RARE, THREATENED, AND ENDANGERED ANIMALS OF MARYLAND

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Prepared by

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INTRODUCTION

The following report identifies those native Maryland animals that are among the rarest and most in need of conservation efforts as elements of our State's natural diversity. It includes species occurring in Maryland that are listed or candidates for listing on the Federal list of Endangered and Threatened Wildlife and Plants, species currently on the State's Threatened and Endangered Species List, and additional species that are considered rare by the Maryland Wildlife and Heritage Division. The purpose of this report is to inform the public of which species are rare, to provide an indication of their degree of rarity, to solicit additional information on the status and distribution of these species, and to promote an interest in their protection.

Compiled by Wildlife and Heritage Division staff, this list of rare species is a result of over 20 years of data gathering from numerous sources, such as museums and private collections, scientific literature, unpublished documents, reports from biologists and amateur naturalists, and from field work conducted by Wildlife and Heritage Division ecologists. The original version of this list was included in the Department of Natural Resources' 1984 publication Threatened and Endangered Plants and Animals of Maryland, which also contained detailed information on the distribution and status of Maryland's rare species known at that time.

Since 1984, our knowledge of Maryland's fauna has grown steadily. Through extensive field work, Wildlife and Heritage Division ecologists and other researchers have located species which were previously unrecorded for the State and have discovered that some species are more scarce than previously known. Similarly, some species are now known to be either more widespread or less vulnerable to ecological disturbances than previously believed. Thus, the list and status of each species is periodically revised to keep pace with new information.

The official State Threatened and Endangered Species List is part of the State Threatened and Endangered Species regulations (COMAR 08.03.08). Wildlife and Heritage Division ecologists are concerned with many more species than those included on the State's Threatened and Endangered Species List. Some of these species are potential candidates for listing and usually require further investigation into their rarity and endangerment status. Others are thought to be secure at present, but are worthy of attention because of limited distributions, declining populations, or ecological vulnerabilities.

ABOUT THIS LIST

The Maryland Wildlife and Heritage Division's list of rare, threatened, and endangered animals is arranged phylogenetically; the invertebrate groups are listed first followed by vertebrates. Within each major group, species are listed alphabetically by scientific name. Some invertebrate groups are not fully represented or are entirely absent from this list. To date, available information has been compiled for only certain species or groups of invertebrates. Many invertebrate species are not well known and have not been fully researched or inventoried in Maryland, and the taxonomy of some has not been standardized.

Birds and other migratory species are tracked and considered rare by the Wildlife and Heritage Division on the basis of their breeding status alone. For example, Dark-eyed Juncos are abundant backyard birds during the winter; however, they breed in only a few remote areas in Western Maryland during the summer. To be included on the official State Threatened and Endangered Species List, migrants that are rare Maryland breeders must also be rare during the non-breeding season. Thus, the Dark-eyed Junco cannot be included on the official State List under current listing criteria. Other migratory species, such as whales and sea turtles, have been included because of their Federal status even though they typically do not breed in Maryland.

Four columns are printed to the right of each name. The global and state rarity ranks of each species are included in the first and second columns, respectively. The third column shows the species' status on the State Threatened and Endangered Species List. The last column indicates the Federal status of each species as determined by the U.S. Fish and Wildlife Service. Definitions for the codes used in all four columns are provided in Appendix III. Because taxonomists periodically update scientific names, a list of synonym names is included as a cross reference in Appendix I. Species currently under consideration for inclusion on the list appear in Appendix II. DNR biologists seek information on the status and location of these taxa from all interested parties.

OTHER LISTS AND INFORMATION

The U.S. Fish and Wildlife Service's Office of Endangered Species publishes a list of federally-designated threatened and endangered species. Copies of the U.S. Department of Interior's booklet, <u>Endangered and Threatened Wildlife and Plants</u> (50 CFR 17.11 & 17.12), can be obtained from the Publication Unit, U.S. Fish and Wildlife Service, Washington, DC 20240.

The Department of Natural Resources' Fisheries Service maintains an official list of game and commercial fish species that are designated as endangered, threatened, or in need of conservation in Maryland. The list of Endangered and Threatened Fish Species (COMAR 08.02.12) can be obtained by contacting the Fisheries Service, Department of Natural Resources, Tawes State Office Building B-2, Annapolis, MD 21401.

To obtain additional copies of this report, to receive a copy of "Rare, Threatened, and Endangered Plants of Maryland," or to receive other information on Maryland's rare species and natural areas, please contact the Maryland Wildlife and Heritage Division at the address shown above or visit their website at www.dnr.state.md.us/wildlife.

The Wildlife and Heritage Division is the lead State agency for the identification, ranking, and protection of Maryland's rare species and significant natural areas. Staff biologists obtain information on the biology and status of rare native flora and fauna from various sources, including scientific experts, knowledgeable amateur naturalists, and research projects funded through the Chesapeake Bay and Endangered Species tax check-off. You can take an active part in protecting Maryland's rare species by contacting the Wildlife and Heritage Division with the following types of information:

- 1. Location (exact <u>mapped</u> location, if possible) and population size/vigor information for any species on the Program's rare, threatened, and endangered species list, including historical information if known.
- 2. Data documenting that a species should be assigned a different state rank or status.
- 3. Nominations of species that either should be added to, or deleted from, the list with supporting data.
- 4. Documentation of threats to any rare species populations, including the species' habitat.
- 5. Information on the biology or ecology of rare species and references to the species in the literature.
- 6. Any additional information that would support the protection, conservation, or management of rare species, habitats, or natural communities in Maryland.

