

Map 1: Location of Hitchens Pond

Hitchens Pond is located in in St. Lawrence County, New York (Map 1). This pond was entered from of a canoe access point located near the lower dam on Lowes Lake. This is also the access point to travel to Lowes Lake.

An aquatic plant survey was conducted at Hitchens Pond on 12 June 2013. Aquatic plants were quite abundant in this water body, with 34 aquatic plant beds comprised 105.2 acres of this pond (Map 3). No aquatic invasive plants were observed in this survey. Seventeen species of native aquatic plants were identified. Species most common in Hitchens Pond were Water Shield (*Brasenia schreberi*), Large-leaf Pondweed (*Potamogeton amplifolius*), Ribbon-leaf Pondweed (*Potamogeton epihydrus*), White-stem Pondweed (*Potamogeton praelongus*), White-water Lily (*Nymphaea odorata*), and Yellow-water Lily (*Nuphar variegata*) (Table 1).

Of the 75 rake tosses deployed throughout the littoral zone of the pond, 52 had plants recovered. There were no species that were brought up on the rake that were not detected during the surface survey (Table 2).

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

Bed	BRSC	POAM	-	POPR	PORO	POSPI	NYOD	NISP	SPSP	NUVA	UTVU	SAGR	PONA	ELSP	UTPU	UTIN	Acres
1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.00
2	1	0	1	0	0	0	1	0	0	0	0	0	2	3	0	0	0.06
3	3	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0.28
4	1	0	0	0	0	0	3	0	3	1	0	0	0	1	1	0	0.42
5	0	0	0	0	0	0	2	0	3	2	0	0	1	3	0	0	3.83
6	0	0	2	0	0	0	1	0	2	0	0	0	0	3	0	0	0.04
7	0	0	1	0	0	0	2	0	4	0	0	0	0	0	0	0	0.12
8	3	0	2	0	0	0	2	0	3	0	0	0	0	3	1	0	0.80
9	3	3	0	0	2	0	5	3	2	2	3	0	0	0	3	0	22.45
10	0	1	3	1	0	0	4	0	2	0	0	0	0	5	4	0	5.30
11	1	0	0	0	0	0	2	0	3	3	0	0	1	5	0	0	12.83
12	0	0	0	0	0	0	0	0	1	1	1	0	1	3	0	0	0.02
13	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0.05
14	1	0	0	0	0	0	1	0	1	1	2	1	0	0	0	3	0.05
15	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.01
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17	1	0	0	0	0	0	0	0	5	1	0	0	0	1	0	0	0.55
18	1	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0.15
19	4	0	0	0	0	0	3	0	3	3	3	0	3	4	3	3	13.03
20	1	1	1	0	0	0	2	0	1	1	0	0	0	1	0	0	1.98
21	1	1	0	0	0	0	1	0	1	1	0	0	0	4	2	0	13.03
22	1	1	1	0	0	2	5	0	0	2	0	3	0	4	0	0	11.42
23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11
24	2	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	1.25
25	1	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0.30
26	1	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	1.27
27	1	0	1	0	0	0	4	0	2	1	0	0	0	4	1	0	6.57
28	2	1	1	0	0	0	2	0	2	2	0	0	0	4	0	0	1.14
29	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0.09
30	1	0	1	0	0	0	2	0	2	2	0	0	0	4	0	0	1.20
31	1	0	0	0	0	0	2	0	2	0	0	0	0	3	0	0	1.32
32	0	0	2	0	0	0	3	0	2	3	0	0	1	3	0	0	2.71
33	1	0	0	0	0	0	2	0	3	1	0	0	0	2	0	0	2.75
34	1	0	0	0	1	0	1	0	1	2	0	1	1	1	1	1	0.23

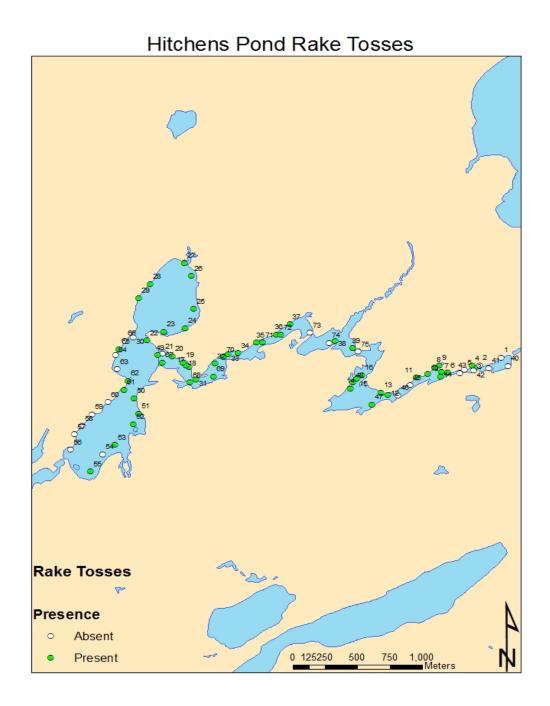
Species Code	Scientific name	Common Name
BRSC	Brasenia schreberi	water shield
ELSP	Eleocharis species	hair grass
ERSP	Eriocaulon aquaticum	pipewort
LODO	Lobelia dortmanna	water lobelia
MYAL	Myriophyllum alpinus	Alpine milfoil
MYSI	Myriophyllum sibiricum	Northern water-milfoil
NISP	Najas species	water naiad
NUVA	Nuphar variegata	spatterdock
NYOD	Nymphaea odorata	white water lily
POAM	Potamogeton amplifolius	large- leaved pondweed
POEP	Potamogeton epihydrus	ribbon-leaved pondweed
PONA	Potamogeton natans	floating-leaved pondweed
POPR	Potamogeton praelongus	white-stemmed pondweed
PORO	Potamogeton robbinsii	Robbins pondweed
POSPI	Potamogeton spirillus	spiral-fruited pondweed
SAGR	Sagittaria graminea	grass-leaf arrowhead
SPSP	Sparganium species	bur-reed
UTIN	Utricularia inflata	swollen bladderwort
UTPU	Utricularia purpurea	purple bladderwort
UTVU	Utricularia vulgaris	common bladderwort

