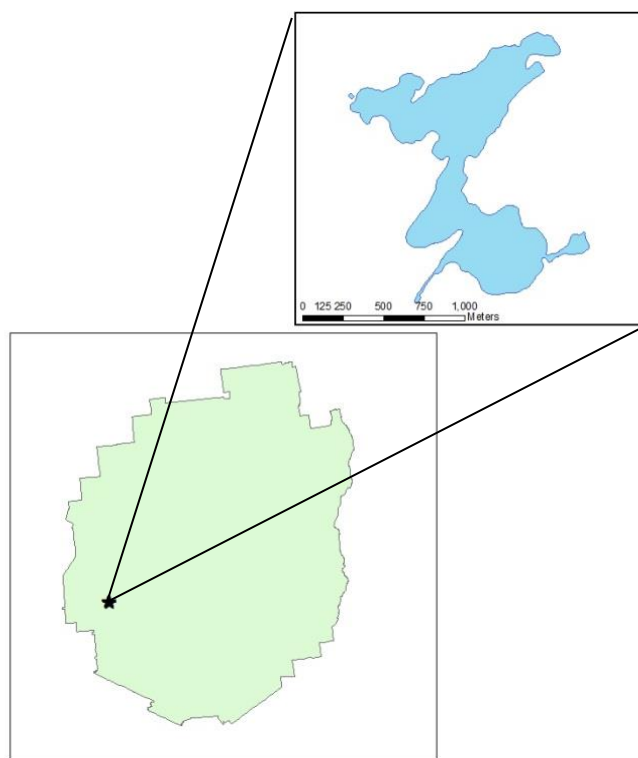


Nicks Lake Aquatic Plant Survey 2013



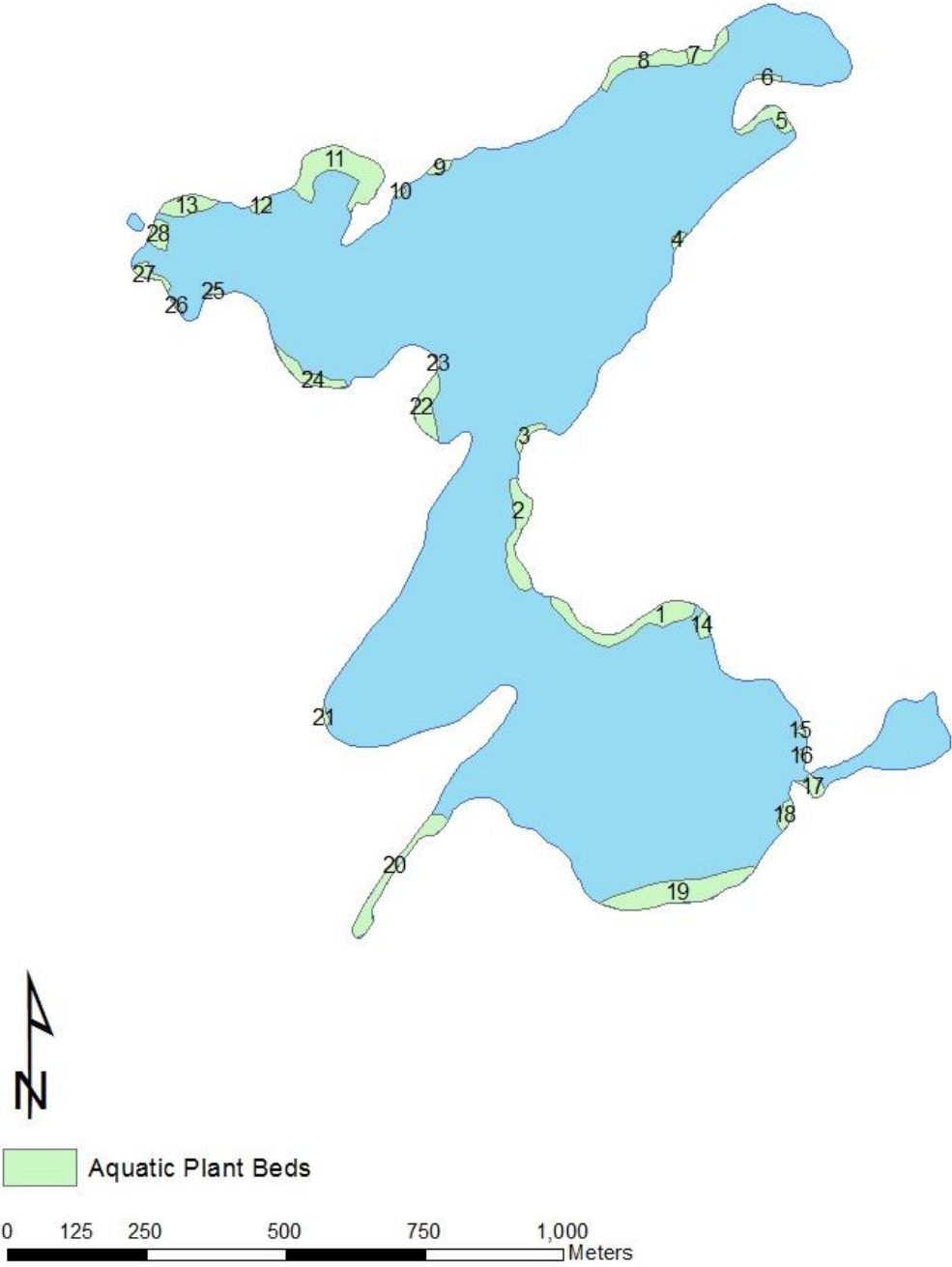
Map 1: Location of Nicks Lake

Nicks Lake is located in the town of Webb in Herkimer County, New York (Map 1). This 206 acre lake was accessed through the use of a public canoe launch. Motorized boats are prohibited on Nicks Lake.

An aquatic plant survey was conducted at Nicks Lake on the 24th of June 2013. Aquatic plant coverage was moderate, and was comprised of 28 plant beds that covered 12.7 acres or 6.2% of the lake. The invasive aquatic plant, variable-leaf milfoil (*Myriophyllum heterophyllum*), was observed in Nicks Lake. This invasive species was well established in two plant beds totaling about 