



**Natural Heritage  
& Endangered Species  
Program**

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*Massachusetts Division of Fisheries & Wildlife*

**Beaded Pinweed**  
*Lechea pulchella* Raf.  
**var. *moniliformis*** (E.P. Bicknell) Seymour

State Status: **Endangered**

Federal Status: **None**

**DESCRIPTION:** Beaded Pinweed is a perennial member of the Rockrose family (Cistaceae) found in early successional habitats along the coastal plain. In addition to the upright stems, Beaded Pinweed has creeping basal shoots. Like other *Lechea* species, Beaded Pinweed's basal leaves are formed in late summer, overwinter on the plant, and then senesce when flowering shoots are produced in the spring and summer. The ultimate branches are crowded with tiny, pink to red flowers that are radially symmetrical with five sepals.

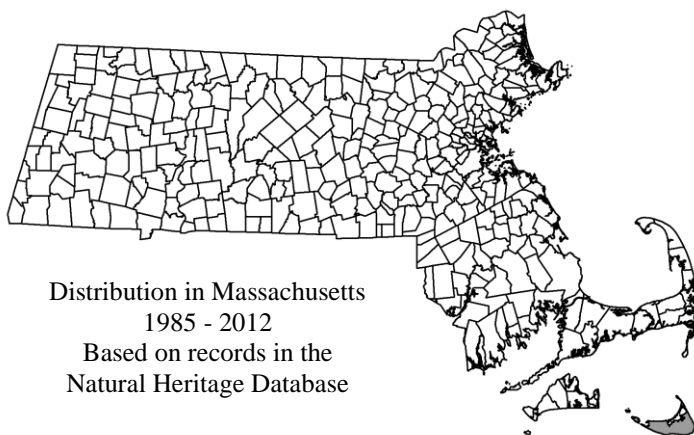
**AIDS TO IDENTIFICATION:** The minute leaves (4–8 mm) of Beaded Pinweed are crowded on the stem, and have hard, shiny, conical brown tips. The basal leaves are usually whorled, with 3 to 4 leaves per node, or rarely alternate, and are narrowly lanceolate to narrowly elliptic. The one to many upright flowering shoots are typically 30 to 60 cm tall. Leaves on the upper part of the stem are opposite to sub-opposite, linear to narrowly elliptic, glabrous above, and very sparsely hairy on the mid-vein below. The primary branches diverge at 45° to 60° angles. The flowers are borne individually or in few-flowered clusters on the tertiary branches. Fruits are round capsules with one to three seeds.



*Beaded Pinweed has branches crowded with red or pink flowers, and small stem leaves with brown, conical tips. Photo from Natural Heritage and Endangered Species Program.*

**SIMILAR SPECIES:** Species of *Lechea* are difficult to identify and a technical manual should be consulted. Identification should be based on plants with mature fruits viewed with a good hand lens or microscope. Beaded Pinweed can be distinguished by the following combination of characters: outer sepals much shorter than the 3-nerved inner sepals; leaves with hard, shiny, conical brown tips; fruiting calyx less than 1.5 mm broad, obovoid and acute at base, and containing 1-3 seeds. Beaded Pinweed may be confused with the Round-fruited Pinweed (*Lechea intermedia*), which has round fruits; Beaded Pinweed is distinguished by its smooth seeds that do not have a membranous cover, in contrast to the fruits of Round-fruited Pinweed.

**POPULATION STATUS IN MASSACHUSETTS:** Beaded Pinweed is listed under the Massachusetts Endangered Species Act as Endangered. All listed species are protected from killing, collecting, possessing, or sale, and from activities that would destroy habitat



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

**Massachusetts Division of Fisheries & Wildlife**

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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.

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and thus directly or indirectly cause mortality or disrupt critical behaviors. Beaded Pinweed is currently known from Nantucket County, and it occurred historically in Bristol and Dukes Counties.

**RANGE:** Beaded Pinweed occurs along the Atlantic coast from Maryland to New York and Massachusetts, west to Illinois and the Great Lakes.

**HABITAT:** Beaded Pinweed is typically found in dry, gravelly or sandy, open ground and fields. It prefers dry to moist sandy plains, disturbed meadows, shores, and open woods. Beaded Pinweed is at the northern edge of its range in Massachusetts. Associated species are generally representative of successional coastal plain grasslands, including: Bayberry (*Morella caroliniensis*), Little Bluestem (*Schizachyrium scoparium*), Bearberry (*Arctostaphylos uva-ursi*), Bushy Aster (*Symphotrichum dumosum*), and False Heather (*Hudsonia ericoides*).

**THREATS AND MANAGEMENT**

**RECOMMENDATIONS:** Habitat loss due to development and natural succession are the major threats to Beaded Pinweed. Extant populations are threatened by increased shading from shrubs such as Scrub Oak (*Quercus ilicifolia*) and Black Huckleberry (*Gaylussacia baccata*). Beaded Pinweed is an early successional species that requires some disturbance to proliferate, but it is also vulnerable to off-road vehicle impacts and development. Prescribed fire may be beneficial to maintain early successional habitats. Beaded Pinweed may also occur in intermittent wetlands, and known populations should be protected from dramatic changes in light or moisture conditions. All active management of rare plant populations (including invasive species removal) is subject to review under the Massachusetts Endangered Species Act, and should be planned in close consultation with the Massachusetts Natural Heritage & Endangered Species Program.

**Flowering in Massachusetts**

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

**Fruiting in Massachusetts**

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

**REFERENCES:**

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