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

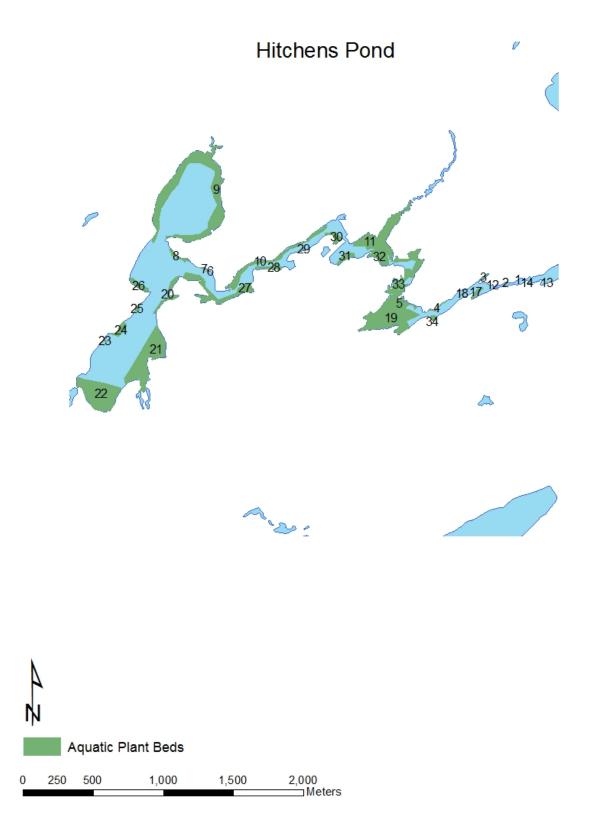
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Site	BRSC	POAM	PORO	NYOD	NISP	SPSP	UTVU	SAGR	ERSP	MYAL	MYSI	LODO	ELSP	UTPU	UTIN	Depth
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9
4	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8
8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4
9	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3
10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6
11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
12	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3
13	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	2
14	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
15	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
16	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	7
17	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	3
18	0	0	0	0	0	0	0	0	0	0	4	0	2	2	0	6
19	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	4
20	0	0	0	0	0	0	3	0	0	0	0	0	4	0	0	5
22	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	4
23	0	0	0	0	0	0	4	0	0	0	0	0	0	5	0	4
24	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	5
25	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
26	0	0	3	0	0	0	1	0	0	0	0	0	3	0	0	8
27	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	3
28	0	0	0	0	4	0	0	0	0	0	0	0	3	1	0	8
29	0	0	0	0	3	0	0	0	3	0	0	0	2	0	0	5
31	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4
32	0	0	0	3	0	0	1	0	0	0	0	0	1	2	0	5
33	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	6

## Table 2. (continued)

Site	BRSC	POAM	PORO	NYOD	NISP	SPSP	UTVU	SAGR	ERSP	MYAL	MYSI	LODO	ELSP	UTPU	UTIN	Depth
34	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
35	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
37	0	0	0	0	0	0	2	0	2	0	0	0	4	0	0	5
38	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	3
39	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5
44	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7
47	0	0	0	0	0	0	1	0	0	0	0	0	0	4	1	4
48	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
49	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	5
50	0	0	0	0	0	0	0	0	0	1	2	0	1	1	0	6
51	0	0	0	0	0	0	0	0	0	3	0	0	2	2	0	4
52	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3
53	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
55	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	3
61	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7
62	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3
65	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9
67	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	9
68	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	6
69	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	5
70	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	6
71	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	5
72	0	0	0	0	0	0	1	0	0	0	0	0	1	3	0	5



Map 2: Rake toss locations on Hitchens Pond on 12 June 2013. Open circles represent locations where no plants were detected, closed circles represents locations where plants were encountered on the rake. Data for rakes tosses can be found on Table 2.



Map 3: Locations of the aquatic plant beds detected in Hitchens Pond during the surface survey on 12 June 2013. Data for plants beds can be found on Table 1.