If you would like to provide location information for any rare species, please fill out the reporting form found at the web address provided above and mail it to the Wildlife and Heritage Division along with a location map. You can also send an e-mail message to Lynn Davidson, Natural Heritage Information Manager, at Idavidson@dnr.state.md.us

April 2001 RARE, 1	HREATENED, AND ENDANGERED ANIMALS OF MA		CTATE	CTATE	MD DNR
SCIENTIFIC NAME	COMMON NAME	GLOBAL Rank	STATE Rank	STATE STATUS	FEDERAL STATUS
PLANARIANS					
Phagocata virilis Planaria dactyligera Procotyla typhlops Sphalloplana hoffmasteri Sphalloplana sp 1	A planarian A planarian A planarian Hoffmaster's cave planarian A planarian	G? G? G1G2 G2G3 G?	S1 S2 S1 S1 S1S2	E E	
MOLLUSKS					
Alasmidonta heterodon Alasmidonta undulata Alasmidonta varicosa Anodonta implicata Discus catskillensis Elliptio fisheriana Elliptio lanceolata Elliptio producta Fontigens bottimeri Fontigens orolibas Glyphyalinia raderi Hendersonia occulta Lampsilis cariosa Lampsilis radiata Lasmigona subviridis Leptodea ochracea Ligumia nasuta Stenotrema simile Strophitus undulatus Triodopsis picea Utterbackia imbecillis Vertigo ventricosa Webbhelix multilineata	Dwarf wedge mussel Triangle floater Brook floater Alewife floater Angular disc Northern lance Yellow lance Atlantic spike Appalachian spring snail Blue ridge spring snail Rader's snail Cherrydrop snail Yellow lampmussel Eastern lampmussel Green floater Tidewater mucket Eastern pondmussel Bear creek slitmouth Squawfoot Spruce knob threetooth Paper pondshell Cylindrically-ornate wood snail Striped whitelip	G1G2 G4 G3 G5 G3G5 G4 G2G3 G4Q G2 G2G3 G2 G4 G3G4 G5 G3 G4 G4G5 G7 G5 G3 G5 G3 G4	\$1 \$1 \$3 \$3 \$1 \$3 \$U \$2\$3 \$2 \$1 \$H \$2 \$1 \$U \$1 \$U \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	E E X I X	LE
CRUSTACEANS					
Ankylocythere tridentata Attheyella spinipes Caecidotea franzi Caecidotea pricei Caecidotea sp 1 Caecidotea sp 2 Caecidotea sp 3 Caecidotea sp 4 Caecidotea sp 5 Caecidotea sp 6 Cambarus acuminatus	An entocytherid ostracod A harpacticoid copepod Franz's cave isopod Price's cave isopod An crayfish	G? G2G3 G3G4 G1 G? G3 G? G? G? G?	SX SU S1 S3 S1 S1 S1 S1 S1 S2 S3	Ε	
Crangonyx dearolfi Dactylocythere scotos Diacyclops palustris Orconectes obscurus Stygobromus allegheniensis Stygobromus biggersi Stygobromus emarginatus Stygobromus franzi Stygobromus gracilipes Stygobromus indentatus Stygobromus sp 5 Stygobromus sp 6	Dearolf's cave amphipod An entocytherid ostracod A cyclopoid copepod A crayfish Allegheny cave amphipod Biggers' cave amphipod Greenbrier cave amphipod Franz's cave amphipod Shenandoah cave amphipod Tidewater amphipod Pizzini's amphipod Barrelville amphipod An amphipod	G2G3 G? G? G5 G4 G2G4 G3 G2G4 G3 G2G4 G? G?	\$1 \$1 \$U \$3 \$2\$3 \$1 \$1 \$2\$3 \$1 \$1 \$1 \$1	E I E I E	

April 2001	RARE, THREATENED, AND ENDANGERED ANIMALS OF	MARYLAND GLOBAL	STATE	STATE	MD DNR FEDERAL
SCIENTIFIC NAME	COMMON NAME	RANK	RANK		STATUS
Stygobromus sp 14 Stygobromus tenuis potomacus Stygobromus tenuis tenuis	Roundtop amphipod Potomac amphipod Tenuis amphipod	G? G4T3T4Q G4G5T2T3Q	S1 S3 SU		
SPIDERS					
Oreonetides sp 1 Porhomma cavernicola Sphodros rufipes	Snivelys cave spider Appalachian cave spider Red-legged purse-web spider	G? G4G5 G4	SU S2 S1S2		
INSECTS					
<u>Collembola</u> Arrhopalites sp 1	Crabtree cave springtail	G?	SU		
Coleoptera Cicindela abdominalis Cicindela ancocisconensis Cicindela dorsalis dorsalis Cicindela dorsalis media Cicindela formosa Cicindela lepida Cicindela marginipennis Cicindela patruela Cicindela puritana	A tiger beetle A tiger beetle Northeastern beach tiger beetle White tiger beetle Big sand tiger beetle Little white tiger beetle Cobblestone tiger beetle A tiger beetle Puritan tiger beetle	G5 G3 G4T2 G4T4 G5 G4 G2G3 G3 G1G2	\$1 \$1 \$1 \$1 \$1 \$U \$1 \$P \$1 \$1	E E E	LT
Cicindela purpurea Cicindela scutellaris Cicindela splendida Cicindela unipunctata Dryobius sexnotatus Hoperius planatus Hydrochara occulta Hydrochus sp 1 Laccophilus schwarzi Lucanus elephas Nephus gordoni Nicrophorus americanus	A tiger beetle Six-banded longhorn beetle A dytiscid beetle A hydrophilid beetle Seth forest water scavenger beetle Schwarz' diving beetle Giant stag beetle A coccinellid beetle American burying beetle	G5 G5 G5 G4 G? G? G? G1 G? G3G5 G? G2G3	S3 S3 S3 S1 S2 SU S1 SX S1 SX	E	LE
Photuris bethaniensis Pseudanophthalmus sp 15 Sperchopsis tessellatus	A lampyrid firefly A cave beetle A hydrophilid beetle	G1? G1 G?	SP S1 S2	<i>X</i>	LL
<u>Diptera</u> Wyeomyia smithii	Pitcher-plant mosquito	G5	S2		
<u>Ephemeroptera</u> Potamanthus walkeri	Walker's tusked sprawler	G5	SU		
<u>Homoptera</u> Chlorotettix sp 1 Limotettix sp 1	A cicadellid leafhopper Eastern sedge barrens planthopper	G? G?	SU S1		
Lepidoptera - Butterflies Amblyscirtes hegon Atlides halesus Autochton cellus Boloria selene Calephelis borealis Callophrys polios Celastrina ebenina Celastrina neglectamajor Chlosyne harrisii Colias interior	Pepper and salt skipper Great purple hairstreak Golden-banded skipper Silver-bordered fritillary Northern metalmark Hoary elfin Dusky azure Appalachian blue Harris's checkerspot Pink-edged sulphur	G5 G5 G4 G5 G3G4 G5 G4 G4 G4 G5	\$2 \$1\$2 \$1 \$3 \$2 \$1 \$1 \$3 \$4 \$2 \$1	I E T E T	

