



# Rensselaer

## AQUATIC PLANT IDENTIFICATION PROGRAM

### 1990 ANNUAL REPORT

prepared by

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*Fresh Water Institute Report #91-9*

*May 1991*

*Rensselaer Fresh Water Institute*



*Rensselaer Polytechnic Institute  
Troy, NY 12180-3590 USA  
Bolton Landing, NY 12814 USA*

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For the fourth year, the Rensselaer Fresh Water Institute (RFWI) has conducted 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 RFWI for identification. In return, it assisted RFWI in locating new Eurasian Watermilfoil and Curly-leaf Pondweed sites throughout the Lake George basin. RFWI now provides the opportunity for anyone in New York State to have plant specimens verified, which also enables us to maintain a list of locations of invasive aquatic plants such as Waterchestnut (*Trapa natans*), Curly-leaf Pondweed (*Potamogeton crispus*) and Eurasian Watermilfoil (*Myriophyllum spicatum*) in New York State.

During 1990, eleven specimens were received and identified (Table 1). Of these, five were verified as Eurasian Watermilfoil, two of these were from new sites within the Lake George basin, and the other three Eurasian Watermilfoil specimens were from regional lakes: Augur Lake, Schroon Lake and Lake Titus. Specimens of Curly-leaf Pondweed were also verified in Hill Pond/Emerald Lake and Brant Lake. To date, nine Eurasian Watermilfoil locations not otherwise noted by the LGAF-sponsored Milfoil Survey have been found through this program (Table 2).

This expanded program has proven to be a cost-effective mechanism for locating exotic plants throughout New York State, and is a great asset for future management efforts, especially within the Lake George basin.

The extension of this program has benefited regional lake associations and municipalities. We have identified samples from several 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 other instances, it has provided the impetus for concerted action on the part of certain lake associations.

As part of this program, RFWI maintains an expanding list of sites we have verified to contain Eurasian Watermilfoil (Table 3, Figure 1), Waterchestnut (Table 4, Figure 2) and Curly-leaf Pondweed (Table 5, Figure 3) in New York State. At this point, the list is 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 Fresh Water Institute will continue to be offered as a public service during 1991. In order to have samples identified, bring or send them to the RFWI at either the Troy campus or Bolton Landing facility. For more information, see notice provided as Appendix A.

