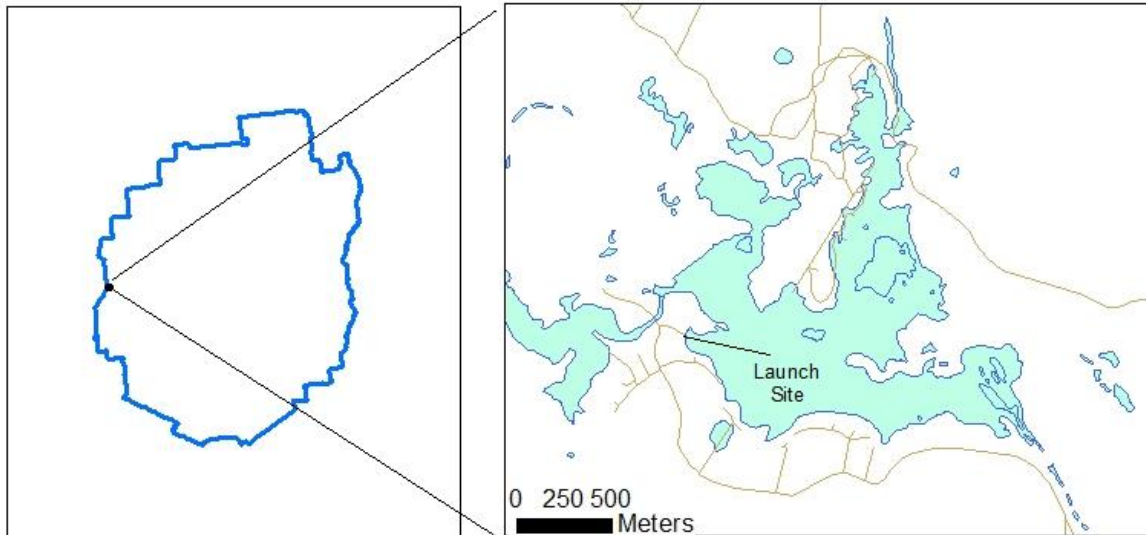


## Soft Maple Reservoir Aquatic Plant Survey 2012



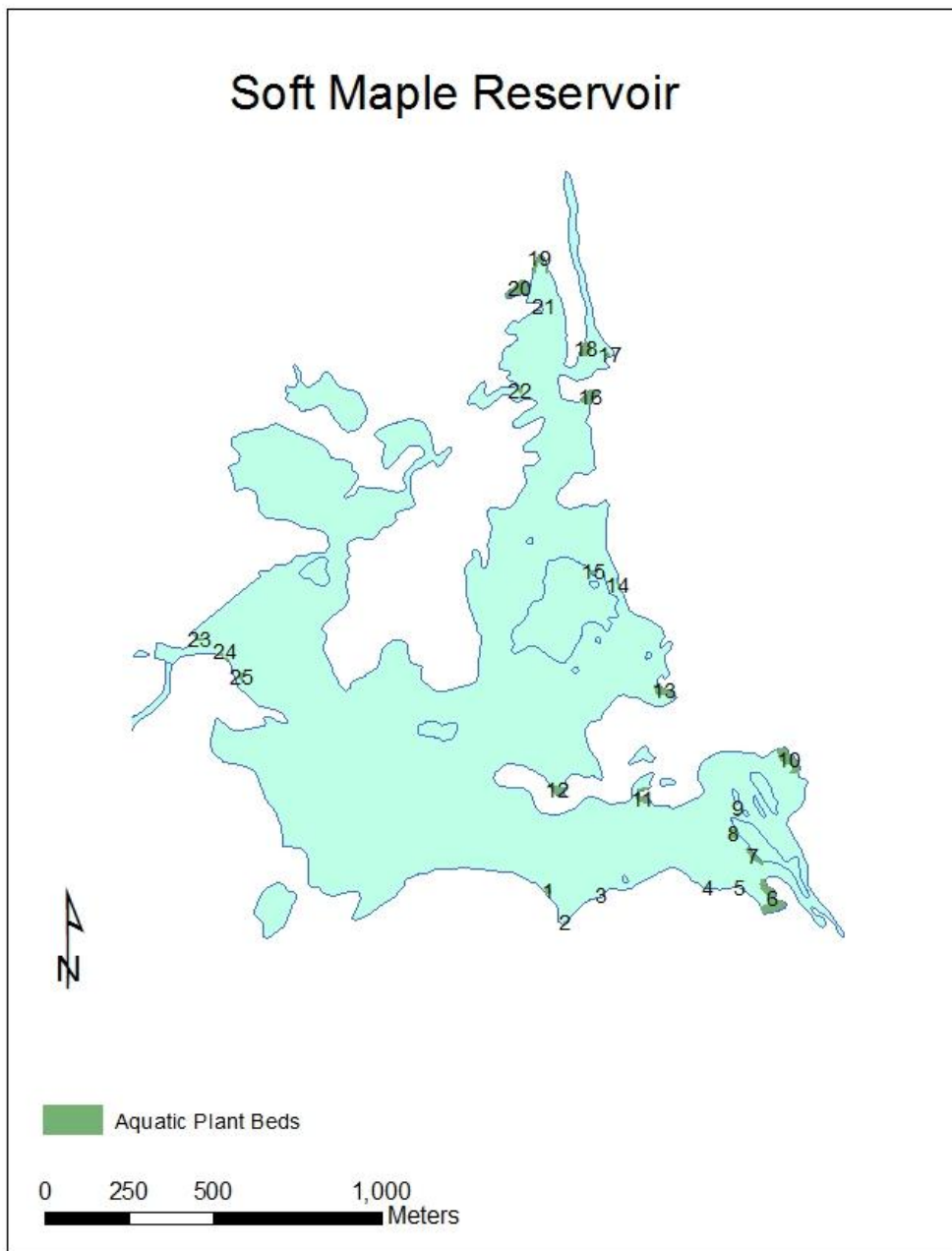
Map 95: Location of Soft Maple Reservoir.

Soft Maple Reservoir is located in the town of Watson in Lewis County, New York (Map 95). The 271 acre reservoir was accessed off from the Soft Maple Road from the Effley Falls Road off from the Erie Canal Road.

