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> From: Moret, Ellen N.
> Sent: Thursday, December 21, 2006 3:30 PM
> To: 'Richard Emch'; Jessie Muir; Samuel Hernandez-Quinones
> Cc: Miller, David S.
> Subject: More chapter 2 references...
>
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**ENDANGERED AND THREATENED
ANIMALS OF VERMONT**
Vermont Department of Fish and Wildlife
Nongame and Natural Heritage Program
April 23, 2005



The following species are protected by the Vermont Endangered Species Law (10 V.S.A. Chap. 123). This list is arranged major group.

Common Name	Scientific Name	State Status	Federal Status
MAMMALS			
Eastern mountain lion	<i>Felis concolor cougar</i>	E	LE
Lynx	<i>Lynx canadensis</i>	E	LT
Marten	<i>Martes americana</i>	E	
Small-footed bat	<i>Myotis leibii</i>	T	
Indiana bat	<i>Myotis sodalis</i>	E	LE
BIRDS			
Bald eagle	<i>Haliaeetus leucocephalus</i>	E	LT
Spruce grouse	<i>Falco canadensis</i>	E	
Upland sandpiper	<i>Bartramia longicauda</i>	E	
Common tern	<i>Sterna hirundo</i>	E	
Black tern	<i>Chlidonias niger</i>	E	
Sedge wren	<i>Cistothorus platensis</i>	E	
Loggerhead shrike	<i>Lanius ludovicianus</i>	E	
Henslow's sparrow	<i>Ammodramus henslowii</i>	E	
Grasshopper sparrow	<i>Ammodramus savannarum</i>	T	
AMPHIBIANS			
Western (Striped) chorus frog	<i>Pseudacris triseriata</i>	E	
REPTILES			
Spiny softshell (turtle)	<i>Apalone spinifera</i>	T	
Spotted turtle	<i>Clemmys guttata</i>	E	
Eastern racer	<i>Coluber constrictor</i>	T	
Eastern ratsnake	<i>Elaphe obsoleta</i> (<i>E. alleghaniensis</i>)	T	
Timber rattlesnake	<i>Crotalus horridus</i>	E	
Five-lined skink	<i>Eumeces fasciatus</i>	E	
FISH			
Lake sturgeon	<i>Acipenser fulvescens</i>	E	
Eastern sand darter	<i>Ammocrypta pellucida</i>	T	
Channel darter	<i>Percina copelandi</i>	E	
Northern brook lamprey	<i>Ichthyomyzon fossor</i>	E	

Common Name	Scientific Name	State Status	Federal Status
American brook lamprey	Lampetra appendix	T	
Stonecat	Noturus flavus	E	
AMPHIPODS			
Taconic cave amphipod	Stygobromus borealis	E	
INSECTS			
Beach-dune tiger beetle	Cicindela hirticollis	T	
Cobblestone tiger beetle	Cicindela marginipennis	T	
Puritan tiger beetle	Cicindela puritana	T	LT
MOLLUSCS			
Dwarf wedgemussel	Alasmidonta heterodon	E	LE
Brook floater	Alasmidonta varicosa	T	
Cylindrical papershell	Anodontoides ferussacianus	E	
Pocketbook	Lampsilis ovata	E	
Fluted-shell	Lasmigona costata	E	
Fragile papershell	Leptodea fragilis	E	
Black sandshell	Ligumia recta	E	
Eastern (pearlshell) pearl mussel	Margaritifera margaritifera	T	
Pink heelsplitter	Potamilus alatus	E	
Giant floater	Pyganodon grandis	T	

State Status As per the Vermont Endangered Species Law (10 V.S.A. Chap. 123)

E: Endangered: in immediate danger of becoming extirpated in the state

T: Threatened: with high possibility of becoming endangered in the near future

There are 28 state endangered and 13 state threatened animals in Vermont.

Federal Status As per the Federal Endangered Species Act (P.L. 93-205)

LE: Listed endangered

LT: Listed threatened

For further information on the Vermont Endangered Species Law or endangered and threatened plants and animals in Vermont, contact the Nongame and Natural Heritage Program, Vermont Dept. of Fish and Wildlife, 103 South Main St. Waterbury, VT 05671-0501. (802) 241-3700.