April 2001	RARE, THREATENED, AND ENDANGERED ANIMALS OF MA		CTATE	MD DN	
SCIENTIFIC NAME	COMMON NAME	GLOBAL Rank	STATE Rank	STATE FEDERAL STATUS STATUS	
Erora laeta	Early hairstreak	G3G4	S1	E	
Erynnis martialis	Mottled duskywing	G3G4	S1	E	
Erynnis persius persius	Persius duskywing	G5T2T3	SH		
Euchloe olympia	Olympia marble	G4G5	S2	I	
Euphydryas phaeton	Baltimore checkerspot	G4	S3		
Euphyes bimacula	Two-spotted skipper	G4	S1	E	
Euphyes dion	Di on ski pper	G4	S3	_	
Fixsenia ontario	Northern hairstreak	G4T4	S1S2	E	
Glaucopsyche lygdamus	Silvery blue	G5	S2	I	
Hermeuptychia sosybius Hesperia attalus slossonae	Carolina satyr Dotted skipper	G5 G3G4T3	S1S3 SH		
Hesperia sassacus	Indian skipper	G5	S3		
Incisalia irus	Frosted elfin	G3	55 S1	E	
Lycaena epi xanthe	Bog copper	G4G5	S1	E	
Mitoura hesseli	Hessel's hairstreak	G3G4	SH	X	
Neonympha mitchellii	Mitchell's satyr	G1G2	SR	LE	
Nymphalis vaualbum	Compton tortoiseshell	G5	S1	E	
Papilio cresphontes	Giant swallowtail	G5	S2	1	
Papilio palamedes	Palamedes swallowtail	G5	SU		
Phyciodes batesii batesii	Tawny crescent	G4T1	SH	Χ	
Poanes massasoit chermocki	Chermock's mulberry wing	G4T1	S1	E	
Polites mystic	Long dash	G5	S3		
Problema bulenta	Rare skipper	G2G3	S1	Ţ	
Pyrgus wyandot	Southern grizzled skipper	G2	S1	E	
Satyrium caryaevorum	Hickory hairstreak	G4	S1	E	
Satyrium edwardsii	Edwards' hairstreak	G4	S1	E	
Satyrium kingi	King's hairstreak	G3G4	S1	T	
Speyeria atlantis	Atlantis fritillary	G5 G3	S1 SH	T E	
Speyeria idalia	Regal fritillary	US	ЭП	C	
Lepi doptera - Moths	A noctuid moth	G4	S2S3		
Apamea apamiformis Apamea mixta	A noctuid moth	GU GU	3233 S1		
Apamea plutonia	A nocture moth	G4	SU		
Apodrepanulatrix liberaria	A geometer moth	G4	SU		
Capis curvata	A noctuid moth	G4	S1S2		
Catocala marmorata	Marbled underwing	G3G4	SH		
Catocala pretiosa pretiosa	Precious underwing	G4T2T3	SH		
Cyclophora nanaria	A geometrid moth	G5	S1?		
Dasychira atrivenosa	A Tymantriid moth	G4	SU		
Ectoedemia castaneae	American chestnut nepticulid moth	GH	SH		
Ectoedemia phleophaga	Phleophagan chestnut nepticulid moth	GH	SH		
Elaphria georgei	A noctuid moth	G4	SU		
Hadena ectypa	A noctuid moth	G3G4	SU		
Hemileuca maia maia	The buckmoth	G5T5	SU		
Isoparce cupressi	Cypress sphinx moth	G4	SU		
Lytrosis sinuosa	Si nuous lytrosis	G4	S1S3		
Meropleon titan	A noctuid moth	G2G4 G4	SU		
Papai pema duovata Papai pema polymni ae	Seaside goldenrod stem borer Polymnia stalk borer	G4 G4	SU SH		
Schinia parmeliana	A noctuid moth	GU GU	SH		
Sphinx franckii	Franck's sphinx	G4	S1S2		
Synanthedon castaneae	Chestnut clearwing moth	G3G5	SX		
Xestia bollii	A noctuid moth	G4?	SU		
Odonata					
Aeshna canadensis	Canada darner	G5	S2		
Aeshna constricta	Lance-tipped darner	G5	SH		
Aeshna mutata	Spring blue darner	G3G4	S1	E	
Aeshna tuberculifera	Black-tipped darner	G4	S2		
Aeshna verticalis	Green-striped darner	G5	S2		
Amphiagrion saucium	Eastern red damsel	G5	S3		

