

An Annotated List of the Spiders of Indiana¹

THOMAS A. PARKER, Purdue University

Introduction

The history of Indiana araneology began in 1847 when Nicholas Marcellus Hentz, the Father of American Araneology, described *Agalena naevia* from Indianapolis (29). Since that time many have contributed to the list of spiders of Indiana. Notable among these contributions are the works of Fox (25), Banks (2), and Elliott (20, 21, 22).

Dr. William H. Fox published the first list of Indiana spiders (25), which was based on a collection of a chemistry professor at Purdue University, Mr. Frederick C. Test. This list included 79 species of spiders in what would today be 16 families, although family names were not used in this list.

Nathan Banks published a preliminary list of Indiana spiders in 1907 (2). This work included keys to the families and genera of spiders and, in addition, a list of species belonging to other arachnid orders. The list of spiders included 148 species found in 16 families, two species of which were described as new to science. The list was based on spiders collected by W. S. Blatchley, Mel T. Cook of Greencastle, W. J. Moenkhaus of Huntingburg, and A. M. Banta who collected spiders in Indiana caves.

In 1930 the late Dr. Frank R. Elliott published on spiders of a beech-maple forest near Richmond, Indiana (20). Combining the records of Banks with newly collected material and his beech-maple study, Elliott published a list of Indiana spiders in 1932 (21). This list contained 218 species of spiders found in 20 families.

Elliott again published a list of Indiana spiders in 1953 (22). It was based on records in the literature and newly collected material. The work of Lowrie (38, 39) on the spiders of the Chicago area dunes greatly contributed to the records of Indiana spiders. Using these records and others, Elliott assembled a list containing 303 species of spiders found in 21 families.

No major studies of the spiders of Indiana have been published since Elliott's 1953 list. This paper, then, will enlarge, correct, and update the list of Indiana spiders.

The List

The present list of Indiana spiders contains 378 species of spiders found in 29 families. The families are arranged following the system used by Kaston (32). The genera are alphabetically arranged in the families and likewise the species in the genera. Nomenclature generally follows

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that used by Kaston. Synonyms are included beneath the accepted scientific name in cases where name changes have occurred within the last twenty years. The species are numbered consecutively.

Collection records are arranged by county with the oldest record preceding all others. The counties are in bold-faced type. Usually the locality is given in parenthesis, followed by citations in which the record was found. In instances where no locality was given in the literature or where recent collectors gave no specific locality on their labels, just the citation or date collected and collector's initials are included in the parenthesis. If the record is a recent one, the collection dates and collector's initials are included. Names of collectors may be found in Appendix I.

Many of the localities recorded in the older publications no longer exist, having been incorporated into neighboring cities. Other names appearing in the literature were local names and were not formally recognized. Appendix II enables the reader to locate such places more accurately. Also included in this appendix are a few localities visited by the author or his colleagues for which a more specific geographical description was deemed necessary.

The writer's spider collection is housed in the Entomology Department at Purdue University. All identifications of recent collections were made by the writer. Some verifications were obtained from araneologists in the United States and Canada. Such determinations are credited to these men individually in the text. This list is based on records from the literature and the collection of the writer. This collection represents spiders collected during a three-year study of spiders along the Wabash and Tippecanoe Rivers, spiders sent for determination through the Cooperative Extension Service, and specimens collected by students and staff of the Entomology Department at Purdue University.

ORDER *Araneida*

Suborder Orthognatha

FAMILY *Atypidae*

1. *Atypus milberti* (Walckenaer), 1837
Crawford (Wyandotte Cave, Sept. 8, 2, 21, 22); Posey (New Harmony, 2, 21, 22); INDIANA (49); Warren (South Pine Creek, May 5, 1968, GRF)

FAMILY *Ctenizidae*

2. *Aptostichus flavipes* Petrunkevitch, 1925
Lawrence (Mitchell, 50, 51, 22)

Petrunkevitch (51) reported this species in his Catalogue of American Spiders, Part 1, not in his synonymic index (49), as Elliott (22) has indicated.

3. *Pachylomerides audouini* (Lucas), 1836
Floyd (Floyd's Knobs, 45); Harrison (Corydon, May 12, 1968, CB)

The specimen from Harrison County was sent to the writer by Jack Washburn, County Agent. It was found in the driveway at the home of Cova Bates.

Suborder Labidognatha

FAMILY Dysderidae

4. *Dysdera crocata* C. L. Koch, 1839
Whitley (Columbia City, *Aug. 28, 1967*, RLG); **Cass** (Logansport, *Mar. 30, 1967*, TH)

FAMILY Segestriidae

5. *Ariadna bicolor* (Hentz), 1842
Tippecanoe (Lafayette, 25, 22); **Crawford** (Wyandotte, *Apr. 17, 2, 21, 22*); **Lawrence** (Mitchell, *Apr. 2, 2, 21, 22*); **Parke** (Mecca, *Apr. 27, 2, 21, 22*); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Porter** (Valparaiso, 21, 22)

Elliott (22) listed this species from Wyandotte Cave. The original record of Banks (2) was from the town of Wyandotte, not the cave.

FAMILY Scytodidae

6. *Scytodes thoracica* (Latrielle), 1804
Wayne (Richmond, 20, 21, 22); **White** (Brookston, *Apr. 22, 1968*, TAP); **Tippecanoe** (West Lafayette, *May 16, 1968*, TAP)

FAMILY Loxoscelidae

7. *Loxosceles reclusa* Gertsch & Mulaik, 1940
Gibson (Princeton, 46); **Harrison** (Bradford, *Oct. 14, 1967*, TAP); **Posey** (Mount Vernon, *Jan. 19, 1968*, TAP; Poseyville, *May 23, 1968*, TAP); **Clark** (Jeffersonville, *Mar. 28, 1968*, TAP); **Knox** (Bruceville, *Mar. 18, 1968*, RED); **Vanderburgh** (Evansville, *May 28, June 3, 1968*, TAP); **Dubois** (Jasper, *June 26, 1968*, DJM)

FAMILY Pholcidae

8. *Pholcus phalangioides* (Fuesslin), 1775
Wayne (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Tippecanoe** (West Lafayette, *June 20, 1966*, TAP)
9. *Spermophora meridionalis* Hentz, 1841
Tippecanoe (Ross Biological Reserve, 5)

FAMILY Theridiidae

10. *Asagena americana* Emerton, 1882
Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5; Merritt's Pine Plantation, *July 11, 1967*, RWM); **Crawford** (Wyandotte, *Apr. 17, 2, 21, 22*); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22)
11. *Conopistha rufa* (Walckenaer), 1841
Argyrodes trigonum (Hentz), 1850
Monroe (Mayfield's Cave, 4, 22; Twin Cave, 4, 21)

The Twin Cave record of Banks is from a specimen sent to him by Banta and probably is Banta's "Lower Twin Cave at Mitchell" which is in Lawrence County.

12. *Crustulina altera* Gertsch & Archer, 1942

C. guttata: (Emerton), 1882 (nec *Theridion guttatum* Wider, 1834)
Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22); Tippecanoe (Ross Biological Reserve, 5)

Elliott (21, 22) listed *Crustulina guttata* (Wider). Willis J. Gertsch considers our species separate from the European *guttata* (Wider), hence the name *altera*. Kaston (32), page 75, says, "In general appearance and structure of the genitalia this species [*C. altera*] closely resembles *guttata* (Wider), with which, in fact, it may be identical, although Dr. Gertsch thinks not."

13. *Ctenium pumilus* (Emerton), 1909

Wayne (Richmond, 20, 21, 22)

14. *Ctenium riparius* (Keyserling), 1886

Knox (May 26, 2, 21, 22); INDIANA (49); Wayne (Richmond, 21, 22); Porter (Ogden Dunes, 39, 22)

15. *Enoplognatha marmorata* (Hentz), 1850

Marion (Indianapolis, 30, 22); Tippecanoe (Lafayette, 25)

16. *Euryopsis argentea* Emerton, 1882

Porter (Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); Tippecanoe (Ross Biological Reserve, 5)

17. *Euryopsis limbata* (Walckenaer), 1841

E. funebris (Hentz), 1850

Tippecanoe (Lafayette, 25, 22); Posey (New Harmony, June 4, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); LaPorte (Smith, 39, 22); Fountain (Attica, Sept. 7, 1967, TAP)

18. *Latrodectus mactans* (Fabricius), 1775

Tippecanoe (Lafayette, 25, 22); Crawford (Wyandotte, Sept. 9, 2, 21, 22, 35); Lawrence (Mitchell, July 15, 2, 22); Dubois (Huntingburg, 2, 21, 22); Jennings (North Vernon, Sept. 14, 2, 21, 22); Martin (Shoals, Apr. 22, 2, 21, 22, 35); Floyd (New Albany, May 5, 2, 21, 22); Clark (Charlestown, HS, 35)

Banks (2) collected this species at Wyandotte, not in Wyandotte Cave, as Elliott (22) has indicated.

19. *Latrodectus variolus* Walckenaer, 1837

Putnam (Greencastle, 2, 21, 22, 42); Porter (Dunes Acres, 38, 39, 42; Ogden Dunes, 39, 42); Brown (Aug. 10, 1967, May 1, 1968, JFF)

Levi (35) synonymized *Latrodectus variolus* with *L. mactans*. Actually what is now known as *L. variolus* was included in Levi's records of *L. curacaviensis*. McCrone and Levi (42) showed that *L. variolus* is a valid species based on coloration and ecology. Therefore the records

listed for *Latrodectus curacaviensis* for Indiana in Levi's paper are actually *L. variolus* and are herein listed as such.

20. *Lithyphantes albomaculatus* (DeGeer), 1778
Porter (Dunes Acres, 38, 39; Ogden Dunes, 39)
21. *Steatoda borealis* (Hentz), 1850
Tippecanoe (Lafayette, 25, 22; Americus, Aug. 1, 1967, TAP); Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22); Benton (Otterbein, Apr. 29, 1968, JOS); Pulaski (Winamac, June 16, 1966, Aug. 22, 1967, TAP); Vermillion (Clinton, July 14, 1966, TAP); Fulton (Rochester, Aug. 29, 1967, TAP)
22. *Teutana grossa* (C. L. Koch), 1838
Tippecanoe (Ross Biological Reserve, 5)
23. *Teutana triangulosa* (Walckenaer), 1802
Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); Marion (Indianapolis, Oct. 15, 1967, TAP)
24. *Theridion alabamense* Gertsch & Archer, 1942
T. cinereum Emerton, 1913, (*cinereum* preoc. by Thorell, 1875)
Lake (Miller, 53; Pine, 53); Porter (Ind. Dunes State Park, 53); LaPorte (Smith, 39, 22)
25. *Theridion differens* Emerton, 1882
Marshall (Arlington, June 10, 2, 21, 22); Starke (Bass Lake, June 17, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Brown (Nashville, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); Tippecanoe (Americus, June 23, 1966, TAP)
26. *Theridion frondeum* Hentz, 1850
Knox (Vincennes, July 10, 2, 21, 22); Posey (Grand Chain, June 3, 2, 21, 22; Mount Vernon, Aug. 17, 18, 1966, June 8, 1967, July 27, 1967, TAP), INDIANA (49), Lake (Hessville, 53; Liverpool, 53); LaPorte (Otis, 53; Smith, 39, 22; LaPorte, June 19, 1968, TAP); Porter (Woodville, 53; Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); Wayne (Richmond, 20, 21, 22, 39); Tippecanoe (Ross Biological Reserve, 5; Americus, Aug. 1, 1967, TAP); Carroll (Delphi, July 6, 1966, TAP); Huntington (Huntington, June 29, 1966, TAP); Fountain (Attica, July 25, 28, 1967, TAP); Cass (Logansport, Aug. 3, 1967, TAP); Vermillion (Clinton, July 13, 14, 1966, July 20, 1967, TAP); Sullivan (Merom Station, July 20, 21, 1966, TAP); Gibson (Mount Carmel, July 18, 1967, TAP)
27. *Theridion glaucscens* Becker, 1879
T. spirale Emerton, 1882
Lake (Pine, May 25, 2, 53, 21, 22); Porter (Ind. Dunes State Park, 53); Tippecanoe (Ross Biological Reserve, 5; Americus,

- June 23, 1966, Aug. 1, 1967, TAP); **Huntington** (Huntington, June 29, 1966, Aug. 15, 1967, TAP); **Fulton** (Rochester, June 6, 7, 1966, Aug. 29, 1967, TAP); **Pulaski** (Winamac, June 15, 1966, Aug. 22, 1967, TAP); **Cass** (Logansport, July 6, 1966, Aug. 3, 1967, TAP); **Vermillion** (Clinton, July 20, 1967, TAP); **Gibson** (Mount Carmel, July 18, 1967, TAP)
28. *Theridion lyricum* Walckenaer, 1841
T. lyra Hentz, 1850
T. kentuckyense Emerton, 1909
Monroe (Mayfield's Cave, 2, 4, 21, 22; Twin Cave, 2, 21, 22; Truett's Cave, 4, 22); **INDIANA** (49)
29. *Theridion murarium* Emerton, 1882
Tippecanoe (Lafayette, 25, 22; West Lafayette, June 18, 1968, TAP); **INDIANA** (49)
30. *Theridion pennsylvanicum* Emerton, 1913
Wayne (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22)
31. *Theridion porteri* Banks, 1897
Owen (Porter's Cave, 1, 2, 3, 6, 21, 22); **Monroe** (Truett's Cave, 1, 2, 6, 4, 21; Mayfield's Cave, 4, 44, 21, 22); **INDIANA** (49)
- Blatchley (6) receives credit for a Truett's Cave record because he states, on page 204, "This species was also noted in the first room of Truett's Cave—W.S.B."
- The date of the description of this species should be 1897, not 1896, as Banks (2, 3) has indicated. Banks described *Theridion porteri* in the same publication as the description of *Tegenaria cavicola*. The reader is referred to a discussion of the date change under *Tegenaria cavicola*.
32. *Theridion punctosparsum* Emerton, 1882
Pulaski (Winamac, June 16, 1966, TAP)
33. *Theridion rupicola* Emerton, 1882
LaPorte (Smith, 39, 22)
34. *Theridion unimaculatum* Emerton, 1882
LaPorte (Smith, 39, 22)
- Elliott (22) copied Lowrie's record incorrectly. The record should have been *Theridion unimaculatum*, not *T. albomaculatum* as Elliott has indicated. *T. albomaculatum* occurs from Georgia, Texas, and Florida, south to Brazil.
35. *Theridion tepidariorum* C. L. Koch, 1841
Marion (Indianapolis, 30, 22); **Tippecanoe** (Lafayette, 25, 22; Americus, June 23, 1966, TAP; West Lafayette, June 20, Aug. 10, 1966, TAP); **Kosciusko** (2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Wayne** (Richmond, 21, 22); **Porter** (Valparaiso, 21, 22); **LaPorte** (Smith, 39, 22); **Brown** (Brown Co. State Park, Sept. 13, 1966, TAP); **Fulton** (Rochester, July 27, 1967, TAP)
36. *Theridion zelotypum* Emerton, 1882
Fountain (Attica, Aug. 11, 25, 1967, TAP)

37. *Theridula opulenta* (Walckenaer), 1841
Wayne (Richmond, 20, 21, 22)
38. *Ulesanis americana* Emerton, 1882
LaPorte (Smith, 39)

FAMILY Nesticidae

39. *Nesticus carteri* Emerton, 1875
Harrison (Bradford Cave?, 23, 47, 48, 2, 21, 22); Owen (Porter Cave, 6, 2, 21, 22); Monroe (Coon Cave, 6, 2, 21, 22; Mayfield's Cave, 4, 22; Truett's Cave, 4, 22); Crawford (Marengo Cave, 6, 2, 21, 22); INDIANA (49)

The Bradford Cave record for this species will always remain dubious. Emerton (23) says, "A cocoon collected by Mr. Packard, from Bradford Cave, Ind., contains young, which had passed their second moult, probably of this species."

Packard (47) states, ". . . while in the Bradford Cave occurred a *Nesticus* thought by Mr. Emerton to be identical with *Nesticus Carteri*."

Packard (48) does not accept the Bradford Cave record of *Nesticus carteri* Emerton as a valid one, for on page 83 he lists, "*Nesticus carteri* Emerton, Amer. Naturalist, ix, May, 1875. Carter Caves, Kentucky."

