

Distributional Notes on Oklahoma Spiders with Additions to and Annotations on the Known Fauna

BRANLEY A. BRANSON, Eastern Kentucky University

Richmond, Kentucky

There are fewer than a dozen published papers directly concerned with the arachnid fauna of Oklahoma. Hence, anyone wishing to carry out ecological, behavioristic, or any studies on that fauna is immediately faced with a taxonomic impasse. The following list is presented with a view in mind of partially alleviating that stumbling block. Data are included for 243 specimens, representing 19 families, 45 genera, and 64 species. Fourteen species and three genera are reported for the first time: *Philodromus abbotii* Walckenaer, *Neoscona sacra* (Walckenaer), *Acacesta folifera* (Marx), *Clubiona tibialis* Emerton, *Ceratinopsis anglicana* (Hentz), *Pardosa mihvina* Hentz, *Pardosa lapidicina* Emerton, *Neoscona arkansa* Chamberlin and Ivie, *Steotoda fulva* Keyserling, *Phidippus apacheanus* Chamberlin and Ivie, *Agelenopsis spatula* Chamberlin and Ivie, *Salticus albocinctus* Peckham, *Frontinella communis* (Hentz), *Allepetra lemniscata* (Walckenaer). Most of the other records are new within the state.

COLLECTING SITES

In the species list, these sites are referred to by number in order to minimize repetition. All sites are in Oklahoma.

1. One mile south of Reed, Greer Co. 4 April 1958.
2. 3.4 miles north of Willis, Marshall Co. 25 July 1966.
3. Banks of Honey Creek, secs. 26 and 27 T. 24 N., R. 29 N., Delaware Co. 5 April 1958.
4. 313 Ramsey Street, from a burrow in a flower garden, Stillwater, Payne Co. 14 June 1958.
5. Honeysuckle vine, Afton, Ottawa Co. 1 June 1958.
6. Mouth of Mountain Fork River, McCurtain Co. 26 July 1958.
7. Banks of Pennington Creek, ½ mile south of Tishomingo, Johnston Co. 29 July 1958.
8. Banks of Pennington Creek, 2 miles south, 1 mile east of Reagan, Johnston Co. 29 July 1958.
9. Near Antelope Spring, Platt National Park, Murray Co. 18 July 1958.
10. Bolling Springs State Park, Woodward Co. 13 June 1958.
11. Turner Falls, near banks of Honey Creek, Murray Co. 26 June 1958.
12. Wooded creek bottom, 3 miles south of Reed, Greer Co. 20 July 1958.
13. Entrance to Reed Cave, 3 miles south of Reed, Greer Co. 20 July 1958.
14. Vacant storm cellar, 2 miles northwest of Mountain Park, Kiowa Co. 20 July 1958.
15. In corner of cabin, 2 miles south of Wister, LeFlore Co. 6 September 1958.

16. On grounds surrounding station 15.
17. Near banks of Turkey Creek, east of Red Oak, Latimer Co. 6 September 1958.
18. Banks of Fourche Maline Creek, 4 miles south of Red Oak, Latimer Co. 5 September 1958.
19. Banks of Fourche Maline Creek, 2 miles south of Panola, Latimer Co. 5 September 1958.
20. Under culvert, Eastern A. and M. College, Wilburton, Latimer Co. 4 September 1958.
21. "Goat Bluff," Holston Creek, 2.5 miles southeast of Summerfield, LeFlore Co. 4 September 1958.
22. Three miles south of Hodgen, LeFlore Co. 7 September 1958.
23. 13 Miles south, 2 miles east of Mooreland, Woodward Co. August 1958.
24. Seleman's Ranch, Woodward Co. 3 June 1958.
25. Front sidewalk, Life Sciences Building, Oklahoma State University, Payne Co. 18 August 1958.
26. In grass, near Konawa, Seminole Co. 10 December 1958.
27. In grass, 4 miles south of Pauls Valley, Garvin Co. 15 November 1958.
28. In grass, Collinsville, Tulsa Co. 9 December 1958.
29. Junction of Highways 10 and 60, Ottawa Co. 9 December 1958.
30. In grass, 12 miles south of Bristow, Creek Co. 17 November 1959.
31. In grass, 2 miles south of Pittsburg, Pittsburg Co. 16 November 1959.
32. In grass, Cedar, Nowata Co. 10 December 1958.
33. In grass, Indianola, Pittsburg Co. 12 January 1959.
34. In grass, 3.5 miles east of Mounds, Tulsa Co. 18 November 1959.
35. In grass, 1 mile south of Caney, Atoka Co., 15 November 1959.
36. In grass and moss, Hughes Co. 12 December 1959.
37. In grass, Perry, Noble Co. 5 November 1959.
38. In grass, Bokoshe, LeFlore Co. 13 January 1958.
39. In grass, Texhoma, Texas Co. 13 January 1959.
40. In grass, 2 miles south of Welty, Okfuskee Co. 17 November 1959.
41. In grass, Kinta, Haskell Co. 12 January 1959.
42. In grass, one mile north of Morris, Okmulgee Co. 13 January 1959.
43. In grass, Dewey Co. 13 January 1959.

