

Rare, Threatened, and Endangered Animals of Maryland

April 2010



**Maryland Wildlife and Heritage Service
Natural Heritage Program**



Tawes State Office Building
580 Taylor Ave., Suite E-1
Annapolis, MD 21401 (410) 260-8563

ACKNOWLEDGMENTS

The Maryland Department of Natural Resources would like to express sincere appreciation to the many scientists and naturalists who willingly share information and provide their expertise to further our mission of conserving Maryland's diminishing natural heritage.

Publication of this report was made possible by taxpayer donations to Maryland's Chesapeake Bay and Endangered Species Fund.

Cover photo: Eastern Tiger Salamander (*Ambystoma tigrinum*) © Jim White

Suggested citation:

Maryland Natural Heritage Program. 2010. Rare, Threatened and Endangered Animals of Maryland. April 2010 edition. Maryland Department of Natural Resources, Wildlife and Heritage Service, Annapolis, Maryland.

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April 5, 2010

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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 that are candidates for listing on the Federal list of Endangered and Threatened Wildlife and Animals, species currently on the State's Threatened and Endangered Species List, and additional species that are considered rare by the Maryland Wildlife and Heritage Service. 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 Natural Heritage Program staff, this list of rare species is a result of 30 years of data gathering from numerous sources, such as museums and private collections, scientific literature, unpublished documents, reports from biologists and amateur naturalists, and field work conducted by scientists from the Department of Natural Resources (DNR). The original version of this list was included in DNR's 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 Service biologists and other researchers have located species which were previously unrecorded for the State and have discovered that some species are scarcer 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 Service biologists 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 list of rare, threatened, and endangered animals is arranged phylogenetically with invertebrate groups listed before vertebrate groups. Within each 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 Service 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 indicates the species' legal status on the State Threatened and Endangered Species List. The last column shows the Federal legal 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 below. At the end of the list is a series of four Appendices. **Appendix I** contains a summary of the changes to state ranks and statuses since the last time this list was published. Because taxonomists periodically update scientific names, a partial list of synonym names is included as a cross reference in **Appendix II**. The names used in this publication might not reflect the most recently published taxonomic changes or standards. Species currently under consideration for inclusion on the list appear in **Appendix III**. **Appendix IV** contains a list of species with unusual, non-standard ranks and has been provided to clarify their current conservation status in Maryland. Natural Heritage Program biologists welcome any information on the status and location of the species in Appendices III and IV from all interested parties.

EXPLANATION OF SPECIES RANK AND STATUS CODES

GLOBAL AND STATE RANKS

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 is 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 Service.
- S2 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 Service.
- 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 Service.
- S3.1 A "Watch List" species that is actively tracked by the Wildlife and Heritage Service 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.
- SNA Species is not a suitable conservation target
- 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.
- S? The species has not yet been ranked.
- _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 non-breeding status of the species in Maryland. This species may have a different subrank for breeding populations.

STATE STATUS

State status is the legal protection 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.

- E Endangered; a species whose continued existence as a viable component of the State's flora or fauna is determined to be in jeopardy.
- T Threatened; a species of flora or fauna that appears likely, within the foreseeable future, to become endangered in the State.
- I 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.
- 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

Federal Status is the legal protection 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 CFR 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.

ADDITIONAL RESOURCES AND INFORMATION

The U.S. Fish and Wildlife Service's Office of Endangered Species publishes a list of federally-designated threatened and endangered species, as well as those species considered to be candidates for official listing. Copies of the U.S. Department of Interior's booklets, Endangered and Threatened Wildlife and Plants (50 CFR 17.11 & 17.12), can be obtained from the Publication Unit, U.S. Fish and Wildlife Service, Washington, DC 20240 or viewed at <http://www.fws.gov/endangered/wildlife.html>. In addition, NatureServe Explorer (<http://www.natureserve.org/explorer/>) provides information on the global, national, and state conservation ranks and statuses of over 70,000 plants and animals.

The Maryland 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, Annapolis, MD 21401 or by visiting their website at <http://dnr.maryland.gov/fisheries/>.

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 Natural Heritage Program at the address shown above or visit their website at <http://www.dnr.maryland.gov/wildlife/nhpintro.asp>.

