

ANNUAL REPORT – 2002
DARRIN FRESH WATER INSTITUTE
AQUATIC PLANT IDENTIFICATION PROGRAM

Prepared by

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Darrin Fresh Water Institute Report #2003-1

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For the fifteenth year, the Darrin Fresh Water Institute (DFWI) has continued the Aquatic Plant Identification Program. This program was initiated as a public service for the Lake George basin, in which individuals could bring specimens to DFWI for identification. In return, it assisted DFWI in locating new Eurasian Watermilfoil and Curly-leaf Pondweed sites throughout the Lake George basin. DFWI now provides the opportunity for anyone in New York State to have plant specimens verified. This also enables us to maintain a list of locations of invasive aquatic plants such as Waterchestnut (*Trapa natans*), Curly-leaf Pondweed (*Potamogeton crispus*), Eurasian Watermilfoil (*Myriophyllum spicatum*) and Fanwort (*Cabomba caroliniana*) in New York State.

During 2002, nine specimens were received and identified (Table 1). Four of the specimens were Eurasian watermilfoil. At the conclusion of 2002, 191 lakes in 49 counties had confirmed populations of Eurasian watermilfoil, 60 lakes in 30 counties had confirmed populations of Curly-leaf Pondweed and 6 lakes in 2 counties had Fanwort. Waterchestnut was found mainly in the Hudson and Mohawk Rivers systems, however nineteen lakes and 17 counties were reported.

The extension of this program has benefited regional lake associations and municipalities. We have identified samples from numerous area lakes other than Lake George. Most often the specimens have not been exotic species, and therefore the concerns of lake residents have often been allayed. In the other instances, it has provided the impetus for concerted action on the part of the lake association.

As a part of this program, DFWI maintains an expanding list of sites we have verified to contain Eurasian Watermilfoil (Table 2, Figure 1), Waterchestnut (Table 3, Figure 2), Curly-leaf Pondweed (Table 4, Figure 3) and Fanwort (Table 5) in New York State. The list remains preliminary, since we currently lack verified sources for many lakes in which

these species have been reported to occur. We will only add sites to the list for which an authoritative reference can be given, or for which we have a voucher specimen. We would appreciate receiving reports or other publications listing verified occurrences of these plants.

The Aquatic Plant Identification Program of Rensselaer's Darrin Fresh Water Institute will continue to be offered as a public service during 2003. In order to have samples identified, bring or send them to the DFWI at either the Troy campus or Bolton Landing facility. For more information, see the notice provided as Appendix A of this report.

Table 1. Specimens Identified by the Rensselaer Darrin Fresh Water Institute Aquatic Plant Identification Program in 2002.

DFWI AQUATIC PLANT IDENTIFICATION PROGRAM – 2002

<u>SPECIES</u>	<u>Sample Number</u>	<u>DATE</u>	<u>LOCATION</u>
<i>Myriophyllum spicatum</i>	2002-01	7/2/02	Hadlock Pond, Warren Co., NY
<i>Potamogeton amplifolius</i>	2001-02	7/3/02	Lake Sunnyside, Warren Co., NY
<i>Najas guadalupensis</i> var. <i>guadalupensis</i>	2002-03	7/29/02	Rainbow Lake, Franklin Co., NY
<i>Potamogeton foliosus</i>	2002-04	7/29/02	Rainbow Lake, Franklin Co., NY
<i>Potamogeton alpinus</i>	2002-05	7/29/02	Rainbow Lake, Franklin Co., NY
<i>Myriophyllum verticillatum</i>	2002-06	7/29/02	Fulton Chain, Hamilton Co., NY
<i>Myriophyllum spicatum</i>	2002-07	7/30/02	Sixth Lake, Hamilton Co., NY
<i>Myriophyllum spicatum</i>	2002-08	7/30/02	Lake George, Washington Co., NY
<i>Myriophyllum spicatum</i>	2002-09	7/30/02	Seventh Lake, Hamilton Co., NY