4.5 acres (Table 1). Fifteen different species of native aquatic plants were identified. Species most common in this lake were Water Shield (*Brasenia schreberi*), Ribbon-leaf Pondweed (*Potamogeton epihydrus*), White Water Lily (*Nymphaea odorata*), Burr reed (*Sparganium spp.*), Yellow Water Lily (*Nuphar variegata*).

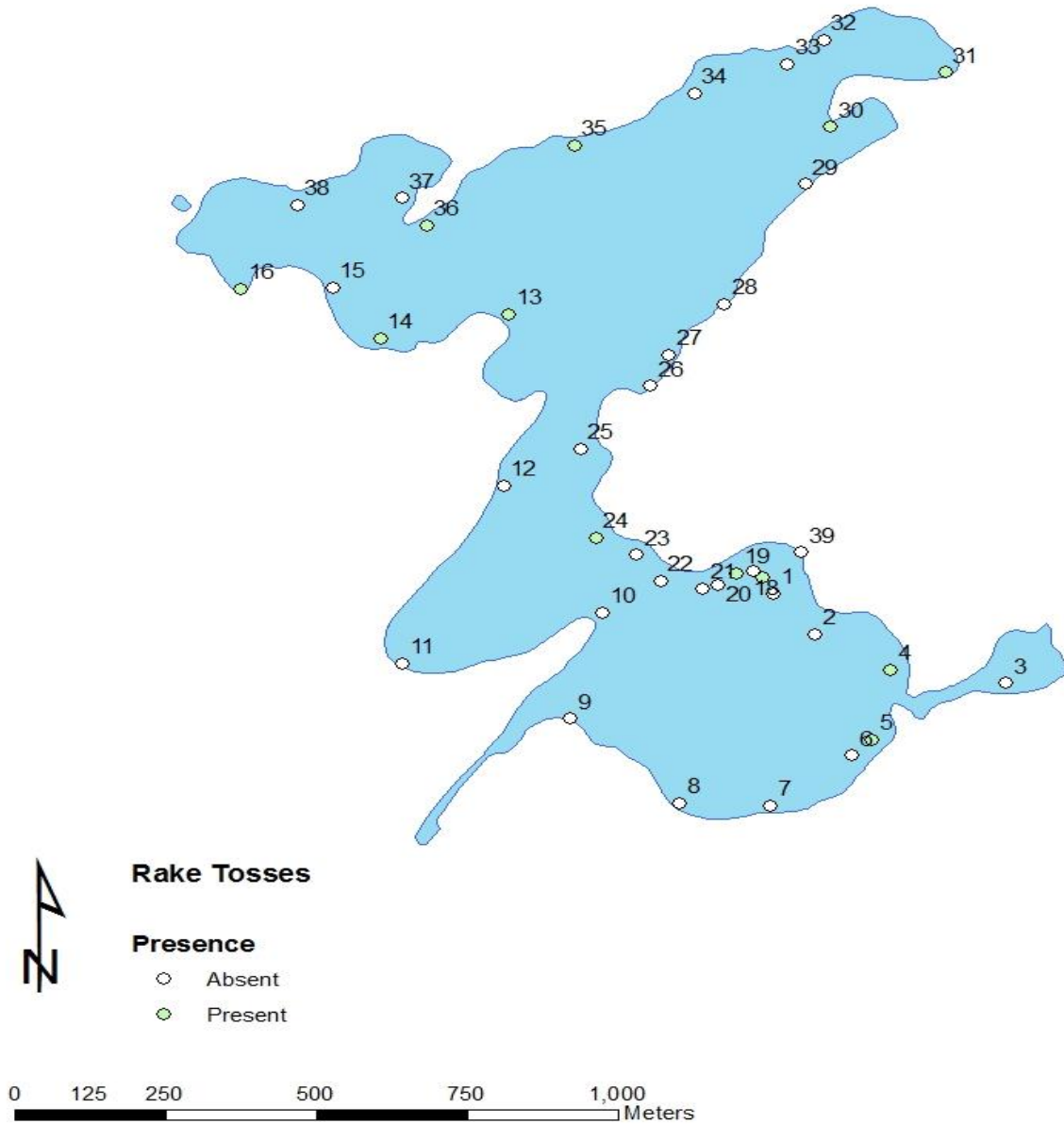
Of the 38 rake tosses deployed through the littoral zone of Nicks Lake, 12 had plants recovered. There were 3 species that were brought up on the rake that were not detected during the surface survey. They were Variable-Leaf Pondweed (*Potamogeton gramineus*), Purple Bladderwort (*Utricularia purpurea*) and Spineless Hornwort (*Ceratophyllum echinatum*) (Table 2).

