

ANNOTATED LIST OF THE MOSQUITOES OF RHODE ISLAND¹

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ABSTRACT. A list of mosquitoes collected or reported to be collected in Rhode Island is presented. Thirty-seven species have been found to date; six are reported in this paper as new state records: *Aedes hendersoni*, *Ae. punctator*, *Ae. sticticus*, *Culiseta impatiens*, *Cs. inornata* and *Psorophora ferox*.

The first significant study of the mosquitoes of Rhode Island was directed by Herbert Knutson (1943). In his study an extensive swamp area within the southern half of the state was surveyed for 2 years. Bartosewitz (1945) conducted a similar survey and identified 16 species previously described by Knutson. Heath⁵ (1949) expanded the sampling area, compiled data from other counties and included supporting regional documentation from Dyar (1922, 1928). Additional regional information was supplied by Carpenter (1950), Darsie and Ward (1981) and Felton et al. (1950).

The physiography of Rhode Island provides numerous breeding sites for both freshwater and saltwater breeding species. In addition to temporary sites, 9.4% of Rhode Island is wetland area (area per wet spot ≥ 3 acres) and consists of vegetated inland water (30, 113 acres - 4%), fresh open water (35,677 acres - 5%) and tidal/irregular flowing saltmarsh (3,000 acres - 0.4%) located near many newly developed urban areas. The present survey (1975-82) sampled mosquito populations in habitats not previously examined as well as areas not sampled for the past 30 years.

For each species listed, information, if available, is provided for seasonal range, initial record for each county, collector, year of collection, stage collected and a discussion of pertinent information. The species are listed alphabetically regardless of subgeneric classification. New state records are preceded by an asterisk (*). Voucher specimens are deposited in the University of Rhode Island collection. Collectors are indicated by the following abbreviations.

B & C	D. Boyes and P. Capotosto
H. K.	H. Knutson
J. M.	J. Marques
LeB.	R. LeBrun
M. H.	M. Heath
M. L.	M. Lapisky

Aedes (Ochlerotatus) abserratus (Felt and Young). 21-III to 26-VIII.

BRISTOL: Barrington, B & C (1976), adults.

KENT: Coventry, M. H. (1949), larvae and adults.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

Ae. (Och.) atropalpus (Coquillett). IX to X.

WASHINGTON: Narragansett, M. H. (1949), larva.

Scarce in Rhode Island.

Ae. (Och.) aurifer (Coquillett). 27-III to 31-VIII.

BRISTOL: Barrington, B & C (1979), adults.

KENT: East Greenwich, M. H. (1949), larvae and adults.

PROVIDENCE: Providence, M. H. (1949), adults.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

Ae. (Och.) canadensis canadensis (Theobald). 15-III to 16-VIII.

BRISTOL: Barrington, B & C (1979), adults.

KENT, NEWPORT, PROVIDENCE: M. H. (1949), larvae and adults.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

Very common in a variety of habitats; persistent biter and one of Rhode Island's worst pests in spring.

Ae. (Och.) cantator (Coquillett). 14-III to 10-IX.

BRISTOL: Barrington, B & C (1976), adults.

KENT, NEWPORT, PROVIDENCE: M. H. (1949), larvae and adults.

WASHINGTON: Great Swamp, H. K. (1942), adults.

Ae. (Aedes) cinereus Meigen. 29-III to 7-VII.

BRISTOL: Barrington, B & C (1979), adults.

KENT, NEWPORT, PROVIDENCE: M. H. (1949), larvae and adults.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

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⁵ Heath, M. B. 1949. Mosquitoes of Rhode Island, their taxonomy, seasonal history and distribution. M.S. thesis, Univ. of Rhode Island, Kingston, RI. 131 pp.