Table 2. Locations in New York State with Eurasian Watermilfoil (*Myriophyllum spicatum*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Alcove Reservoir	Albany	NYS DEC 1989
Ann Lee Pond	Albany	NYS DEC
Basic Creek Reservoir	Albany	NYS DEC 1989
Rensselaer Lake (6 Mile Waterworks)	Albany	NYS DEC, 2001
Thompsons Lake	Albany	CSLAP, 1998
Warners Lake	Albany	NYS DEC 1989
Watervliet Reservoir	Albany	RFWI 1989
Cuba Lake	Allegheny/Cattaraugus	CSLAP, 1994
Susquehanna River	Broome	Titus, J.
Whitney Pt. Reservoir	Broome	Titus, J.
Crystal Lake	Cattaraugus	LCI, 2001
Red House Lake	Cattaraugus	Johnson, 2001
Cayuga Lake	Cayuga, Seneca, Tompkins	NYS DEC, Miller, 1978
Como Lake	Cayuga	Miller, 1978
Cross Lake	Cayuga	NYS DEC, Miller, 1978
Duck Lake	Cayuga	Miller, 1978
Juniper Pond, Lake Ontario	Cayuga	R. Johnson, 2001

Table 2. Locations in New York State with Eurasian Watermilfoil (*Myriophyllum spicatum*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Little Sodus Bay, Lake Ontario	Cayuga	NYS DEC, Miller, 1978
Otter Lake	Cayuga	Johnson, 2001
Owasco Lake	Cayuga	NYS DEC, Miller, 1978
Sterling Pond, Lake Ontario	Cayuga	R. Johnson, 2001
Cassadaga Lakes	Chautauqua	NYS DEC
Chautauqua Lake	Chautauqua	CSLAP
Findley Lake	Chautauqua	CSLAP
Lime Lake	Chautauqua	CSLAP
Silver Creek Upper Reservoir	Chautauqua	LCI, 2001
Chenango Lake	Chenango	LCI, 1998
Guilford Lake	Chenango	LCI, 1998
Lake Warn	Chenango	CSLAP
Long Pond	Chenango	Johnson, 2001
Plymouth Reservoir	Chenango	CSLAP
Lake Champlain	Clinton/Essex	NYS DEC
Taylor Pond	Clinton	AIPMP, 2002
Copake Lake	Columbia	CSLAP, LCI, 2002
Queechy Lake	Columbia	CSLAP
Robinson Pond	Columbia	CSLAP
Goodale Lake	Cortland	Johnson, 2001
Melody Lake	Cortland	CSLAP
Solon Pond	Cortland	Johnson, 2001
Tully Lake	Cortland/Onondaga	LCI, 1998
Upper Little York Lake	Cortland	LCI, 1998
Sepasco Lake	Dutchess	CSLAP, 1995
Wappinger Lake	Dutchess	NYS DEC
Augur Lake	Essex	APIP 1990
Bartlett Pond	Essex	Adk Ecol, 1998
Eagle Lake	Essex	APIP 1987, Taggett 1988
Lincoln Pond	Essex	Adk Ecol, 1998
Long Pond	Essex	AIPMP 2002
Schroon Lake	Essex/Warren	Adk Ecol, 1995, Taggett 1988
Oseetah Lake	Essex/Franklin	APIP 1991
Copperas Pond	Franklin	AIPMP, 2002
Fish Creek	Franklin	AIPMP, 2002
Floodwood Pond	Franklin	AIPMP, 2002
Follensby Clear Pond	Franklin	AIPMP, 2002
Horseshoe Pond	Franklin	CSLAP, 2001
Indian Lake	Franklin	Adk Ecol, 1998
Lake Colby	Franklin	CSLAP, 1999
Lake Kiwassa	Franklin	CSLAP
Lake Titus	Franklin	APIP 1990, Adk Ecol, 1990
Little Square Pond	Franklin	AIPMP, 2002
Meachum Lake	Franklin	AIPMP, 2002
Mountain View Lake	Franklin	CSLAP, 1995
Lower Fish Creek Pond	Franklin	AIPMP, 2002
Upper Fish Creek Pond	Franklin	AWI, 2002
Lower Chateaugay Lake	Franklin	CSLAP
Upper Chateaugay Lake	Franklin	CSLAP
Lower Saranac Lake	Franklin	AWI, 2002