44. In grass, Cleo Springs, Major Co. 9 January 1959.
45. In grass, Ramona, Washington Co. 10 December 1958.
46. In grass, Nowata, Nowata Co. 10 December 1958.
47. In grass, Nebo, Murray Co. 17 November 1959.
48. In grass, 1.8 miles north of St. Louis, Pottawatomie Co. 15 November 1958.
49. In grass, 11 miles south of Wetumka, Hughes Co. 16 November 1959.
50. In grass, 4 miles south of Bristow, Creek Co. 17 November 1959.
51. In grass, Oklahoma Co. 12 January 1959.
52. In grass, 2 miles south of Chandler, Lincoln Co. 17 November 1959.
53. In grass, one mile west of junction of highways 9 and 277, McClain Co. 18 November 1959.
54. In rolled leaf on plum tree, University of Oklahoma Biological Station, Marshall Co. 21 June 1960.
55. In general vicinity of station 54, on ground.

SPECIES LIST

- Dugesella hentzi* (Girard). 1 ♀ (55).
Loxosceles reclusa Gertsch and Mulaik. 1 immature (11); 1 ♂, 1 ♀ (10).
Ptilochorus pullulus Hentz. 2 ♂ (10); 1 immature (24).
Physocyclus enaulus Crosby. 1 ♂, 1 ♀, 1 immature (15).
Filistata hibernalis Hentz. 1 ♀ (10).
Latrodectus variolus Walckenaer. 1 ♀ (12); 1 ♀ (14).
Rhomphaea lacerta Walckenaer. 1 ♂ (6). [= *Argyrodes fictitium* (Hentz)]
Steatoda fulva Keyserling. 1 ♀ (10).
Archaearanea tepidariorum Kock. 2 ♀, 2 ♂ (10).
Frontinella pyramitela (Walckenaer). 1 ♂ (16); 1 ♂, 3 ♀ (18); 1 ♀ (19); 1 ♀ (21); 1 ♂, 2 ♀, 1 immature (22).
Frontinella communis (Hentz). ♂ (11).
Ceratinopsis anglicana (Hentz). 1 ♀ (6).
Micrathena gracilis (Walckenaer). 1 ♀ (52).
Mangora gibberosa Hentz. 2 ♂, 1 ♀ (16).
Larinia directa (Hentz). 1 immature (16).
Acacesia folijera (Marx). 1 ♀ (6).
Acanthopseira stellata (Walckenaer). 1 ♂ (1).
Neoscona sp. 1 immature (6).

Neoscona sacra (Walckenaer). 2 ♀ (6); 2 ♀ (16); 1 ♂, 1 ♀ (10); 1 ♀ (18); 1 immature (25).

Neoscona arkansa Chamberlin and Ivie. 1 ♀ (12).

Neoscona arabesca (Walckenaer). 2 immature (2); 1 immature (13); 1 immature (16).

Eustala anastera (Walckenaer). 1 ♂ (10).

Eustala triflex (Walckenaer). 1 immature (16).

Eustala cepina (Walckenaer). 1 ♀ (16).

Allepeira lemniscata (Walckenaer). 1 ♀ (54).

Araneus cornutus Clerck. 1 ♂ (6); 1 immature, 1 ♂ (11); 1 ♀ (22).

Leucauge venusta Walckenaer. 1 ♀ (1); 1 ♀ (8); 1 ♀ (18).

Tetragnatha banksi McCook. 1 ♂, 1 immature (6); 1 ♀ (11); 1 ♀ (19).

Tetragnatha sp. 1 immature (6); 1 immature (21).

Tetragnatha elongata Walckenaer. 1 ♂, 8 ♀ (6); 5 ♀ (11); 3 ♀ (19); 2 ♂, 5 ♀ (21); 1 ♂, 4 ♀ (22).

Tetragnatha laboriosa (Hentz). 1 ♀ (16); 1 ♀ (17).

Agelenopsis sp. 1 immature (6); 8 immature (10); 1 immature (17); 1 immature (19); 1 immature (21); 1 immature (22); 5 immature (27).

Agelenopsis emertoni Chamberlin and Ivie. 3 ♀ (10).

Agelenopsis spatula Chamberlin and Ivie. 1 ♂, 2 ♀ (10).

Dolomedes scriptus Hentz. 1 immature (3); 1 immature (6); 1 immature (11); 13 immature (21); 1 immature (22).

Dolomedes sexpunctatus Hentz. 2 ♂, 1 ♀ (6).

Arctosa funerea Hentz. 1 immature (5).

Pardosa paucilla Montgomery. 1 ♀ (10).

Pardosa milvina Hentz. 1 ♀ (9).

Pardosa lapidicina Emerton. 1 ♀ (9).

Pirata wacodana Scheffer (= *P. sedentarius* Montgomery). 1 ♀ (9).

Lycosa sp. 1 immature (16); 1 immature (20); 1 immature (10).

Lycosa antelucana Montgomery. 1 immature (7); 1 immature, 1 ♀ (10); 1 ♀ (14); 1 immature (1).

Lycosa rabida Walckenaer. 1 ♂, 1 ♀ (16).