April 2001	RARE, THREATENED, AND ENDANGERED ANIMALS (MD DNR
SCIENTIFIC NAME	COMMON NAME	GLOBAL Rank	STATE Rank	STATE STATUS	FEDERAL STATUS
Anax Longipes	Comet darner	G5	S3		
Archilestes grandis	Great spreadwing	G5	S3		
Argia bipunctulata	Seepage dancer	G4	S3		
Argia sedula	Blue-ringed dancer	G5	S3		
Boyeria grafiana	Ocellated darner	G5	S1		
Brachymesia gravida	Four-spotted pennant	G5	S3S4		
Calopteryx aequabilis Calopteryx amata	River jewelwing Superb jewelwing	G5 G4	S1 S2		
Calopteryx dimidiata	Sparkling jewelwing	G5	SH		
Celithemis fasciata	Banded pennant	G5	S3		
Celithemis martha	Martha's pennant	G4	S2		
Celithemis ornata	Faded pennant	G5	S1		
Celithemis verna	Double-ringed pennant	G5	S2		
Chromagrion conditum	Aurora damsel	G5	S3S4		
Cordulegaster bilineata	Brown spiketail	G5	S2		
Cordulegaster diastatops	Delta-spotted spiketail	G5	S3		
Cordul egaster erronea	Tiger spiketail	G4	S2		
Condulia shout affi	Arrowhead spiketail	G4	S2		
Cordulia shurtleffi	American emerald Petite emerald	G5 G5	S3 SH		
Dorocordulia lepida Enallagma antennatum	Rainbow bluet	G5 G5	SП S1		
Enallagma aspersum	Azure bluet	G5	S3S4		
Enallagma carunculatum	Tule bluet	G5	SH		
Enallagma daeckii	Attenuated bluet	G4	S3		
Enallagma divagans	Turquoi se bluet	G5	S3S4		
Enallagma doubledayi	Atlantic bluet	G5	SH		
Enallagma dubium	Burgundy bluet	G5	S1		
Enallagma durum	Big bluet	G5	S3		
Enallagma ebrium	Marsh bluet	G5	SH		
Enallagma hageni	Hagen's bluet	G5	S3S4		
Enallagma pallidum	Pale bluet	G4	SH		
Enallagma sulcatum	Golden bluet Slender bluet	G4 G5	SU S3		
Enallagma traviatum Enallagma vesperum	Vesper bluet	G5	S3		
Enallagma weewa	Blackwater bluet	G5	S1		
Epi theca canis	Beaverpond baskettail	G5	S3		
Epitheca costalis	Stripe-winged baskettail	G4	S1		
Epitheca semiaquea	Mantled baskettail	G4	SH		
Epi theca spi nosa	Robust baskettail	G4	S1S2		
Erpetogomphus designatus	Eastern ringtail	G5	S2		
Erythrodiplax minuscula	Little blue dragonlet	G5	S1		
Gomphaeschna antilope	Taper-tailed darner	G4	S2		
Gomphaeschna furcillata	Harlequin darner Spine-crowned clubtail	G5	S3 SH		
Gomphus abbreviatus Gomphus fraternus	Midland clubtail	G3G4 G5	ST S2		
Gomphus lineatifrons	Splendid clubtail	G4	SH		
Gomphus parvidens	Piedmont clubtail	G4	SH		
Gomphus quadricolor	Rapids clubtail	G3G4	S1		
Gomphus rogersi	Sable clubtail	G4	S1	E	
Gomphus vastus	Cobra clubtail	G5	S3		
Gomphus ventricosus	Skillet clubtail	G3	SH		
Gomphus viridifrons	Green-faced clubtail	G3	S1		
Helocordulia selysii	Selys' sunfly	G4	S2		
Helocordulia uhleri	Uhler's sundragon	G5 C5	S3		
Hetaerina americana	American rubyspot	G5	S3S4 SH		
Hetaerina titia Ischnura kellicotti	Smoky rubyspot Lilypad forktail	G5 G5	SH S3S4		
Lanthus parvulus	Northern pygmy clubtail	G5 G4	333 4 S1		
Lanthus vernalis	Southern pygmy clubtail	G4	S1		
Lestes congener	Spotted spreadwing	G5	S3		
Lestes dryas	Emeral d spreadwing	G5	SH		
Lestes eurinus	Amber-winged spreadwing	G4	S3		

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		GLOBAL	STATE	STATE	FEDERAL
SCIENTIFIC NAME	COMMON NAME	RANK	RANK	STATUS	STATUS
Lestes forcipatus	Sweetflag spreadwing	G5	S3		
Lestes unguiculatus	Lyre-tipped spreadwing	G5	SH		
Leucorrhinia glacialis	Crimson-ringed whiteface	G5	S1		
Leucorrhinia hudsonica	Hudsoni an whi teface	G5	S1		
Leucorrhinia intacta	Dot-tailed whiteface	G5	S3		
Libellula auripennis	Golden-winged skimmer	G5	S3		
Libellula axilena	Bar-winged skimmer	G5	S3		
Libellula exusta	White corporal	G4	S1		
Libellula flavida	Yellow-sided skimmer	G5	S2		
Libellula julia	Chalk-fronted skimmer	G5	S2		
Libellula quadrimaculata	Four-spotted skimmer	G5	SA?		
Macromia alleghaniensis	Allegheny river cruiser	G4	S2		
Macromia illinoiensis georgina		G5T5	S3S4		
Macromia taeniolata	Royal river cruiser	G5	S3		
Nannothemis bella	Elfin skimmer	G4	S1		
Nasiaeschna pentacantha	Cyrano darner	G5	S3		
Nehalennia gracilis	Sphagnum sprite	G5	S2		
Nehalennia integricollis	Southern sprite	G5	S1S2		
Nehalennia irene	Sedge sprite	G5	S3		
Neurocordulia obsoleta	Umber shadowdragon	G4	S3		
Neurocordulia virginiensis	Cinnamon shadowdragon	G4	S1		
Neurocordulia yamaskanensis	Stygian shadowdragon	G5	S2		
Ophiogomphus incurvatus	Allegheny snaketail	G3	S2		
Ophiogomphus rupinsulensis	Rusty snaketail	G5	S2		
Progomphus obscurus	Common sanddragon	G5	S3		
Somatochlora elongata	Ski-tailed emerald	G5	S1		
Somatochlora filosa	Fine-lined emerald	G5	S2		
Somatochlora linearis	Mocha emerald	G5	S3S4		
Somatochlora provocans	Treetop emerald	G4	S1		
Somatochlora tenebrosa	Clamp-tipped emerald	G5	S3S4		
Stylogomphus albistylus	Least clubtail	G5	S3S4		
Stylurus amnicola	Riverine clubtail	G4	SH		
Stylurus laurae	Laura's clubtail	G4	S2		
Stylurus notatus	Elusive clubtail	G3	SU		
Stylurus plagiatus	Russet-tipped clubtail	G5	S3		
Stylurus spiniceps	Arrow clubtail	G5	S3		
Sympetrum ambiguum	Blue-faced meadowhawk	G5	S3S4		
Sympetrum janeae	Jane's meadowhawk	G5	SU		
Sympetrum obtrusum	White-faced meadowhawk	G5	S3		
Sympetrum semicinctum	Band-winged meadowhawk	G5	S3		
Tachopteryx thoreyi	Gray petaltail	G4	S2		
Trichontora					
Tri choptera	A coalaric trichenteren	G?	S3		
Hydropsyche brunneipennis	A scalaris trichopteran	G?	33		
FISHES					
Aconthorobus nemetic	Mud cunfich	CE	C2		
Acantharchus pomotis	Mud sunfish	G5	S2	г	LE
Acipenser brevirostrum	Shortnose sturgeon	G3	S1	E	LE
Acipenser oxyrinchus	Atlantic sturgeon	G3	S1	г	
Catostomus catostomus	Longnose sucker	G5	SH	E	
Centrarchus macropterus	Flier	G5	S1S2		
Clinostomus elongatus	Redside dace	G4 G5	SX SRF	T	
Cottus cognatus	Slimy sculpin			ı	
Cottus sp 7	Checkered sculpin	G4Q	S1S2		
Enneacanthus chaetodon	Blackbanded sunfish	G4	S1	I	
Enneacanthus obesus	Banded sunfish	G5 G5	S2 S2		
Etheostoma fusiforme	Swamp darter	G5 G5	S2 S3		
Etheostoma nigrum Etheostoma sellare	Johnny darter Maryland darter	G5 GH	SH	E	LE
Etheostoma vitreum	Glassy darter	Gn G4G5	S1S2	E	LL
Fundulus luciae	Spotfin killifish	G4G5 G4	\$132 \$2?	L	
TunuuTuS TuCTae	Spottili kittitisii	U4	32 !		