Table 2. Locations in New York State with Eurasian Watermilfoil (*Myriophyllum spicatum*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Middle Saranac Lake	Franklin	AWI, 2002
Upper Saranac Lake	Franklin	APIP, 1996
East Caroga Lake	Fulton	NYS DEC
Great Sacandaga Lake	Fulton	RFWI 1989
Mayfield Lake	Fulton	CSLAP, 2000
West Caroga Lake	Fulton	APIP, 1994
LeRoy Reservoir	Genesee	Johnson, 2001
Sleepy Hollow Lake	Greene	RFWI 1989
Lake Algonquin	Hamilton	CSLAP 2002
Sixth Lake	Hamilton	CSLAP, 2002
Seventh Lake	Hamilton	CSLAP, 2002
Butterfield Lake	Jefferson	CSLAP
Floodwood, Lake Ontario	Jefferson	Johnson, 2001
Hyde Lake	Jefferson	CSLAP, 2000
Lake of the Isles	Jefferson	CSLAP, 2000
Lake of the Woods	Jefferson	CSLAP, 1999
Millsite Lake	Jefferson	Johnson, 2001
Moon Lake	Jefferson	CSLAP
South Colwell Pond, Lake Ontario	Jefferson	Reed, 1977; Johnson, 2001
Lake Bonaparte	Lewis	CSLAP
Conesus Lake	Livingston	CSLAP
Bradley Brook	Madison	Harman et al., 2001
Cazenovia Lake	Madison	CSLAP
DeRuyter Reservoir	Madison	CSLAP
Eaton Reservoir	Madison	Harman et al., 2001
Gorton Lake	Madison	CSLAP, 1999
Hatch Lake	Madison	CSLAP, 2000
Lake Moraine	Madison	CSLAP
Lebanon Reservoir	Madison	Harman et al., 2001
Lower Leland Pond	Madison	Harman et al., 2001
Stoney Pond	Madison	Johnson, 2001
Tuscarora Lake	Madison	CSLAP
Upper Leland Pond	Madison	Harman et al., 2001
Buck Pond	Monroe	LCI, 2000
Irondequoit Bay	Monroe	Gilman, 2002
Oneida Lake	Oneida	Johnson, 2001
Crooked Lake	Onondaga	Johnson, 2001
Jamesville Reservoir	Onondaga	Johnson, 2001
Labrador Pond	Onondaga	Johnson, 2001
Onondaga Lake	Onondaga	Madsen et al., 1992
Otisco Lake	Onondaga	Johnson, 2001
Skaneateles Lake	Onondaga	CSLAP, 1999
Canandaigua Lake	Ontario/Yates	Gilman, 1985
Canadice Lake	Ontario	Gilman, 1983
Hemlock Lake	Ontario	Gilman, 1983
Honeoye Lake	Ontario	NYS DEC, Gilman, 1985
Greenwood Lake	Orange	NYS DEC
Round Lake	Orange	CSLAP
Walton Lake	Orange	NYS DEC
Lake Alice	Orleans	CSLAP, 1994

Table 2. Locations in New York State with Eurasian Watermilfoil (*Myriophyllum spicatum*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Lake Neatahwanta	Oswego	Johnson, 2001
North Sandy Pond, Lake Ontario	Oswego	Johnson, 2001
Paddy's Lake	Oswego	Reed, 1977
Panther Lake	Oswego	Johnson, 2001
Pleasant Lake	Oswego	Gilman, 2002
South Sandy Pond, Lake Ontario	Oswego	Johnson, 2001
Canadarago Lake	Otsego	CSLAP
Otsego Lake	Otsego	Titus, J.
Kirk Lake	Putnam	APIP, 1992
Lake Carmel	Putnam	CSLAP
Lake Mahopac	Putnam	CSLAP
Lake Oscawana	Putnam	CSLAP
Lake Tibet	Putnam	CSLAP
Peach Lake	Putnam	CSLAP, 2000
Burden Lakes	Rensselaer	APIP 1994
Castleton Reservoir	Rensselaer	Bagdon Env. Assoc., 1989
Crooked Lake	Rensselaer	Soracco 1990
Crystal Lake	Rensselaer	APIP 1988
Glass Lake	Rensselaer	Soracco 1990
Grafton Lakes 2nd Pond	Rensselaer	APIP 1994
Hampton Manor Lake	Rensselaer	Soracco 1990
Long Pond	Rensselaer	CSLAP
Pine Lake	Rensselaer	Soracco 1990
Reichards Lake	Rensselaer	Soracco 1990
Snyders Lake	Rensselaer	NYS DEC, FWI APIP 1988
Vanderhyden Reservoir	Rensselaer	Soracco 1990
Foxwood Pond	Rockland	NYSDEC, 1996
Haverstraw Bay	Rockland	Menzie, 1979
Ballston Lake	Saratoga	CSLAP
Galway Lake	Saratoga	RFWI 1989
Moreau Lake	Saratoga	NYS DEC
Round Lake	Saratoga	NYS DEC
Saratoga Lake	Saratoga	RFWI 1985
Duck Pond	Schenectady	NYS DEC
Mariaville Lake	Schenectady	CSLAP, 1999
Mohawk River	Schenectady	NYS DEC
Cayuta Lake	Schuyler	Johnson, 2001
Lamoka Lake	Schuyler/Yates	CSLAP
Waneta Lake	Schuyler/Yates	NYS DEC
Seneca Lake	Seneca/Ontario/ Yates/Schuyler	NYS DEC, Gilman, Johnson, 2001
Seneca River	Seneca	Reed, 1977
Black Lake	St. Lawrence	CSLAP
Lake Salubria	Steuben	CSLAP, 1998
White Lake	Sullivan	LCI, 2000
Spencer Lake	Tioga	Johnson, 2001
Beebe Lake	Tompkins	Johnson, 2001
Dryden Lake	Tompkins	Gilman, 1992
Jenning's Pond	Tompkins	Johnson, 2001
Esopus Creek, Saugerties	Ulster	NYSDEC, 1996

