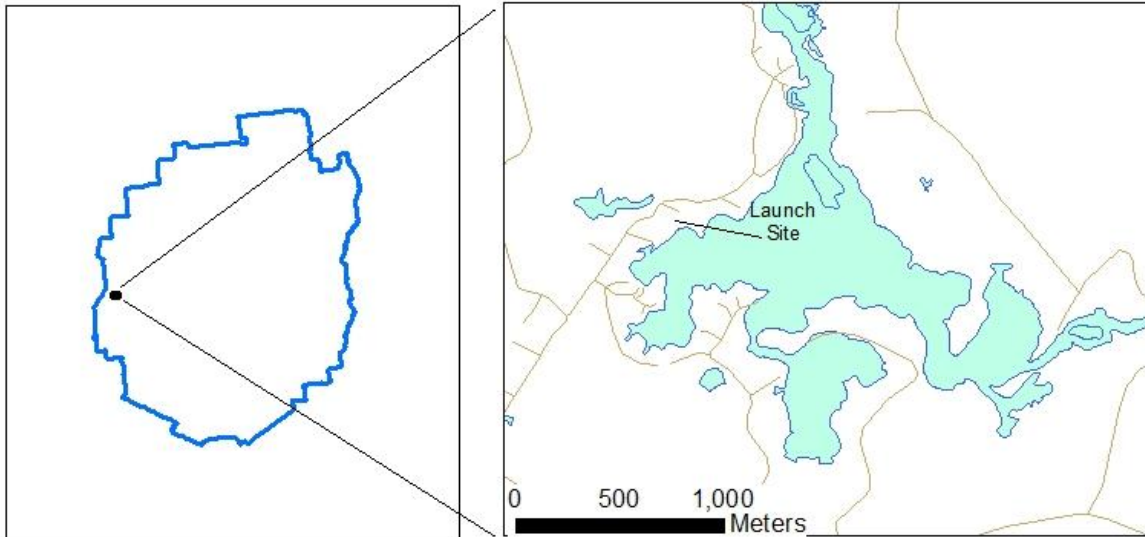


Beaver Lake Aquatic Plant Survey 2012



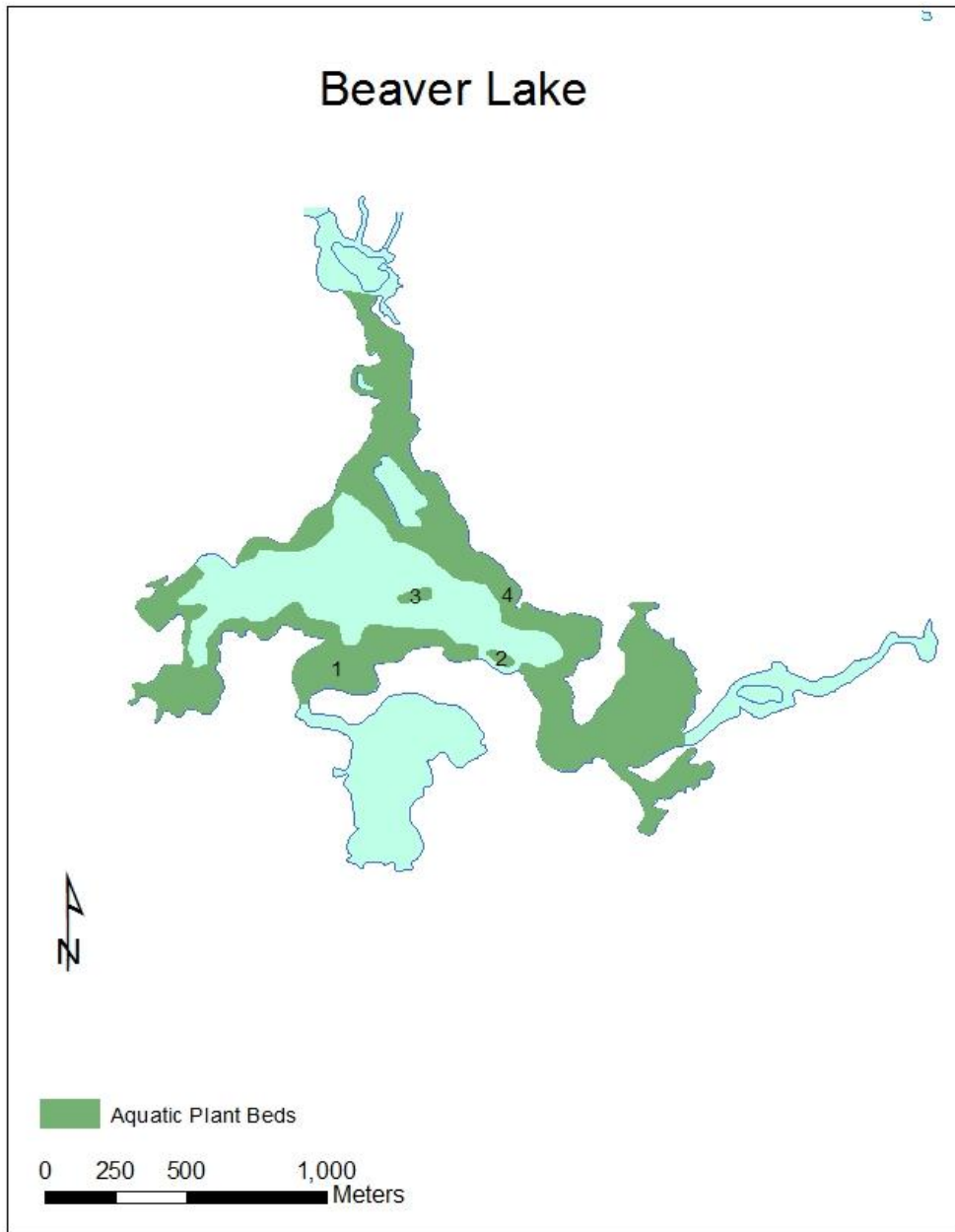
Map 4: Location of Beaver Lake.

