



AFTER W. E. BRUNER, BY COURTESY OF THE DUKE UNIVERSITY PRESS

DRAGONFLIES OF OKLAHOMA*

RALPH D. BIRD

This list of Odonata from Oklahoma is the result of collections made by the author in 1930 and 1931, to which have been added a number of other scattered records. The list is incomplete because there are many sections of the state yet unworked and a number of species found in adjoining states will doubtless be found here. It was thought advisable, however, to publish a preliminary list rather than delay it until the publication of the Manual of Oklahoma Odonata which is in the course of preparation.

I would like to acknowledge the help and additional records obtained by my students and associates, particularly the following: W. Fisher, O'Reilly Sandoz, Z. Logsdon, Eugene Webster, A. C. Redding, Earl Pritchard, a high school boy in Oklahoma City, and my wife, Lois Bird. Help in the identification of difficult species has been kindly given by Mr. E. B. Williamson and Dr. P. P. Calvert. Mr. Williamson has also allowed me to use certain unpublished records of specimens collected by himself and others and now located in the University of Michigan collections.

Two short lists of Oklahoma Odonata§ have previously been published and for the sake of completeness these records are included and indicated by a star.

The distribution is given by counties, which may be located on the accompanying map. In counties where I have not collected the species recorded, the name of the collector is noted in parentheses following the county record. In other cases it is omitted.

FAMILY AESCHNIDAE

1. *Progomphus obscurus* Rambur

Alfalfa, Beckham, Canadian (Redding), Cleveland, Comanche (Logsdon), Cotton, Greer, Hughes, Kiowa, Latimer (Pritchard), Love, Major, Oklahoma (Pritchard), Pontotoc, Pushmataha, Tillman, Woods.

2. *Hagenius brevistylus* Selys

Delaware, Latimer, LeFlore (*Williamson), McCurtain (Ortenburger).

3. *Erpetogomphus designatus* Hagen

Comanche (H. M. Smith), Major.

4. *Gomphus externus* Hagen

Alfalfa, Caddo, Cleveland, Jackson, Murray, Pottawatomic.

*Contribution from the Zoological Laboratory, University of Oklahoma, (New Series No. 113).

§Williamson, E. B. 1914. Dragonflies collected in Texas and Oklahoma. Ent. News 25:411-415, 444-455.

Ortenburger, A. I. 1926. Odonata collected in southeastern Oklahoma in 1925. Okla. Acad. Sci. 6:219-221.

5. *Gomphus plagiatus* Selys
LeFlore (*Williamson).
6. *Gomphus militaris* Hagen
Alfalfa, Cleveland, Comanche (Pritchard, H. M. Smith), Johnston, Latimer (Pritchard), Love, McClain, Major, Maycs, Oklahoma (Pritchard), Woods.
7. *Gomphus grasinellus* Walsh
Haskell, Latimer, LeFlore (*Williamson, Ortenburger), Murray (Ireland), Oklahoma (Pritchard), Pushmataha.
8. *Gomphus submedianus* Williamson
Hughes, LeFlore (*Williamson), Oklahoma (Pritchard).
9. *Gomphus subapicalis* Williamson
Johnston, Love.
10. *Dromogomphus spoliatus* Hagen
Comanche (Pritchard), Latimer (Fisher), McClain, Oklahoma (Pritchard).
11. *Dromogomphus spinosus* Selys
Haskell, Latimer, LeFlore (*Williamson, Ortenburger, Bird).
12. *Basiaeschna janata* Say
Beckham, Caddo, Cleveland, Comanche, Jackson, Johnston, Kiowa, LeFlore (Pritchard), Murray.
13. *Anax junius* Drury
Alfalfa, Caddo, Canadian, Carter, Cleveland, Comanche, Cotton (Fisher), Garvin (L. Bird), Grady, Greer (Larcomb), Hughes, Johnston, Latimer, LeFlore, Love, McClain, McCurtain, Murray, Okmulgee (*Williamson), Oklahoma, Pittsburg, Pontotoc, Washita, Woods.
14. *Nasiaeschna penthacantha* Rambur
Cleveland, Comanche, Cotton, Latimer, Love, Major, Oklahoma (Pritchard), Pushmataha, Washita, Woods.
15. *Epiaeschna heros* Fabricius
LeFlore (*Williamson), McCurtain (*Ortenburger), Woods.
16. *Aeschna multicolor* Hagen
Major.
17. *Aeschna umbrosa* Walker
Custer (Williamson).