FAMILY Linyphiidae

40. *Bathyphantes canadensis* (Emerton), 1882
Wayne (Richmond, 21, 22)
41. *Bathyphantes concolor* (Wider), 1834
Fulton (Rochester, July 27, Sept. 16, 1967, TAP)
42. *Bathyphantes nigrinus* (Westring), 1861
Tippecanoe (Lafayette, 25, 22); Monroe (Mayfield's Cave, 4, 22); Wayne (Richmond, 20, 21, 22, 39); Porter (Dunes Acres, 38, 39, 22)
43. *Bathyphantes pallida* (Banks), 1892
Diplostyla nigrina Emerton, 1881 (nec *Linyphia nigrina* Westring)
Tippecanoe (Americus, Sept. 7, 1967, July 4, 1968, TAP); Fountain (Attica, Aug. 11, 1967, TAP); Fulton (Rochester, Sept. 16, 1967, TAP)
44. *Bathyphantoides brevis* (Emerton), 1911
Fountain (Attica, Aug. 11, 1967, TAP); Fulton (Rochester, Sept. 16, 1967, TAP)
45. *Centromerus cornupalpis* (O.P.-Cambridge), 1875
Wayne (Richmond, 20, 21, 22)
46. *Centromerus latidens* (Emerton), 1882
Spencer (Santa Claus, Apr. 4, 1966, RWM)
47. *Florinda coccinea* (Hentz), 1850
Sullivan (Merom Station, July 20, 1966, TAP)
48. *Frontinella pyramitela* (Walckenaer), 1841
LaPorte (Smith, 39, 22); Tippecanoe (Ross Biological Reserve,

- 5); **Brown** (Brown Co. State Park, *Sept. 13, 1966*, TAP); **Pulaski** (Winamac, *Aug. 22, 1967*, TAP); **Carroll** (Pymont, *July 28, 1968*, RWM)
49. *Lepthyphantes nebulosa* (Sundevall), 1830
Tippecanoe (Americus, *Aug. 10, 1967*, TAP)
50. *Lepthyphantes zebra* (Emerton), 1882
Wayne (Richmond, 20, 21, 22)
51. *Linyphia clathrata* Sundevall, 1830
Wayne (Richmond, 20, 21, 22, 39); **Porter** (Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22)
52. *Linyphia maculata* Emerton, 1909
LaPorte (Smith, 39, 22); **Cass** (Logansport, *July 6, 1966*, TAP)
53. *Linyphia marginata* C. L. Koch, 1834
Tippecanoe (Lafayette, 25, 22; *Sept. 2, 1966*, TAP); **Marshall** (Arlington, *June 10, 2, 21, 22*); **Crawford** (Wyandotte, *Apr. 17, 2, 21, 22?*); **Putnam** (Greencastle, 2, 21, 22); **Monroe** (Mayfield's Cave, 4, 22); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Porter** (Valparaiso, 21, 22); **LaPorte** (Smith, 39, 22); **Sullivan** (Merom Station, *July 21, 1966*, TAP)
- Banks (2) collected this species at the town of Wyandotte, not in Wyandotte Cave as Elliott (22) has indicated.
54. *Linyphia weyeri* Emerton, 1875
Crawford (Marengo Cave, 44, 21, 22).
- Emerton (23) and Packard (47, 48) list *Linyphia subterranea* Emer. from Wyandotte Cave, not *L. weyeri*, as Banks (3) and Elliott (22) have indicated. *Linyphia weyeri* Emer. was described from specimens taken in Weyer's Cave, in Augusta County, Virginia.
55. *Meioneta fabra* (Keyserling), 1886
Spencer (Santa Claus, *June 12, 1966*, RWM); **Tippecanoe** (Americus, *Aug. 24, 1967, July 4, 1968*, TAP)
56. *Meioneta micaria* (Emerton), 1882
Wayne (Richmond, 20, 21, 22); **Tippecanoe** (Americus, *Aug. 10, 24, 1967*, TAP); **Fountain** (Attica, *Aug. 25, 1967*, TAP); **Vanderburgh** (*Apr. 1, 1966*, RWM)
57. *Meioneta unimaculata* (Banks), 1892
Porter (Valparaiso, 21, 22); **Tippecanoe** (Americus, *Aug. 10, 24, 1967*, TAP); **Carroll** (Pymont, *July 28, 1968*, RWM)
58. *Pityohyphantes costatus* (Hentz), 1850
Linyphia phrygiana: Emerton, 1882 (nec *L. phrygiana* C. Koch, 1836)
Marshall (Culver, *June 29, 2, 21, 22*); **Lake** (Hessville, 53; Liverpool, 53); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Brown** (Nashville, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22); **Putnam** (Bainbridge, *Apr. 23, 1967*, TAP)

Chamberlin and Ivie (11) are convinced that *P. costatus* is different from the European *Linyphia phrygiana*. They state, on page 28, "This common species of the eastern United States is distinct from the European *phrygiana*, where it has been consistently placed by American authors. The above name [*P. costatus* (Hentz)], therefore, should be used."

59. *Pusillia mandibulata* Emerton, 1882

Linyphia pusilla (of most authors)

Tippecanoe (Lafayette, 25, 22; Americus, July 27, 1967, TAP); Wayne (Richmond, 21, 22); Porter (Dunes Acres, 38, 39, 22); Fountain (Attica, Aug. 3, 1966, July 25, 1967, TAP); Huntington (Huntington, Aug. 15, 1967, TAP)

Chamberlin and Ivie (11) say that *Linyphia pusilla* Sundevall, 1830 is European and does not occur in North America. They consider their *Pusillia pusilla* distinct from *Pusillia mandibulata* Emerton, 1882. Apparently what was formerly known as *Linyphia pusilla* is now *Pusillia mandibulata* in the East and their new *Pusillia bonita* in the West.

60. *Stemonyphantes lineatus* (Linnaeus), 1758

Tippecanoe (Lafayette, 25, 22); Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 21, 22)

61. *Tennesseellum formicum* (Emerton), 1882

Porter (Dunes Acres, 38, 39, 22); Fountain (Attica, Aug. 11, 1967, July 4, 1968, TAP)

62. *Troglohyphantes cavernicolus* (Keyserling), 1886

Lawrence (Donnelson's Cave, 4, Nov. 9, 2, 21, 22; Twin Caves at Mitchell, 4, 22; Shawnee Cave, 43, 44, 21, 22); INDIANA (49)

Emerton (23) did not record this species from Wyandotte Cave as Elliott (22) has indicated. McIndoo (44), on page 183, says, "This species [*Linyphia Weyeri* Emer.] in this cave [Marengo Cave] is as abundant as *Troglohyphantes* (= *Willibaldia*) *cavernicola* Keys. is in the Shawnee Cave."

Elliott (21) lists Mayfield's Cave and Hamer's Cave for this species. Elliott (22) credits the Mayfield's Cave record to Banta and drops the Hamer's Cave record. Banta (4) did not collect this species in Mayfield's Cave, and the writer is certain that a Hamer's Cave collection never existed.

Elliott (22) should not have included *Troglohyphantes incertus* Emer. in the list of Indiana spiders. Emerton described this spider in 1875 from specimens taken in caves in Virginia and Kentucky. The last paragraph of the description, which is also included in Packard (48), pages 275-276, says, "Fountain Cave, Virginia, among stalactites, in company with *Nesticus pallidus* (Packard); also in Bat Cave, Carter County, Kentucky (Shaler and Packard)."

FAMILY Micyrphantidae

63. *Anthrobia* sp.

Crawford (Wyandotte Cave, 18, 22)

The writer is hesitant to include this spider as a record for Indiana. Elliott (22) included this spider as *A. mammothia* Tellkamp. Cope (18) listed specimens from Wyandotte Cave as *Anthrobia*. He gave these specimens no specific name, believing them different from *A. mammothia*, which he had listed from Mammoth Cave, Kentucky. Cope gives this account of his collections in Wyandotte Cave: "Two species of Arachnidans were observed, one a true spider, the other related to the "long-legs" of the woods. A species similar to the former is found in the Mammoth Cave [*A. mammothia*], and others in other caves, but in every instance where I have obtained them, they have been lost by the dissolution of their delicate tissues in the impure alcohol."

Emerton (23) had *A. mammothia* listed from Mammoth, Proctor's and Diamond Caves, all of which occur in Kentucky. Emerton made no mention of collecting *A. mammothia* from Wyandotte Cave as Elliott (22) has indicated.

64. *Catabrithorax oxypaederotipus* (Crosby), 1905
 Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22);
 Porter (Valparaiso, 21, 22)
65. *Catabrithorax plumosus* (Emerton), 1882
 Tippecanoe (Americus, Aug. 24, 1967, TAP)

This specimen was determined by Wilton Ivie of the American Museum of Natural History.

66. *Catabrithorax probatus* (Cambridge), 1874
 Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22)
67. *Ceraticelus emertoni* (O.P.-Cambridge), 1874
 Wayne (Richmond, 21, 22); Porter (Dunes Acres, 38, 39, 22;
 Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22); Tippecanoe
 (Ross Biological Reserve, 5)
68. *Ceraticelus fissiceps* (O.P.-Cambridge), 1874
 Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind.
 Dunes State Park, 22)
69. *Ceraticelus laetus* (O.P.-Cambridge), 1874
 Fountain (Attica, July 4, 1968, TAP)
70. *Ceraticelus limnologicus* Crosby & Bishop, 1925
 Porter (Dunes Acres, 39, 22; Ogden Dunes, 39, 22)
- Lowrie (39) reported *C. limnologicus*, not *C. homologicus* as Elliott (22) has indicated.
71. *Ceraticelus minutus* (Emerton), 1882
 Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22);
 Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22)
72. *Ceratinella brunnea* Emerton, 1882
 Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22);
 Porter (Valparaiso, 21, 22)
73. *Ceratinops rugosa* (Emerton), 1909
 Tippecanoe (Ross Biological Reserve, 5)

74. *Ceratinopsis anglicana* (Hentz), 1850
Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22)
75. *Ceratinopsis interpres* (O.P.-Cambridge), 1874
LaPorte (Otis, 53); Porter (Woodville, 53; Valparaiso, 21, 22);
Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22);
Brown (Nashville, 21, 22)
76. *Cornicularia minuta* Emerton, 1882
Wayne (Richmond, 20, 21, 22)
77. *Eperigone contorta* (Emerton), 1882
Porter (Dunes Acres, 38)
78. *Eperigone indicabilis* Crosby & Bishop, 1928
Tippecanoe (Americus, July 27, 1967, TAP)

This specimen was determined by Wilton Ivie of the American Museum of Natural History.

79. *Eperigone tridentata* (Emerton), 1882
Owen (Porter's Cave, 6, 2, 21, 22); INDIANA (49)

Nathan Banks determined the specimen sent to him by Blatchley from Porter's Cave as *Tmeticus tridentatus* Emerton. Blatchley (6) reported this species in his paper. Banks (2) reported the same species from Porter's Cave, putting it in the genus *Gonglydium*. Elliott (22) should have recorded *Oedothorax tridentatus* Emer., not *bidentatus*, as he has for number 126. Elliott (21) recorded *O. bidentatus* synonymizing this species with *Gonglydium tridentatus* Emer. This synonymy is incorrect.

80. *Eridantes erigonoides* (Emerton), 1882
Spencer (Santa Claus, May 22, 1966, RWM)
81. *Erigone aletris* Crosby & Bishop, 1928
Fountain (Attica, Aug. 16, Sept. 6, 1968, TAP)
82. *Erigone atra* Blackwall, 1833
?E. longipalpis Emer., 1882
Marshall (Arlington, June 10, 2, 21, 22); INDIANA (49);
Fountain (Attica, Aug. 11, 1967, TAP)
83. *Erigone autumnalis* Emerton, 1882
Porter (Dunes Acres, 38, 39, 22); Tippecanoe (Aug. 1, 1967, RWM); Harrison (May 11, 1966, RWM); Switzerland (May 11, 23, 1966, RWM); Spencer (Santa Claus, Aug. 21, 1966, RWM);
Vanderburgh (May 21, June 1, July 1, 21, RWM)
84. *Erigone blaesae* Crosby & Bishop, 1928
Fountain (Attica, July 4, 1968, TAP)
85. *Erigone dentigera* O.P.-Cambridge, 1874
?E. longipalpis Emer., 1882
Porter (Dunes Acres, 38, 39, 22); Cass (Logansport, Aug. 3, 1967, TAP); Fountain (Attica, July 28, 1967, TAP)
86. *Erigone infernalis* Keyserling, 1886
Monroe (Mayfield's Cave, 4, 43, 44, 21, 22); Lawrence (Twin Cave at Mitchell, 4, 2, 21, 22); INDIANA (49)

87. *Goneatara platyrhinus* (Crosby & Bishop), 1927
Wayne (Richmond, 20, 21, 22)
88. *Grammonota inornata* Emerton, 1882
Tippecanoe (Lafayette, 25, 22); Wayne (Richmond, 21, 22)
89. *Hypselistes florens* (O.P.-Cambridge), 1875
Porter (Dunes Acres, 38, 39, 22); LaPorte (Smith, 39, 22)
90. *Islandiana longisetosus* (Emerton), 1882
Fountain (Attica, July 4, 1968, TAP)
91. *Mythoplastoides exiguus* (Banks), 1892
Wayne (Richmond, 20, 21, 22)
92. *Oedothorax montiferus* (Emerton), 1882
Wayne (Richmond, 20, 21, 22)
93. *Origanates rostratus* (Emerton), 1882
Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22);
Warren (South Pine Creek, Apr. 13, 1968, GRF)
94. *Pelecopsis bishopi* Kaston, 1945
Tippecanoe (Ross Biological Reserve, 5)
95. *Phanetta subterranea* (Emerton), 1875
Crawford (Wyandotte Cave, 23, 47, 48, 6, 2, 21, 22; Little
Wyandotte Cave, 43, 22; Saltpetre Cave, 43, 21, 22); Owen
(Spring Cave, 43, 22); Monroe (Truett's Cave, 4, 2, 21, 22;
Mayfield's Cave, 4); INDIANA (49)
- McIndoo (43) recorded this species from Spring Cave, not from
Marengo Cave as Elliott (21) has indicated. Spring Cave is situated ½
mile west of Marengo Cave.
- Emerton (23) recorded this species "under stones in Carter and
Wyandotte Caves (Packard)", not in Bradford Cave as Elliott (22) had
indicated. Carter Cave is in Kentucky.
96. *Scylaceus pallidus* (Emerton), 1882
Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22)
97. *Walckenaera vigilax* (Blackwall), 1853
Tippecanoe (Americus, Aug. 24, 1967, July 18, 1968, TAP)

FAMILY Araneidae

98. *Acacesia hamata* (Hentz), 1847
Posey (Grand Chain, July 8, 2, 21, 22); Putnam (Greencastle, 2,
21, 22); INDIANA (49); Wayne (Richmond, 20, 21, 22)
99. *Acanthepeira stellata* (Walckenaer), 1841
Tippecanoe (Lafayette, 25, 22; West Lafayette, Oct. 14, 1967,
JEW); Putnam (Greencastle, 2, 21, 22); Knox (Vincennes, July
10, 2, 21, 22, Apr. 14, 1968, TAP); Posey (Grand Chain, July
8, 2, 21, 22; Mount Vernon, Aug. 17, 1966, TAP); Starke (Bass
Lake, June 20, 2, 21, 22); Jennings (North Vernon, Sept. 14,
2, 21, 22); Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State
Park, 22); Parke (Aug. 21, 1966, RWM); Benton (Otterbein,
Apr. 25, 1968, JOS)