April 2001	RARE, THREATENED, AND ENDANGERED ANIMALS OF	MARYLAND GLOBAL	STATE	MD DNR STATE FEDERAL
SCIENTIFIC NAME	COMMON NAME	RANK	RANK	STATUS STATUS
Lampetra appendix Luxilus chrysocephalus Margariscus margarita Notropis amoenus Notropis bifrenatus Notropis chalybaeus Noturus flavus Pararhinichthys bowersi Percina caprodes Percina notogramma Percina pellata Percopsis omiscomaycus	American brook lamprey Striped shiner Pearl dace Comely shiner Bridle shiner Ironcolor shiner Stonecat Cheat minnow Logperch Stripeback darter Shield darter Trout-perch	G4 G5 G5 G5 G4 G5 G1G20 G5 G4 G5	S1S2 S1S2 S1S2 S2 SH S1 S1 SX S1S2 S1 S3 SX	I X E X
AMPHI BI ANS				
Ambystoma jeffersonianum Ambystoma tigrinum Aneides aeneus Cryptobranchus alleganiensis Gastrophryne carolinensis Hyla gratiosa Necturus maculosus Plethodon wehrlei Pseudacris brachyphona Rana virgatipes Siren lacertina	Jefferson salamander Eastern tiger salamander Green salamander Hellbender Eastern narrow-mouthed toad Barking treefrog Mudpuppy Wehrle's salamander Mountain chorus frog Greater siren	G5 G5 G3G4 G4 G5 G5 G5 G5 G5 G5	S3 S2 S2 S1 S1S2 S1 S1 S2 S2 S2 S2 SRF	E E E E X I T
REPTILES				
Apalone spinifera Caretta caretta Cemophora coccinea Chelonia mydas Clemmys muhlenbergii Crotalus horridus Dermochelys coriacea Eretmochelys imbricata Eumeces anthracinus Farancia erytrogramma Graptemys geographica Lepidochelys kempii Nerodia e. erythrogaster Pituophis melanoleucus Virginia valeriae pulchra BIRDS	Eastern spiny softshell Atlantic loggerhead turtle Eastern scarlet snake Atlantic green turtle Bog turtle Timber rattlesnake Atlantic leatherback turtle Atlantic hawksbill turtle Northern coal skink Rainbow snake Map turtle Atlantic ridley turtle Redbelly water snake Northern pine snake Mountain earth snake	G5 G3 G5 G3 G4 G3 G5 G5 G5 G5 G1 G5T5 G4 G5T3T4	S1 S1B S3 S1N S2 S3 S1 SRN SU S1 S1 S1 S1N S2S3 SR S2	I
Accipiter gentilis Accipiter striatus Actitis macularia Aegolius acadicus Aimophila aestivalis Ammodramus caudacutus Ammodramus henslowii Anas discors Anas strepera Asio flammeus Asio otus Bartramia longicauda Botaurus lentiginosus Campephilus principalis Camptorhynchus labradorius	Northern goshawk Sharp-shinned hawk Spotted sandpiper Northern saw-whet owl Bachman's sparrow Saltmarsh sharp-tailed sparrow Henslow's sparrow Blue-winged teal Gadwall Short-eared owl Long-eared owl Upland sandpiper American bittern Ivory-billed woodpecker Labrador duck	G5 G5 G5 G3 G4 G4 G5 G5 G5 G5 G5 G4 GH	\$1B \$1\$2B \$3\$4B \$1B \$1B \$3B \$1B \$2B \$2B \$4B \$4B \$1B \$1\$2B \$3\$3 \$4\$3 \$4\$3 \$4\$3 \$4\$3 \$4\$3 \$4\$3 \$4\$	E X T I E I X LE

