

Type Specimens of Araneae Held in the William Morton Barrows Spider Collection¹

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ABSTRACT. A list of the type specimens held in the William Morton Barrows Spider Collection at The Ohio State University is presented for the first time. A total of 26 holotypes and 14 allotypes are currently held in the collection. Of the 28 named taxa (27 Barrows names) represented by primary types in this collection, 10 have been placed in synonymy by subsequent authors. Thus a total of 18 currently valid species are represented by primary types. An additional 113 paratype specimens representing these species and an additional 20 taxa are present.

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INTRODUCTION

The William Morton Barrows spider collection is currently housed in the Acarology section of The Ohio State University Entomology Collection at the Museum of Biodiversity in Columbus, OH. The majority of the types held in this collection are of species described by William Morton Barrows (1883-1946) in a series of papers between 1919 and 1945. Most of the type localities are from Ohio (Barrows 1919; Barrows 1943; Barrows and Ivie 1942), Florida (Ivie and Barrows 1935) and the Great Smoky Mountains National Park (Barrows 1940; Barrows 1945).

A total of 26 holotypes and 14 allotypes are currently held in the collection. Of the 28 named taxa of Araneae (27 Barrows names) represented by primary types in this collection, 10 have been placed in synonymy by subsequent authors. Thus a total of 18 currently valid species are represented by primary types. An additional 113 paratype specimens representing these species and an additional 20 taxa are present.

Some of the localities mentioned by William Barrows in the original type descriptions are ambiguous. For six species the locality "Rockbridge, Ohio" is designated. The problem with this locality name is that on other Barrows labels there are a variety of places near Rockbridge that have been given that name. This is inconsistent. For example, Cantwell Cliffs (a distinct locality) is, on some labels, referred to by its distinctive name, but on other labels referred to merely as "Rockbridge" or "Cantwell Cliffs, Rockbridge." Cantwell Cliffs (39.54 N, 82.58) is approximately 6.6 km SW of the town of Rockbridge (39.58 N, 82.52 W). There is also a geologic feature called "Rockbridge" (39.57 N, 82.49 W) which was a popular picnic spot in Barrows' time (it is now an Ohio State Nature Preserve) that is 3.1 km ESE from the town. Another confusion arises regarding the locality for the species *Cybaeus silicis* Barrows, 1919; "Bainbridge, Ohio." There are actually two towns that were in existence at the time of the description which bear this name. These localities are not close to each other; one is in Ross County and the other is in Geauga County,

297 km apart. I have been unable to locate any of Barrows' field notes or journals in The Ohio State University departmental records that might clarify this confusion. The Ross County locality is much closer to other collecting localities frequented by Barrows and contains appropriate habitat matching that in the published description.

LIST OF TYPE SPECIMENS

Amaurobiidae

Coras cavernorum Barrows, 1940

1 F holotype Waynesville, small cave 6 mi W, 3500 ft, North Carolina. Collected 30 September 1936 by Art Stupka.

Clubionidae

Clubiona rhododendri Barrows, 1945

1 M 1 F holotype, allotype Newfound Gap, Great Smoky Mt. Nat. Pk., Tennessee. Collected 16 September 1937. Collector is unknown but label is in W. M. Barrows handwriting.

The original description mentions 3 males and 2 females and the epigynum is dissected from the female, an additional label mentions "see slide 20, Smokies, Sept 18, 1937" but the slide and other specimens in the type series are missing.

Corinnidae

Castianeira stupkai Barrows, 1940

2 M holotype, paratype Gatlinburg, in *Andropogon* field, Tennessee. Collected 25 June 1936. Collector is unknown but label is in W. M. Barrows handwriting.

These 2 specimens are in the same vial, unsorted.
1 F allotype Gatlinburg, Tennessee. Collected 27 April 1937 by Glen Sheets.

Cybaeidae

Cybaeus silicis Barrows, 1919 [current name *Cybaeus giganteus* Banks, 1892]

1 M 1 F holotype, allotype Bainbridge, Ohio. Collected 17 August 1917 by W. M. Barrows

Dictynidae

Cicurina alpicora Barrows, 1945

1 M holotype Spence Field Great Smoky Mt. Nat. Pk.,

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Tennessee. Collected 30 September 1937. Label is in W. M. Barrows' handwriting and was presumably collected by him or Art Stupka.

Gnaphosidae

Drassodes auriculoides Barrows, 1919

1 F holotype Rockbridge, Ohio. Collected 30 September 1917 by W. M. Barrows. {"one female under a board in a high dry pasture, Rockbridge, Ohio, September 30, 1917"}

Micaria gertschi Barrows and Ivie, 1942

The holotype male is held in collections of the American Museum of Natural History.

