

**New York State Department of Environmental Conservation**



**Division of Fish, Wildlife & Marine Resources**

**New York Natural Heritage Program**

625 Broadway, 5<sup>th</sup> floor, Albany, New York 12233-4757

**Phone:** (518) 402-8935 • **FAX:** (518) 402-8925

**Website:** [www.dec.state.ny.us](http://www.dec.state.ny.us)

**RECEIVED APR 15 2002**

April 10, 2002

Stephanie Harrington  
Environmental Planner  
Central New York Regional Planning and Development Board  
126 N. Salina Street, 100 Clinton Square, Suite 200  
Syracuse, NY 13202

Dear Ms. Harrington:

In response to your request, we have reviewed the New York Natural Heritage Program database with respect to Oneida Lake and its watershed, as indicated on the map you provided.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or have occurred in the past, in Oneida Lake or its watershed.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

A handwritten signature in black ink, appearing to read "Nicholas Conrad".

Nicholas Conrad

Information Resources Coordinator

NY Natural Heritage Program

Encs.

The following rare plant species, rare animal species, and significant ecological community types have been documented at locations within Oneida Lake and the Oneida Lake watershed since 1980.

| SCIENTIFIC NAME                          | COMMON NAME                   | GLOBAL RANK | STATE RANK | STATE LEGAL STATUS | FED. STATUS |
|--|-------------------------------|-------------|------------|--------------------|-------------|
| ** GASTROPODS (SNAILS)                   |                               |             |            |                    |             |
| NOVISUCCINEA CHITTENANGOENSIS            | Chittenango ovate amber snail | G1          | S1         | ENDANGERED         | LT          |
| ** BIVALVE MOLLUSKS                      |                               |             |            |                    |             |
| MARGARITIFERA MARGARITIFERA              | Eastern pearlshell            | G4          | S2         | UNPROTECTED        |             |
| ** DRAGONFLIES AND DAMSELFLIES           |                               |             |            |                    |             |
| GOMPHUS FRATERNUS                        | Midland clubtail              | G5          | S1S3       | UNPROTECTED        |             |
| ** MOTHS                                 |                               |             |            |                    |             |
| LITHOPHANE THAXTERI                      | Thaxter's pinion moth         | G4          | SU         | UNPROTECTED        |             |
| ZANCLOGNATHA MARTHA                      | Pine barrens zanclognatha     | G4          | S1S2       | UNPROTECTED        |             |
| ** BUTTERFLIES AND SKIPPERS              |                               |             |            |                    |             |
| CALLOPHRYS IRUS                          | Frosted elfin                 | G3          | S1S3       | THREATENED         |             |
| CALLOPHRYS LANORAIEENSIS                 | Bog elfin                     | G3G4        | S1         | UNPROTECTED        |             |
| ** REPTILES                              |                               |             |            |                    |             |
| CLEMMYS MUHLENBERGII                     | Bog turtle                    | G3          | S2         | ENDANGERED         | LT          |
| SISTRURUS CATENATUS CATENATUS            | Eastern massasauga            | G3G4T3T     | S1         | ENDANGERED         | C           |
| ** BIRDS                                 |                               |             |            |                    |             |
| AMMODRAMUS HENSLOWII                     | Henslow's sparrow             | G4          | S3B, SAN   | THREATENED         |             |
| ARDEA HERODIAS                           | Great blue heron              | G5          | S5         | PROTECTED          |             |
| ASIO FLAMMEUS                            | Short-eared owl               | G5          | S2         | ENDANGERED         |             |
| CIRCUS CYANEUS                           | Northern harrier              | G5          | S3B, S3N   | THREATENED         |             |
| DENDROICA CASTANEA                       | Bay-breasted warbler          | G5          | S2         | PROTECTED          |             |
| STERNA HIRUNDO                           | Common tern                   | G5          | S3B        | THREATENED         |             |
| STURNELLA NEGLECTA                       | Western meadowlark            | G5          | S1         | PROTECTED          |             |
| ** MAMMALS                               |                               |             |            |                    |             |
| MYOTIS SODALIS                           | Indiana bat                   | G2          | S1         | ENDANGERED         | LE          |
| ** OTHERS                                |                               |             |            |                    |             |
| BAT HIBERNACULUM                         | Bat hibernaculum              |             | S?         | UNPROTECTED        |             |
| GULL NESTING COLONY                      | Gull nesting colony           |             | S?         | UNPROTECTED        |             |
| ** VASCULAR PLANTS                       |                               |             |            |                    |             |
| ARETHUSA BULBOSA                         | Swamp pink                    | G4          | S2         | THREATENED         |             |
| ASPLENIDIUM SCOLOPENDRIUM VAR AMERICANUM | Hart's-tongue fern            | G4T3        | S2         | THREATENED         | LT          |
| BOTRYCHIUM LUNARIA                       | Moonwort                      | G5          | S1         | ENDANGERED         |             |
| BOTRYCHIUM MINGANENSE                    | Mingan moonwort               | G4          | S1         | ENDANGERED         |             |
| CAREX HITCHCOCKIANA                      | Hitchcock's sedge             | G5          | S2S3       | THREATENED         |             |
| CAREX SCHWEINITZII                       | Schweinitz' sedge             | G3          | S2S3       | THREATENED         |             |
| CAREX SHORTIANA                          | Short's sedge                 | G5          | S1         | ENDANGERED         |             |
| CAREX WIEGANDII                          | Wiegand's sedge               | G3          | S1         | ENDANGERED         |             |
| CAREX WILLDENOWII                        | Willdenow's sedge             | G5          | S2         | THREATENED         |             |
| CORALLORHIZA STRIATA                     | Striped coralroot             | G5          | S1         | ENDANGERED         |             |
| HYDRASTIS CANADENSIS                     | Golden-seal                   | G4          | S2         | THREATENED         |             |
| LIPARIS LILIFOLIA                        | Large twayblade               | G5          | S1         | THREATENED         |             |
| LISTERA AUSTRALIS                        | Southern twayblade            | G4          | S1S2       | ENDANGERED         |             |
| LYGODIUM PALMATUM                        | Climbing fern                 | G4          | S1         | ENDANGERED         |             |
| PRIMULA MISTASSINICA                     | Bird's-eye primrose           | G5          | S2         | THREATENED         |             |
| SAXIFRAGA AIZOIDES                       | Yellow mountain-saxifrage     | G5          | S2         | THREATENED         |             |
| SEDUM ROSEA                              | Roseroot                      | G5          | S1         | ENDANGERED         |             |
| SOLIDAGO OHIOENSIS                       | Ohio goldenrod                | G4          | S2         | THREATENED         |             |
| SPARGANIUM NATANS                        | Small bur-reed                | G5          | S2         | THREATENED         |             |
| STUCKENIA FILIFORMIS SSP OCCIDENTALIS    | Sheathed pondweed             | G5T5        | S1         | ENDANGERED         |             |