SUBMITTING INFORMATION ON RARE, THREATENED, AND ENDANGERED SPECIES

The Wildlife and Heritage Service 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 Service with the following types of information:

1. Location (exact mapped location, if possible) and population size/vigor information for any species on the Program's rare, threatened, and endangered species list, including historical information.
2. Data indicating that a species should be assigned a different state rank or status.
3. Nominations of additional rare species to be included on the list or of species that should be 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 Service along with a location map. You can also send an e-mail message to Peter Stango, Natural Heritage Information Manager, at pstango@dnr.state.md.us.

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
<u>PLANARIANS</u>					
Macrocotyla hoffmasteri	Hoffmaster's Cave Planarian	G3G4	S1	E	
Phagocata virilis	A Planarian	GNR	S1		
Planaria dactyligera	A Planarian	GNR	S2		
Procotyla typhlops	A Planarian	G1G2	S1	E	
Sphalloplana sp. 1	A Planarian	GNR	S1S2		
<u>MOLLUSKS</u>					
Alasmidonta heterodon	Dwarf Wedge Mussel	G1G2	S1	E	LE
Alasmidonta undulata	Triangle Floater	G4	S1	E	
Alasmidonta varicosa	Brook Floater	G3	S1	E	
Anodonta implicata	Alewite Floater	G5	S3		
Discus catskillensis	Angular Disc	G5	S1		
Elliptio fisheriana	Northern Lance	G4	S3		
Elliptio lanceolata	Yellow Lance	G2G3	SU		
Elliptio producta	Atlantic Spike	G3Q	S2	I	
Fontigens bottimeri	Appalachian Spring Snail	G2	S2		
Fontigens orolibas	Blue Ridge Spring Snail	G3	S1	E	
Glyphyalinia raderi	Rader's Snail (Maryland Glyph)*	G2	SH	X	
Hendersonia occulta	Cherrydrop Snail (Cherrystone Drop)*	G4	S2	I	
Lampsilis cariosa	Yellow Lampmussel	G3G4	SU		
Lampsilis radiata	Eastern Lampmussel	G5	SU		
Lasmigona subviridis	Green Floater	G3	S1	E	
Leptodea ochracea	Tidewater Mucket	G3G4	S1S2		
Ligumia nasuta	Eastern Pondmussel	G4	S1S2		
Stenotrema simile	Bear Creek Slitmouth	G2	SU		
Strophitus undulatus	Squawfoot (Creeper)*	G5	S2	I	
Triodopsis picea	Spruce Knob Threetooth	G3	S1		
Utterbackia imbecillis	Paper Pondshell	G5	S3		
Vertigo ventricosa	Five-tooth Vertigo	G5	SU		
Webbhelix multilineata	Striped Whitelip	G5	S1		
<u>CRUSTACEANS</u>					
Ankylocythere tridentata	An Entocytherid Ostracod	GNR	SH		
Attheyella spinipes	A Harpacticoid Copepod	GNR	SU		
Caecidotea franzi	Franz's Cave Isopod	G2G4	S1	E	
Caecidotea mausi	Maus' Isopod	G3	S1	E	
Caecidotea pricei	Price's Cave Isopod	G5	S3		
Caecidotea sp. 1	An Isopod	G1	S1		
Caecidotea sp. 2	An Isopod	GNR	S1		
Caecidotea sp. 4	An Isopod	GNR	S1		
Caecidotea sp. 5	John Friend Cave Isopod	GNR	S1		
Caecidotea sp. 6	An Isopod	GNR	S2		
Cambarus acuminatus	Acuminate Crayfish	G4Q	S3		
Crangonyx dearolfi	Dearolf's Cave Amphipod	G2	S1	E	
Dactylocythere scotos	An Entocytherid Ostracod	GNR	S1		