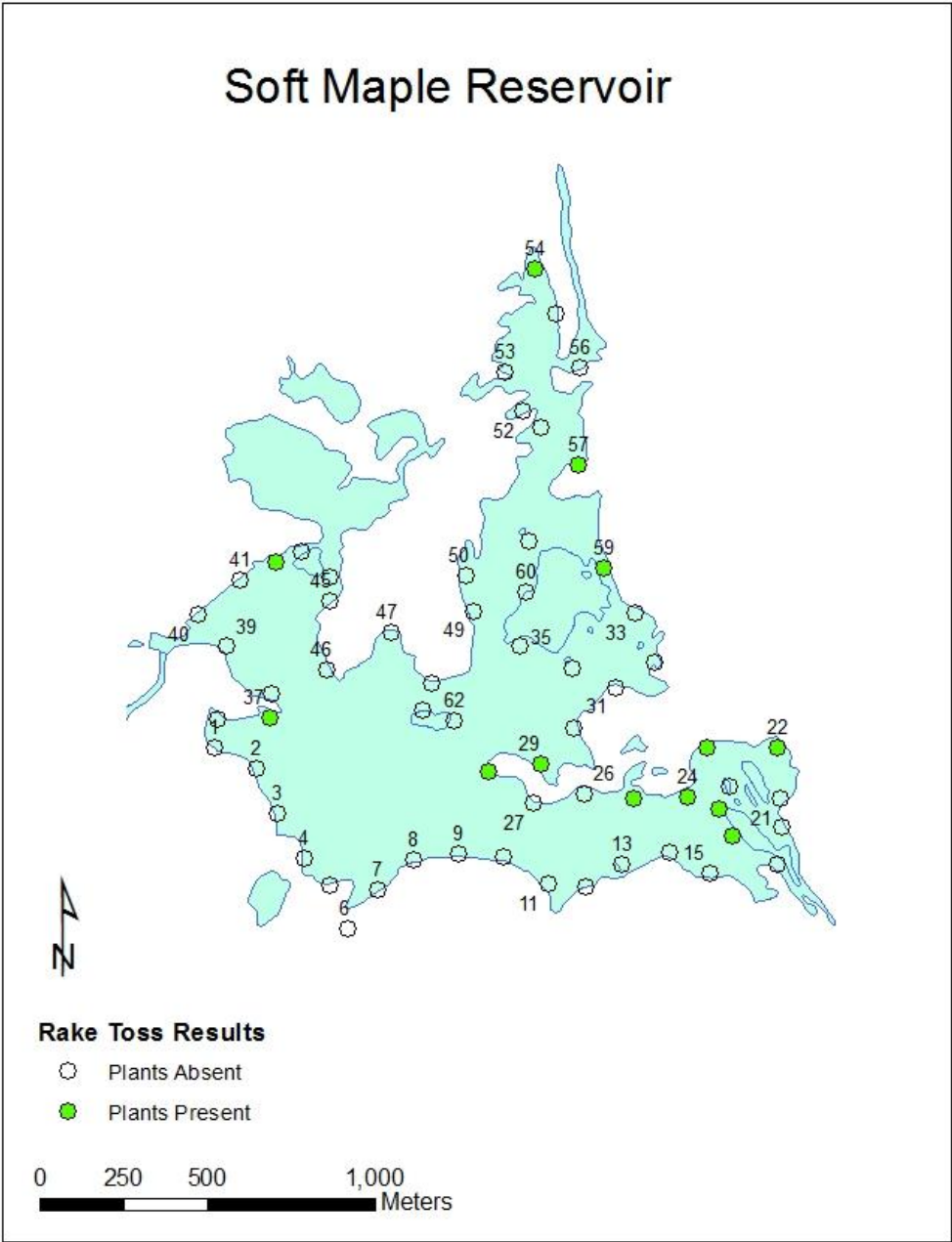
An aquatic plant survey of Soft Maple Reservoir was conducted on 25- July-2012. Both Twoleaf or Variable-leaf watermilfoil (*Myriophyllum heterophyllum*) (Map 101), and Little floating heart (*Nymphoides cordata*) (Map 102) were detected during this survey. Variable-leaf watermilfoil classified as invasive in some states, Little floating heart is a species of concern. Aquatic plant coverage in Soft Maple Reservoir was relatively low, comprised of 25 aquatic plant beds that collectively covered 14.9 acres or 5.5% of the surface area of the reservoir (Map 96). Nineteen different aquatic species were identified during this survey. The most common species identified in the reservoir was Ribbon-leaf pondweed (*Potamogeton epihydrus*). Coontail (*Ceratophyllum sp.*), Purple bladderwort (*Utricularia purpurea*), and Common bladderwort (*U. vulgaris*) were species detected that could easily be confused with invasive species (Table 65).

Of the 62 rake tosses spaced throughout the littoral zone of the reservoir (Map 97), 13 had acquired plants upon recovery (21.0%). All plants found on the rakes upon retrieval had already been detected during the surface survey (Table 66).

Variable-leaf watermilfoil in Soft Maple Reservoir consisted of 1 bed that covered 0.12 acres. This was 0.004% of the surface area of the reservoir and 0.81% of the total aquatic plant coverage in the reservoir (Map 98 & Table 67). Little floating heart in Soft Maple Reservoir consisted of 1 bed that covered 0.87 acres. This was 0.321% of the surface area of the reservoir and 5.8 % of the total aquatic plant coverage in the reservoir (Map 99 & Table 68).

