

Historical and extant rare, protected, and noteworthy plants of Plum Island, New York

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15 December 2010. Report to U.S. Fish and Wildlife Service.

Introduction: This report is exclusively based on field work conducted on Plum Island from 2002 to 2008 and on herbarium and literature searches. In addition to the authors' recent collections of the flora of Plum Island, this report also includes data from historical collections by Taylor (1915), Jansson (1932), and Monachino (1937, 1938), and reports by Latham (1914-1940s), Zaremba (1984), and Zika (1989). Rare plant status is based on New York Natural Heritage Program (Young, 2010), New York State Department of Environmental Conservation (Protected Plant List, 2000), and Long Island Botanical Society (database of Long Island vascular plant species, 2010).

Summary: Plum Island provides habitat that supports 40 species of rare, protected, and noteworthy vascular plants, including 16 listed as "State Endangered or Threatened", 4 as "State Rare", 17 as "Exploitably Vulnerable", and 3 as "Rare on Long Island". Based on this data, Plum Island is among the 10 to 12 most diverse regions in New York State for rare plants.

Asclepias verticillata [Rare on L.I.; LIBS 2010]
Botrychium dissectum [Exploitably Vulnerable; NYSDEC, 2000]
Carex hormathodes [S2S3, State Threatened; NYNHP, 2010]
Cenchrus tribuloides [S2, State Threatened; NYNHP, 2010]
Chameacyparis thyoides [S2, State Threatened; NYNHP, 2010]
Chimaphila maculata [Exploitably Vulnerable; NYSDEC, 2000]
Crocianthemum dumosum [S2, State Threatened; NYNHP, 2010]
Cyperus erythrorhizos [S3, State Rare; NYNHP, 2010]
Cyperus lupulinus subsp. *lupulinus* [S2, State Threatened; NYNHP, 2010]
Cyperus polystachyos var. *texensis* [S1S2, State Endangered; NYNHP, 2010]
Cyperus retrorsus [S1, State Endangered; NYNHP, 2010]
Dichanthelium scoparium [S1, State Endangered; NYNHP, 2010]
Diphasiastrum digitatum [Exploitably Vulnerable; NYSDEC, 2000]
Drosera intermedia [Exploitably Vulnerable; NYSDEC, 2000]
Dryopteris intermedia [Exploitably Vulnerable; NYSDEC, 2000]
Eleocharis fallax [S1, State Endangered; NYNHP, 2010]

Eleocharis uniglumis var. *halophila* [S2, State Threatened; NYNHP, 2010]
Erechtites hieracifolia var. *megalocarpa* [S1, State Endangered; NYNHP, 2010]
Ilex verticillata [Exploitably Vulnerable; NYSDEC, 2000]
Liatris scariosa var. *novae-angliae* [S2, State Threatened; NYNHP, 2010]
Ligusticum scoticum [S1, State Endangered; NYNHP, 2010]
Lilium superbum [Exploitably Vulnerable; NYSDEC, 2000]
Lobelia siphilitica [Exploitably Vulnerable; NYSDEC, 2000]
Lobelia spicata [Rare on L.I.; LIBS 2010]
Myrica pensylvania [Exploitably Vulnerable; NYSDEC, 2000]
Oenothera oaksiana [S2, State Threatened; NYNHP, 2010]
Osmunda cinnamomea [Exploitably Vulnerable; NYSDEC, 2000]
Osmunda regalis [Exploitably Vulnerable; NYSDEC, 2000]
Platanthera lacera [Exploitably Vulnerable; NYSDEC, 2000]
Polygala cruciata [S3, State Rare; NYNHP, 2010]
Polygonum glaucum [S3, State Rare; NYNHP, 2010]
Ptilimnium capillaceum [S3, State Rare; NYNHP, 2010]
Quercus × *faxonii* (*Q. prinoides* × *Q. alba*) [Rare on L.I.; LIBS 2010]
Rhododendron viscosum [Exploitably Vulnerable; NYSDEC, 2000]
Silene caroliniana subsp. *pensylvania* [S2, State Threatened; NYNHP, 2010]
Spiranthes cernua [Exploitably Vulnerable; NYSDEC, 2000]
Spiranthes lacera [Exploitably Vulnerable; NYSDEC, 2000]
Spiranthes vernalis [S1, State Endangered; NYNHP, 2010]
Thelypteris noveborascensis [Exploitably Vulnerable; NYSDEC, 2000]
Thelypteris palustris [Exploitably Vulnerable; NYSDEC, 2000]