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## ODONATA OF CHATHAM, MASSACHUSETTS.

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The following list of Odonata includes material collected last summer at Chatham, and also that taken on various excursions to the surrounding towns. Mr. C. W. Johnson had collected a few species at Eastham of which I make mention, and other species have been recorded from Provincetown, Cotuit, Hyannisport, Woods Hole, Martha's Vineyard, the Elizabeth Islands, beside those listed by the author from Nantucket (May, 1919, report Maria Mitchell Association), and from Wareham (Psyche 26: June, 1919). Specimens of all recorded material are in the author's collection.



## Zygoptera.

## Agrionidæ.

1. *Agrion maculatum* Beauv. One at Chatham, July 3. Not recorded from east of Wareham before.

## Cœnagrionidæ.

2. *Lestes forcipatus* Ramb. Chatham, July 20 to Aug. 23. New to Cape Cod, east of Woods Hole.
3. *Lestes unguiculatus* Hagen. Chatham, Orleans, July 4 to Sept. 8. Common on Cape Cod.
4. *Lestes rectangularis* Say. Chatham, July 3-4. Common on Cape Cod.
5. *Lestes vigilax* Hagen. Chatham, South Yarmouth, Brewster, South Orleans, Eastham, July 8 to Sept. 6. Common.
6. *Argia violacea* (Hagen). Orleans, Aug. 23. Not recorded from east of Wareham before.
7. *Enallagma civile* (Hagen). Chatham, South Orleans, July 4 to Sept. 6. Abundant on Cape Cod.
8. *Enallagma durum* (Hagen). South Orleans, Portanimicutt Pond, July 27. Recorded before from Woods Hole, Cuttyhunk Island, Wareham and Nantucket.
9. *Enallagma minusculum* Morse. South Orleans, Orleans, Eastham, July 8 to 12. Mr. Johnson had taken this species at Eastham in June, 1904. Since the species was described in 1895 by Dr. Morse from Sherborn, Mass., its range has been extended to Meredith Neck, Lake Winnepesaukee, by the author in 1916; to Eastham and Manomet, Mass., by Mr. Johnson in 1904 and 1905; Mt. Desert, Echo Lake, Maine by Mr. Johnson in 1918, where it was again taken by Mr. D. Merrill in 1919. Until this summer no female had ever been captured. In sweeping the marginal grass swale along the pond I captured one female which may be described as follows: Cuneiform bluish post ocular spots not completely connected. Vertex, a mid-dorsal thoracic, and a humeral stripe iridescent black, rest of thorax bluish. Abdomen bluish with dorsum of segments 1 to 10 with a broad iridescent black stripe widening into distal semi-rings on segments 1 to 7. Legs black above. Lgth. 29 mm. Abd. 20 mm. Hd. Wg. 16 mm.



10. *Enallagma signatum* (Hagen). Chatham, July 20. Not recorded from east of Wareham and Woods Hole before.
11. *Enallagma doubledayi* Selys. South Orleans, July 8 to Aug. 23. It has been reported from Provincetown by Mr. E. B. Williamson, and from Woods Hole, Nonamesset Island, by Dr. P. P. Calvert.
12. *Nehalennia irene* (Hagen). Chatham, Provincetown, July 12. Not recorded from east of Cotuit before.
13. *Ischnura posita* (Hagen). Chatham, Wellfleet, Barnstable, July 4 to July 22. Not recorded from east of Woods Hole before.
14. *Ischnura verticalis* (Say). Chatham, Eastham, Wellfleet, South Orleans, Brewster, Barnstable, South Yarmouth, July 8 to Sept. 8. Abundant on Cape Cod.

#### Anisoptera.

##### Æschnidæ.

15. *Progomphus obscurus* Ramb. South Orleans, July 12-14. Recorded only from Boston and Wareham before, this being the third station for New England.
16. *Anax junius* (Drury). Orleans, South Orleans, Chatham, July 3 to Sept. 6. Great migrating swarms of this species were noted at Chathamport. An abundant Cape Cod species.
17. *Æshna umbrosa* Walk. Orleans, Chatham, Oct. 19. Not recorded before from east of Wareham and Woods Hole on Cape Cod.
18. *Æshna clepsydra* Say. Chatham, July 11 to Aug. 23. Common on Cape Cod.
19. *Æshna canadensis* Walk. Chatham, Aug. 23. Not taken from east of Wareham and Woods Hole before on Cape Cod.

##### Libellulidæ.

20. *Epicordulia princeps* (Hagen). Chatham, White pond, July 24. Not recorded before from east of Wareham on Cape Cod.
21. *Tetragoneuria cynosura* (Say). Orleans, July 1-3. Not recorded from east of Wareham or Woods Hole before.
22. *Libellula exusta* (Say). Chatham, July 7. Not recorded before from east of West Chop and Woods Hole.



23. *Libellula pulchella* Drury. Chatham, Orleans, Brewster, July 1 to Aug. 23. Common on Cape Cod.
24. *Libellula semifasciata* Burn. Chatham, Orleans?, July 3-7. Recorded before from several stations on Cape Cod.
25. *Libellula incesta* Hagen. South Orleans, July 27. Not recorded before from east of Wareham and Woods Hole on Cape Cod.
26. *Libellula auripennis* Burn. South Orleans, July 27. Rare. Common about Buzzard's Bay.
27. *Platyemis lydia* (Drury). Chatham, July 17. Not recorded before from east of Wareham and Woods Hole on Cape Cod.
28. *Perithemis domitia* var. *tenera* (Say). South Orleans, July 27 to Aug. 23. Not recorded before from east of Wareham and Woods Hole on Cape Cod.
29. *Nannothemis bella* (Uhler). Brewster, July 12. Not recorded before from east of Wareham on Cape Cod.
30. *Erythrodiplax berenice* (Drury). Chatham, Cotuit, Orleans, July 20 to 27. Common at littoral stations where salt marshes are present.
31. *Pachydiplax longipennis* Burn. Orleans, July 3 to Aug. 23. Common on Cape Cod.
32. *Sympetrum rubicundulum* (Say). Chatham, Barnstable, July 3 to Sept. 6. Abundant on Cape Cod.
33. *Sympetrum vicinum* (Hagen). Chatham, Aug. 23 to Oct. 20. Common on Cape Cod.
34. *Leucorrhinia intacta* Hagen. Chatham, July 3 to 20. Common on Cape Cod.
35. *Celithemis elisa* (Hagen). Brewster, South Orleans, South Yarmouth, July 8 to Aug. 23. Common on Cape Cod, and with the small middle wing spot commonly absent.
36. *Celithemis ornata* (Ramb.). South Orleans, Quanset pond, July 27. Not uncommon on Cape Cod.
37. *Tramea carolina* (Linn.). Chatham, July 3 to Sept. 8. Not recorded before from east of Wareham and Woods Hole on Cape Cod.



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