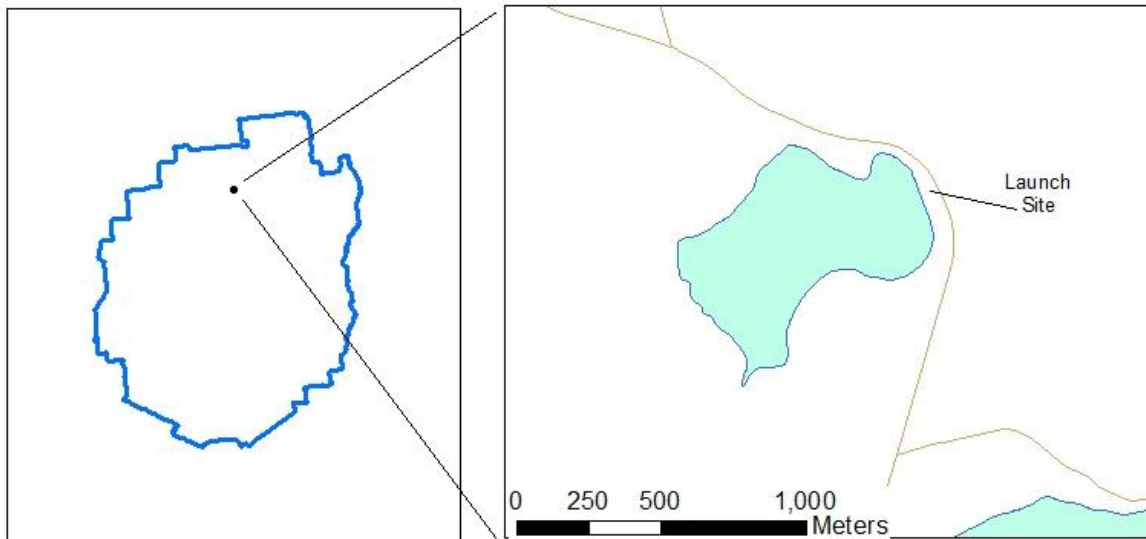


Barnum Pond Aquatic Plant Survey 2012

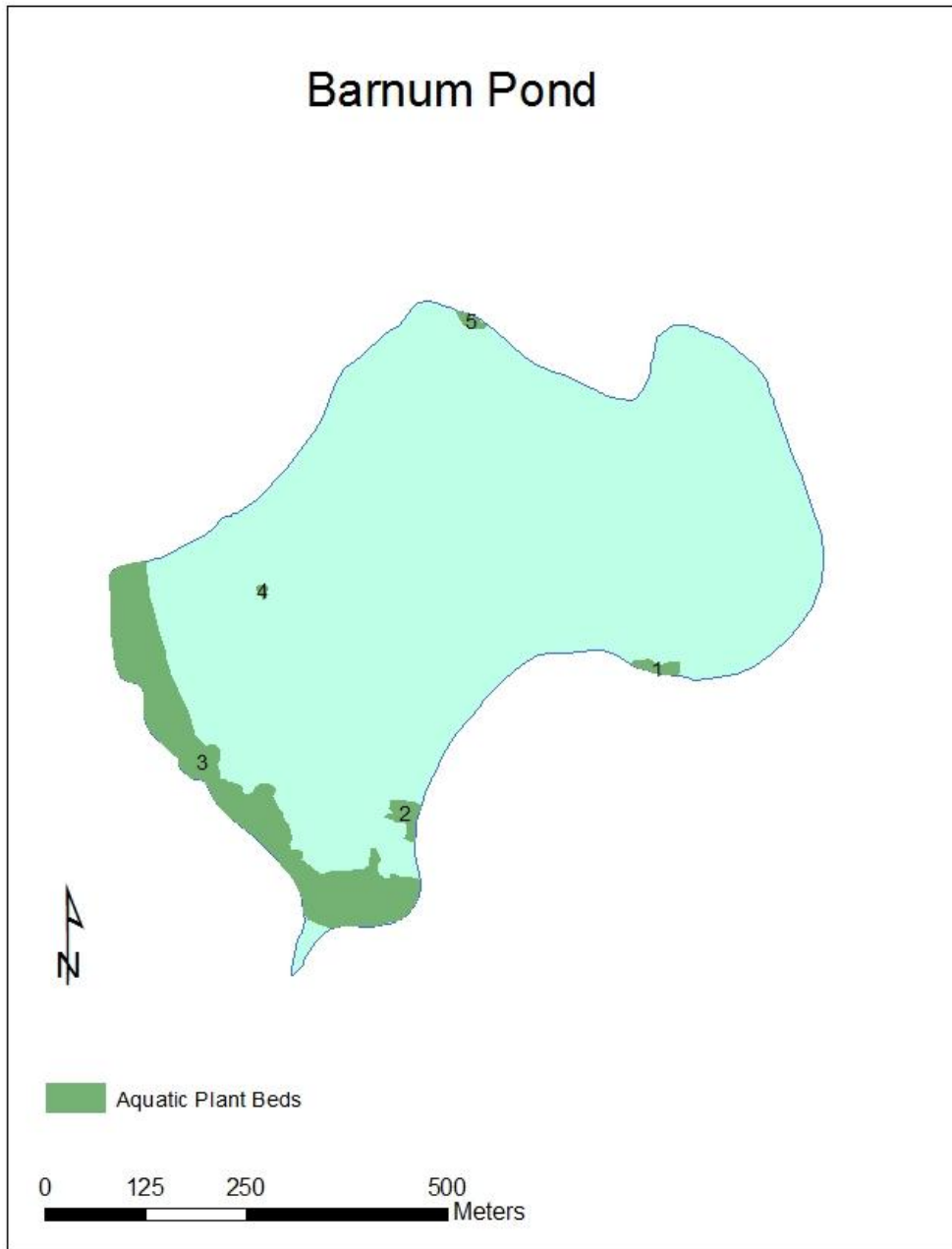


Map 1: Location of Barnum Pond.

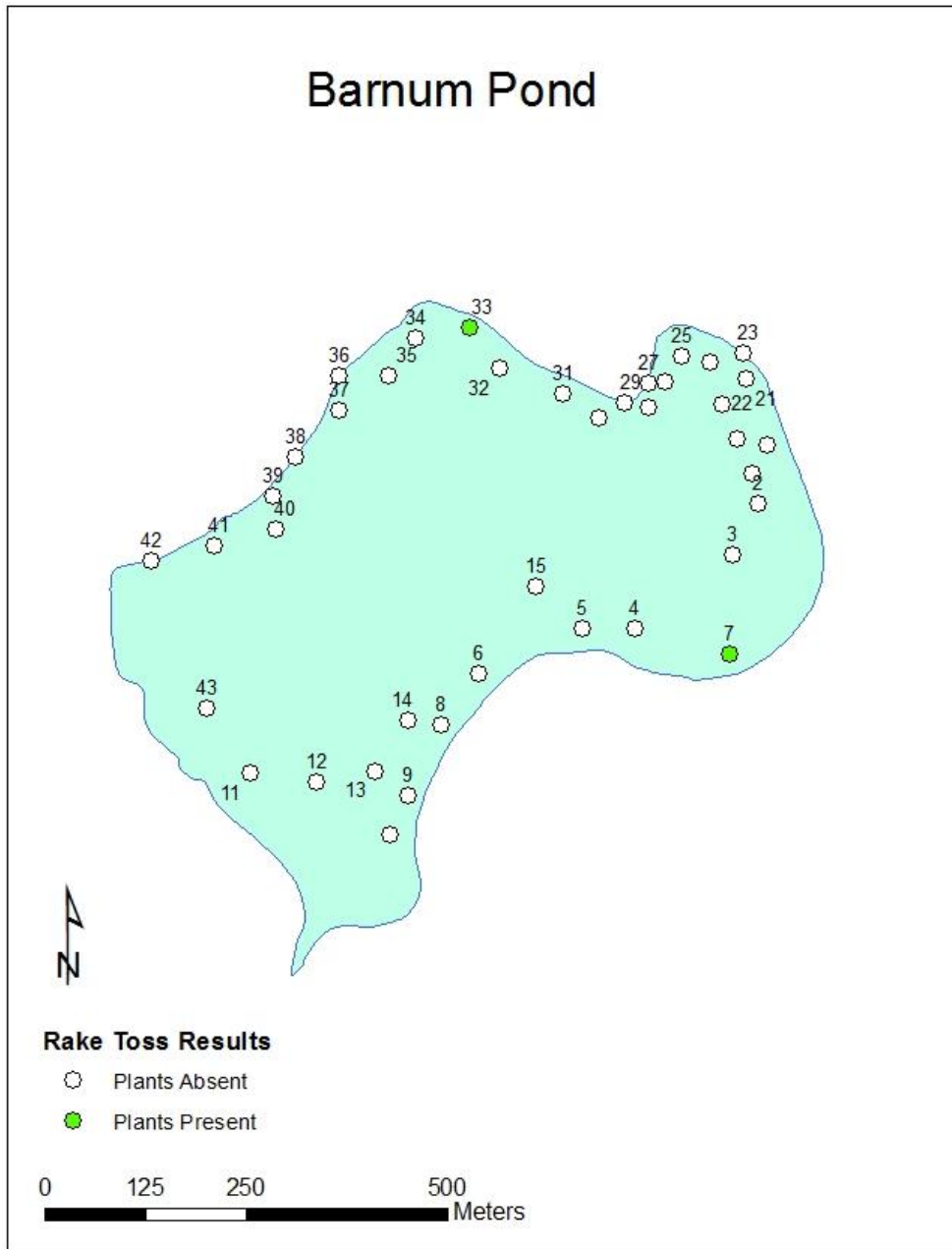
Barnum Pond is located the town of Brighton in Franklin County, New York (Map 1). The 84 acre pond was accessed by a hardtop launch on the eastern shore just off from State Route 30, 1.7 miles north of Paul Smiths, New York.

