship behavior. Its recorded range extends from the Cumberland Plateau north to Maine and west to the Great Lakes. Not previously known from Minnesota, *H. c. maddisoni* was discovered in St. Louis County in August 2010 under pin oak at the site of a proposed state park on the shore of Lake Vermillion; a second specimen was collected the same week in cattails at a nearby quarry. These discoveries extended the range of the species by 125 miles from the previous western-most record at Isle Royale, Michigan. Until further surveys are conducted more widely in the state, Special Concern designation for *Habronattus calcaratus maddisoni* is needed and reasonable.

SELECTED REFERENCES:

- Ehmann, W. J. 2011. Reconnaissance for State-Listed Jumping Spiders (Araneae: Salticidae) in St. Louis and Lake Counties, Minnesota. Final Report submitted to the Minnesota County Biological Survey, Minnesota Department of Natural Resources. 11 pp.
- Griswold, C.F. 1987. A revision of the jumping spider genus *Habronattus* F.O.P.—Cambridge (Araneal: Salticidal), with phenetic and cladistic analyses. University of California Publications in Entomology 107. University of California, Berkeley. 344pp.
- Richman, D.B., and Cutler, B. 1977. A list of jumping spiders (Araneae: Salticidae) of the United States and Canada. Peckhamia 1:82-109.

SPECIES STATUS SHEET

SCIENTIFIC NAME: *Habronattus viridipes*

COMMON NAME: A Species of Jumping Spider

CURRENT MINNESOTA STATUS: None

PROPOSED MINNESOTA STATUS: Special Concern

BASIS FOR PROPOSED MINNESOTA STATUS: Jumping spiders are a relatively easily surveyed and identified group of spiders, but studies of their distribution have been limited. *Habronattus viridipes* is a dark-colored, medium-sized jumping spider with a spotty eastern North American distribution and a western range limit in Minnesota. Several jumping spider surveys have been conducted in Minnesota over the past decade. While many species have been collected repeatedly at a wide variety of sites during these surveys, *Habronattus viridipes* has been found at only three locations: in 1996 at Kellogg-Weaver Dunes SNA, Winona County; in 2001 at Glacial Lakes State Park, Pope County, and in 2004 from Seven Sisters Preserve, Otter Tail County. Each of these sites are dominated by dry prairie habitat, which is itself a rare plant community within the state. Until further surveys are conducted more widely in the state, this limited distribution indicates that Special Concern designation for *Habronattus viridipes* is needed and reasonable at this time.

SELECTED REFERENCES:

- Ehmann, W. J. 2002. Conservation biology of special concern jumping spiders (Araneae: Salticidae) of Minnesota. Final Report submitted to the Natural Heritage and Nongame Research Program, Minnesota Department of Natural Resources. 11 pp.
- Ehmann, W. J., and B. E. Boyd. 1997. Surveys for proposed special concern jumping spiders of Minnesota. Final report submitted to the Minnesota Department of Natural Resources. Unpaged.
- Griswold, C.F. 1987. A revision of the jumping spider genus *Habronattus* F.O.P.—Cambridge (Araneal: Salticidal), with phenetic and cladistic analyses. University of California Publications in Entomology 107. University of California, Berkeley. 344pp.
- Richman, D.B., and Cutler, B. 1977. A list of jumping spiders (Araneae: Salticidae) of the United States and Canada. Peckhamia 1:82-109.

SPECIES STATUS SHEET

SCIENTIFIC NAME: *Marpissa formosa*

COMMON NAME: A Species of Jumping Spider

CURRENT MINNESOTA STATUS: None

PROPOSED MINNESOTA STATUS: Special Concern

BASIS FOR PROPOSED MINNESOTA STATUS: Jumping spiders are a relatively easily surveyed and identified group of spiders, but studies of their distribution have been limited. *Marpissa formosa* is a small, dark-colored jumping spider with a spotty eastern North American distribution and a northwestern range limit in Minnesota. Several jumping spider surveys have been conducted in Minnesota over the past decade. While many species have been collected repeatedly at a wide variety of sites during these surveys, *Marpissa formosa* has been found at only four locations: in 2001 at Uncas Dunes SNA, Sherburne County, in 2004 from Lake Carlos State Park, Douglas County, and in 2009 from the Cobb River WPA, Blue Earth County and at Woman Lake, Cass County. Until further surveys are conducted more widely in the state, this limited distribution indicates that Special Concern designation for *Marpissa formosa* is needed and reasonable at this time.