|                      |                       |      |      |            |
|----------------------|-----------------------|------|------|------------|
| TRIGLOCHIN PALUSTRIS | Marsh arrow-grass     | G5   | S2   | THREATENED |
| TROLLIUS LAXUS       | Spreading globeflower | G4T3 | S3   | RARE       |
| ULMUS THOMASII       | Cork elm              | G5   | S2S3 | THREATENED |

\*\* COMMUNITIES

|                                     |                                     |      |      |  |
|-------------------------------------|-------------------------------------|------|------|--|
| BEECH-MAPLE MESIC FOREST            | Beech-maple mesic forest            | G4   | S4   |  |
| BLACK SPRUCE-TAMARACK BOG           | Black spruce-tamarack bog           | G4G5 | S3   |  |
| CALCAREOUS CLIFF COMMUNITY          | Calcareous cliff<br>community       | G4   | S3S4 |  |
| CALCAREOUS TALUS SLOPE<br>WOODLAND  | Calcareous talus slope<br>woodland  | G3G4 | S3   |  |
| DEEP EMERGENT MARSH                 | Deep emergent marsh                 | G4   | S4   |  |
| DWARF SHRUB BOG                     | Dwarf shrub bog                     | G4   | S3   |  |
| HEMLOCK-HARDWOOD SWAMP              | Hemlock-hardwood swamp              | G4G5 | S4   |  |
| HIGHBUSH BLUEBERRY BOG THICKET      | Highbush blueberry bog<br>thicket   | G4   | S3   |  |
| INLAND POOR FEN                     | Inland poor fen                     | G4   | S3   |  |
| LIMESTONE WOODLAND                  | Limestone woodland                  | G3G4 | S2S3 |  |
| MAPLE-BASSWOOD RICH MESIC<br>FOREST | Maple-basswood rich mesic<br>forest | G4   | S2S3 |  |
| MARL FEN                            | Marl fen                            | G2G3 | S1   |  |
| MEDIUM FEN                          | Medium fen                          | G3G4 | S2S3 |  |
| MEROMICTIC LAKE                     | Meromictic lake                     | G3G4 | S1S2 |  |
| MIDREACH STREAM                     | Midreach stream                     | G4   | S4   |  |
| NORTHERN WHITE CEDAR SWAMP          | Northern white cedar<br>swamp       | G3G4 | S2S3 |  |
| PINE BARRENS VERNAL POND            | Pine barrens vernal pond            | G3G4 | S2   |  |
| PITCH PINE-BLUEBERRY PEAT<br>SWAMP  | Pitch pine-blueberry peat<br>swamp  | G3?  | S1   |  |
| PITCH PINE-HEATH BARRENS            | Pitch pine-heath barrens            | G4   | S1S2 |  |
| RED MAPLE-HARDWOOD SWAMP            | Red maple-hardwood swamp            | G5   | S4S5 |  |
| RICH HEMLOCK-HARDWOOD PEAT<br>SWAMP | Rich hemlock-hardwood<br>peat swamp | G3G4 | S2S3 |  |
| ROCKY HEADWATER STREAM              | Rocky headwater stream              | G4   | S4   |  |
| SEDGE MEADOW                        | Sedge meadow                        | G5   | S4   |  |
| SHALE CLIFF AND TALUS<br>COMMUNITY  | Shale cliff and talus<br>community  | G4   | S3?  |  |
| SHALLOW EMERGENT MARSH              | Shallow emergent marsh              | G5   | S5   |  |
| SHRUB SWAMP                         | Shrub swamp                         | G5   | S5   |  |
| SILVER MAPLE-ASH SWAMP              | Silver maple-ash swamp              | G3G4 | S2S3 |  |
| SPRUCE-FIR SWAMP                    | Spruce-fir swamp                    | G3G4 | S3?  |  |

70 Records Processed

The following species have been reported in the past from within the Oneida Lake watershed at locations for which the last known documentation is before 1980. If appropriate habitat exists, these species may still occur at those locations.