100. *Allepeira lemniscata* (Walckenaer), 1841
Linyphia conferta Hentz, 1850
Hentzia basilica: McCook, 1878
Wayne (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22);
Porter (Valparaiso, 21, 22)
101. *Aranea cavatica* (Keyserling), 1881
Wayne (Richmond, 21, 22)
102. *Aranca miniata* (Walckenaer), 1841
LaPorte (Smith, 39, 22); **Wayne** (Dalton, Aug. 2, 1967, GLW)
103. *Aranea nordmanni* (Thorell), 1870
Tippecanoe (Aug. 30, 1966, ES)
104. *Aranea solitaria* (Emerton), 1884
A. angulata Clerck, 1757
Putnam (Greencastle, 2, 21, 22); **Wayne** (Richmond, 20, 21, 22,
39); **LaPorte** (Smith, 39, 22)
105. *Araneus nigripes* (Keyserling), 1883
Posey (Grand Chain, May 12, 2, 21, 22); **INDIANA** (49)
106. *Araniella displicata* (Hentz), 1847
Tippecanoe (Lafayette, 25); **Kosciusko** (Tippecanoe Lake, June
6, 2, 21, 22; Vawter Park, June 1, 2, 21, 22); **Posey** (Grand
Chain, June 3, 2, 21, 22); **Martin** (Shoals, May 16, 2, 21, 22);
Fountain (Attica, June 20, 2, 21, 22); **Porter** (Dunes Acres, 38,
39); **LaPorte** (Smith, 39); **Warren** (Pine Village, June 1,
1968, TH)
107. *Argiope aurantia* Lucas, 1833
Tippecanoe (Lafayette, 25, 22); **Whitley?** (Round and Shriner
Lake, 55); **Putnam** (Greencastle, 2, 21, 22); **Marshall** (Lake
Maxinkauke, Aug. 7, 2, 21, 22); **Wayne** (Richmond, 21, 22);
Brown (Nashville, 21, 22); **Steuben** (Crooked Lake, 21, 22);
Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ind. Dunes
State Park, 22); **Pulaski** (Winamac, Aug. 22, 1967, TAP)
- E. B. Williamson (55) was probably referring to this species when
he stated on page 155, "In the webs of a species of large black and yellow
spider (*Argiope*) I have found the remains [of dragonflies]."
108. *Argiope trifasciata* (Forkstal), 1775
Tippecanoe (Lafayette, 25, 22); **Putnam** (Greencastle, 2, 22);
Lake (Clark, 53; Miller, 53); **Porter** (Ind. Dunes State Park,
53, 22; Valparaiso, 21, 22; Dunes Acres, 38, 39, 22); **Wayne**
(Richmond, 21, 22); **Brown** (Nashville, 21, 22); **Fountain**
(Attica, Sept. 7, 1967, TAP)
109. *Cyclosa turbinata* (Walckenaer), 1841
C. caudata (Hentz), 1850
Tippecanoe (Lafayette, 25, 22); **Putnam** (Greencastle, 2, 22);
Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22)
110. *Epeira dumetorum* (Villers), 1789
Tippecanoe (Ross Biological Reserve, 5); **Posey** (Mount Vernon,

Aug. 18, 1966, TAP); Sullivan (Merom Station, *July 21, 1966, TAP*); Gibson (Mount Carmel, *July 27, 28, 1966, July 12, 1967, TAP*); LaPorte (LaPorte, *June 19, 1968, TAP*); Vermillion (Clinton, *July 20, 1967, TAP*); Fulton (Rochester, *Aug. 29, 1967, TAP*)

111. *Epeira foliata* (Fourcroy), 1785

Tippecanoe (Lafayette, 25, 22; *June 4, 1967, TAP*); Kosciusko (Tippecanoe Lake, *Aug. 17, 2, 21, 22; Vawter Park, June 1, 2, 21, 22*); Knox (Vincennes, *Nov. 26, 2, 21, 22; July 2, 2, 21, 22*); Marshall (Arlington, *June 10, 2, 21, 22; Culver, June 29, 2, 21, 22*); Posey (Grand Chain, *July 8, 2, 21, 22; Mount Vernon, June 8, 1967, TAP*); Putnam (Greencastle, 2, 21, 22); Clark (Jeffersonville, *June 23, 2, 21, 22*); Wayne (Richmond, 21, 22); Porter (Dunes Acres, 38, 39, 22); Huntington (Huntington, *June 28, 29, 1966, Aug. 15, 1967, TAP*); Fulton (Rochester, *June 7, 1966, TAP*); Gibson (Mount Carmel, *July 27, 28, 1966, Sept. 29, 1967, TAP*); Sullivan (Merom Station, *July 20, 21, 1966, TAP*); Brown (Brown Co. State Park, *Sept. 13, 1966, TAP*); Franklin (Brookville, *Aug. 30, 1966, TAP*); Benton (Otterbein, *Apr. 22, 1968, JOS*); LaPorte (LaPorte, *June 19, 1968, TAP*); Pulaski (Winamac, *Aug. 22, 1967, TAP*)

112. *Epeira pegnia* Walckenaer, 1841

Tippecanoe (Lafayette, 25, 22); Putnam (Greencastle, 2, 21, 22)

113. *Epeira raji* (Scopoli), 1763

Tippecanoe (Lafayette, 25, 22); Knox (Vincennes, *Aug. 23, 2, 21, 22*); Lawrence (Mitchell, *July 13, 2, 21, 22*); Parke (Montezuma, *Aug. 12, 2, 21, 22*); Marion (*May 30, 2, 21, 22*); Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Woodville, 53; Valparaiso, 21, 22; Ogden Dunes, 39, 22); Brown (Nashville, 21, 22; Brown Co. State Park, *Sept. 13, 1966, TAP*); LaPorte (Otis, 53; Smith, 39, 22); Lake (Hessville, 53; Liverpool, 53)

114. *Epeira thaddeus* Hentz, 1847

Putnam (Greencastle, 2, 21, 22); Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park 22); LaPorte (Smith, 39, 22)

115. *Epeira trifolium* Hentz, 1847

Tippecanoe (Lafayette, 25, 22); Marshall (Culver, *Aug. 22, 2, 21, 22*); Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); LaPorte (Smith, 39, 22)

116. *Epeira undata* (Olivier), 1787

Tippecanoe (Lafayette, 25, 22); Putnam (Greencastle, 2, 21, 22); Cass (Logansport, *July 15, 1968, TH*)

117. *Eustala anastera* (Walckenaer), 1841

Tippecanoe (Lafayette, 25, 22; Americus, *Aug. 1, 1967, TAP*); Kosciusko (Tippecanoe Lake, *June 6, 2, 22*); Vawter Park, *June*

1, 2, 22); **Lake** (Hammond, *June 16*, 2, 22; Pine, *June 29*, 2, 22; Miller, 39); **Knox** (Vincennes, *July 10*, *Aug. 23*, 2, 22; *July 2*, 2, 22); **Marshall** (Arlington, *June 10*, 2, 22; Culver, *June 29*, 2, 22); **Starke** (Bass Lake, *June 20*, 22, 2, 22); **Crawford** (Wyandotte, *June 25*, 2, 22); **Posey** (Grand Chain, *July 8*, *June 3*, 2, 22; Mount Vernon, *Aug. 18*, 1966, TAP); **Fountain** (Attica, *June 20*, 2, 22, *Aug. 3*, 1966, *July 25*, *Aug. 11*, 1967, TAP); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22); **Sullivan** (Merom Station, *July 20*, 21, 1966, *July 18*, 1967, TAP); **Gibson** (Mount Carmel, *July 27*, 28, 1966, TAP); **Vermillion** (Clinton, *July 14*, 1966, *July 20*, 1967, TAP); **Fulton** (Rochester, *Aug. 29*, 1967, TAP)

118. *Eustala cepina* (Walckenaer), 1841

Carroll (Delphi, *Aug. 3*, 1967, TAP), **Sullivan** (Merom Station, *July 20*, 1966, *July 18*, 1967, TAP), **Gibson** (Mount Carmel, *July 27*, 1966, TAP), **Fountain** (Attica, *Aug. 3*, 1966, *July 25*, 1967, TAP); **Posey** (Mount Vernon, *Aug. 18*, 1966, TAP)

These specimens were determined by Wilton Ivie of the American Museum of Natural History.

119. *Mangora gibberosa* (Hentz), 1847

Wayne (Richmond, 20, 21, 22, 39); **Brown** (Nashville, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22), **LaPorte** (Smith, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5; Ent. Research Area, *July 24*, 1968, MKP)

120. *Mangora ornata* (Walckenaer), 1841

M. maculata (Keyserling), 1865

Lake (Hessville, 53; Liverpool, 53); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5); **Carroll** (Pyrmont, *July 28*, 1968, RWM)

121. *Mangora placida* (Hentz), 1847

Crawford (Wyandotte, *June 26*, 2, 21, 22); **Posey** (New Harmony, *May 6*, 2, 21, 22); **Sullivan** (Merom Station, *July 18*, 1967, TAP)

122. *Mastophora bisaccata* (Emerton), 1885

Wayne (Richmond, 20, 21, 22); **Tippecanoe** (Lafayette, *Sept. 29*, 1967, GL)

123. *Mastophora cornigera* (Hentz), 1850

Tippecanoe (Lafayette, 25, 22), **Putnam** (Greencastle, 2, 21, 22)

124. *Meta menardi* (Latrielle), 1804

Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); **Monroe** (Mayfield's Cave, 6, 2, 4, 21, 22; Strong's Cave, 6, 2, 21, 22; Saltpetre Cave, 6, 2, 44; Coon Cave, *Sept. 14*, 1967, TAP); **Lawrence** (Donnehue's Cave, 6, 2, 22; Donnelson's Cave,

6, 4, 2, 21, 22; Mitchell, *July 15*, 2, 21, 22; Lower Twin Cave at Mitchell, 2, 4, 22; Shawnee Cave, 43, 22); **Bartholomew** (Clifty Cave, 6, 2, 21, 22); **Crawford** (Wyandotte Cave, 6, 2, 21, 22; Saltpetre Cave, 6, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Owen** (Spring Cave, 44, 22); **Porter** (Dunes Acres, 38)

Elliott (22) states on page 312 that Emerton (23) collected *Meta menardi* from Bradford and Wyandotte Caves. This inclusion is erroneous. Emerton (23), page 278, says, "Two species were found only about the mouths of caves. These are *Theridion vulgare* Hentz, a spider found all over the country in shady places, and a large species of *Meta*, which has been found in similar situations in Massachusetts and New Hampshire, and resembles *Epeira fusca* Blackwall."

Emerton did not say near which caves these spiders were found, nor did he positively identify these spiders as *Meta menardi* (Latrielle), 1804.

Banta (4) did not report *Meta menardi* from Strong's Cave, as Banks (2) and Elliott (22) have indicated.

125. *Metepeira labyrinthea* (Hentz), 1847

Putnam (Greencastle, 2, 21, 22); **LaPorte** (Smith, 39, 22)

126. *Micrathena gracilis* (Walckenaer), 1841

Marion (Indianapolis, 30, 22); **INDIANA** (40); **Tippecanoe** (Lafayette, 25, 22; Ross Biological Reserve, 5); **Crawford** (Wyandotte, *Sept. 9*, 2, 21); **Putnam** (Greencastle, 2, 21); **Lake** (Hessville, 53; Liverpool, 53); **Wayne** (Richmond, 20, 21, 22); **Porter** (Valparaiso, 21, 22)

Lindsey, et al. (37) state that *Micrathena agilis* Walckenaer is found on islands in the Wabash River. The name *agilis* has never been used for a North American member of this genus. Apparently *M. gracilis* was collected, not *M. agilis*.

127. *Micrathena mitrata* (Hentz), 1850

Putnam (Greencastle, 2, 22); **Brown** (Brown Co. State Park, *Sept. 13, 1966*, TAP)

128. *Micrathena sagittata* (Walckenaer), 1841

Marion (Indianapolis, 30, 22); **Tippecanoe** (Lafayette, 25, 22); **Crawford** (Wyandotte, *June 26, July 25*, 2, 21, 22); **Lawrence** (Mitchell, *July 15*, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Knox** (Vincennes, *July 10*, 2, 21); **Lake** (Hessville, 53; Liverpool, 53); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22)

129. *Neoscona arabesca* (Walckenaer), 1841

Tippecanoe (Lafayette, 25, 22, *Sept. 24, 1966*, ES); **Kosciusko** (Tippecanoe Lake, *June 6, 8*, 2, 21, 22); **Lake** (Hammond, *May 29, July 30*, 2, 21, 22); **Knox** (Vincennes, *Aug. 23*, 2, 21, 22); **Posey** (Arlington, *June 10*, 2, 21, 22; Mount Vernon, *Aug. 30, 1966*, TAP); **Crawford** (Wyandotte, *Sept. 9*, 2, 21, 22); **Starke** (Bass Lake, *June 17, 20, 22*, 2, 21, 22); **Marshall** (Culver, *June 29*, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **LaPorte**

- (Wilders, *July 25*, 2, 21, 22; Smith, 39, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); Brown (Brown Co. State Park, *Sept. 13, 1966*, TAP); Carroll (Delphi, *Sept. 25, 1966*, TAP); Benton (Otterbein, *Apr. 25, 1968*, JOS); Fulton (Rochester, *June 6, 1966*, *Aug. 29, 1967*, TAP); Fountain (Attica, *July 25, 1967*, TAP)
130. *Neoscona benjamina* (Walckenaer), 1841
 Tippecanoe (Lafayette, 25; *Sept. 26, 1966*, JDH); Posey (Grand Chain, *July 8*, 2, 21; Mount Vernon, *Aug. 18, 1967*, TAP); Dubois (Huntingburg, 2, 21); Putnam (Greencastle, 2, 21); Lake (Miller, 53, Pine 53; Hessville, 53; Liverpool, 53); Porter (Woodville, 53; Ind. Dunes State Park, 53; Dunes Acres, 38, 39); LaPorte (Otis, 53; Smith, 39); Brown (Brown Co. State Park, *Sept. 13, 1966*, TAP); Pulaski (Winamac, *Aug. 22, 1967*, TAP); Benton (Otterbein, *Apr. 29, 1968*, JOS)
131. *Neoscona pratensis* (Hentz), 1847
 Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22)
132. *Nephila clavipes* (Linnaeus), 1758
 Wayne (Richmond, 21, 22)
133. *Singa hentzi* Banks, 1907
 Perry (Cannelton, *May 31*, 2, 3, 21, 22); INDIANA (49)
134. *Singa variabilis* Emerton, 1884
 Kosciusko (Tippecanoe Lake, 2, 21, 22)
135. *Verrucosa arenata* (Walckenaer), 1841
 Tippecanoe (Lafayette, 25, 22); Knox (*July 2*, 2, 21, 22); Vincennes, *July 10*, 2, 21, 22); Parke (Montezuma, *Aug. 12*, 2, 21, 22); Crawford (Wyandotte, *Sept. 9*, 2, 21, 22); Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22)
136. *Wixia anaglyphe* (Walckenaer), 1841
W. ectypa (Walckenaer), 1841
 Posey (Grand Chain, *June 3*, 2, 21, 22); Wayne (Richmond, 20, 21, 22)
- Walckenaer's description of *W. anaglyphe* came one page before *W. ectypa* of the same publication.

FAMILY Theridiosomatidae

137. *Theridiosoma gemmosum* (L. Koch), 1877
 Monroe (Mayfield's Cave, 2, 4, 21, 22); LaPorte (Smith, 39, 22)

FAMILY Tetragnathidae

138. *Leucage venusta* (Walckenaer), 1841
L. hortorum (Hentz), 1847
 Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); Posey (Arlington, *June 10*, 2, 21, 22; Grand Chain, *May 12*,

2, 21, 22); **Putnam** (Greencastle, 2, 21 ?, 22; Bainbridge, *Apr. 23, 1967*, TAP); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22)

Banks (2) collected this species at Greencastle, not New Castle, as Elliott (21) has indicated.

139. *Mimognatha foxi* (McCook), 1894

Posey (Mount Vernon, *June 8, 1967*, TAP); **Fountain** (Attica, *Aug. 11, 25, 1967*, TAP); **Tippecanoe** (Lafayette, *Oct. 23, 1966*, RWM)

Wilton Ivie of The American Museum of Natural History determined the Mount Vernon collection.

140. *Pachygnatha brevis* Keyserling, 1883

Cass (Logansport, *Apr. 6, 1967*, TAP)

Pachygnatha tristriata and *P. brevis* are not synonymous, as Elliott (22) has indicated.