SELECTED REFERENCES:

- Barnes, R. D. 1958. North American jumping spiders of the subfamily Marpissinae (Araneae, Salticidae). *American Museum Novitates* 1867: 1-50.
- Ehmann, W. J. 2002. Conservation biology of special concern jumping spiders (Araneae: Salticidae) of Minnesota. Final Report submitted to the Natural Heritage and Nongame Research Program, Minnesota Department of Natural Resources. 11 pp.
- Ehmann, W. J., and B. E. Boyd. 1997. Surveys for proposed special concern jumping spiders of Minnesota. Final report submitted to the Minnesota Department of Natural Resources. Unpaged.
- Richman, D.B., and Cutler, B. 1977. A list of jumping spiders (Araneae: Salticidae) of the United States and Canada. *Peckhamia* 1:82-109.

SPECIES STATUS SHEET

SCIENTIFIC NAME: *Marpissa grata*

COMMON NAME: A Species of Jumping Spider

CURRENT MINNESOTA STATUS: Special Concern

PROPOSED MINNESOTA STATUS: None

BASIS FOR PROPOSED MINNESOTA STATUS: *Marpissa grata* is a Great Lakes endemic species, known only from Michigan and Minnesota. The species is associated with fresh water habitats, either wetlands, ponds or rivers. It is taken most frequently by sweeping sedges or other emergent vegetation. Jumping spider surveys have now documented *Marpissa grata* at 13 locations in 10 counties distributed widely in the state, including 6 new locations in 4 additional counties since the species was assigned Special Concern status in 1996. These results suggest that other populations will be found. Given this new information, Special Concern status is no longer needed or reasonable for this species.

SELECTED REFERENCES:

- Barnes, R. D. 1958. North American jumping spiders of the subfamily Marpissinae (Araneae, Salticidae). American Museum Novitates 1867: 1-50.
- Ehmann, W. J. 2002. Conservation biology of special concern jumping spiders (Araneae: Salticidae) of Minnesota. Final Report submitted to the Natural Heritage and Nongame Research Program, Minnesota Department of Natural Resources. 11 pp.
- Ehmann, W. J., and B. E. Boyd. 1997. Surveys for proposed special concern jumping spiders of Minnesota. Final report submitted to the Minnesota Department of Natural Resources. Unpaged.
- Richman, D.B., and Cutler, B. 1977. A list of jumping spiders (Araneae: Salticidae) of the United States and Canada. Peckhamia 1:82-109.

SPECIES STATUS SHEET

SCIENTIFIC NAME: *Tutelina formicaria*

COMMON NAME: A Species of Jumping Spider

CURRENT MINNESOTA STATUS: Special Concern

PROPOSED MINNESOTA STATUS: Threatened

BASIS FOR PROPOSED MINNESOTA STATUS: Minnesota represents the western range limit of *Tutelina formicaria*, which has been documented as sparsely distributed in low numbers in six states to the east. In Minnesota, *Tutelina formicaria* occurs in oak savanna - sand prairie habitat in association with characteristic grasses such as *Andropogon* and *Aristida*, and shows a close affinity for old seed pods of *Penstemon grandiflorus*, which are used as sites for building retreats, and particularly, for making egg sacs. Despite extensive jumping spider surveys conducted in Minnesota during the past decade, the species has been found at only two sites (Allison Savanna Nature Conservancy preserve and Cedar Creek Natural History Area) located within a 1.3 mile diameter area of each other in Anoka and Isanti Counties. Because of *Tutelina formicaria*'s very specific habitat requirements and limited distribution, designation as a Threatened species is needed and reasonable at this time.

SELECTED REFERENCES:

- Cutler, B. Manuscript in preparation on spiders associated with old seed pods of *Penstemon grandiflorus*.
- Ehmann, W. J. 2002. Conservation biology of special concern jumping spiders (Araneae: Salticidae) of Minnesota. Final Report submitted to the Natural Heritage and Nongame Research Program, Minnesota Department of Natural Resources. 11 pp.
- Kaston, B.J. 1981. The Spiders of Connecticut. Revised edition, Natural History Survey of Conn., Bull. 70. 1020pp.
- Richman, D.B. and B. Cutler. 1971. A list of the jumping spiders (Araneae: Salticidae) of the United States and Canada. *Feckhamia* 1:82-109.