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<u>CRUSTACEANS (cont.)</u>					
<i>Diacyclops palustris</i>	A Cyclopoid Copepod	GNR	SU		
<i>Orconectes obscurus</i>	A Crayfish	G5	S3		
<i>Stygobromus allegheniensis</i>	Allegheny Cave Amphipod	G5	S2S3	I	
<i>Stygobromus biggersi</i>	Biggers' Cave Amphipod	G2G4	S1	E	
<i>Stygobromus emarginatus</i>	Greenbrier Cave Amphipod	G3	S1	E	
<i>Stygobromus franzi</i>	Franz's Cave Amphipod	G3G4	S2S3	I	
<i>Stygobromus gracilipes</i>	Shenandoah Cave Amphipod	G3G4	S1	E	
<i>Stygobromus indentatus</i>	Tidewater Amphipod	G3	S1		
<i>Stygobromus kenki</i>	Rock Creek Groundwater Amphipod	G2G3	S1	E	
<i>Stygobromus pizzinii</i>	Pizzini's Cave Amphipod	G3G4	S1		
<i>Stygobromus sextarius</i>	A groundwater amphipod	GNR	S1	E	
<i>Stygobromus</i> sp. 5	Barrelville Amphipod	GNR	S1		
<i>Stygobromus</i> sp. 6	Devil's Hole Cave Amphipod	GNR	S1		
<i>Stygobromus</i> sp. 14	Roundtop Amphipod	GNR	S1		
<i>Stygobromus tenuis potomacus</i>	Potomac Stygobromid	G4T4	S3		
<i>Stygobromus tenuis tenuis</i>	Slender Stygobromid	G4T4	SU		

SPIDERS

<i>Oreonetides</i> sp. 1	Snivelys Cave Spider	GNR	SU		
<i>Porrhomma cavernicola</i>	Appalachian Cave Spider	G5	S2		
<i>Sphodros rufipes</i>	Red-legged Purse-web Spider	G4	S1S2		

INSECTS

Collembola

<i>Arrhopalites</i> sp. 1	Crabtree Cave Springtail	GNR	SU		
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Ephemeroptera

<i>Anthopotamus verticis</i>	Walker's Tusked Sprawler	G5	SU		
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Odonata

<i>Aeshna canadensis</i>	Canada Darner	G5	S2		
<i>Aeshna constricta</i>	Lance-tipped Darner	G5	SH		
<i>Aeshna tuberculifera</i>	Black-tipped Darner	G4	S2		
<i>Aeshna verticalis</i>	Green-striped Darner	G5	S2		
<i>Amphiagrion saucium</i>	Eastern Red Damsel	G5	S3S4		
<i>Anax longipes</i>	Comet Darner	G5	S3		
<i>Archilestes grandis</i>	Great Spreadwing	G5	S3		
<i>Argia bipunctulata</i>	Seepage Dancer	G4	S3		
<i>Argia sedula</i>	Blue-ringed Dancer	G5	S3		
<i>Boyeria grafiana</i>	Ocellated Darner	G5	S1		

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Odonata (cont.)					
Brachymesia gravida	Four-spotted Pennant	G5	S3S4		
Calopteryx amata	Superb Jewelwing	G4	S1S2	T	
Calopteryx angustipennis	Appalachian Jewelwing	G4	S1S2		
Calopteryx dimidiata	Sparkling Jewelwing	G5	S2		
Celithemis fasciata	Banded Pennant	G5	S3		
Celithemis martha	Martha's Pennant	G4	S1		
Celithemis ornata	Faded Pennant	G5	SH		
Celithemis verna	Double-ringed Pennant	G5	S2		
Chromagrion conditum	Aurora Damsel	G5	S3S4		
Cordulegaster bilineata	Brown Spiketail	G5	S3		
Cordulegaster diastatops	Delta-spotted Spiketail	G5	S3S4		
Cordulegaster erronea	Tiger Spiketail	G4	S3		
Cordulegaster obliqua	Arrowhead Spiketail	G4	S2		
Cordulegaster obliqua fasciata	Banded Spiketail	G4T3Q	S1		
Cordulia shurtleffii	American Emerald	G5	S3		
Dorocordulia lepida	Petite Emerald	G5	SH		
Enallagma annexum	Northern Bluet	G5	S1		
Enallagma antennatum	Rainbow Bluet	G5	S1		
Enallagma carunculatum	Tule Bluet	G5	S1		
Enallagma daeckii	Attenuated Bluet	G4	S3		
Enallagma divagans	Turquoise Bluet	G5	S3S4		
Enallagma doubledayi	Atlantic Bluet	G5	S1		
Enallagma dubium	Burgundy Bluet	G5	S1		
Enallagma durum	Big Bluet	G5	S3		
Enallagma ebrium	Marsh Bluet	G5	SH		
Enallagma pallidum	Pale Bluet	G4	S1		
Enallagma traviatum	Slender Bluet	G5	S3		
Enallagma vesperum	Vesper Bluet	G5	S3		
Enallagma weewa	Blackwater Bluet	G5	S2		
Epithea canis	Beaverpond Baskettail	G5	S3		
Epithea costalis	Slender Baskettail	G5	S1		
Epithea semiaquea	Mantled Baskettail	G5	SH		
Epithea spinosa	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	G5	S3S4		
Gomphus abbreviatus	Spine-crowned Clubtail	G3G4	S1		
Gomphus adelphus	Mustached Clubtail	G4	S1		
Gomphus descriptus	Harpoon Clubtail	G4	S1S2		
Gomphus fraternus	Midland Clubtail	G5	S2		
Gomphus lineatifrons	Splendid Clubtail	G4	S1		
Gomphus parvidens	Piedmont Clubtail	G4	SH	X	
Gomphus quadricolor	Rapids Clubtail	G3G4	S2	I	
Gomphus rogersi	Sable Clubtail	G4	S2	I	
Gomphus ventricosus	Skillet Clubtail	G3	SH	X	
Gomphus viridifrons	Green-faced Clubtail	G3G4	S1		
Helocordulia selysii	Selys' Sunfly	G4	S2	T	