1 M 6 F (paratypes) Prairie N.W. of Marion, Ohio. Collected 13 June 1941 by W. M. Barrows.

Prosthesima lacca Barrows, 1919 [current name *Zelotes laccus* (Barrows, 1919)]

1 M holotype Columbus, Ohio. Collected 10 June 1917 by W. M. Barrows. The specimen is disarticulated.

9 M 5 F (paratypes) Rockbridge, Ohio. Females collected on 5 June 1922 and males collected on 1 June 1925 by W. M. Barrows.

Prosthesima lutea Barrows, 1919 [current name *Litopyllus temporarius* Chamberlin, 1922]

1 M holotype Sugar Grove, Ohio. Collected 01 July 1915 by W. M. Barrows.

1 F (paratype) Sugar Grove, Ohio. Collected 26 October 1918 by W. M. Barrows.

Zelotes hentzi Barrows, 1945

2 M holotype, paratype Rockbridge, Ohio. Collected 01 July 1916 by W. M. Barrows.

7 F allotype, paratypes Rockbridge, Ohio. Collected 22 July 1938 by W. M. Barrows

Presumably these are the types but additional females from Great Smoky Mountains National Park are not in the vials.

Leptonetidae

Leptoneta coma Barrows, 1940

1 M 4 F holotype, allotype and paratypes Gatlinburg, sifting leaves near the river, Tennessee. Collected 21 June 1936, label in W. M. Barrows' handwriting, presumably collected by him. These specimens are in one vial, unsorted. The original description mentions a total of 2 males and 7 females.

Linyphiidae

Grammonota vittata Barrows, 1919

1 M 1 F holotype, allotype Hebron, Ohio. Collected 3 October 1918 by W. M. Barrows.

Horcotes uncinatus Barrows, 1945

1 M 1 F holotype, allotype Newfound Gap, Great Smoky Mt. Nat. Pk. Collected 28 January 1943 by Art Stupka and W. M. Barrows. Note that the separate date label in the vial [24 March 1943] does not correspond to the published collecting date and may be a determination date.

Lepthyphantes ornithes Barrows, 1940 [current name *Taranucnus ornithes* (Barrows, 1940)]

1 M 2 F holotype, allotype, paratype Sugar Grove, Ohio. Collected 26 October 1918 by W. M. Barrows. There are two females in the vial and the second is probably the paratype female mentioned in Barrows' original description as from Little River, Great Smoky Mountain National Park, Tennessee, from 3 September 1936 but there is no label with that data in the vial. A separate typed label by P. J. van Helsdingen 1970 identifies these specimens as the "TYPE-SERIES 2F 1M."

Microneta olivena Barrows, 1940 [current name *Meioneta angulata* (Emerton, 1882)]

1 M holotype Camp No. 1 near Gatlinburg, Great Smoky Mt. Nat. Pk., Tennessee. Collected March 1937, label in W. M. Barrows' handwriting and presumably collected by him. Published description says "one male, one female" but the female (allotype) is missing.

Microneta tennapex Barrows, 1940 [current name *Centromerus tennapax* (Barrows, 1940)]

1 M 1 F holotype, allotype Summit Clingman's Dome, Great Smoky Mt. Nat. Pk. Collected 19 March 1937, label in W. M. Barrows' handwriting and presumably collected by him. The original description mentions "several males and several females" but no other specimens have been located and no types were designated by Barrows.

Sisicottus hibernus Barrows, 1945 [current name *Carorita hiberna* (Barrows, 1945)]

1 M holotype Mingus Creek, Great Smoky Mt. Nat. Pk. Collected 01 February 1943 by W. M. Barrows and A. Stupka.

Souessa nasuta Barrows, 1943 [current name *Goneatara nasuta* (Barrows, 1943)]

1 M holotype Prairie N.W. of West Jefferson, Ohio. Collected 28 September 1923 by W. M. Barrows.

1 F allotype Prairie N.W. of West Jefferson, Ohio. Collected 19 October 1924 by W. M. Barrows.

Tapinocyba emertoni Barrows and Ivie, 1942

2 M holotype, paratype Rockbridge, Ohio. Collected 23 March 1928 by W. M. Barrows. These two males were together in a vial with the "type" label and are thus confused.

