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AN ANNOTATED LIST OF THE ODONATA OF
MICHIGAN

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Entomologists interested in the fauna of Michigan have long felt the need of a list of the dragonflies of the state. The first record of Michigan Odonata was published by Hermann Hagen in 1875, in his "Synopsis of the Neuroptera of North America," in which he records 19 species of dragonflies from Detroit and Lansing. The first local list of this group for Michigan, enumerating 44 species from Corunna, Shiawassee County, was published by D. S. Kellicott, in 1894. Since that time seven regional lists have appeared, and a few general works giving "Michigan" under habitat data (see bibliography).

The present list contains 42 genera and 130 species. Of these, 120 species are recorded from my examination of 4,300 specimens, of which 2,360 were males, 1,260 females, and 680 naiads. The records include 51 of the 83 counties, rather evenly distributed over the state, making the collection a

fairly representative one. The material for the list was obtained, in the main, from the Division of Insects, Museum of Zoology, University of Michigan. The naiads, or immature forms, were collected by the Division of Fishes, of the same museum, and represent an excellent collection of running water forms. Ten of the species have been recorded on the basis of literature references only, as I was unable to locate the specimens.

In this paper I have given a list of the species of Michigan Odonata; the counties in which they were collected; the limiting dates for adult material, that is, the earliest and latest date recorded for the capture of the species; and the number of males, females and naiads of each species examined by myself, or the author and date of publication if it is a literature reference. In cases of significant synonymy the synonym is placed in parentheses after the name of the species. No ecological data have been included.

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LIST OF SPECIES

Suborder ZYGOPTERA

Family AGRIONIDAE

Subfamily AGRIONINAE

Genus *Agrion* (Fabricius)

1. *Agrion aequabile* (Say).—Alger, Cheboygan, Houghton, Livingston, Oakland, Schoolcraft and Washtenaw. June 17–August 8. 45 males; 26 females.
2. *Agrion dimidiatum apicale* (Burmeister).—Shiawassee (Kellicott, 1894).
3. *Agrion maculatum* Beauvais.—Alpena, Barry, Benzie, Berrien, Branch, Cheboygan, Crawford, Emmet, Houghton, Iosco, Jackson, Lake, Lenawee, Livingston, Mackinac, Marquette, Mason, Mecosta, Monroe, Montmorency, Muskegon, Newaygo, Oakland, Presque Isle, Schoolcraft, Van Buren and Washtenaw. May 27–September 19. 64 males; 41 females; 48 naiads.

Genus *Hetaerina* Hagen

4. *Hetaerina americana* (Fabricius).—Livingston, Monroe, Oakland, Washtenaw and Wayne. July 14–September 10. 23 males; 17 females.
5. *Hetaerina titia* (Drury) (*tricolor*).—Oakland and Wayne. July. 2 males; 1 female.

Family COENAGRIONIDAE

Subfamily LESTINAE

Genus *Lestes* Leach

6. *Lestes congener* Hagen.—Cheboygan and Chippewa. July 29 and August 5. 2 males; 1 female.
7. *Lestes disjunctus* Selys.—Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Huron, Mackinac, Marquette, Schoolcraft and Washtenaw. May 25–September 1. 61 males; 36 females.
8. *Lestes eurinus* Say.—Huron, Livingston and Oakland. June. 7 males; 3 females.
9. *Lestes forcipatus* Rambur.—Alcona, Berrien, Charlevoix, Cheboygan, Chippewa, Huron, Livingston, Oakland, Schoolcraft and Washtenaw. June 2–August 7. 41 males; 20 females; 2 naiads.
10. *Lestes inequalis* Walsh.—Livingston and Oakland. June 16. 2 males.
11. *Lestes rectangularis* Say.—Branch, Berrien, Cheboygan, Chippewa, Gogebic, Huron, Livingston, Marquette, Monroe, Oakland, Schoolcraft and Washtenaw. May 23–September 8. 38 males; 17 females.
12. *Lestes uncatulus* Kirby.—Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Huron, Livingston, Mackinac, Monroe, Montmorency, Oakland, Schoolcraft and Washtenaw. May 7–August 31. 55 males; 73 females.
13. *Lestes unguiculatus* Hagen.—Berrien, Charlevoix, Chippewa, Emmet, Houghton, Huron, Livingston, Mackinac, Oakland, Schoolcraft and Washtenaw. May 30–September 24. 101 males; 49 females.