141. *Pachygnatha tristriata* C. L. Koch, 1845

Tippecanoe (Lafayette, 25, 22); **Posey** (New Harmony, *June 4, 2, 21, 22*); **INDIANA** (49); **Wayne** (Richmond, 21, 22); **Knox** (*Oct. 31, 1966*, RWM)

142. *Pachygnatha xanthostoma* C. Koch, 1845

Wayne (Richmond, 21, 22)

143. *Tetragnatha banksi* McCook, 1894

T. seneca Seeley, 1928

Fulton (Rochester, *June 7, 1966, Aug. 29, 1967*, TAP); **Sullivan** (Merom Station, *July 20, 21, 1966*, TAP); **Posey** (Mount Vernon, *Aug. 18, 1966*, TAP); **Pulaski** (Winamac, *Aug. 22, 1967*, TAP); **Sullivan** (Clinton, *July 20, 1967*, TAP); **Gibson** (Mount Carmel, *July 27, 1966, July 12, 1967*, TAP)

After a thorough examination of paratype material of *Tetragnatha guatemalensis* O. P. Cambridge, 1889, the writer is convinced that *T. banksi* and *T. guatemalensis* are not synonymous, as Chickering (13, 14), has concluded. The writer reviewed McCook (41), Levi and Field (36), O. P. Cambridge (8), F. P. Cambridge (7), Seeley (52), and Chickering (13, 14, 15) in reaching the above conclusions. The writer feels certain that *T. seneca* Seeley is a synonym of *T. banksi* McCook, 1894.

Both *T. banksi* and *T. guatemalensis* occur in the United States. *Tetragnatha guatemalensis* reaches a few southern states (as e.g., Chamberlin and Ivie, [10] and possibly McCook's specimens from Florida). *Tetragnatha banksi* is more northern in distribution (as e.g., Seeley's collections, Levi and Field's collections, the writer's collections and McCook's specimen from Wisconsin).

The "large tooth" on the male chelicera of *T. guatemalensis* is always missing in males of *T. banksi*. Chickering (13) says the "large tooth" of *T. guatemalensis* males is not well developed and that of *T.*

banksi is a reduced condition. The writer has found and D. J. Clark of the British Museum reaffirms that the "large tooth" is quite strong in the male of *T. guatemalensis*.

Since *Tetragnatha guatemalensis* is found in the United States, a series of "large tooth" reductions should be found in males as one travels from south to north if one wishes to synonymize this species with *T. banksi*. The writer can find no evidence of such a cline.

144. *Tetragnatha elongata* Walckenaer, 1841

T. grillator Hentz, 1847

Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5; Americus, *June 23, 1966*, TAP); **Kosciusko** (2, 21, 22; Tippecanoe Lake, *June 6, 8, 2, 21, 22*; Winona Lake, 33, 22); **Posey** (Arlington, *June 10, 2, 21, 22*; Mount Vernon, *Aug. 18, 1966, June 8, 1967*, TAP); **Dubois** (Huntingburg 2, 21, 22); **Wayne** (Richmond, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Porter** (Valparaiso, 21, 22); **Brown** (Brown Co. State Park, *Sept. 13, 1966*, TAP); **Fulton** (Rochester, *June 6, 7, 1966, Aug. 29, 1967*, TAP); **Cass** (Logansport, *July 6, 7, 1966, Aug. 3, 1967*, TAP); **Carroll** (Delphi, *June 23, 1966*, TAP); **Vermillion** (Clinton, *July 13, 14, 1966, July 20, 1967*, TAP); **Gibson** (Mt. Carmel, *July 27, 28, 1966, July 12, 1967*, TAP); **Pulaski** (Winamac, *June 15, 16, 1966, Aug. 22, 1967*, TAP); **Sullivan** (Merom Station, *July 20, 21, 1966, July 18, 1967*, TAP); **Huntington** (Huntington *June 28, 29, 1966, Aug. 15, 1967*, TAP); **Fountain** (Attica, *Aug. 3, 1966, July 25, Aug. 25, 1967*, TAP)

145. *Tetragnatha extensa* (Linnaeus), 1758

T. rusticana Chickering, 1959

Kosciusko (Tippecanoe Lake, *June 6, 8, 2, 21, 22*; Winona Lake, 33); **Knox** (*July 2, 2, 21, 22*; Vincennes, *July 10, 2, 21, 22*); **Posey** (Grand Chain, *July 8, 2, 21, 22*); **Marshall** (Culver, *June 29, 2, 21, 22*)

Dr. A. M. Chickering has informed this writer that his *T. rusticana* is generally considered a synonym of *T. extensa*, a good description of which may be found in Chickering (14).

146. *Tetragnatha laboriosa* Hentz, 1850

Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5; Americus, *June 23, 1966*, TAP); **Kosciusko** (Tippecanoe Lake, *June 6, 2, 21, 22*; Vawter Park, *June 1, 2, 21, 22*; Winona Lake, 33, 22); **Lake** (Hammond, *May 29, June 16, July 30, 2, 21, 22*; Pine, *May 25, 2, 21, 22*); **Posey** (Arlington, *June 10, 2, 21, 22*; Grand Chain, *June 3, 2, 21, 22*; Mount Vernon, *June 8, 1967*, TAP); **Crawford** (Wyandotte, *June 25, 2, 21, 22*); **Lawrence** (Mitchell, *Apr. 2, 2, 21, 22*; Twin Caves, 4, 22; Donnelson's Cave, 4, 22); **Putnam** (Greencastle, 2, 21, 22); **Fountain** (Attica, *June 20, 2, 21, 22, Aug. 3, 1966, July 25, Aug. 11, 25, Sept. 7, 1967*, TAP); **LaPorte** (Wilders, *July 25, 2, 21, 22*; Smith, 39, 22); **Brown** (Nashville, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Dunes Acres,

38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park 22); Sullivan (Merom Station, July 20, 21, 1966, July 18, 1967, TAP); Pulaski (Winamac, Aug. 22, 1967, TAP); Carroll (Delphi, Aug. 3, 1967, TAP); Vermillion (Clinton, July 13, 14, 1966, July 20, 1967, TAP); Cass (Logansport, July 6, 1966, TAP); Gibson (Mount Carmel, July 27, 28, 1966, TAP); Fulton (Rochester, June 6, 7, 1966, TAP); Huntington (Huntington, Aug. 15, 1967, TAP)

Banks (2) did not report a separate collection from Lake County as Elliott (22) has indicated.

147. *Tetragnatha pallescens* F.O.P.-Cambridge, 1903
Kosciusko (Winona Lake, 33, 22); Porter (Dunes Acres, 38, 39, 22); Posey (Mount Vernon, Aug. 18, 1966, June 8, 1967, TAP); Sullivan (Merom Station, July 20, 21, 1966, TAP); Fountain (Attica, Aug. 3, 1966, July 25, 1967, TAP); Gibson (Mount Carmel, July 28, 1966, TAP); Cass (Logansport, Aug. 3, 1967, TAP); Vermillion (Clinton, July 20, 1967, TAP)
148. *Tetragnatha straminea* Emerton, 1884
Kosciusko (Tippecanoe Lake, June 6, 2, 21, 22; Winona Lake, 33, 22); INDIANA (49); Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); LaPorte (Smith, 39, 22); Tippecanoe (Ross Biological Reserve, 5)
149. *Tetragnatha vermiformis* Emerton, 1884
Kosciusko (Winona Lake, 33, 22); Tippecanoe (Ross Biological Reserve, 5)
150. *Tetragnatha vericolor* Walckenaer, 1841
Tippecanoe (Ross Biological Reserve, 5; Americus, June 23, 1966, TAP); Sullivan (Merom Station, July 20, 21, 1966, TAP); Huntington (Huntington, June 28, 29, 1966, Aug. 15, 1967, TAP); Cass (Logansport, July 6, 1966, July 25, Aug. 3, 1967, TAP); Fulton (Rochester, June 6, 7, 1966, TAP); Fountain (Attica, Aug. 3, 1966, TAP); Pulaski (Winamac, June 16, 1966, TAP); Vermillion (Clinton, July 20, 1967, TAP); Posey (Mount Vernon, June 7, 8, 1967, TAP)

FAMILY Ctenidae

151. *Anahita animosa* (Walckenaer), 1837
Crawford (Wyandotte, Apr. 17, Sept. 8, 2, 21, 22), INDIANA (49)

FAMILY Mimetidae

152. *Ero furcata* (Villers), 1789
Tippecanoe (Lafayette, 25, 22); Wayne (Richmond, 20, 21, 22, 39); Porter (Ogden Dunes, 39, 22)
153. *Mimetus dissimulatus* (Walckenaer), 1841
M. interfactor Hentz, 1850
Martin (Shoals, May 16, 2, 21, 22); Porter (Dunes Acres, 38, 39; Ogden Dunes, 39; Ind. Dunes State Park, 22); LaPorte (Smith, 39)

154. *Mimetus puritanus* Chamberlin, 1923

Sullivan (Merom Station, July 20, 1966, TAP)

Wilton Ivie of The American Museum of Natural History determined the writer's specimen.

FAMILY Agelenidae

155. *Agelenopsis naevia* (Walckenaer), 1841

Marion (Indianapolis, 29, May 30, 2, 21, 22); Tippecanoe (Lafayette, 25, 22); Kosciusko (Tippecanoe Lake, Aug. 17, 2, 21, 22); Knox (Vincennes, Aug. 31, 2, 21, 22); Jennings (North Vernon, Sept. 14, 2, 21, 22); Floyd (New Albany, Sept. 11, 2, 21, 22); Steuben (Clear Lake, Aug. 13, 2, 21, 22; Crooked Lake, 21, 22); Putnam (Greencastle, 2, 21, 22); Dubois (Huntingburg, 2, 21, 22, Aug. 17, 18, 1967, ES); Wayne (Richmond, 20, 21, 22); Brown (Nashville, 21, 22; Brown Co. State Park, Sept. 13, 1966 TAP); Porter (Valparaiso, 21, 22); Fulton (Rochester, Sept. 16, 1967, TAP)

Agelenopsis pennsylvanica is not a synonym of *A. naevia* as Elliott (22) has indicated.

156. *Agelenopsis pennsylvanica* (C. L. Koch), 1843

Porter (Dunes Acres, 38, 39); LaPorte (Smith, 39); Tippecanoe (Lafayette, Sept. 15, 1966, TAP; West Lafayette, Oct. 22, 1966, TAP)

Lowrie (39) reported that Elliott (20) had collected *A. pennsylvanica* from Richmond. Elliott (20, 21) collected *A. naevia*, not *A. pennsylvanica* from Richmond.

157. *Agelenopsis utahana* (Chamberlin & Ivie), 1933

Porter (Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22)

158. *Auchicybaeus ovalis* Gertsch, 1933

Crawford (Marengo Cave, 26)

Gertsch (26), page 12, states, "TYPE LOCALITY—Female holotype from Marengo Spring Cave, Crawford County, Indiana, October 20, 1911, taken in the 'area of total darkness' by Arthur W. Henn."

159. *Cicurina arcuata* Keyserling, 1887

Tippecanoe (Lafayette, 25, 22; Merritt's Pine Plantation, July 26, 1968, RWM); Starke (Bass Lake, Apr. 9, 2, 21, 22); Wayne (Richmond, 20, 21, 22); Porter (Valparaiso, 21; Ind. Dunes State Park, 21, 22); Warren (S. Pine Creek, Apr. 13, May 5, 1968, GRF); Adams (Apr. 16, 1968, TAP)

A very closely related species, *C. robusta* Simon, 1886, occurs in the Rocky Mountains. *Cicurina arcuata* has chevrons on its abdomen, whereas *C. robusta* has an immaculate abdomen.

160. *Cicurina brevis* (Emerton), 1890

Starke (Bass Lake, Apr. 9, 2, 21, 22); INDIANA (49); Wayne (Richmond, 20, 21, 22, 39); Porter (Dunes Acres, 39, 22; Ind. Dunes State Park, 22); LaPorte (Smith, 39, 22)

161. *Circurina pallida* Keyserling, 1887
 Starke (Bass Lake, Apr. 19, 2, 21, 22); Putnam (Apr. 22, 2, 21, 22; Bainbridge, Apr. 23, 1967, TAP); Crawford (Wyandotte, Aug. 17, 2, 21, 22?); Monroe (Mayfield's Cave, 4, 22; Truett's Cave, 4, 22); INDIANA (49); Wayne (Richmond, 20, 21, 22, 39); LaPorte (Smith, 39, 22)
- Banks (2) collected this species at Wyandotte, not in Wyandotte Cave, as Elliott (22) has indicated.
162. *Coras juvenilis* (Keyserling), 1881
 LaPorte (Smith, 39, 22); Putnam (Bainbridge, Apr. 23, 1967, TAP)
163. *Coras lamellosus* (Keyserling), 1887
 Porter (Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22); Putnam (Bainbridge, Apr. 23, 1967, TAP); Tippecanoe (Merritt's Pine Planation, Apr. 10, 1968, RWM)
164. *Coras medicinalis* (Hentz), 1821
 Tippecanoe (Lafayette, 25, 22); Putnam (Apr. 22, 2, 21, 22); Wayne (Richmond, 20, 21, 22)
165. *Coras montanus* (Emerton), 1890
Coelotes montanus Emerton, 1890
 Wayne (Richmond, 20, 21, 22)
166. *Tegenaria cavicola* Banks, 1897
 Crawford (Saltpetre Cave, 1, 2, 3, 6, 21, 22); INDIANA (49)
 McIndoo (43, 44) reported *Willibaldia* (= *Troglohyphantes*) *cavnicola* Keyserling from Shawnee Cave, not *Tegenaria cavicola* Banks, as Elliot (22) has indicated.
- Banks (2, 3) lists the date of his description of *Tegenaria cavicola* as 1896. The date should be 1897, for the 21st Annual Report of the Indiana Dept. of Geology and Natural Resources for 1896 was not published until 1897. The title page states, "Indianapolis: 1897."
167. *Tegenaria derhami* (Scopoli), 1763
 Tippecanoe (Lafayette, 25, 22); Crawford (Wyandotte, Sept. 9, 2, 21, 22); Monroe (Mayfield's Cave, 4, 22; Twin Cave?, 2, 21, 22), Putnam (Greencastle, 2, 21, 22); Wayne (Richmond, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22)
- Banks (2) collected this species at Wyandotte, not in Wyandotte Cave, as Elliott (22) has indicated.
- Banks (2) and Elliott (21, 22) report that Banta (4) collected this species from Twin Cave. Banta says nothing about a Twin Cave collection. Banks probably means Banta's Lower Twin Cave at Mitchell, which is in Lawrence County. Apparently Banta had done some collecting around Mitchell, Indiana, and did not mention many of these collections when he reported on Mayfield's Cave in Monroe County.
168. *Wadotes calcaratus* (Keyserling), 1887
 Tippecanoe (Lafayette, 25, 22); Posey (New Harmony, Sept. 3, 2, 21, 22), INDIANA (49); Wayne (Richmond, 20, 21, 22); La-

Porte (Smith, 39, 22); Putnam (Bainbridge, Apr. 23, 1967, TAP); Warren (S. Pine Creek, May 5, 1968, GRF)

169. *Wadotes hybridus* (Emerton), 1890

Wayne (Richmond, 20, 21, 22); Putnam (Bainbridge, Apr. 23, 1967, TAP)

FAMILY Hahniidae

170. *Hahnia cinerea* Emerton, 1890

Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Ogden Dunes, 39, 22); Spencer (Santa Claus, May 8, 15, 22, July 17, 1966, RWM)

171. *Neoantistea agilis* (Keyserling), 1887

Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Tippecanoe (Ross Biological Reserve, 5; Americus, Aug. 24, Sept. 7, 1967, TAP)

172. *Neoantistea radula* (Emerton), 1890

Hahnia riparia Keyserling, 1887

Hahnia radula Emerton, 1890

N. riparia race *radula* Gertsch, 1934

Wayne (Richmond, 20, 21, 22, 39); LaPorte (Smith, 39, 22)

FAMILY Pisauridae

173. *Dolomedes scriptus* Hentz, 1845

Monroe (Mayfield's Cave, 4, 22); Porter (Dunes Acres, 38, 39, 22); Tippecanoe (Americus, June 23, 1966, TAP); Vermillion (Clinton, July 14, 1966, TAP); Fountain (Attica, Aug. 3, 1966, TAP); Fulton (Rochester, Aug. 29, 1967, TAP); Sullivan (Merom Station, July 18, 1967, TAP)

174. *Dolomedes sexpunctatus* Hentz, 1845

Tippecanoe (Lafayette, 25, 22); Kosciusko (Tippecanoe Lake, June 6, 2, 21, 22); Putnam (Greencastle, 2, 21, 22); INDIANA (49); Porter (Dunes Acres, 38, 39, 22); Fulton (Rochester, Sept. 16, 1967, TAP); Posey (Mount Vernon, June 21, 1968, TAP)

175. *Dolomedes striatus* Giebel, 1869

Porter (Dunes Acres, 38, 39)

176. *Dolomedes tenebrosus* Hentz, 1844

Tippecanoe (Lafayette, 25, 22; Americus, July 27, 1967, TAP); Crawford (Wyandotte, July 25, 2, 21, 22); Starke (Bass Lake, Oct. 10, 2, 21, 22); Lawrence (Mitchell, July 15, 2, 21, 22); Jackson (Medora, Sept. 24, 2, 21, 22); Knox (May 26, 2, 21, 22; Cypress Swamp, Sept. 25, 2, 21, 22); Marshall (Lake Maxinkuckee, Aug. 7, 2, 21, 22); Gibson (Sept. 1, 2, 21, 22); Putnam (Greencastle, 2, 21, 22); LaPorte (Wilders, July 25, 2, 21, 22; Smith, 39, 22); INDIANA (49); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Brown (Nashville, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22), Carroll (Delphi, June 22, 1966,

DEW); **Harrison** (Mauckport, *May 6, 1968*, TAP); **Monroe** (Bloomington, *July 3, 1968*, TAP)

Banks (2) collected this species from Wyandotte, not in Wyandotte Cave, as Elliott (22) has indicated. Banta (4) collected *Dolomedes scriptus* from Mayfield's Cave, not *D. tenebrosus*, as Elliott (22) has indicated. *Dolomedes striatus*, *D. scriptus*, and *D. tenebrosus* are not synonymous to one another, as Elliott (22) has indicated.