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
Odonata (cont.)					
Helocordulia uhleri	Uhler's Sundragon	G5	S3		
Hetaerina titia	Smoky Rubyspot	G5	SH		
Ischnura kellicotti	Lilypad Forktail	G5	S3S4		
Ischnura prognata	Furtive Forktail	G4	S1		
Ladona exusta	White Corporal	G4	S1	E	
Ladona julia	Chalk-fronted Skimmer	G5	S3		
Lanthus parvulus	Northern Pygmy Clubtail	G4	S2		
Lanthus vernalis	Southern Pygmy Clubtail	G4	S2		
Lestes congener	Spotted Spreadwing	G5	S3		
Lestes dryas	Emerald Spreadwing	G5	SH		
Lestes eurinus	Amber-winged Spreadwing	G4	S3		
Lestes forcipatus	Sweetflag Spreadwing	G5	S3		
Lestes unguiculatus	Lyre-tipped Spreadwing	G5	SH		
Leucorrhinia frigida	Frosted Whiteface	G5	S1		
Leucorrhinia glacialis	Crimson-ringed Whiteface	G5	S1		
Leucorrhinia hudsonica	Hudsonian Whiteface	G5	S1		
Leucorrhinia intacta	Dot-tailed Whiteface	G5	S3		
Libellula auripennis	Golden-winged Skimmer	G5	S3		
Libellula axilena	Bar-winged Skimmer	G5	S3		
Libellula flavida	Yellow-sided Skimmer	G5	S2S3		
Macromia alleghaniensis	Allegheny River Cruiser	G4	S2		
Macromia illinoiensis georgina	Georgia River Cruiser	G5T5	S3S4		
Macromia taeniolata	Royal River Cruiser	G5	S3		
Nannothemis bella	Elfin Skimmer	G4	S1	E	
Nasiaeschna pentacantha	Cyrano Darner	G5	S3S4		
Nehalennia gracilis	Sphagnum Sprite	G5	S2		
Nehalennia integricollis	Southern Sprite	G5	S1S2		
Nehalennia irene	Sedge Sprite	G5	S3		
Neurocordulia obsoleta	Umber Shadowdragon	G5	S3		
Neurocordulia yamaskanensis	Stygian Shadowdragon	G5	S3		
Ophiogomphus incurvatus incurvatus	Appalachian Snaketail	G3T2T3	S1	E	
Ophiogomphus mainensis fastigiatus	Maine Snaketail	G4TU	S1		
Ophiogomphus rupinsulensis	Rusty Snaketail	G5	S2		
Ophiogomphus sp. 1	Chesapeake Snaketail	G1	S1		
Progomphus obscurus	Common Sanddragon	G5	S3		
Rhionaeschna mutata	Spatterdock Darner	G4	S1	E	
Somatochlora elongata	Ski-tailed Emerald	G5	S2		
Somatochlora filosa	Fine-lined Emerald	G5	S2		
Somatochlora linearis	Mocha Emerald	G5	S3S4		
Somatochlora provocans	Treetop Emerald	G4	S1	E	
Somatochlora walshii	Brush-tipped Emerald	G5	S1		
Stylurus amnicola	Riverine Clubtail	G4	SH	X	
Stylurus laurae	Laura's Clubtail	G4	S2S3		
Stylurus plagiatus	Russet-tipped Clubtail	G5	S3		
Stylurus scudderi	Zebra Clubtail	G4	S1		
Stylurus spiniceps	Arrow Clubtail	G5	S3		
Sympetrum ambiguum	Blue-faced Meadowhawk	G5	S3S4		
Sympetrum obtrusum	White-faced Meadowhawk	G5	S3		