Beaver Lake is located the town of Watson in Lewis County, New York (Map 4). The 238 acre lake was accessed through Beaver Camp, a private camp which allowed the use of their launch. The launch was located on Buck Point Road off from Stillwater Road north of the town of Inlet.

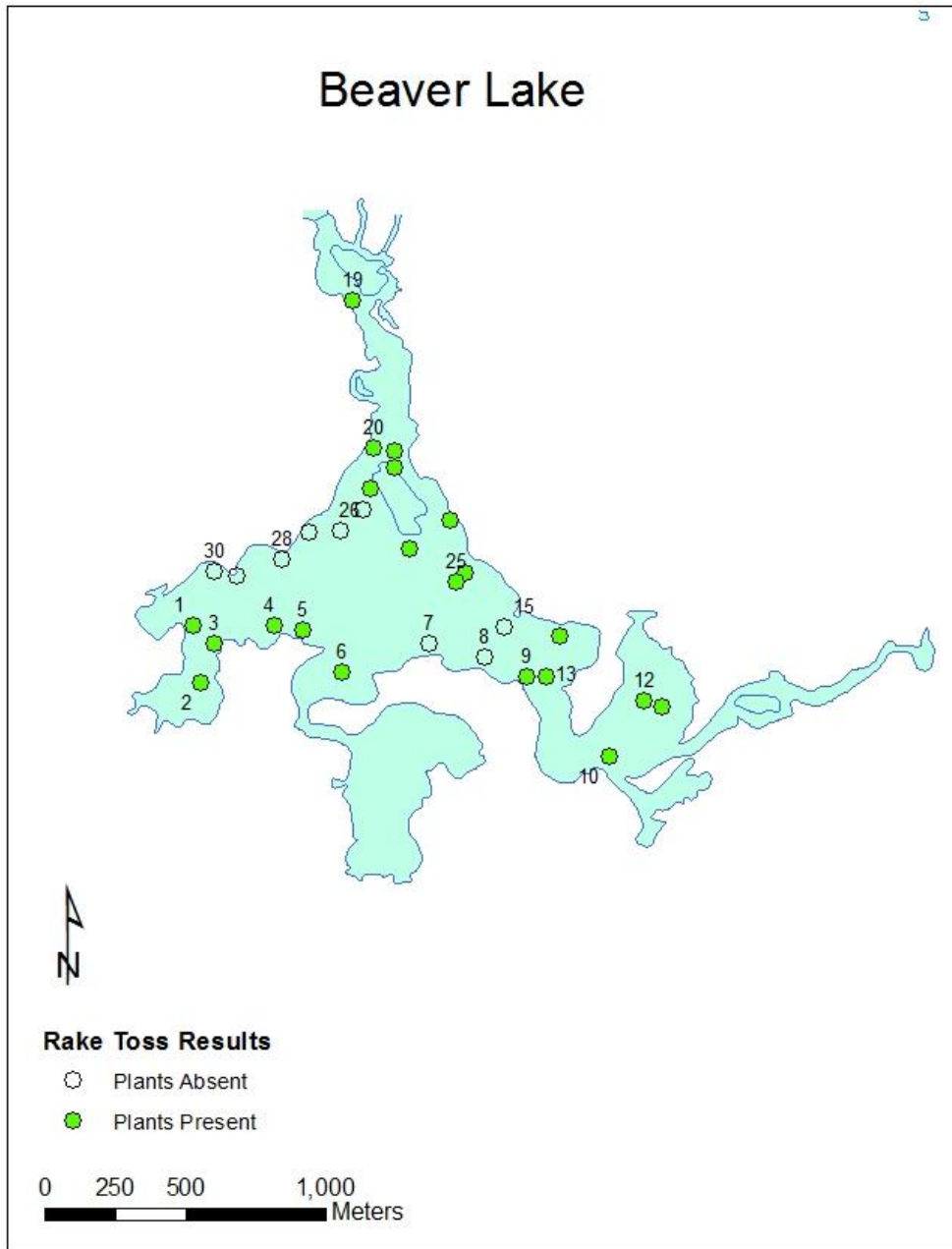
An aquatic plant survey of Beaver Lake was conducted on 15-August-2012. A species of concern, Little floating heart (*Nymphoides cordata*), was detected during this survey (Map 7). Aquatic plant coverage in Beaver Lake was relatively low, comprised of 4 plant beds that collectively covered 16.8 acres or 7.2% of the surface area of the lake (Map 5). Fourteen different aquatic species were identified during this survey. Species most common within the water body included Little floating heart, Brittlewort (*Nitella sp.*), and Hairgrass (*Eliocharis sp.*). Purple bladderwort (*Utricularia purpurea*), Common bladderwort (*Utricularia vulgaris*), and Coontail (*Ceratophyllum sp.*) were common species that could be easy to confuse with invasive species (Table 3).