| SCIENTIFIC NAME                       | COMMON NAME               | GLOBAL RANK | STATE RANK | STATE LEGAL STATUS | FED. STATUS |
|---------------------------------------|---------------------------|-------------|------------|--------------------|-------------|
| <b>** BUTTERFLIES AND SKIPPERS</b>    |                           |             |            |                    |             |
| PHYCIDES BATESII BATESII              | Tawny crescent            | G4T1        | SH         | UNPROTECTED        |             |
| <b>** FISH</b>                        |                           |             |            |                    |             |
| ENNEACANTHUS GLORIOSUS                | Bluespotted sunfish       | G5          | S2         | UNPROTECTED        |             |
| ERIMYZON SUCETTA                      | Lake chubsucker           | G5          | SH         | THREATENED         |             |
| ETHEOSTOMA EXILE                      | Iowa darter               | G5          | S2         | UNPROTECTED        |             |
| LEPOMIS MEGALOTIS                     | Longear sunfish           | G5          | S1         | THREATENED         |             |
| NOTROPIS HETERODON                    | Blackchin shiner          | G5          | S1         | UNPROTECTED        |             |
| NOTURUS MIURUS                        | Brindled madtom           | G5          | S1         | UNPROTECTED        |             |
| <b>** BIRDS</b>                       |                           |             |            |                    |             |
| LANIUS LUDOVICIANUS                   | Loggerhead shrike         | G4          | S1B, SZN   | ENDANGERED         |             |
| <b>** VASCULAR PLANTS</b>             |                           |             |            |                    |             |
| AGASTACHE NEPETOIDES                  | Yellow giant-hyssop       | G5          | S2S3       | THREATENED         |             |
| APLECTRUM HYEMALE                     | Puttyroot                 | G5          | S1         | ENDANGERED         |             |
| ASTER OOLENTANGIENSIS                 | Sky-blue aster            | G5          | S1         | ENDANGERED         |             |
| BOTRYCHIUM CAMPESTRE                  | Prairie dunewort          | G3          | SH         | ENDANGERED         |             |
| BOTRYCHIUM LUNARIA                    | Moonwort                  | G5          | S1         | ENDANGERED         |             |
| BOTRYCHIUM ONEIDENSE                  | Blunt-lobe grape fern     | G4Q         | S1S3       | ENDANGERED         |             |
| BOTRYCHIUM RUGULOSUM                  | Rugulose grape fern       | G3          | S1         | ENDANGERED         |             |
| CALYPSO BULBOSA                       | Calypso                   | G5          | SH         | ENDANGERED         |             |
| CAREX FORMOSA                         | Handsome sedge            | G4          | S2S3       | THREATENED         |             |
| CAREX FRANKII                         | Frank's sedge             | G5          | S1         | ENDANGERED         |             |
| CAREX LAXIFLORA VAR SERRULATA         | Loose-flowered sedge      | G5T4        | SH         | ENDANGERED         |             |
| CAREX SARTWELLII                      | Sartwell's sedge          | G4G5        | S1S2       | THREATENED         |             |
| CAREX SCHWEINITZII                    | Schweinitz' sedge         | G3          | S2S3       | THREATENED         |             |
| CAREX STYLOFLEXA                      | Bent sedge                | G4G5        | S1         | ENDANGERED         |             |
| CAREX TENUIFLORA                      | Sparse-flowered sedge     | G5          | S1         | ENDANGERED         |             |