FAMILY LIBELLULIDAE

18. *Macromia wabashensis* Williamson
Haskell, Latimer (Fisher).
19. *Macromia pacifica* Hagen
Atoka, Comanche (Logsdon), Latimer, Pottawatomie (Webster).
20. *Macromia annulata* Hagen
Latimer (Fisher).
21. *Macromia australensis* Williamson
Latimer (Fisher), LeFlore (*Williamson).
22. *Didymops transversa* Say
Cleveland, Comanche, Johnston, Kiowa, Latimer, LeFlore, Murray, Pittsburg.
23. *Platycordulia xanthosoma* Williamson
Johnston, Latimer, LeFlore (*Williamson), McCurtain (Pritchard), Pushmataha (*Ortenburger, Bird), Sequoyah.

24. *Epicordulia princeps* Hagen
Cleveland, Comanche (Williamson), Cotton, Kiowa, Latimer, LeFlore, Love, McClain, Oklahoma (Pritchard), Pushmataha.
25. *Tetragoneuria cynosura* Say
Beckham, Caddo, Cleveland, Comanche, Hughes, Latimer, LeFlore, McClain, McCurtain, Murray, Pittsburg, Pushmataha.
26. *Tetragoneuria williamsoni* Muttkowski
LeFlore (*Williamson).
27. *Tetragoneuria canis* McLachlan
Latimer (Hooper).
28. *Somatochlora ensigera* Martin
Latimer.
29. *Somatochlora* sp.
Latimer.
30. *Perithemis domitia* Drury
Alfalfa, Canadian (Pritchard), Cleveland, Comanche (Rennie, Pritchard), Greer, Haskell, Johnston, Kiowa, Latimer, LeFlore, Love, McClain, McCurtain (Ortenburger), Major, Murray (Ireland, Pritchard), Osage, Payne, Pittsburg, Sequoyah, Tillman, Washita.
31. *Perithemis tenera* Say
LeFlore (*Williamson), McCurtain (*Ortenburger), Okmulgee (*Williamson).
32. *Celithemis eponina* Drury
Love, McCurtain (*Ortenburger).
33. *Celithemis elisa* Hagen
Latimer.
34. *Celithemis monomelaena* Williamson
Latimer (Fisher).
35. *Celithemis fasciata* Kirby
Choctaw (*Ortenburger).
36. *Erythrodiplax umbrata* Linneus
Cleveland, Cotton, Latimer, McClain, Woods.
37. *Erythrodiplax minuscula* Rambur
Comanche.
38. *Orthemis ferruginea* Fabricius
Comanche, Garvin, Haskell, Hughes, Latimer, McClain, Oklahoma (Pritchard), Pittsburg, Pushmataha, Washita.
39. *Libellula luctuosa* Burmeister
Alfalfa, Beckham, Blaine (Pritchard), Canadian (Redding, Pritchard), Cleveland, Comanche, Cotton, Greer, Harmon, Johnston, Latimer, LeFlore (*Williamson), Logan, Love, McClain, McCurtain (*Ortenburger), Major, Murray (Pritchard, Ireland), Oklahoma (Pritchard), Pottawatomie (Webster), Wagoner, Woods.
40. *Libellula croceipennis* Selys
Comanche (Logsdon), Greer, Murray (Ireland).
41. *Libellula comanche* Calvert
Woods.
42. *Libellula cyanea* Fabricius
LeFlore (*Williamson, Bird).
43. *Libellula pulchella* Drury
Alfalfa, Blaine (Pritchard), Canadian (Redding, Pritchard), Cleveland, Comanche, Garvin, Johnston, Latimer, LeFlore (*Williamson), McClain, Major, Murray (Pritchard), Oklahoma (Pritchard), Okmulgee (*Williamson), Woods, Woodward (Logsdon).