Common C	April 2001 RARE	, THREATENED, AND ENDANGERED ANIMALS OF				MD DNR
Carpotacius purpureus Purple finch 65 \$38 Catharus ustulatus Hemit Intrush 65 \$38 Catharus ustulatus Sirainson's thrush 65 \$38 Catharus ustulatus Pip Ing plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Charadrius wil Isonia Wil Son's plover 65 \$38 E IT Chordustes grammacus Camon nighthask 65 \$384 E Chordus consolidation Common nighthask 65 \$384 E Clistothorus platensis Sodge wren 65 \$18 T Contopus copogeri Oil Ves-Sided Flycatcher 64 \$48 E Contropus corons Carolina paraket CX \$X \$X \$X \$X \$X \$X \$X	SCIENTIFIC NAME	COMMON NAME	GLOBAL Rank	STATE Rank	STATE STATUS	FEDERAL STATUS
Carpotacius purpureus Purple finch G5 S38 Catharus ustulatus Hemit Irbursh G5 S38 Catharus ustulatus Swainson's thrush G5 S38 Catharus ustulatus Catharus ustulatu	Caprimul qus voci ferus	Whip-poor-will	G5	S3S4B		
Cathary usual atus			G5	S3B		
Charadrius wil Sonia Wilson's plover G\$ SIB E Choradrius wil Son's plover G\$ SIB E Chordestes grammacus Lark sparrow G\$ SIB E Chordestes grammacus Common righthask G\$ S3548 Chordestes grammacus Common righthask G\$ S3548 Circus cyaneus Northern harrier G\$ S28 Circus cyaneus Northern harrier G\$ S28 Circus cyaneus Sodge wren G\$ SIB E Contonypsis copper Oil ive-sided filycatcher G4 SIB E Controlysis copper Oil ive-sided filycatcher G\$ S18 E Controlysis corporation Common ravon G\$ S2 Common ravon G\$ S2 Common ravon G\$ S2 Common ravon G\$ S3548 Corsus corax Common ravon G\$ S3548 Corsus corax Common ravon G\$ S3548 Corsus corax Corsus corax Common ravon G\$ S3548 Corsus corax Corsus cor		Hermit thrush		S3S4B		
Charadrius wil sonia Wil son's plover C5 SHB E						
Chondestes grammacus						LT
Chordel Is minor Common in githtawk G5 S354B Circus exponens Northern harrier G5 S26B Circus exponens Sedge wron G5 S18 T Contopus cooper Oil ve-sided flycatcher G4 SHB E Contropus carolinens Carolina parakeet GX SX Corovus cororax Common raven G5 S2 Common raven G5 S2 Common raven G5 S2 Common raven G5 S2 Common raven G5 S354B Contropus cororax Common raven G5 S354B Common raven G5		•				
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Corvus					_	
Dendroica cerulea		•				
Dendroi ca fusca	Dendroi ca caerul escens	Black-throated blue warbler	G5	S3S4B		
Dendroi ca magnol i a Magnol i a warbler	Dendroi ca cerul ea	Cerulean warbler	G4	S3S4B		
Ectopistes migratorius					T	
Egretta caerulea		· ·				
Egretta tricolor Tricolored heron 65 S3B Empidonax al norum Alder flycatcher 65 S2B I Empidonax minimus Least flycatcher 65 S384B Fal co peregrinus Peregrine falcon G4 S1B E Gall inula chloropus Common moorhen G5 S3B Halamatopus pall i atus American oystercatcher G5 S3B Halamatopus pall i atus American oystercatcher G5 S3B Halamatopus pall i atus Bald eagle G4 S2S3B T LT Ixobrychus exilis Least bittern G5 S2B T LT Junco hyemalis Least bittern G5 S2B Laughing gull G5 S1B Eatral sup jamicensis Black rail G4 S1B E Larus atricilla Laughing gull G5 S1B E Lateral lus jamaicensis Black rail G4 S1B E Lateral lus jamaicensis Black rail G4 S1B E Lumothylpis swainsonii Swainson's warbler G5		ŭ . ŭ				
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Vermi vora chrysoptera Golden-winged warbler G4 S3B						
Vermivora ruficapilla Nashville warbler G5 S1S2B I	Vermi vora chrysoptera					
	Vermivora ruficapilla	Nashville warbler	G5	S1S2B	I	

April 2001 RARE, THREATENED, AND ENDANGERED ANIMALS OF MARYLAND GLOBAL STATE STA				STATE	MD DNR FEDERAL
SCIENTIFIC NAME	COMMON NAME	RANK	RANK		STATUS
Wilsonia canadensis	Canada warbler	G5	S3B		
MAMMALS					
Balaenoptera borealis	Sei whale	G3	SZN	E	LE
Balaenoptera musculus	Blue whale	G3G4	SZN	Ε	LE
Balaenoptera physalus	Fin whale	G3G4	SZN	E	LE
Bos bison	American bison	G4	SX		
Canis lupus	Gray wolf	G4	SX	Χ	LE
Cervus el aphus	American elk	G5	SX	Χ	
Condylura cristata parva	Southeastern star-nosed mole	G5T4	SU		
Erethizon dorsatum	Porcupi ne	G5	S1S2	1	
Eubalaena glacialis	Black right whale	G1	SZN	E	LE
Lepus americanus	Snowshoe hare	G5	SH	Χ	
Lynx rufus	Bobcat	G5	S3	1	
Martes americana	American marten	G5	SX	Χ	
Megaptera novaeangliae	Humpback whale	G3	SZN	Ε	LE
Microtus chrotorrhinus	Southern rock vole	G4T3	S1	Ε	
carolinensis					
Mustela nivalis	Least weasel	G5	S2S3	1	
Myotis leibii	Eastern small-footed bat	G3	S1B, S2N	1	
Myotis sodalis	Indiana bat	G2	S1B?, S1N	Е	LE
Neotoma magister	Allegheny woodrat	G3G4	S1	Е	
Physeter catodon	Sperm whale	G3G4	SZN	Е	LE
Puma concol or couguar	Eastern cougar	G5TH	SH	Χ	LE
Reithrodontomys humulis	Eastern harvest mouse	G5	SH	Χ	
Sciurus niger cinereus	Delmarva fox squirrel	G5T3	S1	Ε	LE
Sorex dispar	Long-tailed shrew	G4	S2	1	
Sorex fumeus	Smoky shrew	G5	S1S2	T	
Sorex hoyi winnemana	Southern pygmy shrew	G5T4	S2	·	
Sorex longirostris	Southeastern shrew	G5	S3S4		
Sorex palustris punctulatus	Southern water shrew	G5T3	S1	E	
Spilogale putorius	Eastern spotted skunk	G5	S1	_	
Sylvilagus transitionalis	New england cottontail	G4	S1	1	
Synaptomys cooperi	Southern bog Lemming	G5	S3	•	
Ursus americanus	Black Bear	G5	S3S4		
5. 545 dillot i danus	Di doit Dodi	00	0001		

APPENDIX I

CROSS REFERENCE OF ANIMAL SYNONYM NAMES

Synonym Name	Current Name
Anodonta imbecillis	Utterbackia imbecillis
Atypus bicolor	Sphodros rufipes
Cariniocoris nyssae	Lygocoris nyssae
Celithemis monomelaena	Celithemis fasciata
Elliptio angustata	Elliptio lanceolata
Erythrodiplax connata minuscula	Erythrodiplax minuscula
Felis concolor couguar	Puma concolor couguar
Fixsenia favonius ontario	Fixsenia ontario
Gomphus notatus	Stylurus notatus
Hermeuptychia hermes	Hermeuptychia sosybius
Macrocotyla hoffmasteri	Sphalloplana hoffmasteri
Mesodon sayanus	Appalachina sayana
Scymnus gordoni	Nephus gordoni
Sylvilagus obscurus	Sylvilagus transitionalis
Triodopsis multilineata	Webbhelix multilineata