## REFERENCES

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

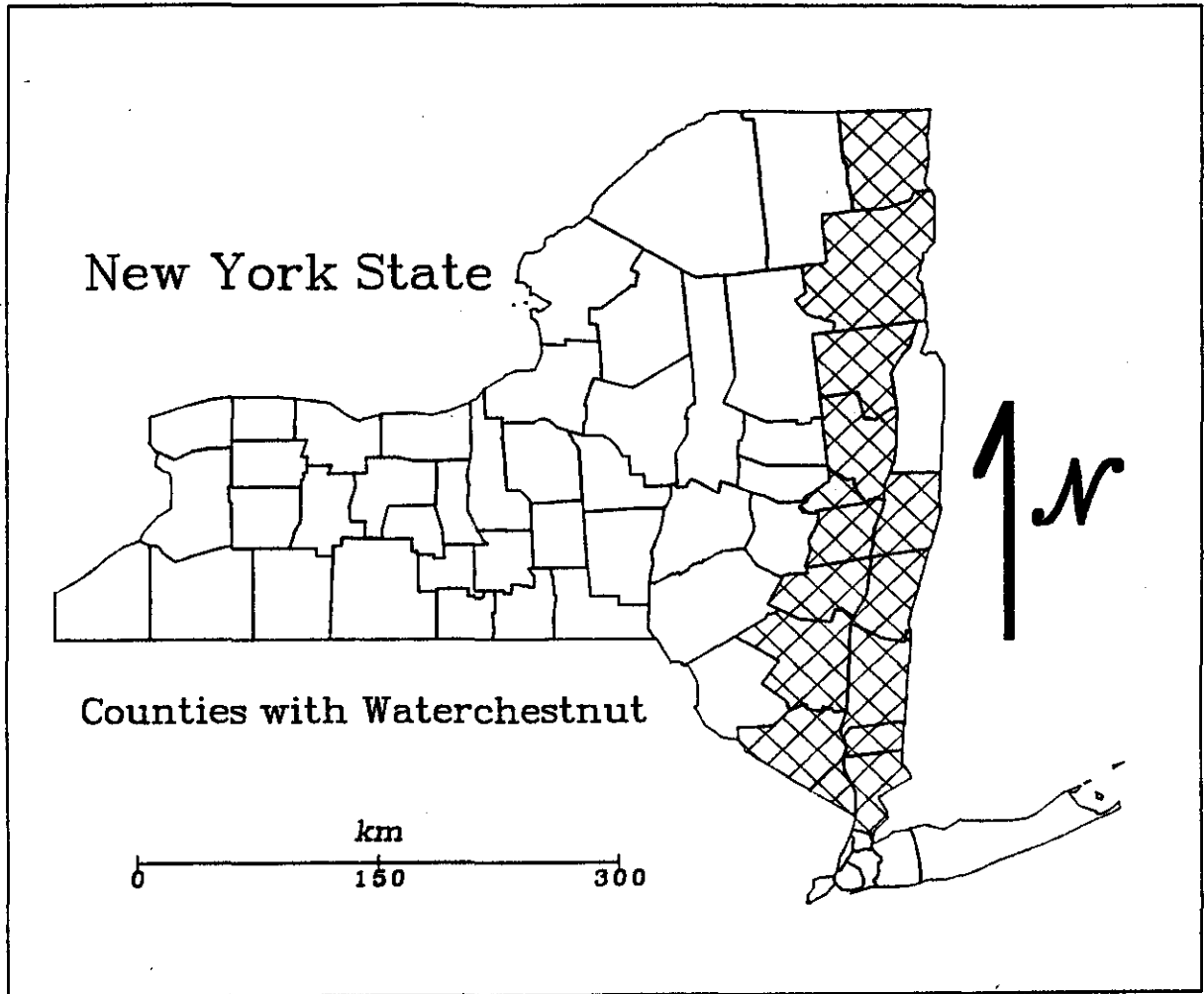


Figure 3. New York State counties with Curly-leaf Pondweed (*Potamogeton crispus* L.).