Table 2. Locations in New York State with Eurasian Watermilfoil (*Myriophyllum spicatum*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Brant Lake	Warren	APIP 1989, Eichler 1990
Crandall Pond	Warren	RFWI 1987
Daggett Lake	Warren	APIP 1989
Glen Lake	Warren	RFWI 1989
Lake George	Warren/Essex/Washington	RFWI
Lake Luzerne	Warren	NYS DEC, APIP 1989
Lake Sunnyside	Warren	Eichler & Howe, 1999
Loon Lake	Warren	APIP, 2000
Schroon Lake	Warren/Essex	Taggett 1988, APIP 1990
Cossayuna Lake	Washington	NYS DEC
Hadlock Pond	Washington	APIP 2002
Hedges Lake	Washington	CSLAP
Lake Lauderdale	Washington	CSLAP
Summit Lake	Washington	CSLAP
East Bay	Wayne	Gilman
Port Bay	Wayne	Gilman
Sodus Bay	Wayne	NYS DEC
Lake Lincolndale	Westchester	CSLAP
Lake Waccabuc	Westchester	CSLAP
Mohansic Lake	Westchester	NYSDEC
Muscoot Reservoir	Westchester	APIP, 2000
New Croton Reservoir	Westchester	APIP, 2000
Titicus Reservoir	Westchester	J. Bloomfield, 2000
Attica Reservoir	Wyoming	Johnson, 2001
Lake Lagrange	Wyoming	Johnson, 2001
Silver Lake	Wyoming	CSLAP
Keuka Lake	Steuben/Yates	Gilman; Johnson, 2001

Figure 1. New York State counties with Eurasian watermilfoil (*Myriophyllum spicatum*).