Of the 30 rakes deployed throughout the littoral zone of the lake (Map 6), 21 had acquired plants upon their recovery (70%). Coontail (*Ceratophyllum sp.*), Water naiad (*Najas sp.*), and Brittlewort (*Nitella sp.*) were species brought up on the rakes that were not detected in the surface survey (Table 4).

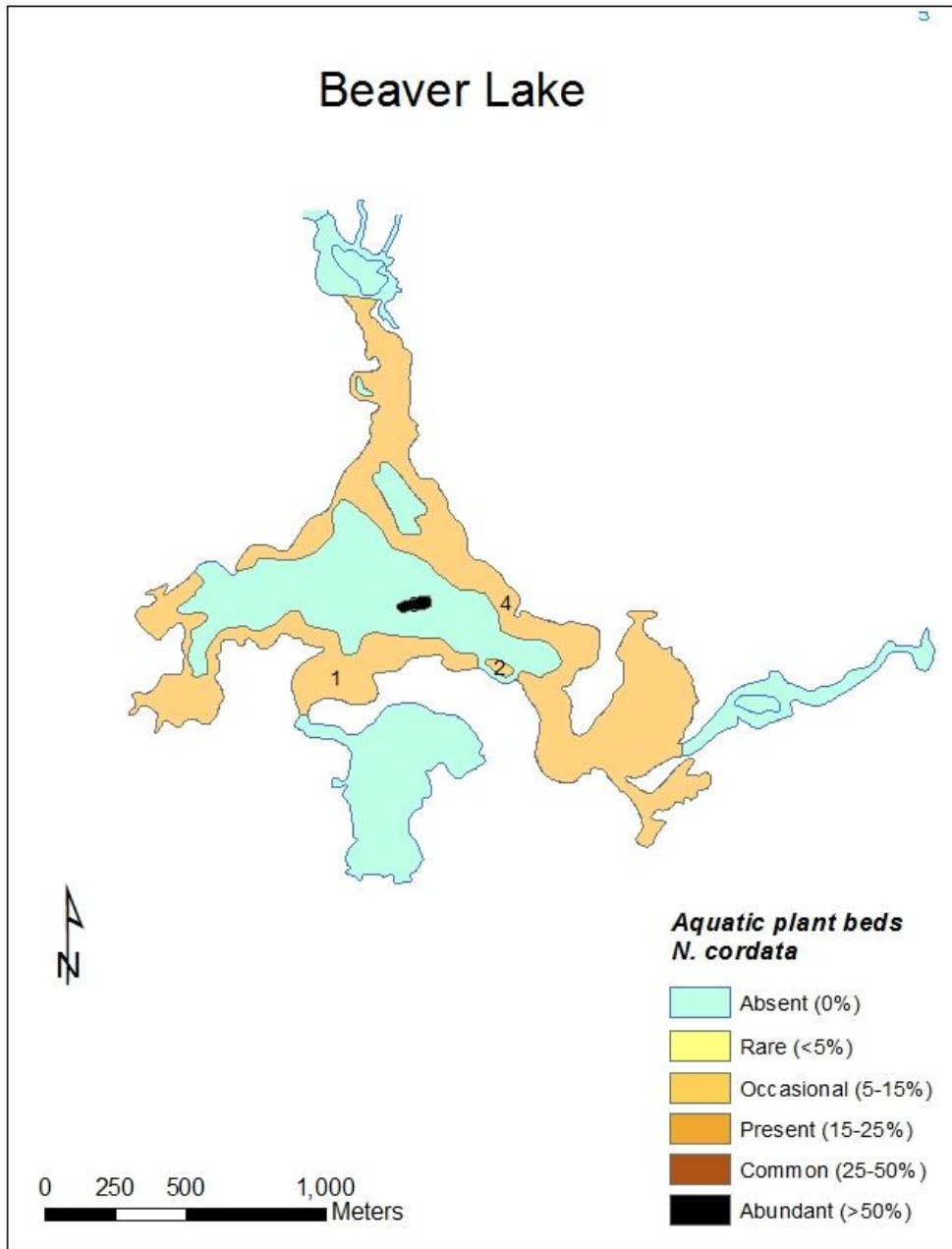
Little floating heart in Beaver Lake was found in 4 beds that covered 16.8 acres. This was 7.2% of the surface area of Beaver Lake and 100% of the total aquatic plant coverage in the lake (Map 7 & Table 5).