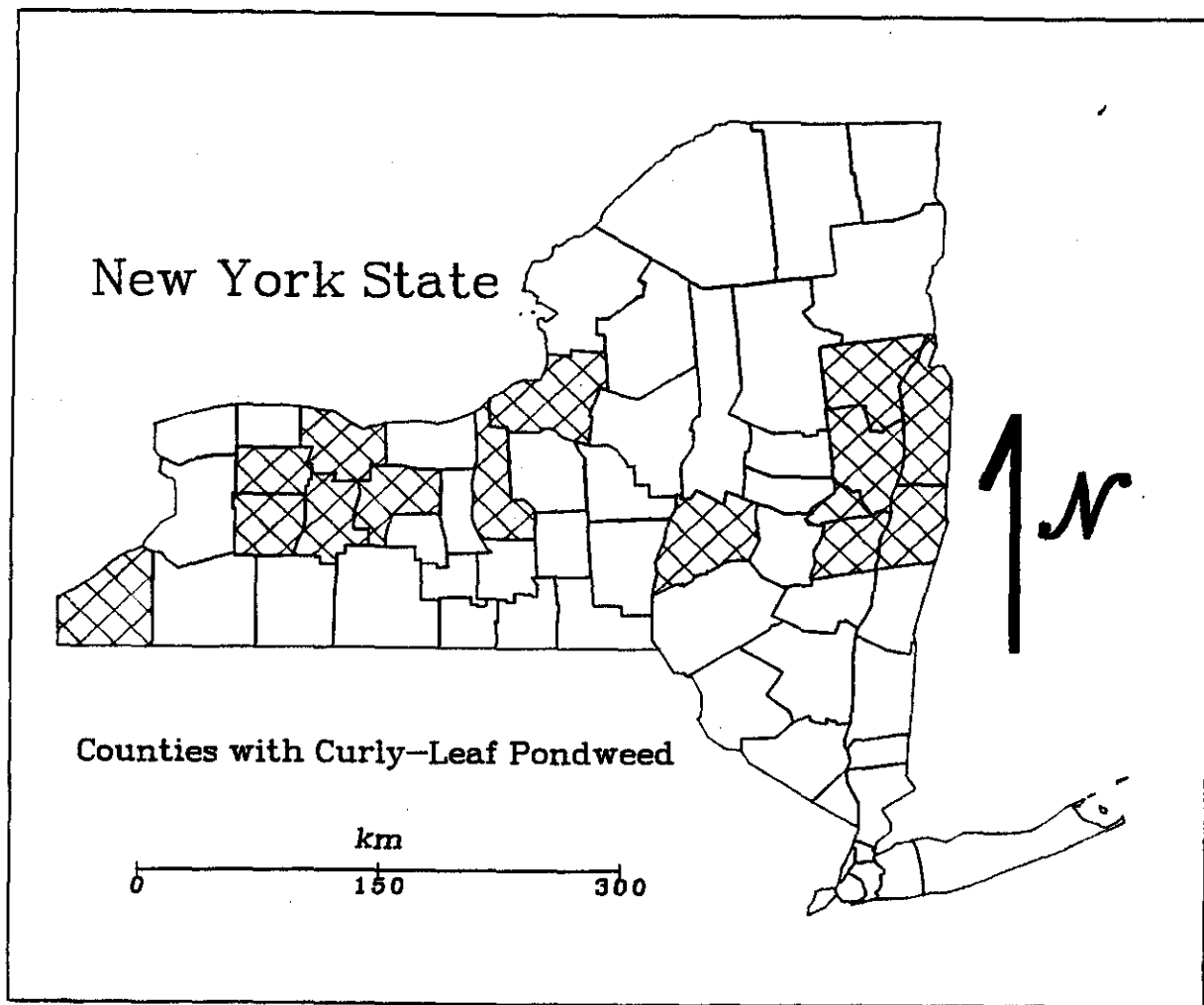


Table 1.  
 FWI AQUATIC PLANT IDENTIFICATION PROGRAM - 1990

SPECIES	Sample #	DATE	LOCATION
Potamogeton crispus	88-1	6/27/88	Watervliet Reservoir
Nuphar sp.	88-2	6/27/88	Watervliet Reservoir
Ceratophyllum demersum	88-3	6/27/88	Watervliet Reservoir
Potamogeton sp.	88-4	6/27/88	Watervliet Reservoir
Ranunculus longirostris	88-5	6/28/88	Basin Bay, LG
Bidens beckii	88-6	6/30/88	Trout Lake
Myriophyllum spicatum	88-7	7/27/88	Sweet Briar Is., LG
Potamogeton crispus	88-8	7/29/88	N.of Shadow Bay, LG
Bidens beckii	88-9	8/02/88	Brant Lake
Ceratophyllum demersum	88-10	8/13/88	Watervliet Reservoir
Myriophyllum spicatum	88-11	9/08/88	Crystal Lake
Myriophyllum spicatum	88-12	9/08/88	Snyders Lake
Myriophyllum spicatum	88-13	9/22/88	Cooks Bay, LG
Myriophyllum spicatum	88-14	10/12/88	Indian Bay, LG
filamentous algae	88-15	9/12/88	Bixby Beach, LG
Myriophyllum spicatum	89-1	6/27/89	Silver Bay, LG
Myriophyllum alterniflorum	89-1	6/27/89	Silver Bay, LG
Ranunculus longirostris	89-2	7/07/89	Huletts Landing, LG
Myriophyllum spicatum	89-3	7/11/89	Lake Luzerne
Potamogeton crispus	89-4	7/14/89	Shelving Rock, LG
Elodea canadensis	89-5	7/18/89	Silver Bay, LG
Potamogeton perfoliatus	89-5	7/18/89	Silver Bay, LG
Potamogeton gramineus	89-5	7/18/89	Silver Bay, LG
Myriophyllum spicatum	89-6	7/20/89	Hulett's Landing, LG
Potamogeton perfoliatus	89-7	7/31/89	Hague, LG
Vallisneria americana	89-7	7/31/89	Hague, LG
Myriophyllum spicatum	89-8	8/07/89	Camp Andrew, LG
Elodea canadensis	89-9	8/09/89	Basin Bay, LG
Potamogeton gramineus	89-10	8/16/89	Silver Bay
Ranunculus longirostris	89-11	8/16/89	Sabbath Day Pt., LG
Myriophyllum spicatum	89-12	9/16/89	3 Brothers Is., LG
Eleocharis sp.	89-13	8/10/89	Gull Bay, LG
Myriophyllum spicatum	89-14	9/08/89	Daggett Lake
Potamogeton epihydrus	89-15	9/08/89	Daggett Lake
Potamogeton perfoliatus	89-16	9/08/89	Lake George
Potamogeton gramineus	89-17	9/08/89	Lake Luzerne
Ranunculus sp.	89-18	9/11/89	Basin Bay, LG
