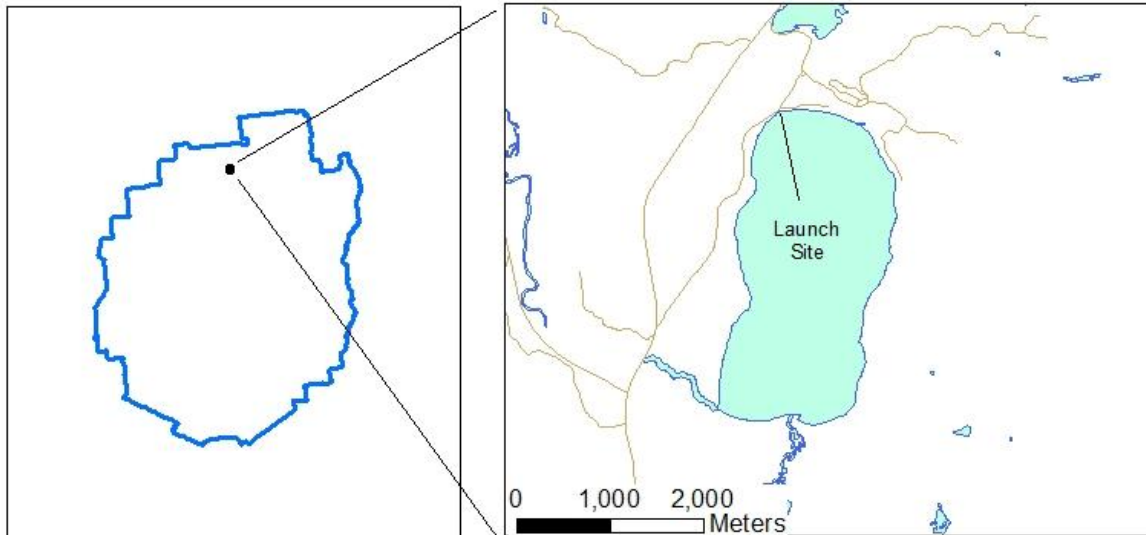


Meacham Lake Aquatic Plant Survey 2012



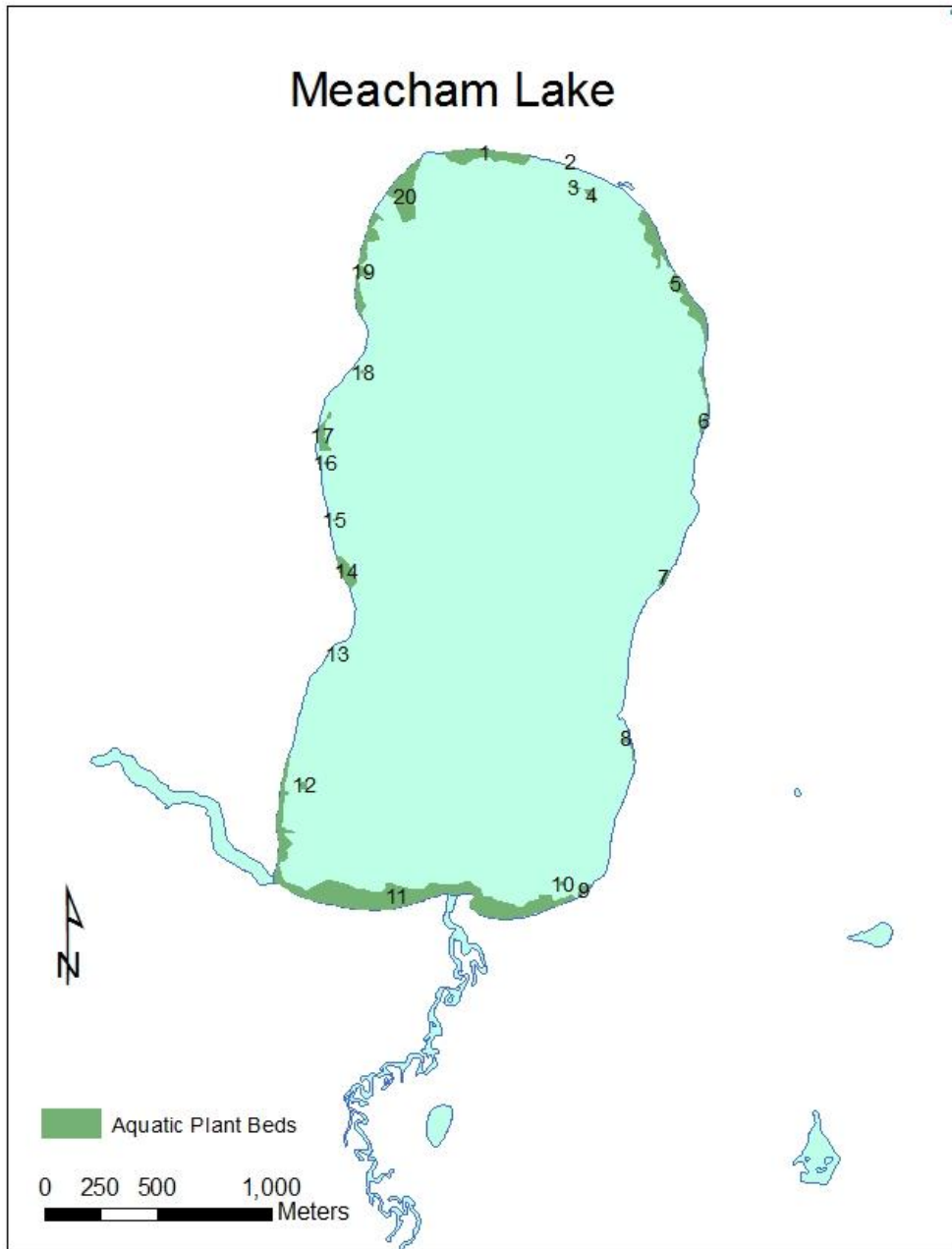
Map 58: Location of Meacham Lake.

Meacham Lake is located in the town of Duane in Franklin County, New York (Map 58). The 1185 acre lake was accessed by a DEC hardtop boat launch on the northern shore of the Lake. The launch is found on the Meacham Road off from New York State Route 30, twenty miles south of Malone and 11 miles north of Paul Smiths, New York.