Lycosa puctulata Hentz. 2 immature (16).

Geolycosa missouriensis Banks. 1 ♀ (10).

Trochosa gostuta Chamberlin. 1 ♀ (52).

Peucetia viridans Hentz. 1 immature (1); 1 ♂ (53).

Oxyopes scalaris Hentz. 1 ♀ (24).

- Herpyllus vasifer* Walckenaer. 2 immature, 1 ♂ (10).
Chiracanthium inclusum (Hentz). 1 ♂ (2); 1 immature (16).
Castianeira descripta (Hentz). 1 ♀ (10).
Clubiona sp. 1 immature (6).
Clubiona tibialis Emerton. 2 ♀, 2 immature (6).
Micaria aurata (Hentz). 1 immature (10).
Ayscha sp. 2 immature (10).
Misumenops celer Hentz. 7 ♂, 7 ♀ (2).
Misumenops oblongus Keyserling. 1 ♀ (10).
Misumenops asperatus Hentz. 1 ♀ (48).
Xysticus gulosus Keyserling. 1 immature (18).
Xysticus ferox Hentz. 1 ♂, 1 ♀ (10).
Xysticus elegans Keyserling. 1 ♀ (49).
Philodromus abboti Walckenaer. 1 ♂ (5).
Philodromus vulgaris (Hentz). 1 ♀ (10).
Tibellus duttoni Hentz. 1 ♀ (26); 1 ♂ (27); 1 ♀ (28); 1 ♀ (29);
 3 ♀ (30); 2 ♀ (31); 1 ♀ (32); 1 ♂ (33); 1 ♂ (34); 1 ♀ (35); 1 ♀ (36);
 1 ♂, 1 ♀ (37); 1 ♀ (38); 1 ♀ (39); 1 ♂ (40); 1 ♀ (41); 1 ♀ (42); 1 ♂,
 1 ♀ (43); 2 ♂ (44); 1 ♀ (45); 1 ♀ (46); 1 ♂ (47); 1 immature (50); 1
 immature (51).
Metaphidippus sp. 1 immature (10); 1 immature (19).
Metaphidippus galathea (Walckenaer). 1 ♀ (1); 1 ♂, 2 immature
 (5).
Phidippus sp. 2 immature (13).
Phidippus texanus Banks. 1 ♀ (10).
Phidippus variegatus (Lucas). 1 immature, 1 ♂ (10); 1 immature
 (24).
Phidippus rimator (Walckenaer). 1 ♀ (22); 1 immature (10).
Phidippus carolinensis Peckham. 1 ♀ (10).
Phidippus apacheanus Chamberlin and Ivie. 2 immature (23).
Hentzia ambigua (Walckenaer). 1 ♂ (10).
Metacryba undata (DeGeer). 2 immature, 1 ♂ (22).
Salticus albocinctus Peckham. 1 ♂, 5 ♀, 1 immature (24).
Ummidia sp. 1 ♀ (4).

NOTE ON THE GENUS *LATRODECTUS* IN OKLAHOMA

Considerable confusion has developed during the last few years with regard to which species of *Latrodectus* inhabit the United States. It only follows that this confusion would involve the fauna of Oklahoma. That which follows is offered in an attempt to clarify matters.

Two members of *Latrodectus* have been reported from Oklahoma, *L. mactans* (Fabricius) and *L. curacaviensis* (Müller) (Branson, 1966), the latter epithet is fide Levi (1959). However, more recent investigations (McCrone and Levi, 1964) have proved Levi's original conclusions erroneous, i. e., the form he designated *L. curacaviensis* is actually *L. variolus* Walckenaer.

To assist in distinguishing the two species, the following characters are useful.

Female—In *L. mactans* the abdomen bears the usual red hour-glass figure on the ventral surface. The ventral color pattern in *L. variolus* consists of a pair of red, transverse bars, the anteriormost of which may be triangular.

Males—The embolus of the palpus in *L. mactans* has three turns, whereas that of *L. variolus* has two.

According to McCrone and Levi (1964), there seems to be a tendency for *L. variolus* to build its web off the ground in brush, low trees, etc. *L. mactans* has a decided preference for low situations, especially in ground depressions.

ACKNOWLEDGMENTS: Dr. Willis J. Gertsch, American Museum of Natural History is thanked for kindly identifying the specimens. Dr. William Drew, Department of Entomology, Oklahoma State University, contributed the specimens of *Tibellus* and those listed from "grass." Dr. H. W. Levi is thanked for critical comments on the manuscript. Any errors are my own.

LITERATURE CITED

- Branson, B. A. 1966. Spiders of the University of Oklahoma Biological Station, Marshall County, Oklahoma with observations on species used by muddaubers as larval food and a review of the species known from Oklahoma. *Southwest. Natur.* 11:338-371.
- Levi, H. W. 1959. The spider genus *Latrodectus* (Araneae, Theridiidae). *Trans. Amer. Microsc. Soc.* 88:7-43.
- McCrone, J. D. and H. W. Levi. 1964. North American spiders of the *Latrodectus curacaviensis* group (Araneae:Theridiidae). *Psyche* 71:12-27.
-