177. *Dolomedes urinator* Hentz, 1845

Lawrence (Donnelson's Cave, 6, 2, 21, 22; Mitchell, *Apr. 2, 2, 21, 22*); **INDIANA** (49)

178. *Pisaurina brevipes* (Emerton), 1911

LaPorte (Smith, 39, 22)

179. *Pisaurina mira* (Walckenaer), 1837

Marshall (Arlington, *June 10, 2, 21, 22*; Culver, *June 29, 2, 21, 22*); **Starke** (Bass Lake, *June 20, 2, 21, 22*); **Martin** (Shoals, *July 13, 2, 21, 22*); **Putnam** (Greencastle, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Brown** (Nashville, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5)

180. *Pisaurina mira* var. *subinflata* (Hentz), 1850

Posey (New Harmony, *Sept. 3, 2, 21, 22*); **Jennings** (North Vernon, *Apr. 14, 2, 21, 22*); **INDIANA** (49)

FAMILY Lycosidae

181. *Arctosa emertoni* Gertsch, 1934

Tippecanoe (West Lafayette, *Sept. 30, 1966*, TAP); **Fountain** (Attica, *July 28, 1967*, TAP)

182. *Arctosa funerea* (Hentz), 1844

Knox (*July 2, 2, 21, 22*); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22); **Tippecanoe** (Ross Biological Reserve, 5)

183. *Arctosa littoralis* (Hentz), 1844

INDIANA (40), **Lake** (Hammond, *June 16, 2, 21, 22*; Pine, *May 25, 2, 53, 21, 22*; Miller, 53, 39, 22); **Posey** (Grand Chain, *Sept. 5, 2, 21, 22*; Mount Vernon, *Aug. 17, 1966, June 7, 1967, June 8, 1968*, TAP); **Putnam** (Greencastle, 2, 21, 22); **Porter** (Ind. Dunes State Park, 53; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22)

184. *Arctosa noctuabunda* (Montgomery), 1904

Gibson (Mount Carmel, *July 12, 1967*, TAP)

This specimen was determined by Dr. Willis J. Gertsch of The American Museum of Natural History. It has been retained at the Museum.

185. *Arctosa rubicunda* (Keyserling), 1876

Tippecanoe (Lafayette, 25, 22); **INDIANA** (49)

186. *Geolycosa fatifera* (Hentz), 1842

Crawford (Wyandotte, *May 27, Sept. 8, 2, 21, 22*); Posey (New Harmony, *Sept. 3, 2, 21, 22*); Marshall (Culver, *Aug. 22, 2, 21, 22*); Starke (Bass Lake, *Oct. 10, 2, 21*); Marion (*May 30, 2, 21, 22*); INDIANA (49)

187. *Geolycosa missouriensis* (Banks), 1895

Lake (Buffington, 54); Pulaski (*Oct. 6, 1930, JJD, 54*); Porter (Dunes Acres, 38, 39, 22)

Wallace (54) states, "*Geolycosa fatifera* (Hentz) is obviously closely related to *missouriensis* (Banks). Superficially they resemble each other closely, but their genitalia are distinct. It may be that, when males have been taken from a wider area, this species will be found to intergrade with *missouriensis*."

188. *Geolycosa pikei* (Marx), 1881

Lake? (Miller, 53; Pine, 53; Clark, 53); Porter? (Ind. Dunes State Park, 53)

Comstock (16, 17) states, "The range of this species includes the Eastern and Middle States and extends to the District of Columbia and to Indiana." Comstock apparently included the "Middle States" and "Indiana" on the basis of Shelford's records. The writer feels certain that Shelford's records were misidentifications. Shelford's *G. pikei* was most likely *G. wrightii* which is indigenous to the dunes area and was described by Emerton in 1912, the same year Shelford published his study.

Wallace (54) says that *Geolycosa pikei* is "the sandy-beach-inhabiting form of the New England seaboard."

189. *Geolycosa wrightii* Emerton, 1912

Lake (Buffington, 24?, 54; Miller, 54); Porter (Tremont, 54; Ind. Dunes State Park, 54, 22; Ogden Dunes, 54, 39, 22; Dunes Acres, 54, 38, 39, 22)

Although Emerton (24) designated no types, Wallace (54) states that the probable female type was collected at Chicago, Illinois, by C. B. Davenport in April, 1904. The probable male type was collected at Buffington, Indiana, on Sept. 6, 1909 by W. H. Wright.

190. *Lycosa aspersa* Hentz, 1844

Tippecanoe (Lafayette, 25, 22); INDIANA (49); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22; LaPorte (Smith, 39; Michigan City, *Sept. 10, 1967, TAP*); Carroll (Delphi, *June 23, 1966, TAP*)

Lowrie (39) collected this species at Smith, not Miller, as Elliott (22) has indicated.

191. *Lycosa avara* (Keyserling), 1876

Tippecanoe (Lafayette, 25, 22, *Oct. 10, 1966, TAP*); Jennings (North Vernon, *May 7, 2, 21, 22*); INDIANA (49); Porter (Dunes Acres, 38, 39, 22); Spencer (Santa Claus, *May 22, 1966, RWM*)

192. *Lycosa avida* Walckenaer, 1837
Tippecanoe (Lafayette, 25, 22, Oct. 10, 1966, TAP); **Lake** (Hammond, May 7, 2, 21, 22); **Wayne** (Richmond, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **Lake** (Miller, 39, 22); **Fountain** (Attica, July 28, Aug. 11, 1967, TAP); **Monroe** (Bloomington, July 3, 1968, TAP)
193. *Lycosa baltimoriana* (Keyserling), 1876
Porter (Dunes Acres, 38, 39, 22)
194. *Lycosa carolinensis* Walckenaer, 1837
Tippecanoe (Lafayette, 25, 22, Sept. 22, 1966, TAP); **Crawford** (Wyandotte, July 25, 2, 21, 22?); **Jennings** (North Vernon, Sept. 14, 2, 21, 22); **LaPorte** (Aug. 26, 2, 21, 22); **Boone** (Sept. 20, 1966, TRH); **Benton** (Otterbein, Apr. 22, 1968, JOS)
- Banks (2) collected this species at Wyandotte, not in Wyandotte Cave as Elliott (22) has indicated.
195. *Lycosa frondicola* Emerton, 1885
Tippecanoe (Lafayette, 25, 22); **Lawrence** (Mitchell, Aug. 28, 2, 21, 22); **Jennings** (North Vernon, Apr. 14, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22); **Floyd** (New Albany, May 4, 2, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **Lake** (Miller, 39, 22); **Warren** (S. Pine Creek, May 5, 1968, GRF); **Benton** (Otterbein, May 2, 1968, JOS)
196. *Lycosa gulosa* Walckenaer, 1837
Kosciusko (Tippecanoe Lake, Aug. 17, 2, 21, 22); **Dubois** (Huntingburg, 2, 22); **Starke** (Bass Lake, Oct. 10, 2, 21, 22); **Jackson** (Medora, Sept. 24, 2, 21, 22); **Posey** (Grand Chain, Sept. 5, 2, 21, 22); **Crawford** (Wyandotte, Sept. 8, 9, 2, 21); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22, 39); **LaPorte** (Smith, 39, 22); **Tippecanoe** (Merritt's Pine Plantation, Apr. 7, 1968, RWM; Lafayette, Apr. 15, 1968, TAP)

Although the records of Banks (2) are *Lycosa kochii* Keyserling, 1876, he probably had *L. kochii* Emerton which is synonymous to *Lycosa gulosa* Walckenaer. All other records are of *L. gulosa*.

197. *Lycosa helluo* Walckenaer, 1837
INDIANA (40); **Tippecanoe** (Lafayette, 25, 22; West Lafayette, Oct. 18, 1966, TAP; Americus, July 27, Aug. 15, Sept. 7, 1967, TAP); **Marshall** (Arlington, June 10, 2, 21, 22); **Kosciusko** (Tippecanoe Lake, June 6, 2, 21, 22); **Starke** (Bass Lake, Apr. 9, 2, 21, 22); **Lawrence** (Mitchell, Aug. 28, 2, 21, 22); **Posey** (Grand Chain, May 12, June 3, 2, 21, 22); **Jackson** (Medora, Sept. 24, 2, 21, 22); **Parke** (Mecca, Apr. 27, 2, 21, 22); **Clark** (Jeffersonville, June 23, 2, 21, 22); **Marion** (May 30, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22); **Porter** (Dunes Acres, 38, 39; Ogden Dunes, 39; Ind. Dunes State Park, 22); **Allen** (Fort

Wayne, *Sept. 21, 1966*, TAP); **Fulton** (Rochester, *July 27, 1967*, TAP); **Fountain** (Attica, *July 28, 1967, July 18, 1968*, TAP)

Marx (40) first recorded this species from Indiana, not Emerton, as Elliott (22) has indicated.

198. *Lycosa permunda* Chamberlin, 1904

LaPorte (Smith, 39, 22)

199. *Lycosa punctulata* Hentz, 1844

Tippecanoe (Lafayette, 25, *Sept. 26, 1966*, JDH); **Jennings** (North Vernon, *Sept. 14, 2, 21, 22*); **Putnam** (Greencastle, 2, 21, 22)

200. *Lycosa rabida* Walckenaer, 1837

Lawrence (Mitchell, *Aug. 28, 2, 21, 22*); **Putnam** (Greencastle, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22); **Spencer** (Santa Claus, *July 14, 1966*, RWM); **Tippecanoe** (Americus, *July 27, 1967*, TAP)

201. *Pardosa lapidicina* Emerton, 1885

Kosciusko (2, 21); **Tippecanoe** (Ross Biological Reserve, 5)

This species was not recorded by Banks (2) from Bass Lake, Jeffersonville, and Huntingburg as Elliott (22) has indicated.

202. *Pardosa milvina* (Hentz), 1844

Tippecanoe (Lafayette, 25, 22); **Starke** (Bass Lake, *Apr. 10, 2, 22*); **Clark** (Jeffersonville, *June 23, 2, 21*); **Dubois** (Huntingburg, 2, 22); **Wayne** (Richmond, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **Lake** (Miller, 39, 22); **LaPorte** (Smith, 39, 22); **Carroll** (Delphi, *June 23, 1966*, TAP); **Huntington** (Huntington, *June 28, 1966*, TAP); **Vermillion** (Clinton, *July 13, 1966, July 20, 1967*, TAP); **Sullivan** (Merom Station, *July 20, 21, 1966, July 18, 1967*, TAP); **Gibson** (Mount Carmel, *July 27, 1966, July 12, 1967*, TAP); **Fountain** (Attica, *Aug. 3, 1966, July 28, Aug. 11, 25, Sept. 7, 1967*, TAP); **Fulton** (Rochester, *July 27, Sept. 16, 1967*, TAP); **Brown** (Brown Co. State Park, *Sept. 13, 1966*, TAP)

Pardosa flavipes is a synonym of *Pardosa milvina* (Hentz), not of *Pardosa flavipalpis* F. Cambridge, as Elliott (21, 22) has indicated.

203. *Pardosa modica* (Blackwall), 1846

P. fuscula (Thorell), 1875

Porter (Dunes Acres, 38, 39, 22)

204. *Pardosa moesta* Banks, 1892

Porter (Dunes Acres, 38, 39, 22)

205. *Pardosa xerampelina* (Keyserling), 1876

Tippecanoe (Ross Biological Reserve, 5)

206. *Pirata insularis* Emerton, 1885

Lake (Hammond, *May 7, 2, 21, 22*); **INDIANA** (49); **Porter**

- (Valparaiso, 21, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22)
207. *Pirata maculatus* Emerton, 1909
Carroll (Delphi, July 7, 1966, TAP); **Fountain** (Attica, July 25, 1967, TAP); **Tippecanoe** (Americus, July 27, Aug. 10, 1967, TAP); **Fulton** (Rochester, July 27, 1967, TAP)
208. *Pirata marxi* Stone, 1890
Wayne (Richmond, 21, 22); **LaPorte** (Smith, 39, 22); **Porter** (Ind. Dunes State Park, 22); **Tippecanoe** (Ross Biological Reserve, 5)
209. *Pirata minutus* Emerton, 1885
Tippecanoe (Lafayette, 25, 22; Americus, July 27, 1967, TAP); **Wayne** (Richmond, 21, 22)
210. *Pirata montana* Emerton, 1885
Tippecanoe (Lafayette, 25)
211. *Pirata piratica* (Olivier), 1789
Steuben (Clear Lake, Aug. 13, 2, 21, 22); **Knox** (May 26, 2, 21, 22); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Dunes Acres, 38, 39; Ogden Dunes, 39); **LaPorte** (Smith, 39); **Tippecanoe** (Americus, June 23, 1966, July 27, 1967, TAP)
212. *Schizocosa bilineata* (Emerton), 1885
Wayne (Richmond, 21, 22); **Porter** (Valparaiso, 21, 22); **Tippecanoe** (Merritt's Pine Plantation, June 10, 1968, RWM)
213. *Schizocosa crassipalpis* (Emerton), 1909
Warren (S. Pine Creek, May 5, 1968, GRF)
214. *Schizocosa crassipes* (Walckenaer), 1837
Tippecanoe (Lafayette, 25, 22; Americus, July 27, Aug. 24, 1967, TAP); **Kosciusko** (Tippecanoe Lake, June 8, Aug. 17, 2, 21, 22; Vawter Park, June 1, 2, 21, 22); **Lawrence** (Michell, July 15, 2, 21, 22); **LaPorte** (Aug. 26, 2, 21, 22; Smith, 39, 22); **Wayne** (Richmond, 20, 39); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22); **Fulton** (Rochester, July 27, Aug. 2, Sept. 16, 1967, TAP); **Huntington** (Huntington, Sept. 16, 1967, TAP)
215. *Schizocosa saltatrix* (Hentz), 1844
Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); **Crawford** (Wyandotte, Apr. 17, 2, 21, 22?); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39; Ind. Dunes State Park, 22); **Carroll** (Delphi, June 23, 1966, TAP); **Posey** (Mount Vernon, June 7, 1967, TAP); **Benton** (Otterbein, May 2, 1968, JOS); **Spencer** (Santa Claus, May 8, 1966, RWM)
- Banks (2) recorded this species from Wyandotte, not Wyandotte Cave as Elliott (22) has indicated. Lowrie (39) recorded this species from Ogden Dunes, not Smith as Elliott (22) has indicated.
216. *Trochosa pratensis* (Emerton), 1885
Knox (Vincennes, Apr. 25, 2, 21, 22); **Crawford** (Wyandotte,

Aug. 17, 2, 21, 22?); **Starke** (Bass Lake, *Apr. 10, 2, 21, 22*); **Jackson** (Medora, *Sept. 24, 2, 21, 22*); **Lake** (Pine, *Oct. 29, 2, 21, 22*); INDIANA (49)

Banks (2) recorded this species from Wyandotte, not Wyandotte Cave as Elliott (22) has indicated.