APPPENDIX II

ANIMAL SPECIES UNDER REVIEW FOR INCLUSION ON LIST

SCIENTIFIC NAME	COMMON NAME	GLOBAL Rank	STATE RANK	STATE STATUS	FEDERAL STATUS
MOLLUSKS					
Allogona profunda Appalachina sayana Gastrocopta corticaria Glyphyalinia picea Paravitrea multidentata	Broad-banded forestsnail Spike-lip crater Bark snaggletooth Rust glyph Dentate supercoil	G5 G4G5 G4G5 G3 G4G5	SU SU SU SU SU		
Stenotrema Vertigo gouldi Vitrina angelicae	Inland slitmouth Variable vertigo Eastern glass-snail	G5 G4G5 G?	SU SU SU		
CRUSTACEANS					
Eulimnadia diversa	A clam shrimp	G5	SU		
INSECTS					
<u>Coleoptera</u> Agabetes acuductus	A hydrophylid beetle	G?	S?		
Cyphon sp 1 Diabrotica cristata	A water beetle A chrysomelid beetle	G? G?	S? S?		
Eutochia picea	A tenebrionid beetle	G?	S?		
Helocombus bifidus	A hydrophylid beetle	G?	S?		
Helops cisteloides	A tenebrionid beetle	G?	S?		
Hydroporus deflatus Polypleurus perforatus	A dystiscid beetle A tenebrionid beetle	G? G?	S? S?		
Schoeni cus puberul us	A tenebrionid beetle	G?	S?		
<u>Diptera</u> Wyeomyia haynei	A mosquito	G4	S?		
<u>Heteroptera</u>					
Chi naola querci cola	A microphysid bug	G?	S?		
Hesperophyl um hei demanni	A plant bug	G?	S?		
Lygocoris nyssae	A mirid bug	G?	S?		
<u>Hymenoptera</u>					
Proceratium croceum	A formicid ant	G?	S?		
<u>Lepidoptera - Butterflies</u>		0=			
Atrytone logan	Delaware skipper	G5	S4		
Atrytonopsis hianna Chlosyne nycteis	Dusted skipper Silvery checkerspot	G4G5 G5	S4 S4		
Hesperia leonardus	Leonard's skipper	G4	S4		
Hesperia metea	Cobweb skipper	G4G5	S3		
Phyci odes cocyta	Northern crescent	G5	SP		
Pieris virginiensis	West virginia white	G3G4	S3		
Polygonia progne	Gray comma	G5	S1S3		
Thorybes confusis	Confused cloudywing	G4	SU		
<u>Lepidoptera - Moths</u>	A manufact di madi	00	60		
Anacamptodes pergracilis	A geometrid moth	G?	S?		
Anisota stigma Anomogyna elimata	Spiny oakworm Southern variable dart moth	G5 G5	S4 S5		
Thomogyna Cirmata	Southern variable dalt moth	00	55		

GLOBAL STATE SCIENTIFIC NAME	STATE COMMON NAME	FEDERAL Rank	RANK	STATUS	STATUS
Argyrostrotis quadrifilaris	Four-lined chocolate moth	G4	S?		
Artace cribraria	A lasiocampid moth A moth	G5 G4	S5 S4		
Caripeta aretaria Cisthene packardii	Packard's lichen moth	G4 G5	S5		
Erastria coloraria	Broad-lined catopyrrha	G5 G4	SH		
Euxoa immixta	A noctuid moth	G4 G4	S?		
Hemeroplanis scopulepes	Variable tropic moth	G5	S?		
Hemileuca maia	The buckmoth	G5	S4		
Holomelina immaculata	Plain-winged holomelina	G?	S?		
Holomelina laeta	Joyful holomelina moth	G5	S1?		
Hypagyrtis esther	Esther moth	G5	S5		
Idaea eremiata	A geometrid moth	G4	S1?		
Lagoa crispata	Black-waved flannel moth	G5	SU		
Li thophane lemmeri	Lemmer's noctuid moth	G3G4	S?		
Macrochilo hypocritalis	A noctuid moth	G4	S4?		
Metaxaglaea semitaria	Footpath sallow moth	G5	S4		
Pachypolia atricornis	Three-horned moth	G3G4	SH		
Papai pema araliae	Aralia shoot borer moth	G3G4	S?		
Papai pema margi ni dens	A borer moth	G4	S4		
Parapema buffaloensis	A noctuid moth	G?	S?		
Ptichodis bistrigata	Southern ptichodis	G3	S?		
Ptichodis herbarum	Common ptichodis	G4	S?		
Renia nemoralis	A noctuid moth	G4	S1S3		
Rhodoecia aurantiago	Aureolaria seed borer	G4	S?		
Semiothisa aequiferaria	A geometrid moth	G?	S?		
Xylotype capax	Barrens xylotype	G4	SU		
Zale curema	A noctuid moth	G3G4	S1?		
Zale squamularis	A noctuid moth	G4	SU		
Zale submediana	A noctuid moth	G4	S1S3		
Zanclognatha martha	Pine barrens zanclognatha	G4	S1S3		
<u>Odonata</u>		0=			
Somatochlora linearis	Mocha emerald	G5	S?		
<u>Pl ecoptera</u>	A what was have a	0.5	60		
Allocapnia wrayi	A plecopteran	G5	S?		
FISHES					
Alosa mediocris	Hickory shad	G5	S3		
Alosa sapidissima	American shad	G5	S3		
Amei urus catus	White catfish	G5	SU		
Amia calva	Bowfin	G5	S1?		
Lepisosteum osseus	Longnose gar	G5	S2?		
Lepomis gulosus	Warmouth	G5	S2S3?		
AMPHI BI ANS					
Pseudotri ton montanus	Mud salamander	G5	S2?		
REPTILES					
Clemmys insculpta	Wood turtle	G4	S4		
Elaphe guttata	Corn snake	G5	S4		
Eumeces laticeps	Broadhead skink	G5	S4		
Malaclemys terrapin	Diamondback terrapin	G4	S4		
Regina septemvittata	Queen snake	G5	S5		
Thamnophis sauritus	Eastern ribbon snake	G5	S5		
·					