Map 5: Location of the aquatic plant beds detected in Beaver Lake during the surface survey performed on 15 Aug, 2012.
Data for Plant Beds can be found on Table 3.



Map 6: Rake toss locations on Beaver Lake, 15 Aug, 2012. 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 4.



Map 7: Location of *Nymphaeodes cordata* detected in Beaver Lake during the surface survey performed on 15 Aug, 2012.
Data for *N. cordata* can be found on Table 5.

Table 3: Percent cover of aquatic plant species detected at each plant bed in Beaver Lake. Refer to Map 5 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Beaver Lake			Plant Bed Numbers			
			1	2	3	4
Scientific Name	Common Name	AREA (M ²)	191018	3362	4615	481832
<i>Brasenia schreberi</i>	Water shield		R	R	-	R
<i>Eleocharis sp.</i>	Hairgrass		P	-	-	P
<i>Nuphar variegata</i>	Spatterdock		R	-	-	-
<i>Nymphaea odorata</i>	White waterlily		P	P	-	P
<i>Nymphoides cordata</i>	Little floatingheart		O	O	A	O
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		R	-	-	P
<i>Potamogeton natans</i>	Floating pondweed		P	-	-	R
<i>Sagittaria graminea</i>	Grassy arrowhead		-	R	-	-
<i>Sparganium sp.</i>	Bur-reed		R	-	-	R
<i>Utricularia purpurea</i>	Purple bladderwort		-	R	-	R
<i>Utricularia vulgaris</i>	Common bladderwort		P	R	-	O

Table 4: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 6 for Rake locations.

Beaver Lake		Rake Toss Numbers																								
		1	2	3	4	5	6	9	10	11	12	13	14	16	17	18	19	20	21	22	24	25				
Scientific Name	Common Name																									
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-				
<i>Eleocharis sp.</i>	Hairgrass	O	-	-	-	-	-	O	-	-	-	O	A	-	-	P	C	-	O	-	-	-				
<i>Najas sp.</i>	Water naiad	-	O	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<i>Nitella sp.</i>	Brittlewort	R	R	R	R	R	O	R	-	-	-	-	-	R	R	-	-	R	O	R	-	-				
<i>Nuphar variegata</i>	Spatterdock	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-				
<i>Nymphoides cordata</i>	Little floatingheart	-	-	-	-	-	-	R	-	R	-	-	-	-	R	-	-	-	-	-	-	R				
<i>Sparganium sp.</i>	Bur-reed	-	-	-	-	-	O	R	-	-	-	O	-	-	-	-	-	-	-	-	-	-				
<i>Utricularia purpurea</i>	Purple bladderwort	P	-	-	-	-	P	-	-	-	-	-	-	-	-	R	-	-	P	C	-	R				

Table 5: Percent cover of *Nymphoides cordata* detected in Beaver Lake. Refer to Map 7 for *N cordata* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Beaver Lake			Plant Bed Numbers			
			1	2	3	4
<i>Scientific Name</i>	Common Name	AREA (M ²)	191018	3362	4615	481832
<i>Nymphoides cordata</i>	Little floatingheart		O	O	A	O