Lake Luzerne

Survey Date: July 30, 2018

Lake Description

Lake Luzerne is 103.71 acres. It is located in the town of Lake Luzerne, Warren County and lies in the Upper Hudson watershed. The team launched at the ramp on Lake Avenue with special permission from the town supervisor.

Aquatic Invasive Plant Presence

There is active invasive *Myriophyllum spicatum* (Eurasian watermilfoil) management on Lake Luzerne. At the time of survey, the management team was removing *Myriophyllum spicatum* from the lake, near the southern shore. Nineteen beds of *Myriophyllum spicatum* were detected. Beds ranged in size from 159.9 square feet to 6,559 square feet and were moderately dense. *Potamogeton crispus* (curly-leaf pondweed) is another known invasive species in Lake Luzerne, though none was detected during this survey. *Potamogeton crispus* has a unique biology that may factor into detection. It is usually one of the first plants to emerge each spring, and by mid-June or July the plants typically have died off for the season.

Native Plant Biota

Comprehensive surveys of all native plants found within the pond were not prioritized in 2018, as this data had been previously collected in 2015 when the lake was first surveyed. Native species detected in Lake Luzerne were: *Potamogeton amplifolius* (large leaf pondweed), *Brasenia schreberi* (watershield), *Utricularia intermedia* (flat-leaf bladderwort), *Elodea canadensis* (common waterweed), *Potamogeton robbinsii* (fern pondweed), *Najas* spp. (naiad), *Nitella* spp., *Myriophyllum sibiricum* (northern watermilfoil), and *Potamogeton gramineus* (variable pondweed).

Aquatic Invasive Animal Presence

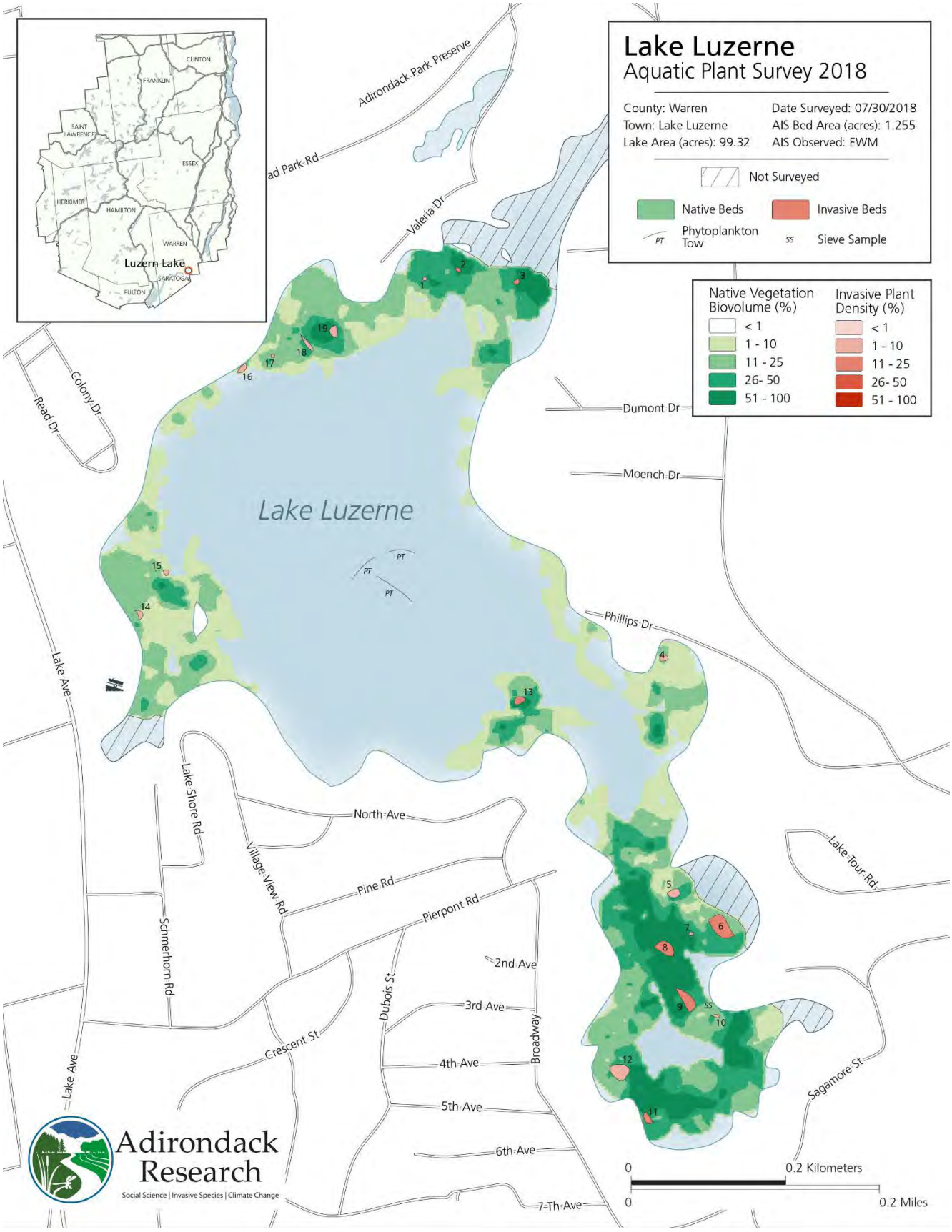
Sediment sieves were taken to determine the presence of *Corbicula fluminea* (Asian clams). None were found. Three plankton tows were also conducted with no invasive plankton detected.