Nicks Lake



Map 2: Locations of the aquatic plant beds detected in Nicks Lake during the surface survey on the 24th of June 2013. Data for plant beds can be found on Table 1.

Nicks Lake



Map 3: Rake toss locations on Nicks Lake on the 17th and 18th of June 2013. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake. Data for rake tosses can be found on Table 2.

Table 1: Abundance and area of aquatic plant beds in Nicks Lake. Refer to Map 2 for plant bed locations. Abundance key: 1=RARE (<5%), 2=OCCASIONAL (6-15%), 3=PRESENT (16-25%), 4=COMMON (26-50%), 5=ABUNDANT (>50%). The four letter species codes are defined on the next page.

Bed #	BRSC	POEP	NYOD	VAAM	SPSP	NUVA	UTVU	MYHE	SAGR	POOA	ERSP	LODO	ELSP	Acres
1	3	3			3	3			2		1	1	3	1.61
2	3	2				2	1		2		3	2		1.17
3	4					1	1		1		2	1		0.22
4					5									0.11
5		4				3	2		2					0.56
6						1			1	1				0.09
7	1	2		2	3	2	2		1				2	0.45
8	4				1									0.96
9	3													0.17
10	3										2	1		0.04
11	3	1	3			2	1	4	2		2			2.30
12	4						1							0.18
13	2	1	4								2			0.68
14	1	1	1		1				1					0.22
15	1				2									0.05
16	1													0.05
17	1	1			3	2	2			1			4	0.26
18	1				1	1								0.25
19			1			1		2						2.19
20	2					1	1							1.16
21	1		1			1								0.05
22	3										2			0.76
23	2													0.03
24	1	1				3								0.60
25			2											0.06
26	1		1			1	1							0.05
27	1					1								0.28
28	1					1				1				0.36

Table 2: Species present on the rake, abundance, and depth at each of the rake toss locations that had plants recovered at Nicks Lake. Refer to Map 3 for rake toss locations. Abundance key: 1=RARE (<5%), 2=OCCASIONAL (6-15%), 3=PRESENT (16-25%), 4=COMMON (26-50%), 5=ABUNDANT (>50%).

Rake Toss #	Water Shield (<i>Brasenia schreberi</i>)	Ribbon Leaf Pondweed (<i>Potamogeton epihydrus</i>)	Common Bladderwort (<i>Utricularia vulgaris</i>)	Variable-Leaf Pondweed (<i>Potamogeton gramineus</i>)	Hairgrass (<i>Eleocharis</i> spp.)	Purple Bladderwort (<i>Utricularia purpurea</i>)	Spineless Hornwort (<i>Ceratophyllum echinatum</i>)	Depth (ft)
4			1					5
5			1				1	11
13						1		11
14	2	1	1	1				8
16			1					6
17			1					8
19			1					10
24					1			5
30					1			10
31			2					9
35			1					7
36			1		1			5

Code	Common name (scientific name)
BRSC	Watershield (<i>Brasenia schreberi</i>)
POEP	Ribbon-leaf Pondweed (<i>Potamogeton epihydrus</i>)
NYOD	White Water Lily (<i>Nymphaea odorata</i>)
VAAM	Eel-grass (<i>Vallisneria americana</i>)
SPSP	Burreed (<i>Sparganium</i> spp.)
NUVA	Yellow Water Lily (<i>Nuphar variegata</i>)
UTVU	Common Bladderwort (<i>Utricularia vulgaris</i>)

Code	Common name (scientific name)
MYHE	Variable-leaved Watermilfoil (<i>Myriophyllum heterophyllum</i>)
SAGR	Grassy Arrowhead (<i>Sagittaria graminea</i>)
POOA	Oakes' Pondweed (<i>Potamogeton oakesianus</i>)
ERSP	Pipewort (<i>Eriocaulon</i> sp.)
LODO	Water Lobelia (<i>Lobelia dortmanna</i>)
ELSP	Hairgrass (<i>Eleocharis</i> sp.)