The Invasive Aquatic Plants of Lake Zoar

Monroe, Newtown, Oxford, Southbury
920 Acres

Surveyed August 13, 2007 to September 14, 2007
by Roslyn Reeps and David Bridgewater

Legend

- Boat Launch
- Transect Point
- Water Sample Site

Invasive Point

- Marsilea quadrifolia
- Potamogeton crispus
- Najas minor
- Myriophyllum spicatum

Invasive Patch

- Potamogeton crispus
- Najas minor
- Myriophyllum spicatum

This map displays the locations of each invasive aquatic plant found during a 2007 Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) survey of Lake Zoar, which is located in the Connecticut towns of Monroe, Newtown, Oxford and Southbury. This survey was designed to obtain baseline abundance data of the invasive aquatic plants so the progress of the infestations can be monitored in subsequent years. This data will also serve as reference data for invasive aquatic plant surveys using remote sensing images, such as the National Agricultural Imagery Program (NAIP) imagery displayed here, rather than completely in situ monitoring.

The 2007 survey confirmed the presence of 4 invasive, *Myriophyllum spicatum, Marsilea quadrifolia, Najas minor* and *Potamogeton crispus*, and 14 native species of aquatic plants. *M. spicatum* was the most prevalent invasive aquatic plant, covering 62.6 acres or 6.8 percent of the surface area, and occurred in 33 percent of the transect points. (By contrast, the most prevalent native species, *Vallisneria americana*, occurred in 8 percent of the transect point locations.) *N. minor* covered 32.5 acres or 3.5 percent of the lake area, and occurred in 18 percent of the transect points. *P. crispus* covered 20.8 acres or 2.3 percent of the lake area, and occurred in 6 percent of the transect points. *M. quadrifolia* was documented for the first time in this survey, and covered less than 0.1 acres.

0 0.125 0.25 0.5 Miles

N
W E
S

(Scale 1:14,000; NAIP 2006 Imagery; Tele Atlas 2007 Street Centerline Data)

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