Myriophyllum spicatum	89-19	10/30/89	Brant Lake
Potamogeton epihydrus	89-20	10/02/89	Spring Lake
Utricularia vulgaris	89-20	10/02/89	Spring Lake
Chara sp.	90-01	06/26/90	Diamond Pt., LG
Myriophyllum spicatum	90-02	07/11/90	Schroon Lake
Myriophyllum spicatum	90-03	07/19/90	Sandy Bay, LG
Myriophyllum spicatum	90-04	07/24/90	Northwest Bay, LG
Myriophyllum spicatum	90-05	08/24/90	Augur Lake
Potamogeton sp.	90-06	08/24/90	Augur Lake



Table 1.  
 FWI AQUATIC PLANT IDENTIFICATION PROGRAM - 1990

SPECIES	Sample #	DATE	LOCATION
Ceratophyllum sp.	90-07	08/25/90	Hills Pond/Emerald Lk
Potamogeton crispus	90-07	08/25/90	Hills Pond/Emerald Lk
Nitella sp.	90-07	08/25/90	Hills Pond/Emerald Lk
Elodea sp.	90-07	08/25/90	Hills Pond/Emerald Lk
Ranunculus sp.	90-08	08/26/90	Hague, LG
Potamogeton gramineus	90-09	09/09/90	Eagle Lake
Elodea canadensis	90-09	09/09/90	Eagle Lake
Ceratophyllum demersum	90-09	09/09/90	Eagle Lake
Sparganium sp.	90-09	09/09/90	Eagle Lake
Elodea canadensis	90-10	10/11/90	Green Harbor, LG
Myriophyllum spicatum	90-11	10/26/90	Lake Titus

Table 2.  
 AQUATIC PLANT IDENTIFICATION PROGRAM  
 Lake George Eurasian Watermilfoil (*M. spicatum*) and  
 Curly-leaf Pondweed (*P. crispus*) locations discovered  
 as part of this program.

LOCATION	Sample #	SPECIES	DATE	FOUND BY
Agnes Island	89-6	<i>M. spicatum</i>	07-20-89	H. Wilkening
Camp Andrew Bay	89-8	<i>M. spicatum</i>	08-07-89	E. Hue
Cooks Bay, Huletts	88-13	<i>M. spicatum</i>	09-22-88	Wm. Beach
Indian Bay, Huletts	88-14	<i>M. spicatum</i>	09-26-88	A. Barbera
N. of Shadow Bay	88-8	<i>P. crispus</i>	07-29-88	B. Meyer
Northwest Bay	90-4	<i>M. spicatum</i>	07-24-90	B. Meyer
Sandy Bay	90-3	<i>M. spicatum</i>	07-19-90	J. Robertson
Shelving Rock	89-4	<i>P. crispus</i>	07-14-89	Knapp
Silver Bay	89-1	<i>M. spicatum</i>	06-27-89	T. Shuster
S. Sweet Briar Is.	88-7	<i>M. spicatum</i>	07-27-88	R. Risman
Three Brothers Is.	89-12	<i>M. spicatum</i>	09-06-89	D. Swire