FAMILY Oxyopidae

217. *Oxyopes salticus* Hentz, 1845
Wayne (Richmond, 21, 22); **Porter** (Dunes Acres, 38, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5; Ent. Research Area, *July 24, 1968, MKP*); **Carroll** (*July 7, 1966, TAP*); **Fountain** (Attica, *Aug. 25, 1967, TAP*)

FAMILY Gnaphosidae

218. *Callilepis imbecilla* (Keyserling), 1887
Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5); **Spencer** (Santa Claus, *June 5, 1966, RWM*)

The writer has a *Callilepis* in his collection, but it is not *imbecilla*.

219. *Cesonia bilineata* (Hentz), 1847
 INDIANA (9)
220. *Drassodes neglectus* (Keyserling), 1887
Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22)
221. *Drassyllus creolus* Chamberlin & Gertsch, 1940
Spencer (Santa Claus, *July 3, 11, 1966, RWM*)
222. *Drassyllus depressus* (Emerton), 1890
Tippecanoe (Lafayette, 25, 22; Merritt's Pine Plantation, *July 11, 1967, June 15, 1968, RWM*)
223. *Drassyllus rufulus* (Banks), 1892
LaPorte (Smith, 39, 22)
224. *Drassyllus virginianus* Chamberlin, 1922
Tippecanoe (4-H Leadership Camp, *July 12, 1968, TAP*)
225. *Gnaphosa sericata* L. Koch, 1866
G. bicolor (Hentz), 1847 (*bicolor* preoc. by Hahn, 1831)
 INDIANA (9); **Porter** (Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **Tippecanoe** (Merritt's Pine Plantation, *July 11, 1967, RWM*; **Warren** (S. Pine Creek, *May 5, 1968, GRF*)
226. *Haplodrassus bicornis* (Emerton), 1909
LaPorte (Smith, 39, 22)
227. *Haplodrassus signifer* (C. L. Koch), 1839
Drassus robustus Emerton, 1890
Tippecanoe (Lafayette, 25, 22); **Porter** (Dunes Acres, 38, 39, 22); **Lake** (Miller, 39, 22; Smith, 39, 22)
228. *Herpyllus ecclesiasticus* Hentz, 1832
H. vasifer (Walckenaer), 1837
Tippecanoe (Lafayette, 21, 22, *June 20, 1968, TAP*); **Putnam**

(Greencastle, 2, 21, 22; Bainbridge, *Apr. 23, 1967*, TAP); Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); Lake (Munster, *May 2, 1968*, TAP); Vanderburgh (Evansville, *May 10, 1968*, TAP); Fulton (Rochester, *Aug. 29, 1967*, TAP); Gibson (Mount Carmel, *July 27, 1966*, TAP)

The writer can see no reason why many have chosen to use Walckenaer's *Drassus vasifer*, rather than Hentz's *Herpyllus ecclesiasticus*. Hentz (28) gives an accurate description of the species, gives it a valid name, and tells of its habits. He states, on page 102, ". . . ; and a blackish one with a white band on the cephalothorax, a band on the abdomen, beginning at base and reaching the middle, and a spot near the apex white. This one attains a great size and is found in houses, under stones, planks, the bark of decaying trees, etc. I call it *H. ecclesiasticus*, . . ."

Elliott (22) lists *Nodocion* sp. for number 206. The specimen was taken at Richmond, Wayne Co., Indiana. Levi (34) described *Nodocion melanie* from Wisconsin. Elliott's specimen may be this species, but the writer has not had the opportunity to examine the specimen. Three other species of *Nodocion* are found in the West.

229. *Sergiolus capulatus* (Walckenaer), 1837

S. variegatus (Hentz), 1847

Kosciusko (Tippecanoe Lake, *June 6, 2, 21, 22*); INDIANA 49, 9); Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22); Tippecanoe (Ross Biological Reserve, 5)

230. *Sergiolus montanus* (Emerton), 1890

(*nec montanus* Emerton, 1909)

Sullivan (Merom Station, *July 21, 1966*, TAP)

Wilton Ivie of The American Museum of Natural History determined this specimen.

231. *Sosticus insularis* (Banks), 1895

Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); Tippecanoe (Americus, *July 27, 1967*, TAP)

232. *Zelotes duplex* Chamberlin, 1922

Tippecanoe (Ross Biological Reserve, 5); Posey (Mount Vernon, *Aug. 18, 1966*, TAP); Spencer (Santa Claus, *May 22, July 24, 1966*, RWM)

233. *Zelotes hentzi* Barrows, 1945

Fountain (Attica, *Aug. 25, 1967*, TAP); Warren (S. Pine Creek, *Apr. 13, 1968*, GRF)

The writer's specimen was determined by Wilton Ivie of The American Museum of Natural History.

This species, which occurs in the West, may be synonymous to *Zelotes melancholica* (Thorell), 1877, according to Kaston (32).

234. *Zelotes laccus* (Barrows), 1919

Tippecanoe (Ross Biological Reserve, 5; Merritt's Pine Plantation, *July 20, 1968*, RWM)

235. *Zelotes subterraneus* (C. L. Koch), 1839*Z. ater* (Hentz), 1832

Crawford (Wyandotte, Apr. 17, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22); Fulton (Rochester, Sept. 16, 1967, TAP)

The writer has arbitrarily assigned the record of Banks (2) and Elliott (20, 21, 22) to *Zelotes subterraneus*. Hentz (28) probably had two species when he described *Herpyllus ater*. The writer refers the reader to Kaston (32), pages 356 and 357, for a discussion of this taxonomic problem.

FAMILY Clubionidae

236. *Agroeca minuta* Banks, 1895

Wayne (Richmond, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Ogden Dunes, 39, 22)

237. *Agroeca pratensis* Emerton, 1890

Marshall (Arlington, 2, 21, 22); INDIANA (49)

238. *Castianeira cingulata* (C. L. Koch), 1842

Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); LaPorte (Smith, 39, 22); Tippecanoe (Ross Biological Reserve, 5; Americus, Aug. 10, 1967, TAP)

239. *Castianeira descripta* (Hentz), 1847

Tippecanoe (Lafayette, 25, 22); Putnam (Greencastle, 2, 21, 22); Fountain (Attica, Aug. 25, Sept. 7, 1967, TAP); Huntington (Huntington, July 27, 1967, TAP)

240. *Castianeira longipalpus* (Hentz), 1847

Kosciusko (Tippecanoe Lake, Aug. 17, 2, 21, 22); Knox (July 2, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); LaPorte (Smith, 39, 22)

241. *Castianeira trilineata* (Hentz), 1847

INDIANA (40, 49); Porter (Dunes Acres, 38, 39, 22)

Marx (40) recorded this species for Indiana, not Hentz, as Elliott (22) has indicated. Elliott (22) lists Fox as having recorded this species from Lafayette. Actually Fox (25) obtained his Lafayette record from Marx's catalogue, as he states in a footnote at the bottom of page 268.

242. *Chiracanthium inclusum* (Hentz), 1847

Knox (Vincennes, Aug. 23, 2, 21, 22)

243. *Clubiona abbotii* L. Koch, 1866

Tippecanoe (Lafayette, 25, 22, Apr. 22, 1968, TAP; Americus, June 23, 1966, TAP); Marshall (Arlington, June 10, 2, 21, 22); INDIANA (49); Huntington (Huntington, June 29, 1966, TAP); Sullivan (Merom Station, July 20, 1966, July 18, 1967, TAP); Fountain (Attica, Aug. 3, 1966, Sept. 7, 1967, July 4, 1968, TAP)

244. *Clubiona elizabethae* Kaston, 1945

Tippecanoe (Ross Biological Reserve, 5)

245. *Clubiona obesa* Hentz, 1847
 Wayne (Richmond, 20, 21, 22); Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22); Huntington (Huntington, June 28, 1966, TAP); Posey (Mount Vernon, June 7, 1967, TAP)
246. *Clubiona pallens* Hentz, 1847
 Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22); LaPorte (Smith, 39, 22); Tippecanoe (Ross Biological Reserve, 5)
247. *Clubiona plumbi* Gertsch, 1941
 Gibson (Mt. Carmel, July 27, 1966, TAP); Tippecanoe (Americus, Aug. 1, 1967, TAP)
248. *Clubiona pygmaea* Banks, 1892
 Tippecanoe (Americus, June 23, 1966, TAP)
249. *Clubiona riparia* L. Koch, 1866
 Cass (Logansport, Aug. 3, 1967, TAP)
250. *Clubiona tibialis* Emerton, 1890
 Cass (Logansport, July 6, 1966, TAP); Gibson (Mt. Carmel, July 27, 1966; TAP); Fountain (Attica, Aug. 3, 1966, TAP); Posey (Mt. Vernon, Aug. 18, 1966, June 7, 1967, TAP); Carroll (Delphi, Aug. 3, 1967, TAP); Fulton (Rochester, July 27, 1967, TAP)
251. *Clubiona tribola* Banks, 1907
 Crawford (Wyandotte, 2, 3 49, 21, 22)
- This species was described as new by Banks (2) on the basis of one female. It was taken at Wyandotte, not in Wyandotte Cave, as Petrunkevitch (49) has indicated.
252. *Meriola decepta* Banks, 1895
 Tippecanoe (Ross Biological Reserve, 5)
253. *Micaria aurata* (Hentz), 1847
 Porter (Dunes Acres, 39, 22; Ind. Dunes State Park, 22)
254. *Micaria montana* Emerton, 1890
 Porter (Dunes Acres, 38)
255. *Phrurolithus similis* Banks, 1895
 Wayne (Richmond, 20, 21, 22)
256. *Phrurotimpus alarius* (Hentz), 1847
Phrurolithus palustris Banks, 1892
 Posey (Grand Chain, May 12, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Ogden Dunes, 39, 22); Tippecanoe (Ross Biological Reserve, 5); Spencer (Santa Claus, May 8, 15, 22, 29, June 5, 12, 26, July 11, 14, Aug. 15, 1966, RWM)
257. *Phrurotimpus borealis* (Emerton), 1911
 Spencer (Santa Claus, June 5, 1966, RWM); Gibson (Mt. Carmel, Sept. 23, 1967, TAP)

258. *Phrurotimpus minutus* (Banks), 1892
 Spencer (Santa Claus, *Sept. 4, 1966*, RWM)
259. *Trachelas tranquillus* (Hentz), 1847
 Tippecanoe (Lafayette, 25, 22, *Sept. 26, 1966*, TAP; West Lafayette, *Sept. 30, 1966*, JWB); Kosciusko (Tippecanoe Lake, *June 8, 2, 21, 22*); Putnam (Greencastle, 2, 21, 22); Dubois (Huntingburg, 2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); Bartholomew (Columbus, *Oct. 25, 1967*, TAP)
260. *Zora pumila* (Hentz), 1850
 Tippecanoe (Ross Biological Reserve, 5)

FAMILY Anyphaenidae

261. *Anyphaena celer* (Hentz), 1847
 LaPorte (Smith, 39, 22); Porter (Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); Tippecanoe (Ross Biological Reserve, 5)
262. *Anyphaena fraterna* (Banks), 1893
 Tippecanoe (Ross Biological Reserve, 5); Warren (South Pine Creek, *May 5, 1968*, GRF)
263. *Anyphaena pectorosa* L. Koch, 1866
 Wayne (Richmond, 20, 21, 22, 39); LaPorte (Smith, 39, 22)
264. *Anyphaenella saltabunda* (Hentz), 1847
 Wayne (Richmond, 20, 21, 22); Porter (Valparaiso, 21, 22); Brown (Nashville, 21, 22); Tippecanoe (Ross Biological Reserve, 5; Ent. Research Area, *July 24, 1968*, MKP)
265. *Aysha gracilis* (Hentz), 1847
Anyphaena rubra Emerton, 1890
 Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); Lake (Hammond, *June 16, 2, 21, 22*); Fountain (Veedersburg, *May 12, 2, 21, 22*); INDIANA (49); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22)

This species is not synonymous with *Microthema gracilis* Walck. (sic), *Acrosoma gracilis* Walck. (sic), and *Epeira rugosa* as Elliott (22) has indicated.

266. *Sillus conspersa* (Keyserling), 1887
Anyphaena conspersa Keyserling, 1887
 Lake (Hessville, 53; Liverpool, 53)

F.O.P.—Cambridge erected the genus *Sillus* in 1900, not in 1896, as Petrunkevitch (49) has indicated.

FAMILY Thomisidae

267. *Coriarachne lenta* (Walckenaer), 1837
Xysticus versicolor (Keyserling), 1880
 Crawford (Wyandotte, *Apr. 17, 2, 21, 22*); Posey (Grand Chain, *Apr. 19, 2, 21*); Parke (Mecca, *Apr. 27, 2, 21, 22*); Floyd (New Albany, *May 4, 2, 21, 22*); Putnam (Greencastle, 2, 21, 22); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22)

Banks (2) did not record this species from Vincennes as Elliott (22) has indicated.

268. *Ebo latithorax* Keyserling, 1883
Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22);
Tippecanoe (Ross Biological Reserve, 5)
269. *Ebo pepinensis* Gertsch, 1933
Porter (Ogden Dunes, 39, 22)
270. *Misumena calycina* (Linnaeus), 1758
Tippecanoe (Ross Biological Reserve, 5); **Huntington** (Huntington, June 29, 1966, TAP)
721. *Misumenoides formosipes* (Walckenaer), 1837
M. aleatorius (Hentz), 1847
Steuben (Lake James, May 8, 2, 21, 22); **Lake** (Hammond, July 30, 2, 21, 22); **Posey** (Grand Chain, Sept. 5, 2, 21); **Putnam** (Greencastle, 2, 21, 22); **Porter** (Dunes Acres, 38, 39, 22); **Ogden Dunes**, 39, 22; **Ind. Dunes State Park**, 22); **LaPorte** (Smith, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5); **Sullivan** (Merom Station, July 20, 1966, TAP); **Cass** (Logansport, July 6, 1966, TAP); **Pulaski** (Winamac, Aug. 22, 1967, TAP)

Banks (2) did not record this species from Vincennes as Elliott (22) has indicated.

272. *Misumenops americanus* (Keyserling), 1880
Starke (Bass Lake, June 17, 2, 21, 22); **Posey** (Grand Chain, June 3, 2, 21, 22); **Fountain** (Attica, June 20, 2, 21, 22); **Marshall** (Culver, June 29, 2, 21, 22); **Knox** (July 2, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Porter** (Valparaiso, 21, 22)
273. *Misumenops asperatus* (Hentz), 1847
Crawford (Wyandotte, June 23, Sept. 20, Apr. 17, 2, 21, 22); **Posey** (New Harmony, May 6, 2, 21, 22); **Lake** (Pine, May 25, 2, 53, 21, 22; Miller, 53; Clark, 53; Hessville, 53; Liverpool, 53; **Dubois** (Huntingburg, 2, 21, 22); **LaPorte** (Otis, 53; Smith, 39, 22); **Porter** (Woodville, 53; Ind. Dunes State Park, 53, 22; Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Tippecanoe** (Ross Biological Reserve, 5)
274. *Misumenops oblongus* (Keyserling), 1880
Fountain (Veedersburg, May 12, 2, 21, 22; Attica, Aug. 3, 1966, TAP), **Kosciusko** (Vawter Park, June 1, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22); **Posey** (Mount Vernon, June 8, 1967, TAP); **Gibson** (Mount Carmel, July 27, 1966, TAP)
275. *Oxyptila americana* Banks, 1895
LaPorte (Smith, 39, 22)

276. *Oxyptila barrowsi* Gertsch, 1939

Lake (Pine, Oct. 29, NB, 27); Fulton (Rochester, July 27, 1967, TAP); Tippecanoe (Americus, July 27, 1967, TAP)

The male holotype of this species was taken at Pine, Indiana, by Nathan Banks in 1907. He recorded it as *O. conspurcata* Thorell, 1877. Gertsch described *O. barrowsi* in 1939, using Banks' Pine, Ind., record as the holotype. Dr. Gertsch determined both of the writer's male specimens.