14. *Lestes vigilax* Hagen.—Washtenaw. July 25. 2 males; 1 female.

Subfamily COENAGRIONINAE

Genus *Argia* Rambur

15. *Argia apicalis* (Say).—Shiawassee (Kellicott, 1894).
 16. *Argia moesta putrida* (Hagen).—Branch and Washtenaw. July 26–August 22. 4 males; 1 female.
 17. *Argia sedula* (Hagen).—Oakland. July 29 and August 19. 3 males; 1 female.
 18. *Argia tibialis* (Rambur).—Berrien. June 20. 3 males; 4 females.
 19. *Argia violacea* (Hagen).—Alger, Berrien, Branch, Cheboygan, Gogebic, Livingston, Marquette, Oakland and Washtenaw. June 20–August 27. 51 males; 9 females.

Genus *Enallagma* Charpentier

20. *Enallagma antennatum* (Say).—Monroe, Oakland and Schoolcraft. July. 3 males.
 21. *Enallagma calverti* Morse.—Charlevoix, Cheboygan, Huron, Livingston, Mackinac, Schoolcraft and Washtenaw. May 20–August 11. 55 males; 13 females.
 22. *Enallagma carunculatum* Morse.—Branch, Cheboygan, Chippewa, Huron, Houghton, Livingston, Mackinac, Marquette, Washtenaw and Wayne. June 21–August 18. 57 males; 26 females.
 23. *Enallagma civile* (Hagen).—Washtenaw. June 30. 1 male.
 24. *Enallagma cyathigerum* (Charpentier).—Montmorency and Washtenaw. May 23–July 13. 2 males; 1 female.
 25. *Enallagma divigans* Selys.—Oakland. July. 4 males.
 26. *Enallagma ebrium* (Hagen).—Charlevoix, Cheboygan, Chippewa, Emmet, Livingston, Monroe, Montmorency, Oakland, Schoolcraft and Washtenaw. May 19–July 29. 48 males; 3 females.

27. *Enallagma exsulans* (Hagen).—Branch, Cheboygan, Houghton, Livingston, Monroe, Oakland, Washtenaw and Wayne. June 30–August 17. 32 males; 2 females.
28. *Enallagma geminatum* Kellicott.—Branch, Livingston and Washtenaw. July 17–August 18. 2 males.
29. *Enallagma hageni* (Walsh).—Alger, Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Houghton, Huron, Livingston, Luce, Mackinac, Marquette, Monroe, Oakland, Schoolcraft, Washtenaw and Wexford. April 21–September 3. 139 males; 25 females.
30. *Enallagma pollutum* (Hagen).—Oakland. July 7. 1 male.
31. *Enallagma signatum* (Hagen).—Branch and Oakland. July. 5 males.

Genus *Nehalennia* Selys

32. *Nehalennia irene* Hagen.—Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Houghton, Huron, Livingston, Mackinac, Marquette, Monroe, Montmorency, Oakland, Schoolcraft and Washtenaw. May 11–September 1. 34 males; 30 females.

Genus *Coenagrion* Kirby

33. *Coenagrion resolutum* (Hagen).—Charlevoix. June 18. 2 males.

Genus *Amphiagrion* Selys

34. *Amphiagrion saucium* (Burmeister).—Berrien, Charlevoix, Cheboygan and Grand Traverse. June 21–July 27. 4 males; 2 females.

Genus *Chromagrion* Needham

35. *Chromagrion conditum* (Hagen).—Cheboygan, Luce, Schoolcraft and Washtenaw. July 10–August 2. 14 males; 4 females; 1 naiad.

Genus *Ischnura* Charpentier

36. *Ischnura kellicotti* Williamson.—Branch. July 30. 4 males; 10 females.

37. *Ischnura posita* (Hagen).—Cheboygan, Washtenaw and Wayne. May 23–August 7. 7 males; 1 female.
38. *Ischnura verticalis* (Say).—Berrien, Branch, Charlevoix, Cheboygan, Chippewa, Gogebic, Houghton, Huron, Iosco, Jackson, Livingston, Mackinac, Marquette, Oakland, Schoolcraft and Washtenaw. May 19–August 27. 90 males; 107 females.

Suborder ANISOPTERA

Family AESHNIDAE

Subfamily PETALURINAE

Genus Tachopteryx Selys

39. *Tachopteryx thoreyi* (Hagen).—Berrien. June 20. 1 female.