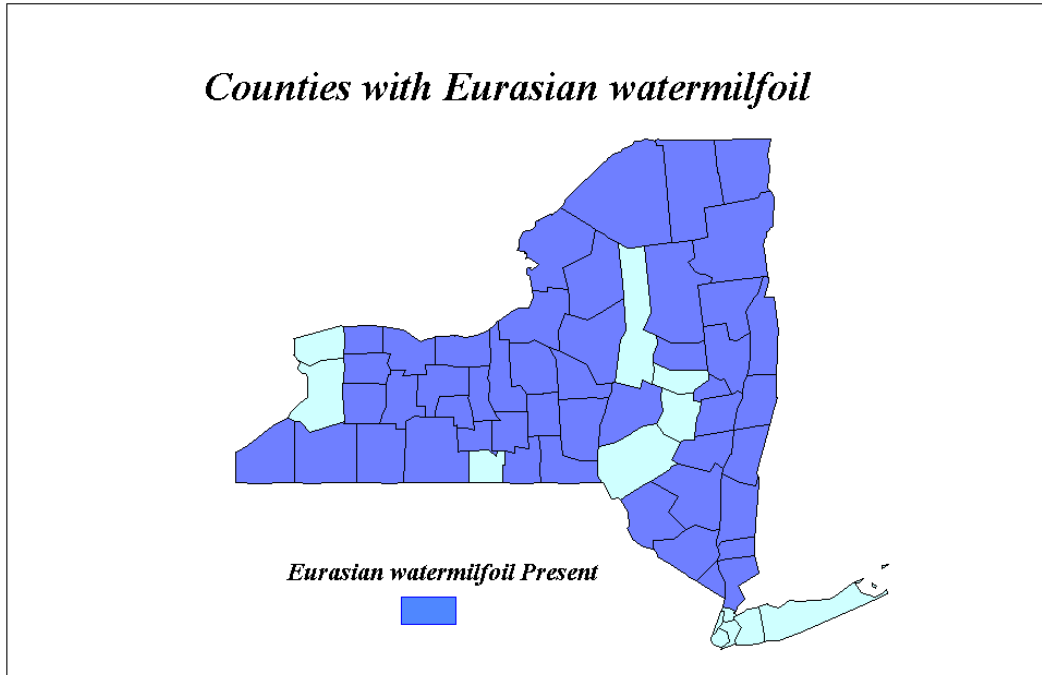


Table 3. Locations in New York State with Waterchestnut (*Trapa natans*)

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Buckingham Pond	Albany	APIP 1998
Hudson River	Albany	NYSDEC
Mohawk River	Albany	NYSDEC
Watervliet Reservoir	Albany	RFWI, 1989
Lake Champlain	Clinton	NYSDEC
Copake Lake	Columbia	CSLAP, 2000; LCI, 2002
Hudson River	Columbia	NYSDEC
Lower Rhoda Pond	Columbia	NYS DEC, 2000
Reilly's Pond	Columbia	CSLAP, 1999
Hudson River	Dutchess	NYSDEC
Lake Champlain	Essex	NYSDEC
Hudson River	Green	NYSDEC
Hudson River	Orange	NYSDEC
Mohawk River	Oswego	Oswego Co. SWCD
Pleasant Pond	Oswego	Oswego Co, 1990
Oneida Lake	Oswego	Oswego Co. SWCD
Oneida River	Oswego	Oswego Co. SWCD
Seneca River	Oswego	Oswego Co. SWCD
Oswego River	Oswego	Oswego Co. SWCD
Ox Creek	Oswego	Oswego Co. SWCD
Hudson River	Putnam	NYSDEC
Lake Oscawana	Putnam	CSLAP, 1998
First Burden Lake	Rensselaer	CSLAP, 1998
Hampton Lake	Rensselaer	LCI, 1998
Hudson River	Rensselaer	NYSDEC
Johnsonville Reservoir	Rensselaer	LCI, 2002
Nassau Lake	Rensselaer	CSLAP
Tamarack Pond	Rensselaer	Soracco, 1991
Hudson River	Rockland	NYSDEC
Ballston Lake	Saratoga	CSLAP
Saratoga Lake	Saratoga	CSLAP
Van Patten's Pond	Saratoga	CSLAP, 2000
Mohawk River	Schenectady	NYSDEC
Hudson River	Ulster	NYSDEC
Barkley Lake	Washington	APIP 1999
Lake Champlain	Washington	NYSDEC
Sodus Bay	Wayne	Oswego Co. SWCD
Hudson River	Westchester	NYSDEC

Figure 2. New York State counties with Waterchestnut (*Trapa natans*)