44. *Libellula incesta* Hagen

Latimer, LeFlore (*Williamson, Ortenburger, Bird), McCurtain (*Ortenburger), Pittsburg, Pushmataha (*Ortenburger, Bird).

45. *Libellula vibrans* Fabricius

LeFlore (*Williamson).

46. *Libellula axillena* Westwood

McCurtain (*Ortenburger). One female identified by Williamson but with a query.

47. *Plathemis lydia* Drury

Alfalfa, Blaine (Pritchard), Canadian (Redding), Cleveland, Comanche, Craig, Garvin, Grady, Greer, Haskell, Hughes, Kiowa, Latimer, LeFlore (*Williamson, *Ortenburger), Love, McClain, McCurtain, Major, Mayes, Murray, Oklahoma, Okmulgee (*Williamson), Pittsburg, Pottawatomie (Webster), Pushmataha, Washita, Woods, Woodward (Logsdon).

48. *Sympetrum corruptum* Hagen

Alfalfa, Beckham, Blaine (Pritchard), Bryan, Caddo, Canadian, Cimarron, Cleveland, Comanche, Cotton, Grady, Jackson (Pritchard), Johnston, Kiowa, McClain, McCurtain, Major, Murray, Oklahoma, Okmulgee (*Williamson), Stephens (Fisher), Tillman, Woods.

49. *Sympetrum ambiguum* Rambur

LeFlore (Ortenburger).

50. *Sympetrum semicinctum* Say

Woods.

51. *Sympetrum vicinum* Hagen

Cleveland, Latimer, LeFlore.

52. *Pachydiplax longipennis* Burmeister

Alfalfa, Caddo, Cleveland, Comanche, Harmon, Latimer, LeFlore (*Williamson, Bird), Logan, Love, McClain, McCurtain (*Ortenburger), Major, Murray, Oklahoma (Pritchard), Payne, Pittsburg, Pottawatomie (Webster), Pushmataha, Tulsa (L. K. Gloyd), Wagoner, Woods.

53. *Mesothemis simplicicollis* Say

Alfalfa, Beckham, Cleveland, Comanche, Greer, Harmon, Kiowa, Latimer, LeFlore (*Williamson), Logan, Love, McClain, McCurtain (*Ortenburger), Major, Murray, Oklahoma (Pritchard), Osage, Tillman, Wagoner, Woods.

54. *Lepthemis vesiculosa* Fabricius

McClain.

55. *Dythemis velox* Hagen

Comanche (Logsdon, Pritchard), Latimer, McCurtain (*Ortenburger), Murray, Pushmataha.

56. *Dythemis fujax* Hagen

Blaine (Pritchard), Comanche (Pritchard), Murray (Pritchard), Oklahoma (Pritchard).

57. *Brechmorhoga mendax* Hagen

Murray.

58. *Pantala hymenea* Say

Beckham, Blaine (Pritchard), Canadian (Redding, Pritchard), Cleveland, Comanche, Latimer, McClain, Major, Oklahoma (Pritchard), Okmulgee (*Williamson), Pittsburg, Woods.

59. *Pantala flavescens* Fabricius

Canadian (Redding), Cleveland, McClain, McCurtain (*Ortenburger), Major, Oklahoma (Pritchard), Okmulgee (*Williamson), Pottawatomie (Webster), Woods.

60. *Tramea lacerata* Hagen.

Alfalfa, Beckham, Caddo, Cleveland, Comanche (Rennic, Logsdon, Pritchard).
Garvin, Harmon, Hughes, Latimer, LeFlore, McClain, McCurtain (*Ortenburger).
Murray (Pritchard), Oklahoma (Pritchard), Pittsburg, Woods.