| CARYA LACINIOSA                       | Big shellbark hickory     | G5          | S2         | THREATENED         |             |
| COLLINSIA VERNA                       | Blue-eyed-mary            | G5          | SH         | ENDANGERED         |             |
| CYNOGLOSSUM VIRGINIANUM VAR BOREALE   | Northern wild comfrey     | G5T4        | S1S2       | ENDANGERED         |             |
| CYPRIPEDIUM ARIETINUM                 | Ram's-head ladyslipper    | G3          | S2         | THREATENED         |             |
| DESMODIUM CILIARE                     | Little-leaf tick-trefoil  | G5          | S2S3       | THREATENED         |             |
| ELEOCHARIS OBTUSA VAR OVATA           | Blunt spikerush           | G5          | S1S2       | ENDANGERED         |             |
| ELEOCHARIS QUADRANGULATA              | Angled spikerush          | G4          | S1         | ENDANGERED         |             |
| EQUISETUM PALUSTRE                    | Marsh horsetail           | G5          | S2         | THREATENED         |             |
| GEUM VIRGINIANUM                      | Rough avens               | G5          | S2         | ENDANGERED         |             |
| JUNIPERUS HORIZONTALIS                | Prostrate juniper         | G5          | S1         | ENDANGERED         |             |
| LEUCOSPORA MULTIFIDA                  | Leucospora                | G5          | S1         | ENDANGERED         |             |
| LIPOCARPHA MICRANTHA                  | Dwarf bulrush             | G4          | S1         | ENDANGERED         |             |
| LYGODIUM PALMATUM                     | Climbing fern             | G4          | S1         | ENDANGERED         |             |
| LYSIMACHIA HYBRIDA                    | Lance-leaved loosestrife  | G5          | S1         | ENDANGERED         |             |
| PANICUM SCABRIUSCULUM                 | Panic grass               | G4          | S1         | ENDANGERED         |             |
| PHACELIA DUBIA                        | Scorpion-weed             | G5          | SX         | UNPROTECTED        |             |
| PLATANThERA CILIARIS                  | Orange fringed orchis     | G5          | S1         | ENDANGERED         |             |
| PLATANThERA HOOKERI                   | Hooker's orchid           | G5          | S1         | ENDANGERED         |             |
| POA SYLVESTRIS                        | Woodland bluegrass        | G5          | S1         | ENDANGERED         |             |
| POLEMONIUM VANBRUNTIAE                | Jacob's-ladder            | G3          | S3         | RARE               |             |
| POLYGONUM BUXIFORME                   | Small's knotweed          | G5          | S1         | ENDANGERED         |             |
| POLYGONUM SETACEUM VAR INTERJECTUM    | Swamp smartweed           | G5T4        | S1S2       | ENDANGERED         |             |
| POTAMOGETON STRICTIFOLIUS             | Straight-leaf pondweed    | G5          | S1         | ENDANGERED         |             |
| PRIMULA MISTASSINICA                  | Bird's-eye primrose       | G5          | S2         | THREATENED         |             |
| PYROLA ASARIFOLIA SSP ASARIFOLIA      | Pink wintergreen          | G5T5        | S2         | THREATENED         |             |
| RORIPPA AQUATICA                      | Lake-cress                | G4?         | S2         | THREATENED         |             |
| SAXIFRAGA AIZOIDES                    | Yellow mountain-saxifrage | G5          | S2         | THREATENED         |             |
| SCHEUCHZERIA PALUSTRIS                | Pod grass                 | G5          | S3         | RARE               |             |
| STUCKENIA FILIFORMIS SSP OCCIDENTALIS | Sheathed pondweed         | G5T5        | S1         | ENDANGERED         |             |