Subfamily CORDULEGASTERINAE

Genus Cordulegaster Leach

40. *Cordulegaster maculatus* Selys.—Alcona, Alpena, Barry, Benzie, Berrien, Branch, Cass, Charlevoix, Cheboygan, Crawford, Emmet, Houghton, Iosco, Jackson, Kent, Lake, Livingston, Luce, Mason, Mecosta, Montmorency, Ogemaw, Otsego, Schoolcraft and Wexford. July. 7 males; 1 female; 152 naiads.¹
41. *Cordulegaster obliquus* (Say).—Berrien. June 26. 1 female.

Subfamily GOMPHINAE

Genus Progomphus Selys

42. *Progomphus obscura* (Rambur).—Cheboygan and Washtenaw. June 28–July 8. 5 males; 5 females; 7 naiads.

Genus Hagenius Selys

43. *Hagenius brevistylus* Selys.—Alger, Alpena, Berrien, Cheboygan, Crawford, Gogebic, Iosco, Jackson, Luce,

¹ These naiads were collected by the Division of Fishes, Museum of Zoology, during the summer of 1925. The collections were made with a seine, in cold, rapid streams. Many of the other naiad records in this list were obtained from the same source.

Ontonagon, Otsego, Presque Isle and Washtenaw.
May 3–September 2. 14 males; 9 females; 28 naiads.

Genus *Ophiogomphus* Selys

44. *Ophiogomphus columbrinus* Selys.—Houghton and Montmorency. May 9 and July 12. 2 males.
45. *Ophiogomphus rupinsulensis* (Walsh).—Alpena, Charlevoix, Crawford, Emmet, Gogebic, Houghton, Huron, Iosco, Luce, Montmorency and Washtenaw. May 31–August 7. 7 males; 1 female; 31 naiads.

Genus *Gomphus* Leach

46. *Gomphus amnicola* Walsh.—Schoolcraft. July 16. 2 males; 2 females.
47. *Gomphus brevis* Hagen.—Cheboygan, Chippewa, Grand Traverse, Mackinac and Schoolcraft. June 7–July 21. 7 males; 5 females.
48. *Gomphus cornutus* Tough.—Schoolcraft. July 9–24. 5 males; 2 females.
49. *Gomphus descriptus* Banks.—Washtenaw. June 28. 1 male.
50. *Gomphus exilis* Selys.—Alger, Cheboygan, Livingston, Mackinac, Marquette, Oakland, Schoolcraft and Washtenaw. May 30–July 18. 16 males; 7 females.
51. *Gomphus externus* Hagen.—Monroe. July 14. 2 males; 1 female.
52. *Gomphus fraternus* (Say).—Huron, Monroe and Wayne. June 17–July 4. 22 males; 19 females.
53. *Gomphus furcifer* Hagen.—Chippewa. August 1. 1 male.
54. *Gomphus lineatifrons* Calvert (*dilatatus*).—Ingham (Hagen, 1875).
55. *Gomphus lividus* Selys (*sordidus*).—Charlevoix, Cheboygan, Grand Traverse, Mackinac, Oakland, Schoolcraft and Washtenaw. May 25–July 26. 17 males; 16 females.
56. *Gomphus notatus* Rambur.—Wayne (Hagen, 1875).
57. *Gomphus plagiatus* Selys.—“Michigan” (Muttkowski, 1910).

58. *Gomphus quadricolor* Walsh.—Charlevoix, Mackinac and Wayne. June 12–July 1. 5 males.
59. *Gomphus scudderi* Selys.—Schoolcraft. July 17–29. 4 males.
60. *Gomphus spicatus* Hagen.—Charlevoix, Cheboygan, Mackinac, Marquette, Oakland, Ontonagon and Washtenaw. May 29–July 28. 28 males; 23 females.
61. *Gomphus spiniceps* (Walsh).—“Michigan” (Muttkowski, 1910).
62. *Gomphus submedianus* Williamson (*pallidus*).—Wayne (Hagen, 1885).
63. *Gomphus vastus* Walsh.—Oakland and Schoolcraft. June 17 and 26. 2 males; 1 female.
64. *Gomphus ventricosus* Walsh.—Cheboygan, Jackson, Oakland, Roscommon and Washtenaw. May 17–July 24. 10 males; 7 females.
65. *Gomphus villosipes* Selys.—“Wayne” (Hagen, 1875).