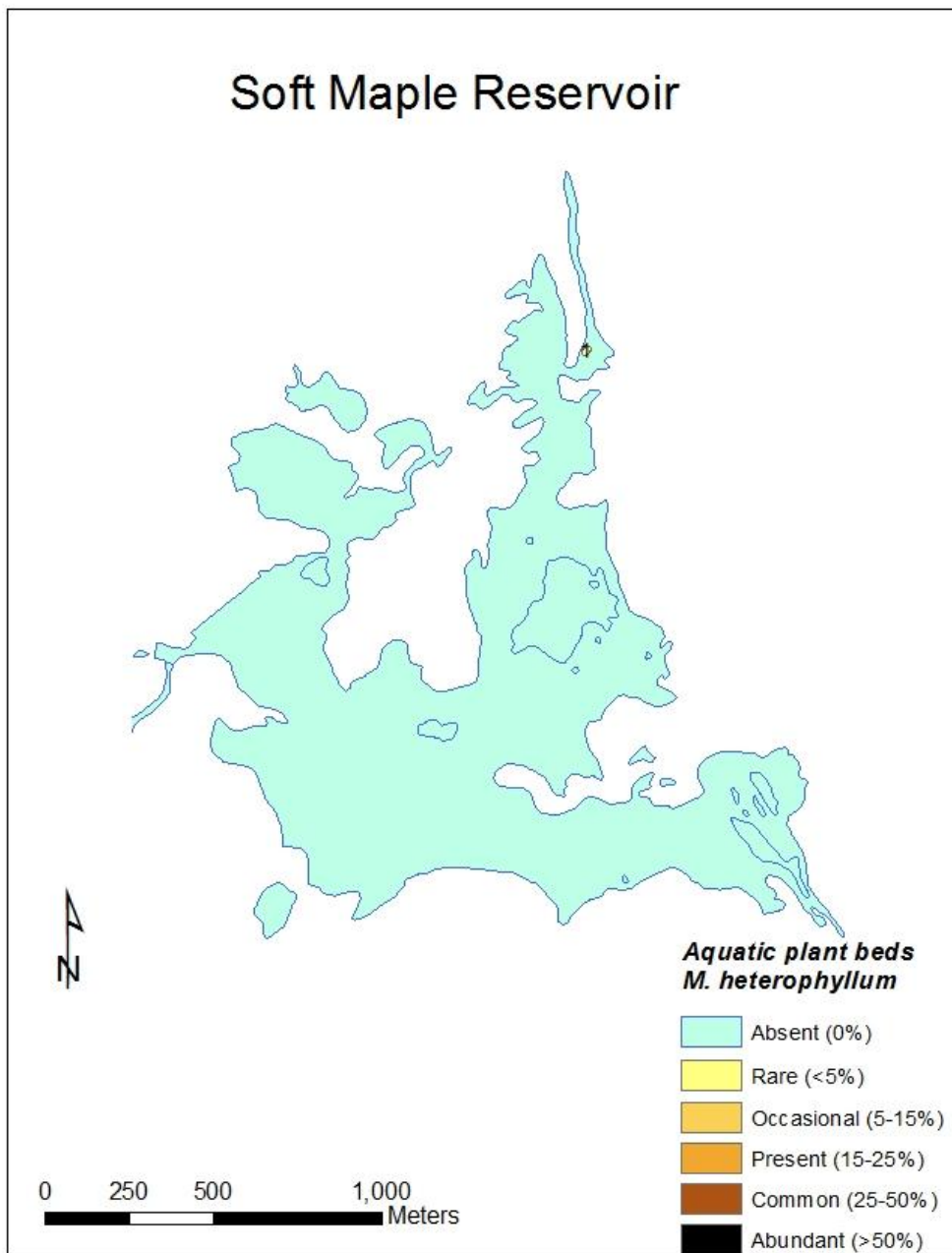


Map 96: Location of the aquatic plant beds detected in Soft Maple Reservoir during the surface survey performed on 25 July, 2012.  
 Data for Plant Beds can be found on Table 65.

