

Natural Heritage & Endangered Species Program

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Massachusetts Division of Fisheries & Wildlife

Leafy White Orchid Platanthera dilatata

(Pursh) Lindl. ex Beck

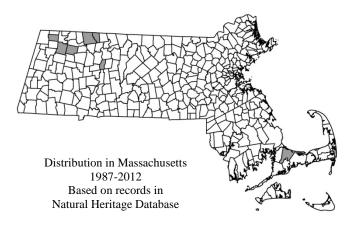
State Status: **Threatened** Federal Status: **None**

DESCRIPTION: Leafy White Orchid, or Bog Candles, is a tall, leafy-stemmed, stout or slender perennial in the Orchid family (Orchidaceae) that rises from fleshy roots and ends in a slender spike of white flowers. It is erect, hairless, and reaches up to 1 m (3 1/3 ft.) in height. The lanceolate leaves number about twelve and become progressively smaller toward the top of the plant. Leafy White Orchid's small flowers are generally bright white and are arranged in a 1-3 dm (1/3 to 1 ft.) long spike. Their delightful fragrance has been likened to cloves. The 5-10 mm (0.2 - 0.4 in.) long lip, or lowermost petal, widens near the base and has five to seven prominent veins. The spur (a hollow extension of the flower) is about as long as the lip. Leafy White Orchid's fruit is a 12 x 6 mm (0.47 - 0.24 in.) ellipsoid capsule (a fruit that is formed from a compound pistil and that contains many seeds). In Massachusetts, the plant blooms from mid-June through July.

RANGE: The North American range of Leafy White Orchid has been documented as extending across Labrador to Alaska and south to New Jersey, Wisconsin, South Dakota, New Mexico, and California.



Photo: Jennifer Garrett, NHESP



SIMILAR SPECIES: The White-fringed Orchid (*Platanthera blephariglottis*) and the Clubspur Orchid (*Platanthera clavellata*), two white to whitish-flowered orchids of somewhat similar habitats, could be confused with Leafy White Orchid. However, in our area, the lip of White-fringed Orchid is deeply fringed. The Clubspur Orchid is both shorter, 1-4 dm (1/3 to 1 1/3 ft.), than the Leafy White Orchid and, generally, has only one well-developed leaf on its stem. Finally, Northern Green Orchid (*Platanthera hyberborea*) is extremely hard to distinguish from Leafy White Orchid and often hybridizes with it. In contrast to Leafy White Orchid, it has green or greenish-white flowers. (Some authorities

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

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consider *Platanthera hyperborea* to be a green-flowered form of *Platanthera dilatata*.)

HABITAT IN MASSACHUSETTS: Leafy White Orchid is a plant of sunny, wet areas, including bogs, seepage slopes and wet woods, especially where cold water surfaces to form springs. It prefers non-acid soil conditions. In Massachusetts, habitats include a cold, muddy and springy seep; a wet spot near a road; an area of sphagnum and rich muck, with springs and streamlets; a wet, sedgey open area; and an open, springy seep adjacent to a tributary. Plant species associated with Leafy White Orchid include sphagnum moss (*Sphagnum* spp.), various horsetails (*Equisetum* spp.), willows (*Salix* spp.), alders (*Alnus* spp.), Marsh Fern (*Thelypteris* palustris), Royal Fern (*Osmunda regalis*), and Yellow Sedge (*Carex flava*).

POPULATION STATUS: Leafy White Orchid is currently listed as Threatened in Massachusetts. There are nine current stations (discovered or relocated since 1984) in seven towns and 15 historical stations (unverified since 1984) in 14 towns. Reasons for the plant's rarity in Massachusetts include loss of habitat, due both to development and forest succession, and scarcity of suitable habitat. Leafy White Orchid is also considered rare in Illinois, Indiana, New Mexico, Pennsylvania, and Wisconsin. It was present historically in Connecticut. The species is quite common in the far North, but becomes rare in the southern portions of its range.

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