GLOBAL STATE SCIENTIFIC NAME	STATE COMMON NAME	FEDERAL Rank	RANK	STATUS	STATUS
BIRDS					
Dendroica virens waynei	Wayne's black-throated green warbler	G5TU	SUB		
MAMMALS					
Corynorhi nus rafi nesqui i	Rafinesque's big-eared bat	G3G4	SP		

APPENDIX III

EXPLANATION OF GLOBAL AND STATE SPECIES RANKS

Originally developed and instituted by The Nature Conservancy, an international conservation organization, the global and state ranking system is used by all 50 state Natural Heritage Programs and numerous Conservation Data Centers in other countries in this hemisphere. Because they are assigned based upon standard criteria, the ranks can be used to assess the range-wide status of a species as well as the status within portions of the species' range. The primary criterion used to define these ranks are the number of known distinct occurrences with consideration given to the total number of individuals at each locality. Additional factors considered include the current level of protection, the types and degree of threats, ecological vulnerability, and population trends. Global and state ranks are used in combination to set inventory, protection, and management priorities for species both at the state as well as regional level.

GLOBAL RANK

- G1 Highly globally rare. Critically imperiled globally because of extreme rarity (typically 5 or fewer estimated occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
- G2 Globally rare. Imperiled globally because of rarity (typically 6 to 20 estimated occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
- G3 Either very rare and local throughout its range or distributed locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; typically with 21 to 100 estimated occurrences.
- G4 Apparently secure globally, although it may be quite rare in parts of its range, especially at the periphery.
- G5 Demonstrably secure globally, although it may be quite rare in parts of its range, especially at the periphery.
- GH No known extant occurrences (i.e., formerly part of the established biota, with the expectation that it may be rediscovered).
- GU Possibly in peril range-wide, but its status is uncertain; more information is needed.
- GX Believed to be extinct throughout its range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered.
- G? The species has not yet been ranked.
- _Q Species containing a "Q" in the rank indicates that the taxon is of questionable or uncertain taxonomic standing (i.e., some taxonomists regard it as a full species, while others treat it at an infraspecific level).
- T Ranks containing a "T" indicate that the infraspecific taxon is being ranked differently than the full species.

STATE RANK

- S1 Highly State rare. Critically imperiled in Maryland because of extreme rarity (typically 5 or fewer estimated occurrences or very few remaining individuals or acres in the State) or because of some factor(s) making it especially vulnerable to extirpation. Species with this rank are actively tracked by the Wildlife and Heritage Division.
- State rare. Imperiled in Maryland because of rarity (typically 6 to 20 estimated occurrences or few remaining individuals or acres in the State) or because of some factor(s) making it vulnerable to becoming extirpated. Species with this rank are actively tracked by the Wildlife and Heritage Division.
- S3 Watch List. Rare to uncommon with the number of occurrences typically in the range of 21 to 100 in Maryland. It may have fewer occurrences but with a large number of individuals in some populations, and it may be susceptible to large-scale disturbances. Species with this rank are not actively tracked by the Wildlife and Heritage Division.
- S3.1 A "Watch List" species that is actively tracked by the Wildlife and Heritage Division because of the global significance of Maryland occurrences. For instance, a G3 S3 species is globally rare to uncommon, and although it may not be currently threatened with extirpation in Maryland, its occurrences in Maryland may be critical to the long term security of the species. Therefore, its status in the State is being monitored.
- S4 Apparently secure in Maryland with typically more than 100 occurrences in the State or may have fewer occurrences if they contain large numbers of individuals. It is apparently secure under present conditions, although it may be restricted to only a portion of the State.
- S5 Demonstrably secure in Maryland under present conditions.
- SA Accidental or a vagrant in Maryland.
- SE Established, but not native to Maryland; it may be native elsewhere in North America.
- SH Historically known from Maryland, but not verified for an extended period (usually 20 or more years), with the expectation that it may be rediscovered.
- SP Potentially occurring in Maryland or likely to have occurred in Maryland (but without persuasive documentation).
- SR Reported from Maryland, but without persuasive documentation that would provide a basis for either accepting or rejecting the report (e.g., no voucher specimen exists).
- SRF Reported falsely (in error) from Maryland, and the error may persist in the literature.
- SU Possibly rare in Maryland, but of uncertain status for reasons including lack of historical records, low search effort, cryptic nature of the species, or concerns that the species may not be native to the State. Uncertainty spans a range of 4 or 5 ranks as defined above.
- SX Believed to be extirpated in Maryland with virtually no chance of rediscovery.
- SZ The species would not substantially benefit from protection efforts at a given location in Maryland because of its transitory nature.
- S? The species has not yet been ranked.

STATE RANK (cont.)

- _B A qualifier at the end of a rank. This species is a migrant and the subrank refers only to the breeding status of the species in Maryland. This species may have a different subrank for non-breeding populations.
- _N A qualifier at the end of a rank. This species is a migrant and the subrank refers only to the nonbreeding status of the species in Maryland. This species may have a different subrank for breeding populations.

STATE STATUS

This is the status of a species as determined by the Maryland Department of Natural Resources, in accordance with the Nongame and Endangered Species Conservation Act. Definitions for the following categories have been taken from Code of Maryland Regulations (COMAR) 08.03.08.

- Endangered; a species whose continued existence as a viable component of the State's flora or fauna is determined to be in jeopardy.
- In Need of Conservation; an animal species whose population is limited or declining in the State such that it may become threatened in the foreseeable future if current trends or conditions persist.
- Threatened; a species of flora or fauna which appears likely, within the foreseeable future, to become endangered in the State.
- X Endangered Extirpated; a species that was once a viable component of the flora or fauna of the State, but for which no naturally occurring populations are known to exist in the State.
- * A qualifier denoting the species is listed in a limited geographic area only.

FEDERAL STATUS

This is the status of a species as determined by the U.S. Fish and Wildlife Service's Office of Endangered Species, in accordance with the Endangered Species Act. Definitions for the following categories have been modified from 50 CRF 17.

- LE Taxa listed as endangered; in danger of extinction throughout all or a significant portion of their range.
- LT Taxa listed as threatened; likely to become endangered within the foreseeable future throughout all or a significant portion of their range.
- PE Taxa proposed to be listed as endangered.
- PT Taxa proposed to be listed as threatened.
- C Candidate taxa for listing for which the Service has on file enough substantial information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened.