

New York State Department of Environmental Conservation



Division of Fish, Wildlife & Marine Resources

New York Natural Heritage Program

625 Broadway, 5th floor, Albany, New York 12233-4757

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

Website: 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 community	G4	S3S4	
CALCAREOUS TALUS SLOPE WOODLAND	Calcareous talus slope 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 thicket	G4	S3	
INLAND POOR FEN	Inland poor fen	G4	S3	
LIMESTONE WOODLAND	Limestone woodland	G3G4	S2S3	
MAPLE-BASSWOOD RICH MESIC FOREST	Maple-basswood rich mesic 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 swamp	G3G4	S2S3	
PINE BARRENS VERNAL POND	Pine barrens vernal pond	G3G4	S2	
PITCH PINE-BLUEBERRY PEAT SWAMP	Pitch pine-blueberry peat 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 SWAMP	Rich hemlock-hardwood peat swamp	G3G4	S2S3	
ROCKY HEADWATER STREAM	Rocky headwater stream	G4	S4	
SEDGE MEADOW	Sedge meadow	G5	S4	
SHALE CLIFF AND TALUS COMMUNITY	Shale cliff and talus 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
** BUTTERFLIES AND SKIPPERS					
PHYCIDES BATESII BATESII	Tawny crescent	G4T1	SH	UNPROTECTED	
** FISH					
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	
** BIRDS					
LANIUS LUDOVICIANUS	Loggerhead shrike	G4	S1B, SZN	ENDANGERED	
** VASCULAR PLANTS					
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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