Also available from the Nongame and Natural Heritage Program is a list of rare and uncommon animals of Vermont. This list includes both species protected by the Vermont Endangered Species Law and those rare in the state, but not afforded such protection. Also see the link to our program in our Department's web page: <http://www.vtfis.handwildlife.com/>



**ENDANGERED AND THREATENED
PLANTS OF VERMONT**
Vermont Department of Fish and Wildlife
Nongame and Natural Heritage Program
April 23, 2005



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Scientific Name	Common Name	State Status	Federal Status
APIACEAE - Parsley Family			
<i>Sanicula canadensis</i>	Short-styled snakeroot	T	
<i>Taenidia integerrima</i>	Yellow pimpernel	T	
ARACEAE - Arum Family			
<i>Arisaema dracontium</i>	Green dragon	T	
ASCLEPIADACEAE - Milkweed Family			
<i>Asclepias amplexicaulis</i>	Blunt-leaved milkweed	T	
<i>Asclepias tuberosa</i>	Butterfly-weed	T	
ASPLENIACEAE - Spleenwort Family			
<i>Asplenium montanum</i>	Mountain spleenwort	T	
<i>Asplenium trichomanes-ramosum</i>	Green spleenwort	T	
* (<i>A. viride</i>)			
ASTERACEAE - Aster Family			
<i>Eupatorium sessilifolium</i>	Sessile-leaved boneset	E	
<i>Helianthus strumosus</i>	Harsh sunflower	T	
<i>Lactuca hirsuta</i>	Hairy lettuce	T	
<i>Ornithoglossum sylvaticum</i>	Woodland cudweed	E	
* (<i>Gnaphalium sylvaticum</i>)			
<i>Petasites frigidus</i> var. <i>palmatus</i>	Sweet coltsfoot	T	
<i>Polymnia canadensis</i>	White-flowered leafcup	E	
<i>Prenanthes boottii</i>	Boott's rattlesnake-root	E	
<i>Solidago odora</i>	Sweet goldenrod	T	
<i>Solidago ulmifolia</i>	Elm-leaved goldenrod	E	
BETULACEAE - Birch Family			
<i>Betula pumila</i> var. <i>glandulifera</i>	Swamp birch	E	
BLECHNACEAE Chain Fern Family			
<i>Woodwardia virginica</i>	Virginia chain-fern	T	
BORAGINACEAE - Borage Family			
<i>Cynoglossum virginianum</i> var.	Northern wild comfrey	T	

Scientific Name	Common Name	State Status	Federal Status
boreale			
* (C. boreale)			
Hackelia deflexa var. americana	Nodding stickseed	T	
* (H. americana)			
BRASSICACEAE - Mustard Family			
Arabis drummondii	Drummond's rock-cress	E	
Arabis lyrata	Lyre-leaved rock-cress	T	
Braya humilis	Northern rock-cress	T	
Draba cana	Lanceolate cress	T	
* (D. lanceolata)			
Draba glabella	Smooth draba	T	
Neobeckia aquatica	Lake-cress	T	
* (Armoracia lacustris)			
BRYACEAE - Bryum Family			
Plagiobryum zieri	A moss	E	
CAPRI FOLIACEAE - Honeysuckle Family			
Viburnum edule	Squashberry	T	
CARYOPHYLLACEAE - Pink Family			
Minuartia marcescens	Marcescent sandwort	T	
Minuartia rubella	Marble sandwort	T	
CAESALPINACEAE - Caesalpinia Family			
Senna hebecarpa	Wild senna	T	
* (Cassia hebecarpa)			
CISTACEAE - Rockrose Family			
Helianthemum bicknellii	Plains frostweed	T	
Hudsonia tomentosa	Beach heather	E	
Lechea mucronata	Hairy pinweed	E	
* (L. villosa)			
CLUSIACEAE - St. John's-wort Family			
Hypericum ascyron	Great St. John's-wort	T	
* (H. pyramidatum)			
CONVOLVULACEAE - Morning-glory Family			
Calystegia spithamea	Low bindweed	T	
CORNACEAE - Dogwood Family			
Cornus florida	Flowering dogwood	T	
CRASSULACEAE - Orpine Family			
Sedum rosea	Roseroot	T	

Scientific Name	Common Name	State Status	Federal Status
CUPRESSACEAE - Cyprus Family			
<i>Juniperus horizontalis</i>	Creeping juniper	T	
CYPERACEAE - Sedge Family			
<i>Carex arcta</i>	Contracted sedge	E	
<i>Carex atratiformis</i>	Blackish sedge	T	
<i>Carex buxbaumii</i>	Buxbaum's sedge	E	
<i>Carex capillaris</i>	Capillary sedge	T	
<i>Carex chordorrhiza</i>	Creeping sedge	E	
<i>Carex foenea</i>	Bronze sedge	E	
* (<i>C. aenea</i>)			
<i>Carex garberi</i>	Garber's sedge	T	
<i>Carex livida</i>	Pale sedge	T	
<i>Carex muehlenbergii</i>	Muehlenberg's sedge	T	
* (<i>C. muehlenbergii</i>)			
<i>Carex oligocarpa</i>	Few-fruited sedge	E	
<i>Carex richardsonii</i>	Richardson's sedge	E	
<i>Carex siccata</i>	Hay sedge	E	
* (<i>Carex foenea</i>)			
<i>Carex vaginata</i>	Sheathed sedge	E	
<i>Cyperus diandrus</i>	Low cyperus	E	
<i>Cyperus houghtonii</i>	Houghton's cyperus	T	
<i>Eleocharis pauciflora</i>	Few-flowered spikerush	T	
<i>Fimbristylis autumnalis</i>	Autumn fimbristylis	E	
<i>Rhynchospora capillacea</i>	Capillary beak-rush	T	
<i>Scirpus ancistrochaetus</i>	Barbed-bristle bulrush	E	LE
<i>Scirpus verecundus</i>	Bashful bulrush	E	
DIAPENSIACEAE - Diapensia Family			
<i>Diapensia lapponica</i>	Diapensia	E	
DRYOPTERIDACEAE - Wood Fern Family			
<i>Dryopteris filix-mas</i>	Male fern	T	
<i>Woodsia alpina</i>	Alpine woodsia	E	
EQUISETACEAE - Horsetail Family			
<i>Equisetum palustre</i>	Marsh horsetail	T	
ERICACEAE - Heath Family			
<i>Rhododendron maximum</i>	Great laurel	T	
<i>Vaccinium stamineum</i>	Deerberry	E	
FABACEAE - Pea Family			

Scientific Name	Common Name	State Status	Federal Status
<i>Astragalus canadensis</i>	Canadian milk-vetch	T	
<i>Astragalus robbinsii</i> var. <i>jesupii</i>	Jesup's milk-vetch	E	LE
<i>Crotalaria sagittalis</i>	Rattlebox	T	
<i>Desmodium cuspidatum</i>	Large-bracted tick-trefoil	E	
<i>Desmodium rotundifolium</i>	Prostrate tick-trefoil	T	
<i>Lathyrus maritimus</i>	Beach pea	T	
* (<i>L. japonicus</i>)			
<i>Lathyrus palustris</i>	Marsh vetchling	T	
<i>Lespedeza hirta</i>	Hairy bush-clover	T	
<i>Lespedeza violacea</i>	Violet bush-clover	T	
<i>Lupinus perennis</i>	Wild lupine	E	
FAGACEAE - Oak Family			
<i>Quercus ilicifolia</i>	Scrub oak	E	
<i>Quercus prinoides</i>	Dwarf chinkapin oak	E	
FUMARIACEAE - Fumitory Family			
<i>Corydalis aurea</i>	Golden corydalis	T	
GENTIANACEAE - Gentian Family			
<i>Gentiana andrewsii</i>	Fringe-top closed gentian	T	
<i>Gentianella amarella</i>	Felwort	T	
* (<i>Gentiana amarella</i>)			
<i>Gentianella quinquefolia</i>	Stiff gentian	T	
* (<i>Gentiana quinquefolia</i>)			
HIPPURIDACEAE - Mare's-tail Family			
<i>Hippuris vulgaris</i>	Mare's-tail	E	
HYDROPHYLLACEAE - Waterleaf Family			
<i>Hydrophyllum canadense</i>	Broad-leaved waterleaf	T	
ISOETACEAE - Quillwort Family			
<i>Isoetes engelmannii</i>	Engelmann's quillwort	T	
JUNCACEAE - Rush Family			
<i>Juncus greenii</i>	Greene's rush	E	
<i>Juncus militaris</i>	Soldier rush	E	
<i>Juncus secundus</i>	Secund rush	E	
<i>Juncus torreyi</i>	Torrey's rush	E	
LAMIACEAE - Mint Family			
<i>Agastache nepetoides</i>	Yellow giant hyssop	T	
<i>Agastache scrophulariifolia</i>	Purple giant hyssop	T	
<i>Blephilia hirsuta</i>	Hairy wood-mint	T	
<i>Dracocephalum parviflorum</i>	American dragonhead	T	
<i>Physostegia virginiana</i>	Obedience	T	

Scientific Name	Common Name	State Status	Federal Status
<i>Pycnanthemum incanum</i>	Hoary mountain mint	E	
LENTIBULARIACEAE - Bladderwort Family			
<i>Utricularia resupinata</i>	Northeastern bladderwort	T	
LILIACEAE - Lily Family			
<i>Allium canadense</i>	Wild garlic	T	
<i>Tofieldia glutinosa</i>	Sticky false-asphodel	T	
LYCOPODIACEAE - Clubmoss Family			
<i>Diphasiastrum sitchense</i>	Alaskan clubmoss	T	
* (<i>Lycopodium sitchense</i>)			
LYGODIACEAE - Curly-grass Family			
<i>Lygodium palmatum</i>	Climbing fern	E	
MELASTOMATACEAE - Melastoma Family			
<i>Rhexia virginica</i>	Virginia meadow-beauty	T	
MONOTROPACEAE - Indian Pipe Family			
<i>Pterospora andromedea</i>	Pinedrops	E	
MORACEAE - Mulberry Family			
<i>Morus rubra</i>	Red mulberry	T	
NYMPHAEACEAE - Water-Lily Family			
<i>Nymphaea leibergii</i>	Pygmy water-lily	E	
ONAGRACEAE - Evening Primrose Family			
<i>Ludwigia polycarpa</i>	Many-fruited false-loosestrife	E	
OPHIOGLOSSACEAE - Adder's-tongue Family			
<i>Botrychium lunaria</i>	Moonwort	E	
ORCHIDACEAE - Orchid Family			
<i>Aplectrum hyemale</i>	Putty-root	T	
<i>Arethusa bulbosa</i>	Arethusa	T	
<i>Calypso bulbosa</i>	Fairy slipper	T	
<i>Coralorrhiza odontorhiza</i>	Autumn coral-root	T	
<i>Cypripedium arietinum</i>	Ram's head lady's-slipper	T	
<i>Isotria medeoloides</i>	Small whorled pogonia	E	LT
<i>Isotria verticillata</i>	Large whorled pogonia	T	
<i>Liparis liliifolia</i>	Lily-leaved twayblade	T	
<i>Listera auriculata</i>	Auricled twayblade	E	
<i>Listera australis</i>	Southern twayblade	E	

Scientific Name	Common Name	State Status	Federal Status
<i>Malaxis brachypoda</i>	White adder's mouth	T	
<i>Platanthera flava</i>	Tubercled orchis	T	
<i>Platanthera hookeri</i>	Hooker's orchis	T	
<i>Triphora trianthophora</i>	Three-bird orchid	T	
PINACEAE - Pine Family			
<i>Pinus banksiana</i>	Jack pine	T	
POACEAE - Grass Family			
<i>Ammophila champlainensis</i>	Champlain beach grass		
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	Bentgrass	E	
<i>Glyceria acutiflora</i>	Sharp manna-grass	E	
<i>Hierochloa alpina</i>	Alpine sweet-grass	T	
<i>Oryzopsis pungens</i>	Slender mountain-rice	T	
<i>Panicum flexile</i>	Stiff witch-grass	E	
<i>Sphenopholis nitida</i>	Shiny wedgegrass	E	
<i>Sphenopholis obtusata</i>	Blunt sphenopholis	E	
<i>Sporobolus asper</i>	Rough dropseed	E	
<i>Vulpia octoflora</i>	Eight-flowered fescue	E	
POLEMONIACEAE - Polemonium Family			
<i>Polemonium van-bruntiae</i>	Eastern Jacob's ladder	T	
POLYGONACEAE - Buckwheat Family			
<i>Polygonum douglasii</i>	Douglas knotweed	E	
PRIMULACEAE - Primula Family			
<i>Primula mistassinica</i>	Bird's-eye primrose	T	
PTERIDACEAE - Maidenhair Fern Family			
<i>Adiantum viridimontanum</i>	Green mountain maidenhair-fern	T	
PYROLACEAE - Wintergreen Family			
<i>Pyrola asarifolia</i>	Bog wintergreen	T	
<i>Pyrola minor</i>	Lesser pyrola	E	
RANUNCULACEAE - Buttercup Family			
<i>Anemone multifida</i>	Early thimbleweed	E	
<i>Hydrastis canadensis</i>	Golden-seal	E	
<i>Ranunculus allegheniensis</i>	Allegheny crowfoot	T	
RHAMNACEAE - Buckthorn Family			
<i>Ceanothus herbaceus</i>	Prairie redroot	E	
ROSACEAE - Rose Family			

Scientific Name	Common Name	State Status	Federal Status
Potentilla pensylvanica var. prectinata * (P. p. var. bipinnatifida)	Northern cinquefoil	E	
Prunus americana	Wild plum	T	
Rosa acicularis	Needle-spine rose	E	
RUBIACEAE - Madder Family			
Galium labradoricum	Bog bedstraw	T	
SALICACEAE - Willow Family			
Salix planifolia	Tea-leaved willow	T	
Salix uva-ursi	Bearberry willow	E	
SCHEUCHZERIAEAE - Scheuchzeria Family			
Scheuchzeria palustris ssp. americana	Pod-grass	T	
SCROPHULARIACEAE - Figwort Family			
Castilleja septentrionalis	Pale painted-cup	T	
Veronicastrum virginicum	Culver's-root	E	
SPARGANIACEAE - Bur-reed Family			
Sparganium natans * (S. minimum)	Lesser bur-reed	T	
SPHAGNACEAE Sphagnum Family			
Sphagnum nitidum * (S. subfulvum)	A peatmoss	E	
VALERIANACEAE - Valerian Family			
Valeriana uliginosa	Marsh valerian	E	
VIOLACEAE - Violet Family			
Viola lanceolata	Lance-leaved violet	T	
XYRIDACEAE - Yellow-eyed Grass Family			
Xyris montana	Northern yellow-eyed grass	T	

* Synonym – indicates a name change from the previous Vermont Endangered and Threatened Species list or an alternative name that may be encountered

KEY TO FAMILY FROM GENUS

GENUS	FAMILY	GENUS	FAMILY
Adiantum	Pteridaceae	Hydrastis	Ranunculaceae
Agastache	Lamiaceae	Hydrophyllum	Hydrophyllaceae
Allium	Liliaceae	Hypericum	Clusiaceae
Ammophila	Poaceae	Isoetes	Isoetaceae
Anemone	Ranunculaceae	Isotria	Orchidaceae
Aplectrum	Orchidaceae	Juncus	Juncaceae
Arabis	Brassicaceae	Juniperus	Cupressaceae
Arethusa	Orchidaceae	Lactuca	Asteraceae
Arisaema	Araceae	Lathyrus	Fabaceae
Asclepias	Asclepiadaceae	Lechea	Cistaceae
Asplenium	Aspleniaceae	Lespedeza	Fabaceae
Astragalus	Fabaceae	Liparis	Orchidaceae
Betula	Betulaceae	Listera	Orchidaceae
Blephilia	Lamiaceae	Ludwigia	Onagraceae
Botrychium	Ophioglossaceae	Lupinus	Fabaceae
Braya	Brassicaceae	Lygodium	Schizaeaceae
Calamagrostis	Poaceae	Malaxis	Orchidaceae
Calypso	Orchidaceae	Minuartia	Caryophyllaceae
Calystegia	Convolvulaceae	Morus	Moraceae
Carex	Cyperaceae	Nebeckia	Brassicaceae
Castilleja	Scrophulariaceae	Nymphaea	Nymphaeaceae
Ceanothus	Rhamnaceae	Omalotheca	Asteraceae
Corallorrhiza	Orchidaceae	Oryzopsis	Poaceae
Cornus	Cornaceae	Panicum	Poaceae
Corydalis	Fumariaceae	Petasites	Asteraceae
Crotalaria	Fabaceae	Physostegia	Lamiaceae
Cynoglossum	Boraginaceae	Pinus	Pinaceae
Cyperus	Cyperaceae	Plagiobryum	Bryaceae
Cypripedium	Orchidaceae	Platanthera	Orchidaceae
Desmodium	Fabaceae	Polemonium	Polemoniaceae
Diapensia	Diapensiaceae	Polygonum	Polygonaceae
Lycopodium	Lycopodiaceae	Polymnia	Asteraceae
Draba	Brassicaceae	Potentilla	Rosaceae
Dracocephalum	Lamiaceae	Prenanthes	Asteraceae
Dryopteris	Dryopteridaceae	Primula	Primulaceae
Eleocharis	Cyperaceae	Prunus	Rosaceae
Equisetum	Equisetaceae	Pterospora	Monotropaceae
Eupatorium	Asteraceae	Pycnanthemum	Lamiaceae
Fimbristylis	Cyperaceae	Pyrola	Pyrolaceae
Galium	Rubiaceae	Quercus	Fagaceae
Gentiana	Gentianaceae	Ranunculus	Ranunculaceae
Gentianella	Gentianaceae	Rhexia	Melastomataceae
Glyceria	Poaceae	Rhododendron	Ericaceae
Hackelia	Boraginaceae	Rhynchospora	Cyperaceae
Helianthemum	Cistaceae	Rosa	Rosaceae
Helianthus	Asteraceae	GENUS	FAMILY
Hierochloa	Poaceae	Salix	Salicaceae
Hippuris	Hippuridaceae	Sanicula	Apiaceae
Hudsonia	Cistaceae	Scheuchzeria	Scheuchzeriaceae
		Scirpus	Cyperaceae

Sedum	Crassulaceae	Utricularia	Lentibulariaceae
Senna	Fabaceae	Vaccinium	Ericaceae
Solidago	Asteraceae	Valeriana	Valerianaceae
Sparganium	Sparganiaceae	Veronicastrum	Scrophulariaceae
Sphagnum	Sphagnaceae	Viburnum	Caprifoliaceae
Sphenopholis	Poaceae	Viola	Violaceae
Sporobolus	Poaceae	Vulpia	Poaceae
Taenidia	Apiaceae	Woodsia	Dryopteridaceae
Tofieldia	Liliaceae	Woodwardia	Blechnaceae
Triphora	Orchidaceae	Xyris	Xyridaceae

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The databases available here are the endangered species by county database (ES_COUNT.DBF) and the species information database (SPECIES.DBF). They are contained in a self-extracting compressed file named "county99.exe." Once you have downloaded the file to a directory on your computer, you can extract all the files in the archive by simply typing the name of the file at the DOS prompt.

The databases here have been updated as of December 31, 1999. The Agency's Endangered Species Protection Program will release newer, updated files periodically. [Click here to download county99.exe.](#)

Structure of the databases:

Structure of the ES_COUNT.DBF file:

Field	Description
STATE	2-letter state abbreviation
INSTATE	Full state name
COUNTY	County name
FIPS2	FIPS code for the county and state (5-digit)
KNOWN	Whether the species is known to occur in the county
INVNAME	Common name - inverse listing
XGROUP	Clarification of the KNOWN field. F in KNOWN field means that existence of the species is possible.
ACTION	Type of listing action (Listing, Proposed, Delisting)
DATE	Date this file was released
GROUP	Taxonomic group

Structure of the SPECIES.DBF file:

Field	Description
INVNAME	Common name - inverse listing
SCINAME	Scientific name
ACTION	Type of listing action (Listing, Proposed, Delisting)
STATUS	Indicates species status (see below.)
ACTDATE	Date of FWS final listing
GROUPNAME	Taxonomic group
FAMILY	Taxonomic family
DATE	Date this file was released

Species status codes:

- z PE = Proposed Endangered
- z PT = Proposed Threatened
- z E = Endangered
- z T = Threatened
- z CH = Critical Habitat
- z PXN = Proposed Nonessential Experimental Population
- z PXE = Proposed Essential Experimental Population
- z XN = Nonessential Experimental Population
- z XE = Essential Experimental Population
- z PD = Proposed delisting
- z Delist = Delisted
- z S/A = For similarity of appearance species

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