277. *Oxyptila conspurcata* Thorell, 1877

Knox (May 26, 2, 21, 22; Cypress Swamp, Sept. 25, 2, 21, 22); INDIANA (49); Tippecanoe (Ross Biological Reserve, 5)

Gertsch (27) found that Banks' Pine, Ind., collection was *Oxyptila barrowsi* n.sp.

278. *Oxyptila monroensis* Keyserling, 1883

Wayne (Richmond, 20, 21, 22)

279. *Philodromus abbotii* Walckenaer, 1837

P. marxii Keyserling, 1889

P. ornatus Banks, 1892

Posey (Arlington June 10, 2, 21, 22); LaPorte (Wilders, July 25, 2, 21, 22; Smith, 39, 22); INDIANA (49)

280. *Philodromus alasciensis* Keyserling, 1883

Lake (Miller, 53; Pine, 53); Porter (Ind. Dunes State Park, 53, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22)

The preferred spelling of this species is as above, not *P. alaskensis*, as Shelford (53) has indicated.

281. *Philodromus cespiticolis* Walckenaer, 1802

P. aureolus (of most authors)

Lake (Hammond, June 16, 2, 21, 22, 19); Knox July 2, 2, 21, 22, 19; Vincennes, Aug. 23, 2, 21, 22); INDIANA (49); Porter (Dunes Acres, 38, 39, 22, 19; Ogden Dunes, 39, 22, 19); Tippecanoe (Americus, June 23, 1966, TAP); Carroll (Delphi, July 7, 1966, TAP); Posey (Mount Vernon, 19, Aug. 18, 1966, June 8, 1967, TAP); Gibson (Mount Carmel, July 27, 1966, TAP); Sullivan (Merom Station, July 20, 21, 1966, TAP); Vermillion (Clinton, July 14, 1966, TAP); Pulaski (Winamac, June 16, 1966, Aug. 22, 1967, TAP); Fountain (Attica, July 25, 1967, TAP); Fulton (Rochester, July 27, 1966, TAP)

282. *Philodromus imbecillus* Keyserling, 1880

Porter (Dunes Acres, 38)

283. *Philodromus keyserlingi* Marx, 1890

P. washita Banks, 1932

Posey (Arlington, June 10, NB, 19); Huntington (Huntington, June 28, 1966, TAP), Vermillion (Clinton, July 20, 1967, TAP)

Dondale (19) considers *P. washita* a synonym of *P. keyserlingi* Marx, 1890, whereas Kaston (32) considers them distinct species. The writer considers them synonymous. Banks (2) originally recorded this species as *Philodromus placidus* Banks, 1892.

284. *Philodromus pernix* Blackwall, 1846
Kosciusko (Tippecanoe Lake *June 17*, 2, 21, 22); **Posey** (Grand Chain, *June 3*, *July 8*, 2, 21, 22); **Lake** (Pine, *Oct. 29*, 2, 21, 22; Miller, 53; Clark, 53); **Knox** (*July 2*, 2, 21, 22); **Putnam** (Green-castle, 2, 21, 22); **Porter** (Ind. Dunes State Park, 53, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **Wayne** (Richmond, 21, 22); **Pulaski** (Winamac, *June 15, 16, 1966*, TAP); **Tippecanoe** (West Lafayette, *Apr. 17, 1968*, TAP); **Benton** (Otter-bein, *Apr. 29, 1968*, JOS); **LaPorte** (LaPorte, *June 19, 1968*, TAP)
- Banks (2) did not record this species from Vincennes, as Elliott (22) has indicated.
285. *Philodromus placidus* Banks, 1892
Knox (Vincennes *July 10*, 2, 21, 22); **Posey** (Grand Chain, *May 12*, *July 8*, 2, 21, 22); **Lake** (Pine, *June 29*, 2, 21, 22); **Marshall** (Culver, *June 29*, 2, 21, 22); **Pulaski** (Winamac, *June 16, 1966*, TAP)
286. *Philodromus praelustris* Keyserling, 1880
Starke (Bass Lake, *Apr. 9*, NB, 19)
- Banks (2) originally recorded this collection as *Philodromus vulgaris* Hentz, which is a synonym of *Philodromus pernix*. Dondale (19) found that Banks' Bass Lake record was actually *Philodromus praelustris*.
287. *Philodromus rufus* Walckenaer, 1825
Kosciusko (Tippecanoe Lake, *June 6*, 2, 21, 22); **Posey** (Arlington, *June 10*, 2, 21, 22); **Porter** (Dunes Acres, 38, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5); **Fulton** (Rochester, *June 7, 1966*, TAP); **Pulaski** (Winamac, *June 16, 1966*, TAP); **Parke** (*June 26, 1967*, TAP)
288. *Philodromus satullus* Keyserling, 1880
Wayne (Richmond, 20, 21, 22); **Tippecanoe** (Ross Biological Reserve, 5)
289. *Philodromus thorelli* Marx, 1889
Porter (Dunes Acres, 38, 39, 22)
290. *Synema varians* (Walckenaer), 1837
S. parvulum (Hentz), 1847
Posey (Arlington, *June 10*, 2, 21, 22; Grand Chain, *May 12*, 2, 21, 22); **Fountain** (Veedersburg, *May 12*, 2, 21, 22); **Marshall** (Culver, *June 29*, 2, 21, 22); **INDIANA** (49)
291. *Thanatus formicinus* (Olivier), 1789
Warren (Pine Village, *June 1, 1968*, TH)
292. *Tibellus duttoni* (Hentz), 1847
Lake (Pine, *Oct. 29*, 2, 21, 22); **Kosciusko** (2, 21, 22)
Tibellus duttoni (Hentz) is not synonymous with *Tibellus oblongus* (Walckenaer), as Elliott (21, 22) has indicated.
293. *Tibellus maritimus* (Menge), 1874
Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22)

294. *Tibellus oblongus* (Walckenaer), 1802
LaPorte (Wilders, *July 25*, 2, 21; Smith, 39, 22); **Putnam** (Greencastle, 2, 21, 22); **Wayne** (Richmond, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22); **Brown** (Nashville, 21, 22); **Tippecanoe** (*Sept. 28, 1966*, JDH); **Cass** (Logansport, *July 6, 1966*, TAP); **Fulton** (Rochester, *July 27, 1967*, TAP)
295. *Tmarus angulatus* (Walckenaer), 1837
Wayne (Richmond, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22)
296. *Tmarus rubromaculatus* Keyserling, 1880
Tippecanoe (Ross Biological Reserve, 5)
297. *Xysticus autificus* Keyserling, 1880
Pulaski (Winamac, *June 20, 1966*, TAP); **Tippecanoe** (Americus, *July 4, 1968*, TAP)
 Drs. Redner and Turnbull of the Research Institute at Belleville, Ontario, Canada determined the specimen taken at Winamac.
298. *Xysticus banksi* Bryant, 1933
LaPorte (Smith, 39, 22)
299. *Xysticus bicuspis* Keyserling, 1887
Tippecanoe (Merritt's Pine Plantation, *Apr. 29, May 1, 8, 1968*, RWM)
300. *Xysticus discursans* Keyserling, 1880.
Sullivan (Sullivan, *July 11, 1966*, RWM)
301. *Xysticus elegans* Keyserling, 1880
Lake (Miller, 39); **LaPorte** (Smith, 39, 22)
302. *Xysticus fraternus* Banks, 1895
Wayne (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, (Greencastle, 2, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22)
303. *Xysticus gulosus* Keyserling, 1880
LaPorte (Wilders, *July 25*, 2, 21, 22; Smith, 39, 22); **Putnam** (Greencastle, 2, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **Tippecanoe** (West Lafayette, *Oct. 19, 1966*, TAP)
304. *Xysticus luctans* (C. L. Koch), 1845
Kosciusko (2, 21, 22)
305. *Xysticus punctatus* Keyserling, 1880
X. formosus Banks, 1892
Lake (Pine, 53), **Porter** (Ind. Dunes State Park, 53)
306. *Xysticus transversatus* (Walckenaer), 1837
X. ferox (Hentz), 1847
INDIANA (40); **Knox** (Vincennes, *Aug. 23*, 2, 21, 22); **Posey** (Arlington, *June 10*, 2, 21, 22, *June 7, 1967*, TAP); **Crawford** (Wyandotte, *July 25*, 2, 21, 22); **Starke** (Bass Lake, *June 22*,

2, 21, 22); **Marshall** (Culver, *June 29*, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Porter** (Valparaiso, 21, 22); **LaPorte** (Smith, 39, 22); **Spencer** (Santa Claus, *May 8, 22, 29, June 12, 1966*, RWM); **Vanderburgh** (Evansville, *June 25, 1968*, TAP)

307. *Xysticus transversus* Banks, 1892

Posey (New Harmony, *Feb. 23*, 2, 21, 22); **INDIANA** (49)

The writer does not consider this species a valid one. The description was based on a single, immature specimen. He must report it, however, since it was taken in Indiana.

308. *Xysticus triguttatus* Keyserling, 1880

Lake (Hammond, *July 30*, 2, 21, 22); **LaPorte** (Wilders, *July 25*, 2, 22), **INDIANA** (49); **Wayne** (Richmond, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)

309. *Xysticus tumefactus* (Walckenaer), 1837

X. funestus Keyserling, 1880

X. nervosus Banks, 1892

Kosciusko (Tippecanoe Lake, *June 6*, 2, 21, 22); **Marshall** (Culver, *June 29*, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **INDIANA** (49); **Wayne** (Richmond, 20, 21, 22); **Porter** (Valparaiso, 21, 22); **Harrison** (Corydon, *Oct. 29, 1967*, TAP); **Tippecanoe** (West Lafayette, *Oct. 4, 1967*, TAP; Merritt's Pine Plantation, *Oct. 30, 1967*, RWM)

FAMILY Salticidae

310. *Admestina tibialis* (C. L. Koch), 1848

Porter (Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39, 22)

311. *Agassa cerulea* (Walckenaer), 1837

A. cyanea (Hentz), 1845

Lake (Hammond, *June 16*, 2, 21, 22); **INDIANA** (49)

312. *Attus rarus* Hentz, 1846

Putnam (Greencastle, 2, 21, 22)

Petrunkevitch (49), page 730, says that the identification of this spider is impossible because of the meager description given by Hentz.

313. *Attus rufus* Hentz, 1846

Tippecanoe (Lafayette, 25, 22); **Knox** (Vincennes, *July 10*, 2, 21, 22); **Crawford** (Wyandotte, *Sept. 9*, 2, 21, 22); **Starke** (Bass Lake, *June 17*, 2, 21, 22); **Posey** (Grand Chain, *July 8*, 2, 21, 22); **LaPorte** (Wilders, *July 25*, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22)

The status of *Attus rufus* Hentz, 1846 remains in question. Banks (3) synonymized this species with *Phidippus whitmani* Emerton, 1909. Kaston (32) following Petrunkevitch (49) states that *Attus rufus* Hentz is unknown to modern araneologists since the descriptions are too meager to place this spider in a proper genus.

Elliott (21, 22) synonymized *A. rufus* with *P. whitmanii* Peckham, 1909. The writer is convinced that *Attus rufus* Hentz must remain as is, and that *Phidippus rufus* Peckham, 1888 and *Phidippus whitmanii* Emerton, 1909 are synonyms of *Phidippus whitmanii* Peckham, 1909.

314. *Evarcha hoyi* (Peckham), 1883
Porter (Dunes Acres 38, 39, 22); Tippecanoe (Ross Biological Reserve, 5)
315. *Habrocestum morosum* (Peckham), 1888
Tippecanoe (Lafayette, 25)
316. *Habrocestum pulex* (Hentz), 1846
Tippecanoe (Lafayette, 25, 22; West Lafayette, *June 20, 1966*, TAP); Crawford (Wyandotte, *Sept. 8, 2, 21, 22*); INDIANA (49); Wayne (Richmond, 20, 21, 22, 39); Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22); Fulton (Rochester, *July 27, 1967*, TAP); Carroll (Delphi, *June 23, 1966*, TAP); Vermillion (Clinton, *July 20, 1967*, TAP)
317. *Habronattus agilis* (Banks), 1893
Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)
318. *Habronattus borealis* (Banks), 1895
Steuben (Crooked Lake, 21, 22); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)
319. *Habronattus calcaratus* (Banks), 1904
Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)
320. *Habronattus decorus* (Blackwall), 1846
Pellenes roseus (Hentz), 1846
Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22); Huntington (Huntington, *July 27, 1967*, TAP)
Hentz's description of *Attus roseus* was published in June of 1846, whereas Blackwall published his description of *Salticus decorus* in January of 1846.
321. *Hasarius adansonii* (Audouin), 1827
Sidusa borealis Banks, 1904
Porter (Dunes Acres, 39, 22; Ind. Dunes State Park, 22)
322. *Hentzia ambigua* (Walckenaer), 1837
Wala palmarum (Hentz), 1845
Lake (Hammond, *May 29, June 16, July 30, 2, 21, 22*; Pine, *May 25, 2, 21, 22*); Posey (Arlington, *June 10, 2, 21, 22*); INDIANA (49); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); Huntington (Huntington, *Aug. 15, 1967*, TAP)
323. *Hentzia mitrata* (Hentz), 1845
Tippecanoe (Lafayette, 25); Posey (Arlington, *June 10, 21, 22*; Grand Chain, *May 12, June 3, July 8, 2, 21, 22*); Martin (Shoals, *May 16, 2, 21, 22*); Fountain (Veedersburg, *May 12, 2, 21, 22*); Kosciusko (Vawter Park, *June 1, 2, 21, 22*); INDIANA (49);

LaPorte (Otis, 53; Smith, 39, 22); **Porter** (Woodville, 53; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22)

324. *Hycia bina* (Hentz), 1845

Posey (Mount Vernon, June 8, 1967, TAP)

This specimen was determined by Wilton Ivie of The American Museum of Natural History. He considers *Icius formosus* Banks, 1892 a synonym of *Hycia bina*.

325. *Hycia pikei* Peckham, 1888

Wayne (Richmond, 21, 22)

326. *Icius elegans* (Hentz), 1845

Tippecanoe (Lafayette, 25, 22); **Lake** (Hammond, May 29, 2, 21, 22); **Posey** (Arlington, June 10, 2, 21, 22); **Knox** (July 2, 2, 21, 22); **Starke** (Bass Lake, June 22, 2, 21, 22); **Martin** (Shoals, May 16, 2, 21, 22); **Marshall** (Culver, June 29, 2, 21, 22); **Porter** (Dunes Acres, 38, 22); **LaPorte** (Smith, 39, 22)

327. *Icius hartii* Emerton, 1891

Wayne (Richmond, 20, 21, 22, 39); **Brown** (Nashville, 21, 22); **LaPorte** (Smith, 39)

328. *Icius similis* Banks, 1895

Tippecanoe (West Lafayette, June 20, 1966, TAP)

329. *Maevia inclemens* (Walckenaer), 1837

M. vittata (Hentz), 1845

M. niger (Hentz), 1845

Tippecanoe (Lafayette, 25; Ross Biological Reserve, 5); **Posey** (Arlington, June 10, 2, 21, 22); **Floyd** (New Albany, 2, 21, 22); **Lake** (Hessville, 53; Liverpool, 53); **Wayne** (Richmond, 20, 21, 22, 39); **Steuben** (Crooked Lake, 21, 22); **Brown** (Nashville, 21, 22); **Porter** (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 38, 22); **Huntington** (Huntington, June 29, 1966, TAP)

330. *Marpissa undata* (DeGreer), 1778

Marptusa familiaris Emerton, 1891

Tippecanoe (Lafayette, 25; Americus, June 23, 1966, TAP); **Putnam** (Greencastle, 2, 21, 22); **Dubois** (Huntingburg, 2, 21, 22); **LaPorte** (Smith, 39, 22; LaPorte, May 15, 1968, TAP)

331. *Metaphidippus canadensis* (Banks), 1897

Tippecanoe (Ross Biological Reserve, 5)

332. *Metaphidippus flavipedes* (Peckham), 1888

Tippecanoe (Ross Biological Reserve, 5)

333. *Metaphidippus flavus* (Peckham), 1888

Porter (Dunes Acres, 38, 39, 22)

334. *Metaphidippus galathea* (Walckenaer), 1837

Porter (Ogden Dunes, 39); **Tippecanoe** (Ross Biological Reserve, 5); **Carroll** (Delphi, July 7, 1966, TAP)