Table 3  
 Locations in New York State with Eurasian Watermilfoil - 1990

LAKE	COUNTY	OBSERVED BY	REFERENCE
Watervliet Reservoir	Albany	Madsen	RFWI 1989
Whitney Pt. Reservoir	Broome	Titus	Titus, J.
Susquehanna River	Broome	Titus	Titus, J.
Cuba Lake	Cattaraugus		NYS DEC
Cayuga Lake	Cayuga		NYS DEC, Miller, 1978
Como Lake	Cayuga		Miller, 1978
Cross Lake	Cayuga		NYS DEC, Miller, 1978
Duck Lake	Cayuga		Miller, 1978
Little Sodus B	Cayuga		NYS DEC, Miller, 1978
Owasco Lake	Cayuga		NYS DEC, Miller, 1978
Cassadaga L's	Chautauqua		NYS DEC
Chautauqua Lake	Chautauqua		NYS DEC
Findley Lake	Chautauqua		NYS DEC
Lime Lake	Chautauqua		NYS DEC
Plymouth Reservoir	Chenango		NYS DEC
Lake Champlain	Clinton		NYS DEC
Copake Lake	Columbia		NYS DEC
Queechy Lake	Columbia		NYS DEC
Wappinger Lake	Dutchess		NYS DEC
Augur Lake	Essex	Eichler	This Report
Eagle Lake	Essex	Taggett	RFWI 1987, Taggett 1988
E. Caroga Lake	Fulton		NYS DEC
Great Sacandaga Lk	Fulton	Smith	RFWI 1989
Lake Titus	Franklin	Eichler	This Report
Sleepy Hollow Lake	Greene	Madsen	RFWI 1989
Lake Ontario	Jefferson		Reed, 1977
Conesus Lake	Livingston		NYS DEC
Cazenovia Lake	Madison		NYS DEC
Honeoye Lake	Ontario		NYS DEC, Gilman, 1985
Greenwood Lake	Orange		NYS DEC
Walton Lake	Orange		NYS DEC
Paddy's Lake	Oswego		Reed, 1977
Canadarago Lake	Otsego		NYS DEC
Otsego Lake	Otsego	Titus	Titus, J.
Lake Carmel	Putnam		NYS DEC
Lake Mahopac	Putnam		NYS DEC
Lake Oscawana	Putnam		NYS DEC