Genus *Dromogomphus* Selys

66. *Dromogomphus spinosus* Selys.—Cheboygan, Jackson, Oakland and Washtenaw. June 27–August 16. 21 males; 7 females; 5 naiads.

Subfamily AESHNINAE

Genus *Boyeria* MacLachlan

67. *Boyeria vinosa* (Say).—Alcona, Alger, Alpena, Barry, Benzie, Berrien, Cheboygan, Crawford, Gogebic, Iosco, Jackson, Lake, Mason, Monroe, Oakland and Washtenaw. July 24–September 10. 10 males; 3 females; 38 naiads.

Genus *Basiaeschna* Selys

68. *Basiaeschna janata* (Say).—Alpena, Cheboygan, Grand Traverse, Iosco, Livingston, Luce, Mackinac, Montcalm, Oakland, Presque Isle, Van Buren and Washtenaw. April 18–July 3. 21 males; 5 females; 102 naiads.

Genus *Gomphaeschna* Selys

69. *Gomphaeschna furcillata* (Say).—Wayne (Hagen, 1875).

Genus *Anax* Leach

70. *Anax junius* (Drury).—Alcona, Alpena, Berrien, Charlevoix, Cheboygan, Emmet, Huron, Luce, Mecosta, Monroe, Otsego, Presque Isle, St. Clair, Washtenaw and Wayne. April 18–September 19. 30 males; 10 females; 27 naiads.

Genus *Aeshna* Fabricius

71. *Aeshna canadensis* Walker.—Alger, Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Houghton, Huron, Iosco, Livingston, Luce, Mackinac, Marquette, Oakland, Ontonagon, Schoolcraft and Washtenaw. July 4–September 21. 47 males; 38 females; 4 naiads.
72. *Aeshna clepsydra* Say.—Huron, Livingston and Washtenaw. July 16–September 11. 3 males; 1 female.
73. *Aeshna constricta* Say.—Charlevoix, Chippewa, Livingston, Mackinac, Macomb, Schoolcraft and Washtenaw. May 30–September 14. 10 males; 6 females.
74. *Aeshna eremita* Scudder.—Chippewa and Houghton. July 27–August 10. 11 males; 2 females.
75. *Aeshna interrupta* Walker.—Alcona, Allegan, Alpena, Berrien, Charlevoix, Cheboygan, Chippewa, Crawford, Houghton, Iosco, Kent, Lake, Luce, Mackinac, Marquette, Mason, Muskegon and Roscommon. July 10–August 15. 6 males; 15 females; 40 naiads.
76. *Aeshna mutata* Hagen.—Washtenaw. May 17 and 26. 2 males.
77. *Aeshna sitchensis* Hagen.—Alger, Chippewa and Houghton. July 26–August 21. 10 males; 9 females.
78. *Aeshna subarctica* Walker.—Chippewa, Gogebic and Houghton. July 31–August 12. 5 males.
79. *Aeshna tuberculifera* Walker.—Chippewa and Huron. August 3 and 6. 5 males; 3 females.
80. *Aeshna umbrosa* Walker.—Alcona, Alpena, Charlevoix, Cheboygan, Chippewa, Clare, Gogebic, Grand Traverse, Houghton, Lake, Luce, Oakland, Otsego, Schoolcraft and Washtenaw. July 10–September 4. 13 males; 6 females; 50 naiads.

81. *Aeshna verticalis* Hagen.—Cheboygan, Chippewa and Schoolcraft. June 25–July 23. 11 males; 10 females.

Genus *Epiaeschna* Hagen

83. *Epiaeschna heros* (Fabricius).—Berrien, Huron and Washtenaw. June 3–23. 2 males; 1 female.

Family LIBELLULIDAE

Subfamily CORDULIINAE

Genus *Didymops* Rambur

84. *Didymops transversa* (Say).—Cheboygan, Chippewa, Livingston, Oakland and Washtenaw. May 30–July 10. 9 males; 10 females.

Genus *Macromia* Rambur

85. *Macromia illinoiensis* Walsh.—Alpena, Charlevoix, Cheboygan, Huron, Iosco, Lenawee, Luce, Montcalm, Montmorency, Otsego and Washtenaw. June 26–July 2. 6 males; 7 females; 30 naiads.