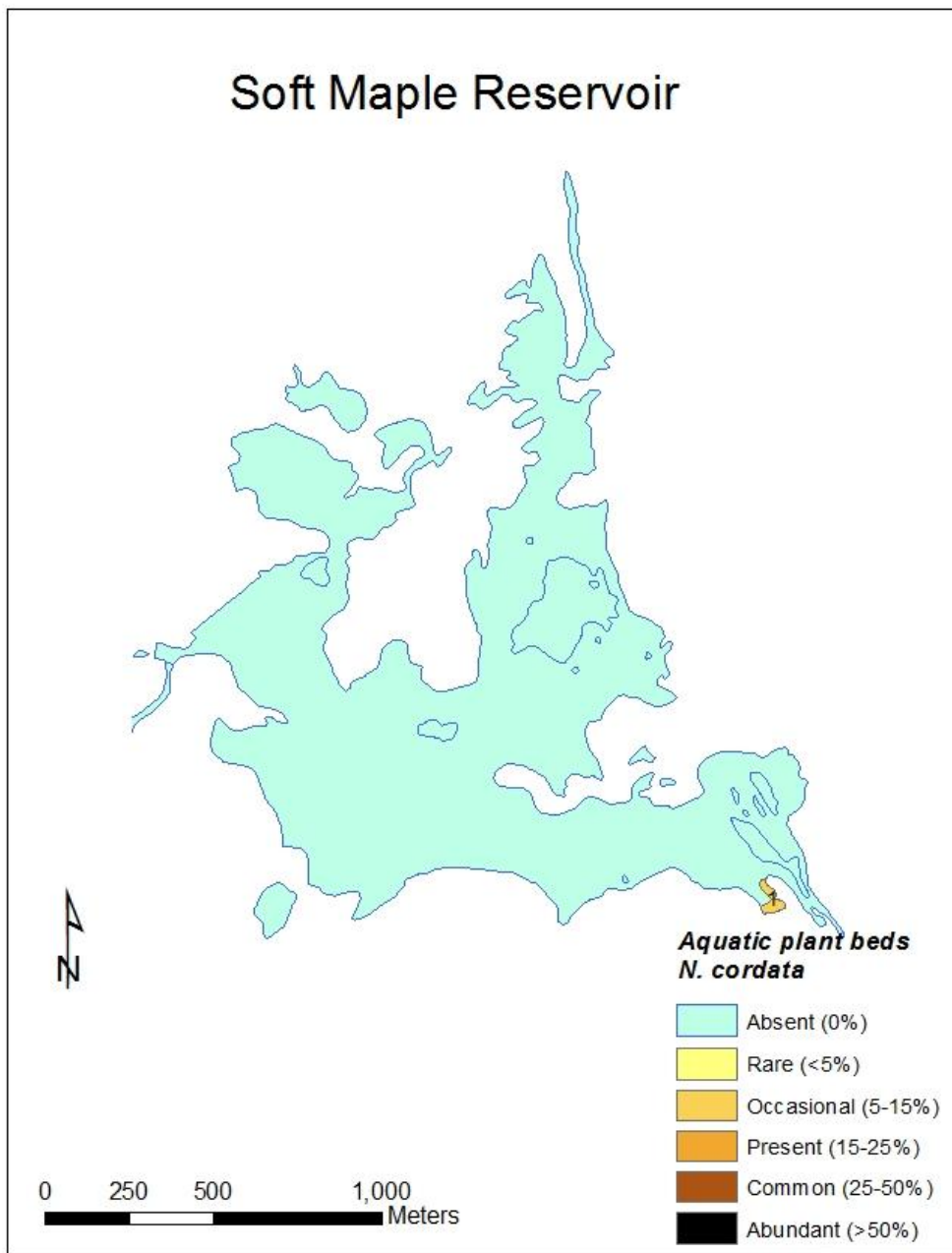


Map 97: Rake toss locations on Soft Maple Reservoir, 25 July, 2012. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake.

Data for Rake Tosses can be found on Table 66.