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
Odonata (cont.)					
<i>Sympetrum semicinctum</i>	Band-winged Meadowhawk	G5	S3		
<i>Tachopteryx thoreyi</i>	Gray Petaltail	G4	S3		
<i>Telebasis byersi</i>	Duckweed Firetail	G5	S1		
Homoptera					
<i>Chlorotettix</i> sp. 1	A Cicadellid Leafhopper	GNR	SU		
<i>Limotettix minuendus</i>	Eastern Sedge Barrens Planthopper (Eastern Sedge Barrens Leafhopper)*	G1	S1	E	
Coleoptera					
<i>Cicindela abdominalis</i>	A Tiger Beetle	G3G4	S1	E	
<i>Cicindela ancocisconensis</i>	A Tiger Beetle	G3	S1	E	
<i>Cicindela dorsalis dorsalis</i>	Northeastern Beach Tiger Beetle	G4T2	S1	E	LT
<i>Cicindela dorsalis media</i>	White Tiger Beetle	G4T3T4	S1	E	
<i>Cicindela formosa</i>	Big Sand Tiger Beetle	G5	SU		
<i>Cicindela lepida</i>	Little White Tiger Beetle	G3G4	S1	E	
<i>Cicindela patruela</i>	Green-patterned Tiger Beetle	G3	S1	E	
<i>Cicindela puritana</i>	Puritan Tiger Beetle	G1G2	S1S2	E	LT
<i>Cicindela purpurea</i>	Cow Path Tiger Beetle	G5	S3		
<i>Cicindela scutellaris</i>	Festive Tiger Beetle	G5	S3		
<i>Cicindela splendida</i>	Splendid Tiger Beetle	G5	S1		
<i>Cicindela unipunctata</i>	One-spotted Tiger Beetle	G4G5	S3		
<i>Dryobius sexnotatus</i>	Six-banded Longhorn Beetle	GNR	S1	E	
<i>Helops cisteloides</i>	A Tenebrionid Beetle	GNR	S1	E	
<i>Hoperius planatus</i>	A Dytiscid Beetle	GNR	S2		
<i>Hydrochara occultus</i>	A Hydrophilid Beetle	GNR	SU		
<i>Hydrochus spangleri</i>	Seth Forest Water Scavenger Beetle	G1	S1	E	
<i>Hydrocolus deflatus</i>	A predaceous diving beetle	GNR	S?		
<i>Laccophilus schwarzi</i>	Schwarz' Diving Beetle	GNR	SX		
<i>Lucanus elephus</i>	Giant Stag Beetle	G3G5	SU		
<i>Nephus gordonii</i>	A Coccinellid Beetle	GNR	SU		
<i>Nicrophorus americanus</i>	American Burying Beetle	G2G3	SX	X	LE
<i>Pseudanophthalmus</i> sp. 15	Maryland Cave Beetle	G1	S1		
<i>Schoenicus puberulus</i>	A Tenebrionid Beetle	GNR	S1	E	
<i>Sperchopsis tessellatus</i>	A Hydrophilid Beetle	GNR	S2		
Trichoptera					
<i>Hydropsyche brunneipennis</i>	A Scalaris Trichopteran	G3G4	S3		

