


ODONATA OF CHATHAM, MASSACHUSETTS.

BY R. HEBER HOWE, JR.,
Thoreau Museum of Natural History, Concord, Mass.

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.
Psyche

Zygoptera.

Agrionidæ.


Coenagrionidæ.


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.

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.


**Anisoptera.**

Æschnidæ.


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.


Libellulidæ.


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.


37. *Tramea carolina* (Linn.). Chatham, July 3 to Sept. 8. Not recorded before from east of Wareham and Woods Hole on Cape Cod.