61. *Tramea onusta* Hagen.

Alfalfa, Blaine (Pritchard), Caddo, Canadian, Cleveland, Comanche, Garvin, Harmon, Hughes, Latimer, LeFlore, McClain, McCurtain (*Ortenburger), Major, Murray (Pritchard), Oklahoma, Pushmataha, Tillman, Washita, Woods.

FAMILY AGRIONIDAE

62. *Agrion maculatum* Beauvais

Adair, Cleveland, Comanche, Delaware (Ortenburger), McCurtain (Ortenburger),
Murray, Oklahoma (Pritchard), Ottawa, Pushmataha, Sequoyah, Washita, Woods.

63. *Hetaerina americana* Fabricius

Alfalfa, Caddo, Canadian (Redding), Cleveland, Comanche (Logsdon), Cotton,
Custer (Williamson), Harmon, Jackson, Johnston, LeFlore (*Williamson), McClain,
McCurtain (*Ortenburger), Major, Murray, Sequoyah, Woods.

64. *Hetaerina tricolor* Burmeister

Murray (Pritchard).

65. *Hetaerina titia* Drury

LeFlore (*Williamson).

FAMILY COENAGRIONIDAE

66. *Archilestes grandis* Rambur

Cleveland, Comanche, Custer (Williamson), Greer, Latimer (Fisher), McClain,
Murray, Pottawatomie (Webster), Woods.

67. *Lestes inequalis* Walsh.

LeFlore (*Williamson), Pushmataha (Pritchard).

68. *Lestes unguiculatus* Hagen

Lincoln (Williamson), McClain.

69. *Lestes forcipatus* Rambur

Caddo, Canadian, Carter, Cleveland, Comanche, Cotton (Fisher), Garvin, Grady,
Hughes, Kay (Logsdon), Kiowa (L. Bird), Latimer, McClain, Oklahoma, Pittsburg,
Pontotoc, Stephens (Fisher), Washita, Woods.

70. *Lestes rectangularis* Say

Cleveland, Major, Woods.

71. *Lestes alacer* Hagen

Cleveland, Comanche, Cotton (Fisher), Garvin, Grady, McClain, Oklahoma (L.
Bird), Washita, Woods.

72. *Argia agrioides* Calvert

Cleveland, Comanche, Jackson, Latimer, Murray, Pushmataha, Wagoner.

73. *Argia alberta* Kennedy

Alfalfa, McClain (Pritchard), Murray.

74. *Argia apicalis* (Say)

Alfalfa, Atoka, Beckham, Blaine (Pritchard), Canadian (Pritchard), Cleveland,
Comanche (Pritchard), Cotton, Craig, Delaware (Ortenburger), Greer, Harmon,
Haskell, Johnston, Kiowa, Latimer, LeFlore (*Williamson, Bird), McClain, McCurtain
(Ortenburger), Major, Mayes, Murray (Pritchard), Oklahoma (Pritchard), Pittsburg,
Pottawatomie (Webster), Sequoyah, Tillman.

