

Lake Zoar

920 acres
Monroe, Newtown, Oxford,
Southbury

Surveyed May 27, 2016 to June 9, 2016
and August 5 to 25, 2016
by Jennifer Fanzutti, Summer Stebbins,
and Kaysee Shuster
Transect and Water Data Obtained
August 29 and 30, 2017
by Greg Bugbee and Abigail Wiegand
Invasive Aquatic Plant Program

Legend

- Bathymetry (ft)
- Collection Point
- Transect Point
- Water Data
- DEEP Boat Launch

Spring Invasive Patch/Points

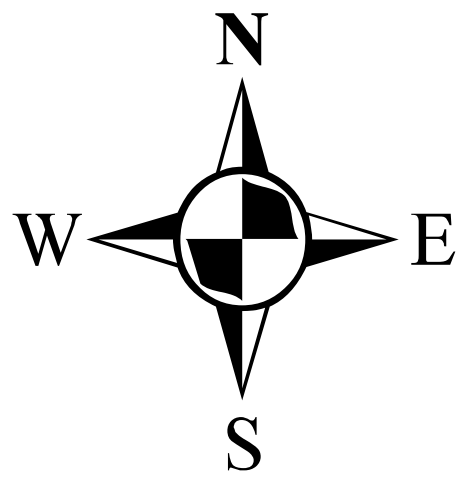
Spring Abundance Scale 1=Sparse - 5=Dense

- Marsilea quadrifolia = 1
- Potamogeton crispus = 1
- Potamogeton crispus = 2
- Potamogeton crispus = 3
- Potamogeton crispus = 4

Summer Invasive Patch/Points

Abundance Scale 1=Sparse - 5=Dense

- Marsilea quadrifolia = 3
- Marsilea quadrifolia = 4
- Myriophyllum spicatum = 1
- Myriophyllum spicatum = 2
- Myriophyllum spicatum = 3
- Myriophyllum spicatum = 4
- Najas minor = 1
- Najas minor = 2
- Najas minor = 3
- Najas minor = 4
- Najas minor = 5
- Potamogeton crispus = 2
- Potamogeton crispus = 3
- Potamogeton crispus = 4



Frequency of Occurrence and Area of Vegetation in Lake Zoar																		
		Frequency of Occurrence (percent*)											Area (acres)					
Common Name	Scientific Name	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2007	2008	2010	2012	2014	2016
Coontail	<i>Ceratophyllum demersum</i>	3	4	23	15	7	6	9	8	26	46	55	ND**	ND	ND	ND	ND	ND
Waterwort	<i>Elatine</i> spp.	0	0	0	0	0	0	0	0	0	4	0	ND	ND	ND	ND	ND	ND
Waterweed	<i>Elodea nuttallii</i>	6	7	7	23	0	1	2	1	9	22	22	ND	ND	ND	ND	ND	ND
Primrose-willow	<i>Ludwigia</i> spp.	0	0	0	0	1	0	1	0	0	0	0	ND	ND	ND	ND	ND	ND
European waterclover	<i>Marsilea quadrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	<0.1	0.2	0.3	0.3	ND	0.3
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>	35	37	33	49	18	15	49	24	24	35	37	63	70	85	85	33	23
Nodding waternymph	<i>Najas flexilis</i>	2	1	4	2	2	0	0	0	2	0	4	ND	ND	ND	ND	ND	ND
Minor naiad	<i>Najas minor</i>	18	18	16	24	8	17	21	10	16	33	30	33	13	12	34	1.6	23
Green arrow arum	<i>Peltandra virginica</i>	0	0	0	0	1	0	1	1	0	0	0	ND	ND	ND	ND	ND	ND
Snailseed pondweed	<i>Potamogeton bicupulatus</i>	0	0	0	0	0	0	0	0	0	0	9	ND	ND	ND	ND	ND	ND
Curlyleaf pondweed	<i>Potamogeton crispus</i>	6	10	7	7	1	9	5	2	5	17	8	21	4	12	17	26	62
Ribbonleaf pondweed	<i>Potamogeton epihyrdus</i>	0	0	2	0	0	0	0	0	0	1	0	ND	ND	ND	ND	ND	ND
Leafy pondweed	<i>Potamogeton foliosus</i>	2	0	0	4	1	0	6	0	0	9	18	ND	ND	ND	ND	ND	ND
White stem pondweed	<i>Potamogeton praelongus</i>	0	0	1	1	0	0	0	0	0	0	0	ND	ND	ND	ND	ND	ND
Clasping leaf pondweed	<i>Potamogeton perfoliatus</i>	0	0	0	0	0	0	0	0	0	1	0	ND	ND	ND	ND	ND	ND
Small Pondweed	<i>Potamogeton pusillus</i>	0	0	0	0	0	0	0	0	0	9	0	ND	ND	ND	ND	ND	ND
Flatstem pondweed	<i>Potamogeton zosteriformis</i>	0	0	0	3	2	0	0	0	2	0	0	ND	ND	ND	ND	ND	ND
Arrowhead	<i>Sagittaria</i> spp.	0	0	0	0	0	0	1	0	1	2	2	ND	ND	ND	ND	ND	ND
Bur-reed	<i>Sparganium</i> spp.	0	0	0	0	0	0	0	0	0	0	1	ND	ND	ND	ND	ND	ND
Sago pondweed	<i>Stuckenia pectinata</i>	3	0	0	0	0	0	12	0	2	1	5	ND	ND	ND	ND	ND	ND
Eel grass	<i>Vallisneria americana</i>	8	6	15	6	9	11	2	13	12	28	28	ND	ND	ND	ND	ND	ND
Water stargrass	<i>Zosterella dubia</i>	1	1	0	0	0	3	2	2	0	15	23	ND	ND	ND	ND	ND	ND
Total Invasive Species Richness		3	3	3	3	3	3	3	3	3	3	3						
Total Native Species Richness		7	5	6	7	7	4	9	5	7	11	10						
Total Species Richness		10	8	9	10	10	7	12	8	10	14	13						
Invasive plant																		
* Percent occurrence on 100 points in 10 transects																		

