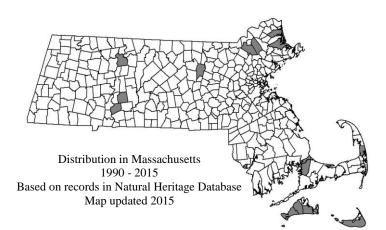


Massachusetts Division of Fisheries & Wildlife

DESCRIPTION: The Scrub Euchlaena (*Euchlaena* madusaria) is a geometrid moth with a wingspan of 28-40 mm (McGuffin 1981). Both the forewing and the hind wing are light tan proximal to the postmedial line, and darker tan with black speckling distal to the postmedial line. The postmedial line on both forewing and hind wing is prominent, a rusty, reddish-brown color, and complete and smoothly curved from the costal margin to the inner margin. The antemedial line is brown and dentate on the forewing; on the hind wing it is weak to absent. The reniform and discal spots are reduced to small, solid, brownish-black dots, occasionally obscure to absent. The forewing has a broad, cream-colored apical dash. The fringe of both the forewing and the hind wing is rusty, reddish-brown in color, matching the color of the postmedial line. The head, thorax, and abdomen are all light tan in color, matching the wings proximal to the postmedial line. In Massachusetts, the pale spring brood of the Deep Yellow Euchlaena (Euchlaena amoenaria) may be confused with the Scrub Euchlaena. On the underside of the hind wing of the Scrub Euchlaena, the outer postmedial line forms a wide loop as compared to the Deep Yellow Euchlaena, which has a narrow loop (Forbes 1948).



Scrub Euchlaena Euchlaena madusaria

State Status: **Special Concern** Federal Status: **None**



Euchlaena madusaria • Specimen from MA: Hampden Co., Chicopee, collected 4 Jun 2002 by M.W. Nelson

Adult Flight Period in Massachusetts

[Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	

HABITAT: In Massachusetts, the Scrub Euchlaena inhabits sandplain pitch pine-scrub oak barrens, heathlands, and shrubby grasslands.

LIFE HISTORY: In Massachusetts, the Scrub Euchlaena has two broods per year, the first flying from late May through late June, and the second flying in August. Larvae are probably somewhat polyphagous, but the habitat associations of the Scrub Euchlaena in Massachusetts indicate a likely preference for lowbush blueberries (*Vaccinium angustifolium* and *V. pallidum*). Larvae from the second annual generation overwinter partially grown, completing development in the spring.

GEOGRAPHIC RANGE: The Scrub Euchlaena ranges from Nova Scotia south to Florida, and west to British Columbia and Texas (Forbes 1948, McGuffin 1981). In Massachusetts, the Scrub Euchlaena is known to occur in

A Species of Greatest Conservation Need in the Massachusetts State Wildlife Action Plan Massachusetts Division of Fisheries & Wildlife

1 Rabbit Hill Road, Westborough, MA 01581; tel: 508-389-6300; fax: 508-389-7890; www.mass.gov/dfw

Please allow the Natural Heritage & Endangered Species Program to continue to conserve the biodiversity of Massachusetts with a contribution for 'endangered wildlife conservation' on your state income tax form, as these donations comprise a significant portion of our operating budget. www.mass.gov/nhesp sandplain habitats in the Connecticut River Valley, the Nashua River Valley and the northeastern part of the state, and on Cape Cod and the offshore islands.

STATUS AND THREATS: The Scrub Euchlaena is threatened by habitat loss and fire suppression. Fire promotes growth of lowbush blueberries, and maintains the open habitat structure needed by both the Scrub Euchlaena and its host plants. Other potential threats include introduced generalist parasitoids, aerial insecticide spraying, non-target herbiciding, off-road vehicles, and light pollution.

Literature Cited

- Forbes, W.T.M. 1948. *Lepidoptera of New York and Neighboring States*. Part II. Memoir 274, Cornell University Agricultural Experiment Station, Ithaca, New York. 263 pp.
- McGuffin, W.C. 1981. Guide to the Geometridae of Canada (Lepidoptera). Volume II. Subfamily Ennominae, part 3. *Memoirs of the Entomological Society of Canada* No. 117: 1-153.

Updated 2019 Authored by M.W. Nelson, NHESP Invertebrate Zoologist, March 2015

A Species of Greatest Conservation Need in the Massachusetts State Wildlife Action Plan

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