Genus *Epicordulia* Selys

86. *Epicordulia princeps* (Hagen).—Cheboygan, Chippewa, Livingston, Montmorency, Oakland and Washtenaw. June 15–August 1. 5 males; 2 females; 2 naiads.

Genus *Neurocordulia* Selys

87. *Neurocordulia obsoleta* (Say).—Cheboygan. June 26. 1 male.

Genus *Tetragoneuria* Hagen

88. *Tetragoneuria canis* MacLachlan.—Cheboygan, Mackinac and Schoolcraft. June 7–July 10. 3 males; 1 female.
89. *Tetragoneuria cynosura* (Say).—Grand Traverse, Oakland, Washtenaw and Wayne. May 30–July 1. 5 males; 5 females; 1 naiad.
90. *Tetragoneuria simulans* Muttkowski.—Alcona, Alpena, Cheboygan, Chippewa, Emmet, Iosco, Jackson, Livingston, Luce, Montcalm, Montmorency, Oakland, Otsego, Presque Isle, Washtenaw and Wayne. May 17–July 28. 65 males; 15 females; 60 naiads.

91. *Tetragoneuria spinigera* Selys.—Charlevoix, Cheboygan, Clare, Houghton, Mackinac, Oakland, Schoolcraft and Washtenaw. May 17–July 28. 13 males; 8 females.

Genus *Dorocordulia* Needham

92. *Dorocordulia libera* (Selys).—Alpena, Livingston, Oakland and Washtenaw. May 21–July 2. 16 males; 5 females.

Genus *Cordulia* Leach

93. *Cordulia shurtleffi* Scudder.—Cheboygan, Clare, Houghton, Iosco, Luce, Mackinac, Montmorency, Oakland, Otsego and Washtenaw. May 15–July 29. 4 males; 3 females; 14 naiads.

Genus *Somatochlora* Selys

94. *Somatochlora elongata* (Scudder).—Alpena and Schoolcraft. July 3 and 28. 1 male; 1 female; 1 naiad.
95. *Somatochlora forcipata* (Scudder).—Marquette and Schoolcraft (Walker, 1925).
96. *Somatochlora franklini* (Selys).—Mackinac, Marquette and Schoolcraft. June 18–July 10. 2 males; 1 female.
97. *Somatochlora kennedyi* Walker.—Charlevoix, Cheboygan and Mackinac. June 1 and 18. 1 male; 3 females.
98. *Somatochlora incurvata* Walker.—Chippewa (Walker, 1925).
99. *Somatochlora minor* (Calvert).—Alcona, Alpena, Houghton and Luce. July 26. 1 male; 3 naiads.
100. *Somatochlora walshii* (Scudder).—Charlevoix, Emmet, Mackinac and Schoolcraft. June 18–July 25. 3 males; 3 females.
101. *Somatochlora williamsonii* Walker.—Alger, Gogebic, Luce and Mackinac. July 22 and 29. 2 males; 2 females; 1 naiad.

Subfamily LIBELLULINAE

Genus *Ladona* Needham

102. *Ladona exusta* (Say).—Alger, Charlevoix, Cheboygan, Emmet, Livingston, Mackinac, Oakland, Schoolcraft

and Washtenaw. May 17–July 28. 35 males; 19 females; 2 naiads.

Genus *Libellula* Linné

103. *Libellula cyanea* Fabricius.—Chippewa, Livingston, Oakland and Washtenaw. June 26–August 1. 6 males; 3 females.
104. *Libellula incesta* Hagen.—Chippewa, Livingston, Oakland, Washtenaw and Wayne. May 17–August 27. 10 males; 6 females.
105. *Libellula luctuosa* Burmeister (*basalis*).—Berrien, Branch, Chippewa, Huron, Livingston, Monroe, Oakland and Washtenaw. June 16–August 1. 55 males; 17 females.
106. *Libellula pulchella* Drury.—Alger, Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Huron, Livingston, Manistee, Oakland, Schoolcraft, Washtenaw and Wayne. June 17–August 1. 66 males; 40 females.
107. *Libellula quadrimaculata* Linné.—Charlevoix, Cheboygan, Chippewa, Clare, Emmet, Huron, Iosco, Livingston, Mackinac, Marquette, Oakland, Schoolcraft, Washtenaw and Wayne. May 17–July 28. 46 males; 19 females.
108. *Libellula semifasciata* Burmeister.—Huron. June 14. 1 male.