75. *Argia bipunctulata* (Hagen)
Latimer.
76. *Argia immunda* (Hagen)
Cleveland.
77. *Argia intruda* Williamson
Jackson, Latimer, LeFlore (*Williamson).
78. *Argia moesta* (Hagen)
Adair, Cleveland, Comanche, Johnston, LeFlore (*Williamson), Love, McCurtain (Ortenburger), Murray, Pushmataha.
79. *Argia sedula* (Hagen)
Alfalfa, Cleveland, Johnston, McCurtain (*Ortenburger), Major, Murray, Sequoyah, Woods.
80. *Argia tibialis* Rambur
Atoka, Choctaw (*Ortenburger), Haskell, Latimer, LeFlore (*Williamson, Ortenburger), McCurtain (*Ortenburger), Mayes, Murray (Ireland), Pittsburg, Pushmataha, Sequoyah, Wagoner.
81. *Argia translata* Hagen
Johnston, Latimer, Murray.
82. *Argia violacea* Hagen
Alfalfa, Cleveland, Comanche, Cimarron, Greer, Johnston, Latimer, LeFlore (Williamson, Ortenburger), McClain, McCurtain (*Ortenburger), Murray, Oklahoma (Pritchard), Pushmataha, Wagoner, Washita, Woods.
83. *Argia vivida* Hagen
Cleveland, Comanche (Logsdon), Custer (Williamson), Johnston, Latimer, Major, Murray, Pontotoc (Larcomb), Washita, Woods.
84. *Amphiagrion saucium* Burmeister
Cleveland.
85. *Telebasis salva* Hagen
Cleveland, Custer (Williamson), McClain, Murray, Oklahoma (Pritchard).
86. *Enallagma divagans* Selys
Comanche (Pritchard), Latimer, LeFlore (*Williamson), Pushmataha.
87. *Enallagma piscinarium* Williamson
Latimer.
88. *Enallagma geminatum* Kellicott
Comanche, LeFlore (*Williamson), Murray.
89. *Enallagma laurenti* Calvert
LeFlore (L. Bird).
90. *Enallagma pollutum* Hagen
LeFlore (*Williamson).
91. *Enallagma signatum* Hagen
Cleveland, Comanche (Pritchard), Harmon, Latimer, LeFlore (*Williamson), McClain, Murray.
92. *Enallagma exsulans* Hagen
Cleveland, Haskell, Johnston, Latimer, LeFlore (*Williamson, Ortenburger), Murray (Ireland, Pritchard), Pushmataha.
93. *Enallagma antennatum* Say
Alfalfa.
94. *Enallagma carunculatum* Morse
Cimarron.

95. *Enallagma civile* Hagen
Alfalfa, Beckham (L. Bird), Caddo, Canadian, Cleveland, Cimarron, Comanche, Cotton (Fisher), Garvin, Grady, Greer, Harmon, Hughes, Jackson, Kay (Logsdon), Kiowa, Latimer, LeFlore (*Williamson, Bird), McClain, McCurtain, Major, Murray, Oklahoma, Okmulgee (*Williamson), Pittsburg, Pontotoc, Pottawatomie (Webster), Stephens (Fisher), Tillman, Washita, Woods.
96. *Enallagma praevarum* Hagen
Cimarron.
97. *Enallagma basidens* Calvert
Alfalfa, Cleveland, Comanche, Jackson, Johnston, Latimer, LeFlore, McClain, Murray, Oklahoma (Pritchard), Tillman, Woods.
98. *Enallagma aspersum* Hagen
Latimer.
99. *Enallagma traviatum* Selys
LeFlore (*Williamson).
100. *Ischnura denticollis* Burmeister
Beckham (L. Bird), Oklahoma (Pritchard), Woods.
101. *Ischnura posita* Hagen
Cleveland, Comanche, Johnston, Latimer, LeFlore (*Williamson, Bird), McClain, McCurtain, Murray, Okmulgee (*Williamson), Payne, Pittsburg, Pontotoc, Pushmataha (Pritchard), Sequoyah.
102. *Ischnura kellicotti* Williamson
LeFlore (*Williamson).
103. *Ischnura barberi* Currie
Alfalfa, Jackson, Woods, Woodward.
104. *Ischnura utahensis* Muttkowski
Alfalfa.
105. *Ischnura verticalis* Say
Alfalfa, Caddo, Carter, Cleveland, Comanche, Cotton (Fisher), Garvin, Harmon, Johnston, Kay (Logsdon), Latimer, LeFlore, Love, McClain, Murray, Oklahoma, Pittsburg, Pontotoc, Wagoner, Washita, Woods.
106. *Anomalagrion hastatum* Say
Carter, Cleveland, Comanche, Cotton (Fisher), Garvin, Harmon, Hughes, Latimer, LeFlore (*Williamson, Bird), McClain, Murray, Oklahoma, Okmulgee (*Williamson), Pittsburg, Sequoyah, Washita, Woods.