Map 98: Location of the *Myriophyllum heterophyllum* beds detected in Soft Maple Reservoir during the surface survey performed on 25 July, 2012.  
Data for *M. heterophyllum* beds can be found on Table 67.



Map 99: Location of the *Nymphaoides cordata* beds detected in Soft Maple Reservoir during the surface survey performed on 25 July, 2012.  
Data for *N. cordata* beds can be found on Table 68.

Table 65: Percent cover of aquatic plant species detected at each plant bed in Soft Maple Reservoir. Refer to Map 96 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Soft Maple Reservoir			Plant Bed Numbers																								
Scientific Name	Common Name	AREA (M <sup>2</sup> )	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<i>Brasenia schreberi</i>	Water shield		-	-	-	-	-	O	-	-	-	-	R	R	-	-	-	-	-	-	-	C	-	-	-	-	P
<i>Ceratophyllum sp.</i>	Coontail		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-
<i>Eleocharis sp.</i>	Hairgrass		-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	O	-	-	-	O	-	-	P	O	-
<i>Eriocaulon sp.</i>	Pipewort		-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-
<i>Nitella sp.</i>	Brittlewort		-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nuphar variegata</i>	Spatterdock		-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	R	-	-	-	-	-	-	-	-	-
<i>Nymphaea odorata</i>	White waterlily		-	-	-	-	R	R	-	-	-	R	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nymphoides cordata</i>	Little floatingheart		-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		R	C	P	O	P	C	O	O	-	O	O	P	-	P	-	O	-	P	P	-	-	-	C	A	C
<i>Potamogeton gramineus</i>	Variable-leaf pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	-	R	O	-	-	R	-	-
<i>Potamogeton natans</i>	Floating pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	R	C	A	A	-	-	-
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton pusillus</i>	Small pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	P	-	O	P	O	-	-	-	-	-
<i>Potamogeton spirillus</i>	Spiral-fruit pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-
<i>Sagittaria graminea</i>	Grassy arrowhead		-	-	R	R	-	R	-	-	-	R	-	-	R	O	O	C	-	-	O	-	-	-	-	P	-
<i>Sparganium sp.</i>	Bur-reed		R	-	R	R	-	-	-	-	C	R	-	-	O	O	P	R	-	P	-	P	-	-	P	-	-
<i>Utricularia purpurea</i>	Purple bladderwort		-	-	-	R	-	R	-	-	-	-	R	-	R	P	-	-	-	R	P	O	A	-	-	-	R
<i>Utricularia vulgaris</i>	Common bladderwort		-	-	R	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-

Table 66: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 97 for Rake locations.

Soft Maple Reservoir		Rake Toss Numbers												
Scientific Name	Common Name	17	18	22	23	24	25	28	29	37	42	54	57	59
<i>Eleocharis sp.</i>	Hairgrass	-	-	-	-	-	-	-	-	R	-	R	-	-
<i>Nitella sp.</i>	Brittlewort	R	R	R	R	R	R	R	R	-	R	R	R	-
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed	-	R	-	-	-	-	-	-	-	-	-	-	-
<i>Utricularia purpurea</i>	Purple bladderwort	-	-	-	-	-	-	-	-	-	-	-	-	O
<i>Utricularia vulgaris</i>	Common bladderwort	-	-	-	-	-	-	-	-	-	-	R	-	-

Table 67: Percent cover of *Myriophyllum heterophyllum* detected at each plant bed in Soft Maple Reservoir. Refer to Map 98 for *M. heterophyllum* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Soft Maple Reservoir			Plant Bed Numbers
			1
<i>Scientific Name</i>	Common Name	AREA (M <sup>2</sup> )	517
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil		R

Table 68: Percent cover of *Nymphoides cordata* detected at each plant bed in Soft Maple Reservoir. Refer to Map 99 for *N. cordata* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Soft Maple Reservoir			Plant Bed Number
			1
<i>Scientific Name</i>	Common Name	AREA (M <sup>2</sup> )	3539
<i>Nymphoides cordata</i>	Little floatingheart		O