|                               |                       |        |      |             |
|-------------------------------|-----------------------|--------|------|-------------|
| TRIGLOCHIN PALUSTRIS          | Marsh arrow-grass     | G5     | S2   | THREATENED  |
| TRIPHORA TRIANTHOPHORA        | Nodding pogonia       | G3G4   | S1S2 | ENDANGERED  |
| TROLLIUS LAXUS                | Spreading globeflower | G4T3   | S3   | RARE        |
| ULMUS THOMASII                | Cork elm              | G5     | S2S3 | THREATENED  |
| VIOLA NEPHROPHYLLA            | Northern bog violet   | G5     | S1   | ENDANGERED  |
| ZIGADENUS ELEGANS SSP GLAUCUS | White camas           | G5T4T5 | S2   | THREATENED  |
| ZIGADENUS LEIMANTHOIDES       | False camas           | G4Q    | SX   | UNPROTECTED |

59 Records Processed

The following species have been reported in the past from within the Oneida Lake watershed at locations at which they no longer occur and/or at which appropriate habitat no longer exists.

10 APR 2002 NEW YORK NATURAL HERITAGE PROGRAM REPORT ON ONEIDA LAKE AND WATERSHED

| SCIENTIFIC NAME                        | COMMON NAME           | GLOBAL RANK | STATE RANK | STATE LEGAL STATUS | FED. STATUS |
|--|-----------------------|-------------|------------|--------------------|-------------|
| ** REPTILES                            |                       |             |            |                    |             |
| CLEMMYS MUHLENBERGII                   | Bog turtle            | G3          | S2         | ENDANGERED         | LT          |
| ** VASCULAR PLANTS                     |                       |             |            |                    |             |
| ASPLENIUM SCOLOPENDRIUM VAR AMERICANUM | Hart's-tongue fern    | G4T3        | S2         | THREATENED         | LT          |
| ELEOCHARIS HALOPHILA                   | Salt-marsh spikerush  | G4          | S2         | THREATENED         |             |
| ELEOCHARIS OBTUSA VAR OVATA            | Blunt spikerush       | G5          | S1S2       | ENDANGERED         |             |
| ELEOCHARIS QUADRANGULATA               | Angled spikerush      | G4          | S1         | ENDANGERED         |             |
| HALENIA DEFLEXA                        | Spurred gentian       | G5          | S1         | ENDANGERED         |             |
| ISOTRIA MEDEOLOIDES                    | Small whorled pogonia | G2          | SH         | ENDANGERED         | LT          |
| LIPOCARPHA MICRANTHA                   | Dwarf bulrush         | G4          | S1         | ENDANGERED         |             |
| LITHOSPERMUM CANESCENS                 | Hoary puccoon         | G5          | SX         | UNPROTECTED        |             |
| PHACELIA DUBIA                         | Scorpion-weed         | G5          | SX         | UNPROTECTED        |             |

10 Records Processed

## USERS GUIDE TO NY NATURAL HERITAGE DATA

New York Natural Heritage Program, 700 Troy-Schenectady Road, Latham NY 12110-2400 phone: (518) 783-3932

**NATURAL HERITAGE PROGRAM:** The Natural Heritage Program is an ongoing, systematic, scientific inventory whose goal is to compile and maintain data on the rare plants and animals native to New York State, and significant ecological communities. The data provided in the report facilitate sound planning, conservation, and natural resource management and help to conserve the plants, animals and ecological communities that represent New York's natural heritage.

**DATA SENSITIVITY:** The data provided in the report are ecologically sensitive and should be treated in a sensitive manner. The report is for your in-house use and should not be released, distributed or incorporated in a public document without prior permission from the Natural Heritage Program.

**NATURAL HERITAGE REPORTS** (may contain any of the following types of data):

**COUNTY NAME:** County where the occurrence of a rare species or significant ecological community is located.

**TOWN NAME:** Town where the occurrence of a rare species or significant ecological community is located.

**USGS 7 1/2' TOPOGRAPHIC MAP:** Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000)

**SIZE (acres):** Approximate acres occupied by the rare species or significant ecological community at this location. A blank indicates unknown size.

**SCIENTIFIC NAME:** Scientific name of the occurrence of a rare species or significant ecological community.

**COMMON NAME:** Common name of the occurrence of a rare species or significant ecological community.

**ELEMENT TYPE:** Type of element (i.e. plant, animal, significant ecological community, other, etc.)

**LAST SEEN:** Year rare species or significant ecological community last observed extant at this location.

**EO RANK:** Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use with LAST SEEN.

A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficient data to assign a rank of A - D.