Genus *Plathemis* Hagen

109. *Plathemis lydia* (Drury).—Alpine, Berrien, Benzie, Iosco, Jackson, Livingston, Luce, Marquette, Mecosta, Montcalm, Montmorency, Oakland, Otsego, Presque Isle, Washtenaw and Wayne. May 27–August 14. 35 males; 17 females; 38 naiads.

Genus *Perithemis* Hagen

110. *Perithemis domitia* (Drury).—Branch, Chippewa, Livingston, Oakland and Washtenaw. June 16–September 1. 4 males; 7 females.

Genus *Nannothemis* Brauer

111. *Nannothemis bella* (Uhler).—Emmet. July 21. 2 males.

Genus *Erythemis* Hagen

112. *Erythemis simplicicollis* (Say).—Charlevoix, Chippewa, Livingston, Oakland and Washtenaw. June 20–September 1. 5 males; 6 females.

Genus *Sympetrum* Newman

113. *Sympetrum assimilatam* (Uhler).—Oakland. June 21. 1 female.
114. *Sympetrum corruptum* (Hagen).—Charlevoix, Cheboygan and Washtenaw. June 25–September 6. 4 males; 3 females.
115. *Sympetrum costiferum* (Hagen).—Benzie, Cheboygan, Emmet, Houghton and Huron. August 3–25. 2 males; 6 females.
116. *Sympetrum obtusum* (Hagen).—Alger, Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Houghton, Huron, Livingston, Mackinac, Marquette, Monroe, Oakland, Schoolcraft and Washtenaw. June 26–September 9. 120 males; 90 females.
117. *Sympetrum rubicundulum* (Say).—Alger, Berrien, Charlevoix, Cheboygan, Chippewa, Emmet, Gogebic, Huron, Livingston, Mackinac, Macomb, Marquette, Montmorency, Oakland, Schoolcraft and Washtenaw. June 21–August 28. 125 males; 100 females.
118. *Sympetrum scoticum* (Donovan).—Chippewa, Marquette and Schoolcraft. July 17–30. 9 males; 8 females.
119. *Sympetrum semicinctorum* (Say).—Oakland. August 8. 1 male; 2 females.
120. *Sympetrum vicinum* (Hagen).—Cheboygan, Chippewa, Gogebic, Livingston, Oakland, Schoolcraft, Washtenaw and Wayne. August 12–October 23. 25 males; 30 females.

Genus *Pachydiplax* Brauer

121. *Pachydiplax longipennis* (Burmeister).—Alcona, Branch, Berrien, Huron, Oakland and Washtenaw. June 25–August 19. 3 males; 5 females.

Genus *Leucorrhinia* Brittinger

122. *Leucorrhinia frigida* Hagen.—Cheboygan, Emmet, Mackinac and Schoolcraft. June 27–August 14. 6 males; 3 females.
123. *Leucorrhinia glacialis* Hagen.—Charlevoix, Chippewa, Huron, Mackinac and Schoolcraft. June 25–July 28. 12 males; 6 females.
124. *Leucorrhinia hudsonica* (Selys).—Charlevoix, Cheboygan, Mackinac, Schoolcraft and Washtenaw. May 19–July 28. 6 males; 4 females.
125. *Leucorrhinia intacta* Hagen.—Berrien, Charlevoix, Cheboygan, Chippewa, Huron, Livingston, Mackinac, Oakland, Schoolcraft, Washtenaw and Wayne. May 17–July 26. 56 males; 48 females.
126. *Leucorrhinia proxima* Calvert.—Cheboygan, Chippewa, Emmet, Houghton, Mackinac, Schoolcraft and Washtenaw. May 30–August 1. 30 males; 14 females.

Genus *Celithemis* Hagen

127. *Celithemis elisa* (Hagen).—Berrien, Charlevoix, Huron, Livingston, Oakland and Washtenaw. June 8–August 1. 25 males; 9 females.
128. *Celithemis eponina* (Drury).—Branch, Grand Traverse, Iosco, Lake, Livingston, Luce, Montcalm, Montmorency, Otsego, Oakland and Washtenaw. June 20–August 1. 17 males; 7 females; 20 naiads.
129. *Celithemis monomelaena* Williamson.—Washtenaw. July 24. 4 males; 1 female.

Genus *Tramea* Hagen

130. *Tramea lacerata* Hagen.—Charlevoix. June 20. 1 male.
131. *Tramea carolina* (Linné).—Washtenaw. May 20. 2 males.

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