335. *Metaphidippus protervus* (Walckenaer), 1837
Dendryphantes capitatus (Hentz), 1845
D. octavus (Hentz), 1845
Tippecanoe (Lafayette, 25, 22; Ross Biological Reserve, 5); **Lake** (Hammond, May 29, June 16, July 30, 2, 21, 22; Pine, June 29, 2, 53, 21, 22); **Marshall** (Arlington, June 10, 2, 21, 22; Culver, June 29, 2, 21, 22); **Posey** (Grand Chain, May 12, June 3, 2, 21, 22); **Crawford** (Wyandotte, June 25, 26, 2, 21, 22); **Starke** (Bass Lake, June 22, 2, 21, 22); **Martin** (Shoals, May 16, 2, 21, 22); **Fountain** (Attica, June 20, 2, 21, 22; Veedersburg, May 12, 2, 21, 22); **Floyd** (New Albany, 2, 21, 22); **Kosciusko** (Vawter Park, June 1, 2, 21, 22); **Porter** (Ind. Dunes State Park, 53; Valparaiso, 21, 22; Dunes Acres, 38); **Wayne** (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Brown** (Nashville, 21, 22); **LaPorte** (Smith, 39, 22)
336. *Neon nellii* Peckham, 1888
Wayne (Richmond, 20, 21, 22); **Steuben** (Crooked Lake, 21, 22); **Brown** (Nashville, 21, 22); **Porter** (Valparaiso, 21, 22)
337. *Onondaga lineata* (C. L. Koch), 1848
Tippecanoe (Ross Biological Reserve, 5)
338. *Paraphidippus aurantius* (Lucas), 1833
Attus multicolor Hentz, 1846
Putnam (Greencastle, 2, 21, 22); **Knox** (Vincennes, July 10, 2, 21, 22); **Martin** (Shoals, July 13, 2, 21, 22); **Crawford** (Wyandotte, June 25, 26, 2, 21, 22); **Posey** (Grand Chanin, July 8, 2, 21, 22)
339. *Paraphidippus marginatus* (Walckenaer), 1837
Dendryphantes militaris (Hentz), 1845
Tippecanoe (Lafayette, 25; Ross Biological Reserve, 5); **Crawford** (Wyandotte, June 25, 2, 21, 22); **Lawrence** (Mitchell, July 15, 2, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22); **Fulton** (Rochester, June 7, 1966, TAP)
340. *Paraphidippus pineus* Kaston, 1945
Tippecanoe (Ross Biological Reserve, 5); **Vermillion** (Clinton, June 13, 1966, TAP)
341. *Pellenes arizonensis* Banks, 1904
Porter (Ogden Dunes, 39, 22)
342. *Phidippus audax* (Hentz), 1844
Marion (Indianapolis, 31, 22); **Tippecanoe** (Lafayette, 25, 22, Oct. 23, 1966, RWM; West Lafayette, Sept. 20, 1966, AF, Sept. 31, 1966, TAP, May 15, 1968, KHK); **Posey** (Arlington, June 10, 2, 21, 22; New Harmony, May 6, Sept. 3, 2, 21, 22; Grand Chain, May 12, June 3, 2, 21, 22); **Starke** (Bass Lake, June 22, 2, 21, 22); **Fountain** (Attica, June 20, 2, 21, 22); **Jennings** (North Vernon, May 7, 2, 21, 22); **Marshall** (Culver, June 29, 2, 21, 22); **Putnam** (Greencastle, 2, 21, 22); **Dubois** (Huntingburg,

2, 21, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22); LaPorte (Smith, 39, 22); Benton (Otterbein, *Apr. 25, 1968*, JOS)

343. *Phidippus cardinalis* (Hentz), 1845
Jennings (North Vernon, *Sept. 14, 2, 21, 22?*); INDIANA (49)
 Banks (2) recorded this species from North Vernon, not Mount Vernon, as Elliott (22) has indicated.
344. *Phidippus fraudulentus* (Walckenaer), 1837
Dendryphantès insignarius (C. Koch), 1846
Lake (Hammond, *June 16, 2, 21, 22*); **Posey** (Arlington, *June 10, 2, 21, 22*); INDIANA (49); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22)
345. *Phidippus mccoookii* (Peckham), 1883
Porter (Dunes Acres, 38, 39, 22)
346. *Phidippus princeps* (Peckham), 1883
P. brunneus Emerton, 1891
Porter (Dunes Acres, 38, 39, 22); **LaPorte** (Smith, 39, 22)
 Lowrie (38, 39) reported *P. brunneus* Emerton, not *P. brunneus* F. Cambridge, as Elliott (22) has indicated. Emerton's *Phidippus brunneus* is a synonym of *Phidippus princeps* (Peckham), 1883.
347. *Phidippus purpuratus* Keyserling, 1884
Porter (Ogden Dunes, 39, 22)
348. *Phidippus putnami* (Peckham), 1883
Knox (*July 2, 21, 22*); **Posey** (Grand Chain, 2, 21, 22); INDIANA (49)
349. *Phidippus rimator* (Walckenaer), 1837
P. clarus Keyserling, 1884
Putnam (Greencastle, 2, 21, 22); **Wayne** (Richmond, 20, 21, 22, 39); **Brown** (Nashville, 21, 22); **Porter** (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); **LaPorte** (Smith, 39, 22); **Tippecanoe** (*July 26, 1967*, TAP; Ross Biological Reserve, 5); **Carroll** (Delphi, *Aug. 3, 1967*, TAP)
 Banks (2) recorded *Philaeus rimator* Peckham from Greencastle. As far as the writer can determine, *Philaeus rimator* is a synonym of *Phidippus rimator* (Walckenaer), 1837 and not of *Dendryphantès formosus* (Peckham), 1883, as Elliott (21, 22) has indicated. The writer bases his opinions on Petrunkevitch (49), pages 772 and 630.
350. *Phidippus variegatus* (Lucas), 1833
P. morsitans (Walckenaer), 1837
Tippecanoe (Lafayette, 25)
351. *Phidippus whitmanii* Peckham, 1909
Tippecanoe (Ross Biological Reserve, 5)
352. *Phlegra fasciata* (Hahn), 1831
P. leopardus (Hentz), 1846

- Tippecanoe** (Lafayette, 25); **Posey** (New Harmony *Sept. 3, 2, 21, 22*); **INDIANA** (49)
353. *Salticus scenicus* (Linnaeus), 1758
Tippecanoe (Lafayette, 25; West Lafayette, *May 20, 1968*, RWM); **Wayne** (Richmond, 21, 22); **Posey** (Mount Vernon, *Aug. 18, 1966*, TAP)
354. *Sitticus palustris* (Peckham), 1883
Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)
355. *Synemosyna lunata* (Walckenaer), 1837
S. formica Hentz, 1845
Posey (Arlington, *June 10, 2, 21, 22*); **Marshall**, (Culver, *June 29, 2, 21, 22*); **Wayne** (Richmond, 20, 21, 22); **Tippecanoe** (Americus, *Aug. 10, 1967*, TAP); **Franklin** (Brookville, *Sept. 1, 1966*, RWM)
356. *Talavera minuta* (Banks), 1895
Porter (Ogden Dunes, 39, 22); **Tippecanoe** (Ross Biological Reserve, 5)
357. *Thiodina iniquies* (Walckenaer), 1837
T. sylvana (Hentz), 1845
T. retarius (Hentz), 1850
Crawford (Wyandotte, *June 25, July 25, 2, 21, 22*); **Posey** Grand Chain, *June 3, 2, 21, 22*); **Dubois** (Huntingburg, 2, 21, 22)
358. *Zygoballus bettini* Peckham, 1888
Knox (*July 2, 2, 21, 22*); **INDIANA** (49); **Porter** (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); **LaPorte** (Smith, 39)
 Lowrie (39) collected this species at Smith, not Ogden Dunes, as Elliott (22) has indicated.
369. *Zygoballus nervosus* (Peckham), 1888
Porter (Dunes Acres, 39; Ogden Dunes, 39; Ind. Dunes State Park, 22)

FAMILY Dictynidae

360. *Dictyna angulata* Emerton, 1915
Tippecanoe (Ross Biological Reserve, 5)
361. *Dictyna arundinaceoides* Keyserling, 1883
Tippecanoe (Lafayette, 25, 22)
362. *Dictyna bicornis* Emerton, 1915
Porter (Ogden Dunes, 39, 22)
363. *Dictyna bostoniensis* Emerton, 1880
Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22)
364. *Dictyna foliacea* (Hentz), 1850
Lake (Miller, 53; Hessville, 53; Liverpool, 53; Clark, 53); **LaPorte** (Otis, 53; Smith, 39, 22); **Porter** (Woodville, 53; Ind.

- Dunes State Park, 53, 22; Valparaiso, 21, 22; Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22)
365. *Dictyna formidolosa* Gertsch & Ivie, 1936
D. armata Banks, 1911 (*armata* preoc. by Thorell, 1875)
 Tippecanoe (Ross Biological Reserve, 5)
366. *Dictyna frondea* Emerton, May 1888
 Lake (Hammond, *May 29*, 2, 21, 22); Marshall (Arlington, *June 10*, 2, 21, 22); INDIANA (49); Porter (Dunes Acres, 38, 39, 22; Ogden Dunes, 39, 22; Ind. Dunes State Park, 22)
 Chamberlin and Ivie (12) consider *Dictyna foliacea* and *Dictyna frondea* separate species, whereas Kaston (32) considers them synonymous.
367. *Dictyna maxima* Banks, 1892
 Tippecanoe (Ross Biological Reserve, 5)
368. *Dictyna minuta* Emerton, 1888
 Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22)
369. *Dictyna sublata* (Hentz), 1850
 Kosciusko (Tippecanoe Lake, *June 8*, 2, 21, 22; Vawter Park, *June 1*, 2, 21, 22); Posey (Grand Chain, *June 3*, 2, 21, 22; Mount Vernon, *Aug. 18, 1966, June 8, 1967*, TAP); Wayne (Richmond, 20, 21, 22); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22); Tippecanoe (Ross Biological Reserve, 5; Americus, *June 23, 1966*, TAP); Fulton (Rochester, *June 7, 1966, Sept. 16, 1967*, TAP); Pulaski (Winamac, *June 15, 16, 1966*, TAP); Huntington (Huntington, *June 29, 1966*, TAP); Cass (Logansport, *July 6, 1966, Aug. 3, 1967*, TAP); Gibson (Mount Carmel, *July 27, 1966*, TAP); Sullivan (Merom Station, *July 21, 1966, July 18, 1967*, TAP); LaPorte (LaPorte, *June 19, 1968*, TAP)
370. *Dictyna volucripes* Keyserling, 1881
 Porter (Dunes Acres, 38, 39, 22); LaPorte (Smith, 39, 22)
371. *Lathys foxii* (Marx), 1891
 Wayne (Richmond, 20, 21, 22)
372. *Scotolathys maculatus* (Banks), 1900
 Tippecanoe (Ross Biological Reserve, 5)
373. *Scotolathys pallidus* (Marx), 1891
Lathys pallida (Emerton), 1894
 Wayne (Richmond, 20, 21, 22); Tippecanoe (Ross Biological Reserve, 5)

FAMILY Ulboridae

374. *Hyptiotes cavatus* (Hentz), 1847
 Tippecanoe (Lafayette, 25, 22); Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Ogden Dunes, 38, 22); LaPorte (Smith, 39, 22)

375. *Uloborus glomosus* (Walckenaer), 1841
U. americanus (of most authors)
 Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); Porter (Valparaiso, 21, 22; Ogden Dunes, 39, 22); LaPorte (Smith, 39, 22)

Chamberlin and Ivie (12) page 139, say that *Uloborus americanus* Walckenaer, 1841 is a synonym of *Thanatidius americanus* (Walckenaer), 1841. *T. americanus* is in the family Pisauridae.

The *U. americanus* of most authors is actually *U. glomosus* (Walckenaer), 1841. Kaston (32), page 513, states, "According to Chamberlin and Ivie (1944) *americanus* is another species and ours is really *glomosus* Walckenaer 1841."

FAMILY Amaurobiidae

376. *Amaurobius bennetti* (Blackwall), 1846
 Monroe (Mayfield's Cave, 4, 22; Truett's Cave?, 2, 21, 22);
 Wayne (Richmond, 20, 21, 22, 39); Steuben (Crooked Lake, 21, 22); LaPorte (Smith, 39, 22); Putnam (Bainbridge, Apr. 23, 1967, TAP)

Banta (4), page 59, collected two specimens of this species in Mayfield's Cave. He makes no mention of a Truett's Cave collection. Banks (2) determined Banta's specimens and reported them from Truett's Cave. Banks was in error; he should have reported this species from Mayfield's Cave, not from Truett's Cave.

377. *Amaurobius ferox* (Walckenaer), 1837
 Tippecanoe (Lafayette, 25, 22); White (Brookston, June 12, 1968, TH)
378. *Titanoeca americana* Emerton, 1888
 Wayne (Richmond, 20, 21, 22, 39); Porter (Dunes Acres, 38, 39, 22; Ind. Dunes State Park, 22); Tippecanoe (Merritt's Pine Plantation, May 12, 1967, RWM)

Appendix I

NB—Banks, Nathan	KHK—Knauer, Kenneth H.
CB—Bates, Cova	GL—LaRocca, George
JWB—Brewer, J. Wayne	RWM—Meyer, Robert W.
JJD—Davis, John J.	DJM—Miller, Dale J.
RED—Dolphin, Robert E.	MKP—Parker, Martha K.
JJF—Favinger, John J.	TAP—Parker, Thomas A.
GRF—Finni, Gary R.	ES—Saugstad, Ed
AF—Frishman, Austin	JOS—Sillings, John O.
RLG—Giese, Ronald L.	HS—Speith, H.
JDH—Hacker, Jan D.	JEW—Wappes, James E.
TH—Henry, Thomas	GLW—Ward, Gertrude L.
TRH—Hintz, Thomas R.	DEW—Weaver, Dix E.

Appendix II

Obscure Collecting Localities

Americus, Tippecanoe County—The collections were made along the Tippecanoe River, approximately one mile upstream from the junction of the Tippecanoe and Wabash Rivers.

Arlington, Marshall County—Banks (2) states that this town was in Marshall County, not the Arlington in Rush County. The writer cannot determine its exact location in the county.

Buffington, Lake County—This town was formerly called Edgemoor and was located in section 26 of Calumet Township. It was later taken into Gary.

Clark, Lake County—This town was located on the eastern edge of North Township which is now Hammond.

Cypress Swamp, Knox County—This area, also known as Great Cypress Swamp, is approximately two miles northeast of the confluence of the Wabash and White Rivers.

Entomological Research Area, Tippecanoe County—This collecting area is part of the Horticultural Farm which lies approximately two miles west of the Purdue Campus on Sharon Chapel Road.

Grand Chain, Posey County—This area is approximately eight miles south of New Harmony along the Wabash River.

Hessville, Lake County—This town, which was in North Township, is now part of Hammond.

Liverpool, Lake County—This town is located at the western edge of Hobart Township.

Merritt's Pine Plantation, Tippecanoe County—This privately-owned Christmas tree plantation is located approximately $\frac{3}{4}$ mile east of the Wildcat Creek bridge on the south side of State Road 25.

Miller, Lake County—This town was located in section 6 of Hobart Township and is now part of Gary.

Mount Carmel, Gibson County—Although Mount Carmel is actually situated on the west bank of the Wabash River (Illinois), all collections were made on the east bank of the river (Indiana).

Mount Vernon, Posey County—All collections were made along the east bank of the Wabash River which is approximately eight miles due west of Mount Vernon. The Mount Vernon record for *Loxosceles reclusa* was taken in the town, not along the Wabash.

Otis, LaPorte County—This town is in New Durham Township.

Pine, Lake County—This town was situated along Lake Michigan and is now the north end of Clark Street in Gary.

Ross Biological Reserve, Tippecanoe County—This preserved area lies along the Wabash River adjacent to the staff recreation area, "The Hills." These areas are located approximately ten miles southwest of West Lafayette.

Smith, LaPorte County—This small town is located at the fork of Fail Road where it turns into 175 East Road and 125 East Road, 1.2 miles east of Tee Lake in Galena Township. The town is approximately 15 miles due east of Michigan City.

Woodville, Porter County—This town is in Liberty Township which is north of Valparaiso.

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