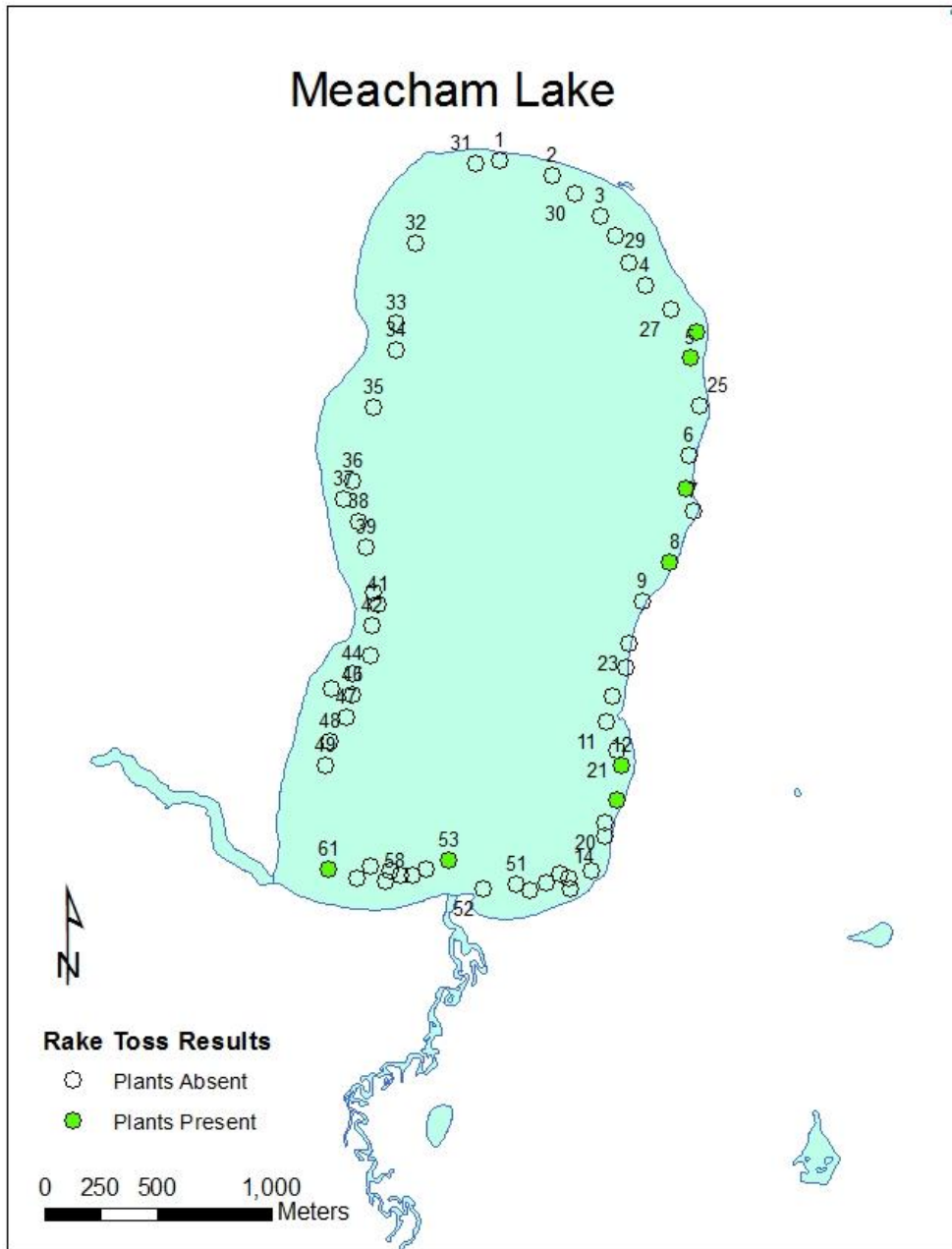
An aquatic plant survey of Meacham Lake was conducted 19-July-2012. Eurasian watermilfoil (*Myriophyllum spicatum*) was detected during this survey (Map 61). Aquatic plant coverage in Meacham Lake was relatively low, comprised of 20 beds that covered 51.3 acres or 4.3% of the surface area of the lake (Map 59). Nineteen different aquatic species were identified during this survey. Common species of these water bodies included Spatterdock (*Nuphar variegata*) and Eel-grass (*Vallisneria americana*). Slender watermilfoil (*Myriophyllum tenellum*) was the only species present that could easily be confused with an invasive species (Table 41).

Of the 61 rake tosses spaced throughout the littoral zone of Meacham Lake (Map 60), 8 had acquired plants upon recovery (13.1%). Brittlewort (*Nitella sp.*) was the only species recovered by the rake tosses that was not detected during the surface survey (Table 42).