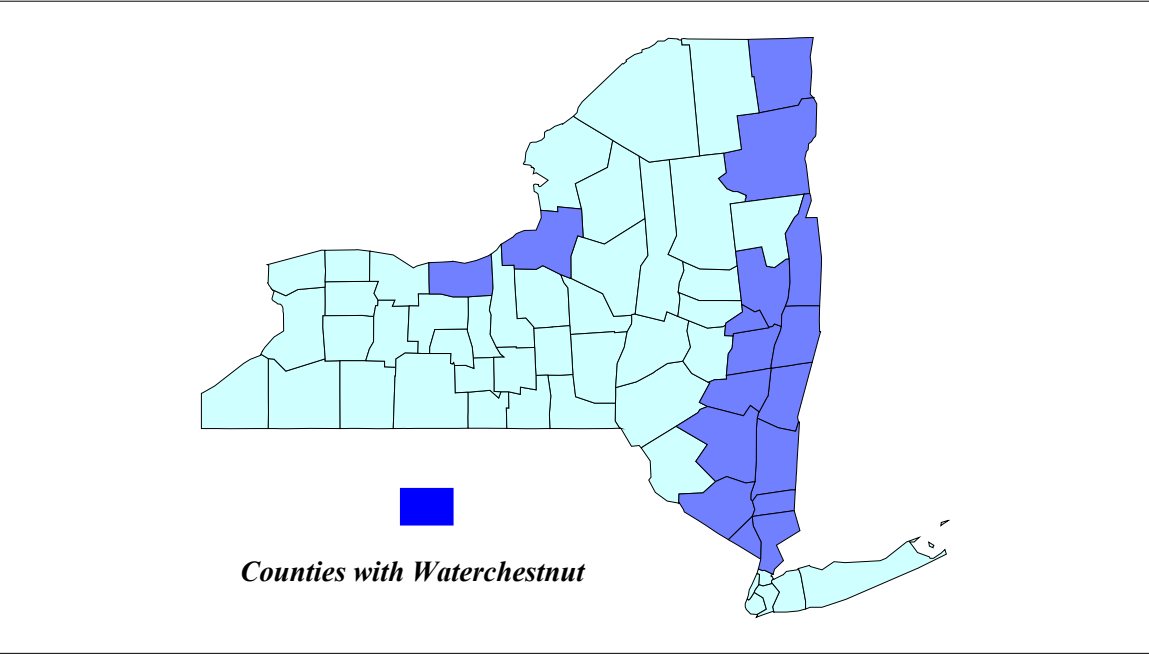


Table 4. Locations in New York State with Curly-leaf Pondweed (*Potamogeton crispus*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Warners Lake	Albany	LCI, 2001
Watervliet Reservoir	Albany	RFWI, 1989
Rensselaer Lake (6 Mile Waterworks)	Albany	NYS DEC, 2001
Cuba Lake	Allegheny/Cattaraugus	CSLAP, 1999
Cayuga Lake	Cayuga	Miller, 1978
Como	Cayuga	Miller, 1978
Cross Lake	Cayuga	Miller, 1978
Little Sodus	Cayuga	Miller, 1978
Owasco	Cayuga	Miller, 1978
Skaneateles	Cayuga	Miller, 1978
Chautauqua Lake	Chautauqua	CSLAP
Lake Champlain	Clinton	Flint, 2002
Copake Lake	Columbia	CSLAP, 1998
Long Pond	Columbia	LCI, 1996
Queechy Lake	Columbia	CSLAP
Tully Lake	Cortland	LCI, 1998
Upper Little York Lake	Cortland	LCI, 1998
Somerset Lake	Delaware	CSLAP, 1998
Mayfield Lake	Fulton	CSLAP, 2000
Conesus Lake	Livingston	Bloomfield, 1978
Eaton Reservoir	Madison	Harman et al., 2001
Hatch Lake	Madison	CSLAP, 2000
Lake Moraine	Madison	CSLAP, 1995
Lebanon Reservoir	Madison	Harman et al., 2001
Tuscarora Lake	Madison	CSLAP, 1998
Buck Pond	Monroe	LCI, 2000
Cranberry Pond	Monroe	LCI, 2000
Irondequoit Bay	Monroe	Bloomfield, 1978
Jamesville Reservoir	Onondaga	LCI, 2002
Onondaga Lake	Onondaga	Madsen et al., 1992
Canadice Lake	Ontario	Gilman, 1983
Honeoye Lake	Ontario	CSLAP, Gilman 1985
Round Lake	Orange	CSLAP
Oneida Lake	Oswego	Bloomfield, 1978
Canadarago Lake	Otsego	CSLAP
Otsego Lake	Otsego	Bloomfield, 1978
Lake Celeste	Putnam	CSLAP, 1996
Lake Peekskill	Putnam	CSLAP
Cooper's Pond	Rensselaer	RFWI 1989
Nassau Lake	Rensselaer	APIP, 1992
Snyders Lake	Rensselaer	NYS DEC, 1999
Saratoga Lake	Saratoga	CSLAP
Blatnick Pond	Schenectady	NYS DEC, 2000
Collins Lake	Schenectady	LCI
Duane Lake	Schenectady	CSLAP
Engleville Pond	Schoharie	LCI, 2001
Franklinton Vlae Pond	Schoharie	LCI, 2001
Little Fresh Pond	Suffolk	CSLAP
Brant Lake	Warren	Eichler, 1990
Lake George	Warren/Essex/Washington	APIP, 1988

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Barkley Lake	Washington	APIP, 1999
Cossayuna Lake	Washington	RFWI, 1987
Hedges Lake	Washington	CSLAP
Hills Pond/Emerald Lake	Washington	CSLAP
Summit Lake	Washington	Eichler & Bombard, 1991
Lake Truesdale	Westchester	CSLAP, 2001
Muscoot Reservoir	Westchester	APIP, 2000
Java Lake	Wyoming	CSLAP, 1998
Silver Lake	Wyoming	CSLAP
Canandaigua Lake	Yates	Gilman, 2002

Figure 3. New York State counties with Curly-leaf Pondweed (*Potamogeton crispus*).