- Ae. (Och.) excrucians* (Walker). 15-IV to 7-VIII.
BRISTOL: Barrington, B & C (1979), adults.
KENT: Coventry, M. H. (1949), larvae and adults.
NEWPORT: Jamestown, LeB. (1982), adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae.
- Ae. (Och.) fitchii* (Felt & Young). III to VIII.
KENT: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), adults.
- * *Ae. (Protomacleaya) hendersoni* Cockerell. 24-VIII.
WASHINGTON: Narragansett, M. L. (1983), adults.
- Ae. (Och.) intrudens* Dyar. 29-III to 31-VII.
BRISTOL: Barrington, B & C (1979), adults.
PROVIDENCE, KENT: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
- * *Ae. (Och.) punctator* (Kirby). 15-V to 12-VII.
WASHINGTON: Kingston, LeB. (1982), adults.
- Ae. (Och.) provocans* (Walker). 10-III to 2-VII.
PROVIDENCE: M. H., (1949), adults.
WASHINGTON: Great Swamp, H. K., (1942), larvae and adults.
- Ae. (Och.) sollicitans* (Walker). 11-V to 9-X.
BRISTOL: Barrington, B & C (1979), adults.
KENT, NEWPORT, PROVIDENCE: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
One of the most common species in Rhode Island, it is the primary target species for open marsh water management. (Boyes and Capotosto 1980).
- * *Ae. (Och.) sticticus* (Meigen). 21-IV to 7-IX.
WASHINGTON: Kingston, LeB. (1982), adults.
- Ae. (Och.) stimulans* (Walker). 12-V to 3-X.
KENT, NEWPORT, PROVIDENCE, WASHINGTON: M. H. (1949), larvae and adults.
- Ae. (Och.) taeniorhynchus* (Wiedemann). 12-V to 10-VIII.
BRISTOL: Barrington, B & C (1980), adults.
NEWPORT, WASHINGTON: M. H. (1949), larvae and adults.
- Ae. (Protomacleaya) triseriatus* (Say). 15-V to 12-IX.
BRISTOL: Barrington, B & C (1980), adults.
NEWPORT: Jamestown, LeB. (1982), adults.
PROVIDENCE: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
Moderate pests in residential areas.
- Ae. (Och.) trivittatus* (Coquillett). 15-VII to 15-IX.
KENT, PROVIDENCE: M. H. (1949), larvae and adults.
- WASHINGTON: Great Swamp, H. K. (1942), adults.
- Ae. (Aedimorphus) vexans* (Meigen). 25-V to 15-X.
BRISTOL: Barrington, B & C (1975), adults.
NEWPORT: Newport, LeB., (1982), adults.
PROVIDENCE, KENT: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
- Anopheles (Anopheles) crucians* Wiedemann. IX.
KENT, NEWPORT: M. H. (1949), larvae and adults.
- An. (An.) punctipennis* (Say). 30-VI to 20-X.
BRISTOL: Barrington, B & C (1975), adults.
PROVIDENCE, KENT: M. H. (1949), larvae and adults.
WASHINGTON: J. M. (1980), adults.
- An. (An.) quadrimaculatus* Say. 25-VI to 20-X.
BRISTOL: Barrington, B & C (1975), adults.
PROVIDENCE, WASHINGTON: M. H. (1949), larvae and adults.
- An. (An.) walkeri* Theobald. 15-VI-15-X.
KENT: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
- Coquillettidia (Coquillettidia) perturbans* (Walker). 1-V to 6-IX.
BRISTOL: Barrington, B&C (1975), adults.
PROVIDENCE, WASHINGTON: M. H. (1949), adults.
- Culex (Culex) pipiens* Linnaeus. 21-VI to 15-XI.
BRISTOL; Barrington, B & C (1975), adults.
KENT, PROVIDENCE: M. H. (1949), larvae and adults.
WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.
Very common in Rhode Island.
- Cx. (Cux.) restuans* Theobald. 1-VI to 30-VIII.
BRISTOL: Barrington, B & C (1975), adults.
NEWPORT, WASHINGTON: M. H. (1949), larvae and adults.
- Cx. (Cux.) salinarius* Coquillett. 5-VII to 7-VIII.
BRISTOL: Barrington, B & C (1975), adults.
KENT, PROVIDENCE: M. H. (1949), larvae, adults.
WASHINGTON: Great Swamp, H. K. (1942), adults.
- Cx. (Neoculex) territans* Walker. VIII to IX.
BRISTOL: Barrington, B & C (1975), adults.
WASHINGTON: Great Swamp, H. K. (1942), adults.
- * *Culiseta (Culiseta) impatiens* (Walker). 15 VI.
WASHINGTON: South Kingstown, LeB. (1982), adults.
- * *Cu. (Cul.) inornata* (Williston). VIII.
WASHINGTON: North Kingstown, J. M. (1980), adults.

Cu. (Climacura) melanura (Coquillett). 15-III to 15-XI.

BRISTOL: Barrington, B & C (1975), adults.

PROVIDENCE: M. H. (1949), adults.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

Cu. (Culicella) morsitans (Theobald). 1-IV to 30-VIII.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

Orthopodomyia signifera (Coquillett)

WASHINGTON: Great Swamp, H. K. (1942), adults.

* *Psorophora (Janthinosoma) ferox* (Von Humboldt). IX.

BRISTOL: Barrington, B & C (1975), adults.

Ps. (Psorophora) ciliata (Fabricius). IX.

WASHINGTON: Great Swamp, H. K. (1942), adults.

Uranotaenia (Uranotaenia) sapphirina (Osten Sacken). 21-VI to 15-X.

BRISTOL: Barrington, B & C (1974), adults.

NEWPORT, PROVIDENCE: M. H. (1949), larvae and adults.

Washington: Great Swamp, H. K. (1942), larvae and adults.

Wyeomyia (Wyeomyia) smithii (Coquillett). 15-III to 30-VIII.

WASHINGTON: Great Swamp, H. K. (1942), larvae and adults.

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