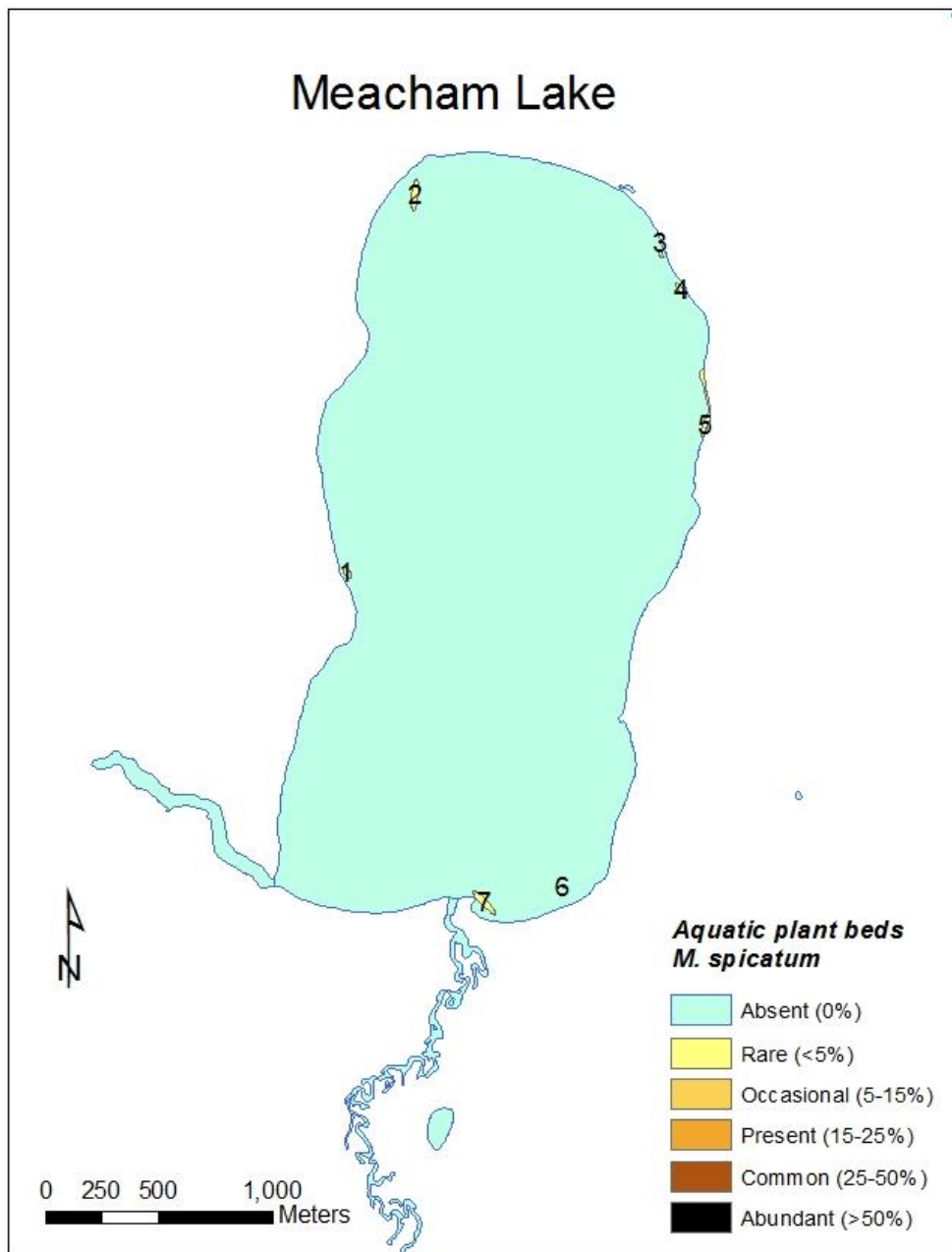
Eurasian watermilfoil in Meacham Lake was found in 7 beds that covered 3.2 acres. This was 0.3% of the surface area of Meacham Lake and 6.2% of the total aquatic plant coverage in the lake (Map 61 & Table 43).



Map 59: Location of the aquatic plant beds detected in Meacham Lake during the surface survey performed on 19 July, 2012.
Data for Plant Beds can be found on Table 41.



Map 60: Rake toss locations on Meacham Lake, 19 July, 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 42.



Map 61 Location of the aquatic plant beds detected in Meacham Lake containing *Myriophyllum spicatum* during the surface survey performed on 19 July, 2012.
Data for *M. spicatum* beds can be found on Table 43.

