## Sandplain Euchlaena

### Euchlaena madusaria

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

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**Description:** The Sandplain Euchlaena (*Euchlaena madusaria*) is a geometrid moth with a wingspan of 32-40 mm (Forbes 1948). 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, dentate on the forewing, and weak on the hind wing. The reniform and discal spots are reduced to small, solid, brownish-black dots. Each forewing has a broad, cream-colored apical dash. The fringe of both forewing and hind wing are rusty, reddish-brown in color, matching the color of the postmedial line.

**Habitat:** In Massachusetts, the Sandplain Euchlaena inhabits sandplain pitch pine-scrub oak barrens, heathlands, and grasslands.

**Life History:** In Massachusetts, the Sandplain 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 Sandplain 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:** In Massachusetts, the Sandplain Euchlaena is known to occur in sandplain habitats in the Connecticut River Valley, the Shawsheen River Valley, and on Cape Cod and the offshore islands. This species ranges from Massachusetts south to North Carolina, and west to Colorado and Texas (Forbes 1948).

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**Distribution in Massachusetts 1987 - 2012**  
Based on records in the Natural Heritage Database

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**Adult Flight Period in Massachusetts**

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**Status and Threats:** The Sandplain 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 Sandplain Euchlaena and its host plants. Other potential threats include invasion by exotic plants, introduced generalist parasitoids, insecticide spraying, off-road vehicles, and light pollution.

**Literature Cited**


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