An aquatic plant survey of Barnum Pond was conducted on 8-August-2012. No invasive aquatic plants were detected during the survey. Aquatic plant coverage in Barnum Pond was moderate, comprised of 5 plant beds that collectively covered 8 acres or 9.5% of the surface area of the lake (Map 2). Only 4 different aquatic species were identified during the survey. The most common species were Spatterdock (*Nuphar variegata*), White waterlily (*Nymphaea odorata*), Bur-reed (*Sparganium sp.*), and Common bladderwort (*Utricularia vulgaris*). When this survey was preformed there was an algal bloom which may have had an effect on data collected as visibility into the water only reached a depth of 1-2 feet, therefore more rakes were deployed to gain a better understanding of what species could be found in the water. Common bladderwort could easily be confused as an invasive species (Table 1)

Of the 43 rake tosses spaced throughout the littoral zone of the lake (Map 3), only 2 had acquired plants upon their recovery (4.7%). All species found during the rake tosses were detected during the surface survey of Barnum Pond (Table 2).



Map 2: Location of the aquatic plant beds detected in Barnum Pond during the surface survey performed on 08 Aug, 2012.
Data for Plant Beds can be found on Table 1.



Map 3: Rake toss locations on Barnum Pond, 08 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 2.

Table 1: Percent cover of aquatic plant species detected at each plant bed in Barnum Pond. Refer to Map 2 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Barnum Pond			Plant Bed Number				
			1	2	3	4	5
Scientific Name	Common Name	AREA (M²)	779	1229	29963	180	471
<i>Nuphar variegata</i>	Spatterdock		P	-	P	A	-
<i>Nymphaea odorata</i>	White waterlily		-	R	P	-	-
<i>Sparganium sp.</i>	Bur-reed		C	A	P	-	C
<i>Utricularia vulgaris</i>	Common bladderwort		-	-	R	-	-

Table 2: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 3 for Rake locations.

Barnum Pond		Rake Toss Number	
Scientific Name	Common Name		
		7	33
<i>Nuphar variegata</i>	Spatterdock	R	-
<i>Utricularia vulgaris</i>	Common bladderwort	-	R