Table 3  
 Locations in New York State with Eurasian Watermilfoil - 1990

LAKE	COUNTY	OBSERVED BY	REFERENCE
Castleton Reservoir	Rensselaer	Nelson	Bagdon Env. Assoc., 1989
Crooked Lake	Rensselaer	Soracco	Soracco 1990
Crystal Lake	Rensselaer	Madsen	RFWI 1988
Glass Lake	Rensselaer	Soracco	Soracco 1990
Hampton Manor Lake	Rensselaer	Soracco	Soracco 1990
Pine Lake	Rensselaer	Soracco	Soracco 1990
Reichards Lake	Rensselaer	Soracco	Soracco 1990
Snyders Lake	Rensselaer		NYS DEC, RFWI 1989
Tomhannock Reservoir	Rensselaer	Soracco	Soracco 1990
Vanderhyden Reservoir	Rensselaer	Soracco	Soracco 1990
Haverstraw Bay	Rockland		Menzie, 1979
Galway Lake	Saratoga	Madsen	RFWI 1989
Round Lake	Saratoga		NYS DEC
Saratoga Lake	Saratoga	Boylen	RFWI 1985
Lamoka lake	Schuyler		NYS DEC
Waneta Lake	Schuyler		NYS DEC
Seneca River	Seneca		Reed, 1977
Black Lake	St. Lawrence		NYS DEC
Brant Lake	Warren		RFWI 1989, Eichler 1990
Crandall Pond	Warren	Madsen	RFWI 1989
Daggett Lake	Warren	Madsen	RFWI 1989
Friends Lake	Warren		RFWI 1987
Glen Lake	Warren	Madsen	RFWI 1989
Lake Luzerne	Warren	Madsen	NYS DEC, RFWI 1989
Schroon Lake	Warren/Essex	Taggett	Taggett 1988, This Report
Cossayuna Lake	Washington		NYS DEC
Hedges Lake	Washington		NYS DEC
Sodus B	Wayne		NYS DEC
Mohansic Lake	Westchester		NYS DEC
Silver Lake	Wyoming		NYS DEC
Seneca Lake	Yates		NYS DEC

Table 4.  
 Locations in New York State with Waterchestnut (*Trapa natans*)

LAKE	COUNTY	OBSERVED BY	REFERENCE
Hudson River	Albany		NYS DEC
Mohawk River	Albany		NYS DEC
Watervliet Res.	Albany	Madsen	RFWI, 1989
Lake Champlain	Clinton		NYS DEC
Hudson River	Columbia		NYS DEC
Hudson River	Dutchess		NYS DEC
Lake Champlain	Essex		NYS DEC
Hudson River	Green		NYS DEC
Hudson River	Orange		NYS DEC
Hudson River	Putnam		NYS DEC
Hudson River	Rensselaer		NYS DEC
Tamarack Pond	Rensselaer		Soracco, 1991
Hudson River	Rockland		NYS DEC
Saratoga Lake	Saratoga		NYS DEC
Mohawk River	Schenectady		NYS DEC
Hudson River	Ulster		NYS DEC
Lake Champlain	Warren		NYS DEC
Hudson River	Westchester		NYS DEC

Table 5.  
Locations in New York State with Curly-leaf Pondweed (*P. crispus*)

LAKE	COUNTY	OBSERVED BY	REFERENCE
Watervliet Res.	Albany	Madsen	RFWI, 1989
Cayuga	Cayuga		Miller, 1978
Como	Cayuga		Miller, 1978
Cross	Cayuga		Miller, 1978
Little Sodus	Cayuga		Miller, 1978
Owasco	Cayuga		Miller, 1978
Skaneateles	Cayuga		Miller, 1978
Chautauqua Lake	Chautauqua		NYS DEC
Conesus Lake	Livingston		Bloomfield, 1978
Irondequoit Bay	Monroe		Bloomfield, 1978
Honeoye Lake	Ontario		NYS DEC, Gilman 1985
Oneida Lake	Oswego		Bloomfield, 1978
Canadarago Lake	Otsego		NYS DEC
Otsego Lake	Otsego		Bloomfield, 1978
Cooper's Pond	Rensselaer	Madsen	RFWI 1989
Saratoga Lake	Saratoga		NYS DEC
Collins Lake	Schenectady		NYS DEC
Brant Lake	Warren	Taggett	Eichler, 1990
Lake George	Warren	Taggett	RFWI, 1988
Cossayuna Lake	Washington	Madsen	RFWI 1987
Hills Pond/Emerald Lake	Washington	Eichler	This Report
Silver Lake	Wyoming		NYS DEC

APPENDIX A  
ANNOUNCEMENT

AQUATIC PLANT IDENTIFICATION PROGRAM

Rensselaer Fresh Water Institute 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 RFWI laboratory facility in Bolton Landing on Lakeshore Drive (Route 9N) or to our RPI campus office (Materials Research Center 203). 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. For more information, contact the RFWI site at ph. 644-3541 or in Troy at 276-8382 or 276-6757.