1 M 3 F paratypes Cantwell Cliffs, Ohio. Collected 06 November 1938 by W. M. Barrows.

Philodromidae

Ebo contrastus Sauer and Platnick, 1972

1 F allotype Fort Myers, Florida. Collected 28 January 1941 by W. M. Barrows.

Salticidae

Phidippus hirsutus Barrows, 1919 [current name *Phidippus mystaceus* (Hentz, 1846)]

1 M holotype Cantwell Cliffs, Ohio. Collected 4 October 1914 by W. M. Barrows.

Phidippus hirsutus Barrows, 1919 [current name *Phidippus princeps* (Peckham and Peckham, 1883)]

1 F allotype Rockbridge, Ohio. Collected 6 July 1913 by W. M. Barrows.

Pseudicius lecontei Barrows, 1940 [current name *Sassacus papenboei* (Peckham and Peckham, 1895)]

1 M holotype Top of LeConte [Mt. LeConte, Great Smoky Mt. Nat. Pk.], Tennessee. Collected August 1937 by W. M. Barrows.

Sassacus smaragdinus Barrows, 1919 [current name *Sassacus papenboei* (Peckham and Peckham, 1895)]

1 F holotype Rockbridge, Ohio. Collected 08 July 1918 by W. M. Barrows.

Sitticus cursor Barrows, 1919

1 M holotype Columbus, Ohio. Collected 23 September 1917 by W. M. Barrows.

2 F (allotype, paratype) allotype Buckeye Lake, Ohio. Collected 24 June 1917 by W. M. Barrows. Paratype Columbus, Ohio. Collected 24 June 1918 by W. M. Barrows. These two female specimens are combined in one vial.

Theridiidae

Dipoena munda Barrows and Ivie, 1942 [current name *Euryopsis quinquemaculata* Banks, 1900]

2 M holotype, paratype Rockbridge, Ohio. Collected 06 June 1922 by W. M. Barrows

2 F allotype, paratype Cantwell Cliffs, Ohio. Collected 01 June 1925 by W. M. Barrows

All four specimens are unsorted in the same vial.

Theridium lowriei Barrows, 1945 [current name *Theridium aurantium* Emerton, 1915]

1 F holotype Mt. LeConte heath bald quad 6500 ft, Sevier County, Tennessee. Additional label says that the cleared epigynum was mounted on "slide number 24" which is missing.

Theridium sex-setosum Barrows, 1940 [current name *Graphomoa theridoides* Chamberlin, 1924 {Linyphiidae}]

1 M holotype Headquarters area, Great Smoky Mt. Nat. Pk., Tennessee. Collected 12 June 1939 by W. M. Barrows.

1 F paratype Cades Cove, Great Smoky Mt. Nat. Pk., Tennessee. Collected 09 August 1936 by Art Stupka.

Thomisidae

Oxyptila Marshalli Barrows, 1919 [current name *Oxyptila modesta* (Scheffer, 1904)]

1 M holotype Sugar Grove, Ohio. Collected 11 September 1917 by W. M. Barrows.

ADDITIONAL PARATYPE MATERIAL

These specimens were either examined by the author of the species or were explicitly labeled as "paratypes." They are in addition to any paratypes mentioned in the above list. They were not, in every case, listed by the author in the type description series. For brevity only

the names and sexes are included here.

Agelenidae *Agelenopsis callida* Gertsch [I cannot find this name published] (2 M 3 F)

Ctenidae *Ctenus capitosus* Gertsch, 1935 (1 M)

Cyrtachenidae *Myrmekiaphia torreyi* Gertsch and Wallace, 1936 (8 F)

Gnaphosidae *Callilepis suwaneus* Gertsch [I cannot find this name published] (1M, 1F)

Gnaphosidae *Drassyllusalachua* Platnick and Shadab, 1982 (2 M 1 F)

Gnaphosidae *Drassyllus creolus* Chamberlin and Gertsch, 1940 (1 M)

Gnaphosidae *Micaria seminola* Gertsch, 1942 (1 F)

Gnaphosidae *Prosthesima lacca* Barrows, 1919 (15 M 9 F)

Gnaphosidae *Zelotes hentzi* Barrows, 1945 (4 M 4 F)

Hahniidae *Habnia cinerea seminola* Gertsch, 1934 (1 M 18 F)

Linyphiidae *Lepthyphantes ornithes* Barrows, 1940 (1 F)

Linyphiidae *Souessa nasuta* Barrows, 1943 (1 M 3 F)

Linyphiidae *Grammonota chamberlini* Ivie and Barrows, 1935 (3 M 1 F)

Lycosidae *Arctosa sanctae-rosae* Gertsch and Wallace, 1935 (1M)

Lycosidae *Lycosa osceola* Gertsch and Wallace, 1935 (1 F)

Philodromidae *Philodromus barrowsi* Gertsch, 1934 (1 M)

Salticidae *Phidippus altanus* Gertsch, 1934 (1 M 1 F)

Theridiidae *Theridium arcadicum* Gertsch and Archer, 1942 (1 F)

Theridiidae *Theridium paradisiacum* Gertsch and Archer, 1942 (2 F)

Theridiidae *Theridium serenoae* Gertsch and Archer, 1942 (1 F)

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