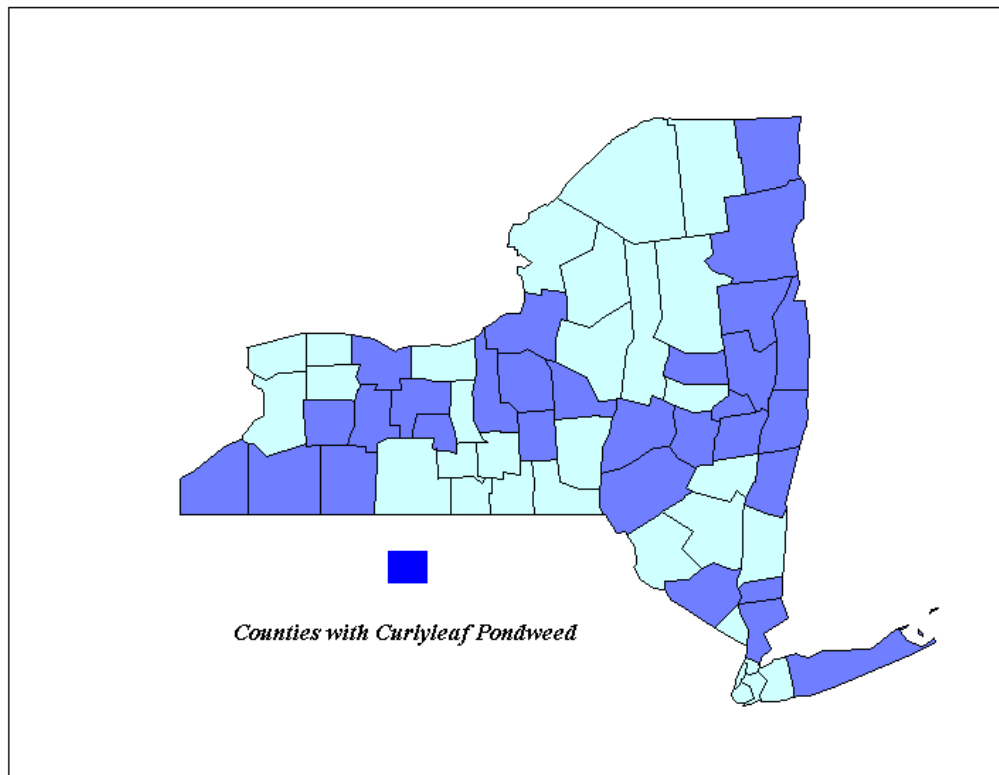


Table 5. Locations in New York State with Fanwort (*Cabomba caroliniana*).

<u>LAKE</u>	<u>COUNTY</u>	<u>REFERENCE</u>
Hunt Lake	Saratoga	CSLAP, 1994
Jenny Lake	Saratoga	CSLAP, 1994
Efner Lake	Saratoga	CSLAP, 1997
Mill Pond	Saratoga	CSLAP, 1999
Belmont Lake	Suffolk	NYSDEC, 1994
Little Fresh Pond	Suffolk	LCI, 2002

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APPENDIX A

AQUATIC PLANT IDENTIFICATION PROGRAM ANNOUNCEMENT

Darrin Fresh Water Institute (DFWI) has an ongoing program of identifying new sites with Eurasian watermilfoil both in Lake George, and in regional lakes. If you have a plant that you think may be Eurasian watermilfoil, we will gladly identify it for you free of charge.

To have plants identified, send or bring at least three intact plants to the DFWI laboratory facility in Bolton Landing on Lakeshore Drive (Route 9N) or to our RPI campus office (Materials Research Center 201). The plants should be in a plastic bag or container with water. In addition, we would like the following information: name of collector, lake name, site of collection, depth at which the plant was growing, date of collection, the name and phone number of a person to contact with the results.

Plants for identification should be directed to Lawrence Eichler (eichll@rpi.edu). For more information, contact the DFWI site in Bolton Landing (518) 644-3541 or in Troy at (518) 276-8430.

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