Table 41: Percent cover of aquatic plant species detected at each plant bed in Meacham Lake. Refer to Map 59 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

| Meacham Lake | | | Plant Bed Numbers | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|------------------------|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| Scientific Name | Common Name | AREA (M ²) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| <i>Brasenia schreberi</i> | Water shield | 16958 | - | - | - | - | - | - | - | R | O | R | O | - | - | O | - | - | - | - | - | - |
| <i>Eleocharis sp.</i> | Hairgrass | 409 | - | - | - | - | - | - | - | - | - | - | R | - | - | - | - | - | - | - | - | - |
| <i>Eriocaulon sp.</i> | Pipewort | 650 | - | - | - | - | R | - | - | - | - | - | R | - | - | - | - | - | - | - | - | - |
| <i>Lobelia dortmanna</i> | Water lobelia | 1321 | - | - | - | - | - | - | - | - | - | - | R | - | - | - | - | - | - | - | - | - |
| <i>Myriophyllum alteriflorum</i> | Alternate-leaf milfoil | 24934 | - | - | - | - | R | - | - | O | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Myriophyllum spicatum</i> | Eurasian watermilfoil | 3977 | - | - | - | - | R | R | - | - | - | R | R | - | - | R | - | - | - | - | - | R |
| <i>Myriophyllum tenellum</i> | Slender watermilfoil | 1367 | - | A | - | - | - | - | - | - | - | - | R | - | - | - | - | - | - | - | - | - |
| <i>Nuphar variegata</i> | Spatterdock | 1687 | R | - | - | - | - | - | - | - | R | - | A | C | P | R | R | O | R | - | O | R |
| <i>Nymphaea odorata</i> | White waterlily | 1613 | R | - | - | - | - | - | - | R | O | - | O | - | - | C | - | - | - | - | O | P |
| <i>Potamogeton amplifolius</i> | Large-leaf pondweed | 407 | R | - | C | - | - | - | O | - | - | P | R | - | - | - | - | - | O | - | - | C |
| <i>Potamogeton epihydrus</i> | Ribbon-leaf pondweed | 105940 | R | - | - | - | - | - | R | - | - | - | R | - | - | R | O | - | O | C | O | - |
| <i>Potamogeton gramineus</i> | Variable-leaf pondweed | 1149 | R | - | - | - | R | - | - | R | - | O | R | - | - | - | - | - | - | - | - | - |
| <i>Potamogeton natans</i> | Floating pondweed | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | O | - | - | - | - | - | - |
| <i>Potamogeton perfoliatus</i> | Clasping-leaf pondweed | 6637 | - | - | - | R | O | R | - | - | - | O | - | - | - | O | - | - | O | - | - | P |
| <i>Potamogeton zosteriformis</i> | Flatstem pondweed | 293 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | R | - |
| <i>Sagittaria graminea</i> | Grassy arrowhead | 101 | - | - | - | - | - | - | - | A | O | - | - | - | - | - | - | - | - | - | - | - |
| <i>Sparganium sp.</i> | Bur-reed | 4323 | - | - | - | - | - | C | P | - | - | - | R | - | - | - | - | - | - | - | R | R |
| <i>Vallisneria americana</i> | Eel-grass | 231 | C | - | R | P | A | P | P | R | - | - | R | - | - | - | - | - | O | - | P | A |

Table 42: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 60 for Rake locations.

| Meacham Lake | | Rake Toss Numbers | | | | | | | |
|--------------------------------|------------------------|-------------------|---|----|----|----|----|----|----|
| Scientific Name | Common Name | 5 | 8 | 12 | 13 | 24 | 26 | 53 | 61 |
| <i>Nitella sp.</i> | Brittlewort | - | - | R | - | - | - | - | - |
| <i>Potamogeton amplifolius</i> | Large-leaf pondweed | - | - | - | - | - | - | R | - |
| <i>Potamogeton gramineus</i> | Variable-leaf pondweed | - | - | - | R | - | - | - | - |
| <i>Sparganium sp.</i> | Bur-reed | R | R | - | - | O | R | R | R |

Table 43 Percent cover of *Myriophyllum spicatum* detected at each plant bed in Meacham Lake. Refer to Map 61 for *M. spicatum* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

| Meacham Lake | | | | | | | | | |
|------------------------------|-----------------------|-----------------------------|------|------|-----|------|------|----|------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Scientific Name | Common Name | AREA (M²) | 1203 | 3068 | 366 | 1152 | 4043 | 54 | 3121 |
| <i>Myriophyllum spicatum</i> | Eurasian watermilfoil | | R | R | R | R | R | R | R |