F = Failed to find. Did not locate species, but habitat is still there and further field work is justified.

H = Historical. Historical occurrence without any recent field information.

X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.

? = Unknown.

Blank = Not assigned.

**NEW YORK STATE STATUS (animals):** Categories of Endangered and Threatened species are defined in New York State Environmental Conservation Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5.

E = Endangered Species: any species which meet one of the following criteria:

1) Any native species in imminent danger of extirpation or extinction in New York.

2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.

T = Threatened Species: any species which meet one of the following criteria:

1) Any native species likely to become an endangered species within the foreseeable future in NY.

2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.

SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environmental Conservation Law section 11-0535 (Endangered and Threatened Species).

P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife.

U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license to take may be required.

G = Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times.

**NEW YORK STATE STATUS (plants):** The following categories are defined in regulation 6NYCRR part 193.3 and apply to NYS Environmental Conservation Law section 9-1503.

E = Endangered Species: listed species are those with:

1) 5 or fewer extant sites, or

2) fewer than 1,000 individuals, or

3) restricted to fewer than 4 U.S.G.S. 7 1/2 minute topographical maps, or

4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

T = Threatened: listed species are those with:

1) 6 to fewer than 20 extant sites, or

2) 1,000 to fewer than 3,000 individuals, or

3) restricted to not less than 4 or more than 7 U.S.G.S. 7 and 1/2 minute topographical maps, or

4) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

R = Rare: listed species have:

1) 20 to 35 extant sites, or

2) 3,000 to 5,000 individuals statewide.

V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.  
U = Unprotected; no state status.

**NEW YORK STATE STATUS** (communities): At this time there are no categories defined for communities.

**FEDERAL STATUS** (plants and animals): The categories of federal status are defined by the United States Department of the Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Register vol. 50, no. 188, pp. 39526 - 39527.

(blank) = No Federal Endangered Species Act status.

LE = The element is formally listed as endangered.

LT = The element is formally listed as threatened.

E/SA = The element is treated as endangered because of similarity of appearance to other endangered species or subspecies.

PE = The element is proposed as endangered.

PT = The element is proposed as threatened.

C = The element is a candidate for listing.

(LE) = If the element is a full species, all subspecies or varieties are listed as endangered; if the element is a subspecies, the full species is listed as endangered.

(LE-LT) = The species is formally listed as endangered in part of its range, and as threatened in the other part; or, one or more subspecies or varieties is listed as endangered, and the others are listed as threatened.

(LT-C) = The species is formally listed as threatened in part of its range, and as a candidate for listing in the other part; or, one or more subspecies or varieties is listed as threatened, and the others are candidates for listing.

(LT-(T/SA)) = One or more subspecies or populations of the species is formally listed as threatened, and the others are treated as threatened because of similarity of appearance to the listed threatened subspecies or populations.

(PS) = Partial status: the species is listed in parts of its range and not in others; or, one or more subspecies or varieties is listed, while the others are not listed.

**GLOBAL AND STATE RANKS** (animals, plants, ecological communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state rank reflects the rarity within New York State. Intraspecific taxa are also assigned a taxon rank to reflect the intraspecific taxon's rank throughout the world. ? = Indicates a question exists about the rank. Range ranks, e.g. S1S2, indicate not enough information is available to distinguish between two ranks.

#### GLOBAL RANK:

G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable to extinction because of some factor of its biology.

G2 = Imperiled globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout its range because of other factors.

G3 = Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a physiographic region), or vulnerable to extinction throughout its range because of other factors.

G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GH = Historically known, with the expectation that it might be rediscovered.

GX = Species believed to be extinct.

#### STATE RANK:

S1 = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable in New York State.

S2 = Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.

S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.

S4 = Apparently secure in New York State.

S5 = Demonstrably secure in New York State.

SH = Historically known from New York State, but not seen in the past 15 years.

SX = Apparently extirpated from New York State.

SZ = Present in New York State only as a transient migrant.

SxB and SxN, where Sx is one of the codes above, are used for migratory animals, and refer to the rarity within New York State of the breeding (B) populations and the non-breeding populations (N), respectively, of the species.

**TAXON (T) RANK:** The T-ranks (T1 - T5) are defined the same way as the Global ranks (G1 - G5), but the T-rank refers only to the rarity of the subspecific taxon.

T1 through T5 = See Global Rank definitions above.

Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.

**OFFICE USE:** Information for use by the Natural Heritage Program

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