Invasive Species Percent Cover (See map on adjacent page)

Eurasian Watermilfoil			
Bed	Size (Ac.)	Size (Sq. Ft.)	% Cover
1	0.001699	74	1 to 10
2	0.01	662	11 to 25
3	0.02	975	11 to 25
4	0.04	1,536	1 to 10
5	0.07	2,903	1 to 10
6	0.28	12,396	11 to 25
7	0.01	302	1 to 10
8	0.15	6,564	11 to 25
9	0.17	7,239	1 to 10
10	0.01	579	1 to 10
11	0.06	2,669	11 to 25

Eurasian Watermilfoil			
Bed	Size (Ac.)	Size (Sq. Ft.)	% Cover
12	0.19	8,308	1 to 10
13	0.05	2,202	11 to 25
14	0.03	1,494	1 to 10
15	0.03	1,152	1 to 10
16	0.04	1,661	1 to 10
17	0.001142	50	1 to 10
18	0.03	1,506	1 to 10
19	0.04	1,661	1 to 10

Asian Clam	Spiny Waterflea
Present (Y/N)	Present (Y/N)
No	No


Lake Luzerne
Aquatic Plant Survey 2018
County: Warren
Town: Lake Luzerne
Lake Area (acres): 99.32
Date Surveyed: 07/30/2018
AIS Bed Area (acres): 1.255
AIS Observed: EWM
Not Surveyed
Native Beds
Invasive Beds
Phytoplankton Tow
Sieve Sample
Native Vegetation Biovolume (%)
< 1
1 - 10
11 - 25
26- 50
51 - 100
Invasive Plant Density (%)
< 1
1 - 10
11 - 25
26- 50
51 - 100
Lake Luzerne
Adirondack Park Preserve
Valeria Dr
Colony Dr
Read Dr
Dumont Dr
Moench Dr
Phillips Dr
Lake Ave
Lake Shore Rd
North Ave
Village View Rd
Pine Rd
Pierpont Rd
Schmerhorn Rd
Dubois St
2nd Ave
3rd Ave
4th Ave
5th Ave
6th Ave
7-Th Ave
Broadway
Crescent St
Lake Tour Rd
Sagamore St
Luzern Lake
CLINTON
FRANKLIN
SAINT LAWRENCE
ESSEX
HERKIMER
HAMILTON
WARREN
SARATOGA
FULTON
0
0.2 Kilometers
0
0.2 Miles
Adirondack Research
Social Science | Invasive Species | Climate Change