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
Lepidoptera – Butterflies					
Amblyscirtes hegon	Pepper-and-salt Skipper	G4	S2	I	
Atlides halesus	Great Purple Hairstreak	G4G5	S1S2	T	
Autochton cellus	Golden-banded Skipper	G4	SH	X	
Boloria selene	Silver-bordered Fritillary	G5	S3		
Calephelis borealis	Northern Metalmark	G3G4	S2	T	
Callophrys hesseli	Hessel's Hairstreak	G3G4	SH	X	
Callophrys irus	Frosted Elfin	G3	S1	E	
Callophrys polios	Hoary Elfin	G5	S1	E	
Celastrina neglectamajor	Appalachian Blue	G4	S3S4		
Celastrina nigra	Dusky Azure	G4	SH	X	
Chlosyne harrisii	Harris' Checkerspot	G4	S2	T	
Colias interior	Pink-edged Sulphur	G5	S1		
Erora laeta	Early Hairstreak	GU	S1	E	
Erynnis martialis	Mottled Duskywing	G3	S1	E	
Euchloe olympia	Olympia Marble	G4G5	S2	I	
Euphydryas phaeton	Baltimore Checkerspot	G4	S2		
Euphyes bimacula	Two-spotted Skipper	G4	S1	E	
Euphyes dion	Dion Skipper	G4	S3		
Glaucopsyche lygdamus	Silvery Blue	G5	S2	I	
Hermeuptychia sosybius	Carolina Satyr	G5	S1S3		
Hesperia sassacus	Indian Skipper	G4G5	S3		
Lycaena epixanthe	Bog Copper	G4G5	S1	E	
Nymphalis vau-album	Compton Tortoiseshell	G5	S1B	E	
Papilio cressphontes	Giant Swallowtail	G5	S2	I	
Papilio palamedes	Palamedes Swallowtail	G4	S1	E	
Phyciodes batesii	Tawny Crescent	G4	SH	X	
Pieris virginianensis	West Virginia White	G3G4	S1S2		
Poanes massasoit chermocki	Chermock's Mulberry Wing	G4T1	S1	E	
Polites mystic	Long Dash	G5	S3		
Problema bulenta	Rare Skipper	G2G3	S1	T	
Pyrgus wyandot	Grizzled Skipper	G1G2Q	S1	E	
Satyrion caryaevorus	Hickory Hairstreak	G4	S1	E	
Satyrion edwardsii	Edwards' Hairstreak	G4	S1	E	
Satyrion favonius ontario	Northern Oak hairstreak	G4T4	S1S2	E	
Satyrion kingi	King's Hairstreak	G3G4	S1	E	
Speyeria atlantis	Atlantis Fritillary	G5	S1	T	
Speyeria idalia	Regal Fritillary	G3	SH	X	

Lepidoptera – Moths

Agnorisma bollii	A Noctuid Moth	G4?	SU		
Apamea apamiformis	A Noctuid Moth	G4	S2S3		
Apamea mixta	A Noctuid Moth	GU	S1		
Apamea plutonia	A Noctuid Moth	G4	SU		
Capis curvata	A Noctuid Moth	G4	S1S2		
Catocala marmorata	Marbled Underwing	G3G4	SH		
Catocala pretiosa pretiosa	Precious Underwing	G4T2	SH		

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
Lepidoptera – Moths (cont.)					
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		
Isoparce cupressi	Cypress Sphinx Moth	G4	S1S2		
Lytrosis sinuosa	Sinuuous Lytrosis	G4	S1S3		
Meropleon titan	A Noctuid Moth	G2G4	S2S4		
Papaipema duovata	Seaside Goldenrod Stem Borer	G4	SU		
Papaipema polymniae	Polymnia Stalk Borer	G4	SH		
Sphinx franckii	Franck's Sphinx	G4	S1S2		
Diptera					
Wyeomyia smithii	Pitcher-plant Mosquito	G5	S2		
<u>FISHES</u>					
Acantharchus pomotis	Mud Sunfish	G5	S2	I	
Acipenser brevirostrum	Shortnose Sturgeon	G3	S1	E	LE
Acipenser oxyrinchus	Atlantic Sturgeon	G3	S1		C
Ameiurus catus	White Catfish	G5	SU		
Amia calva	Bowfin	G5	S1?		
Catostomus catostomus	Longnose Sucker	G5	SH	X	
Centrarchus macropterus	Flier	G5	S1S2	T	
Clinostomus elongatus	Redside Dace	G3G4	SX?		
Cottus bairdii	Mottled Sculpin	G5	S3S4		
Cottus sp. 7	Checkered Sculpin	G4Q	S1S2		
Enneacanthus chaetodon	Blackbanded Sunfish	G4	S1	E	
Enneacanthus gloriosus	Bluespotted Sunfish	G5	S3S4		
Enneacanthus obesus	Banded Sunfish	G5	S2		
Etheostoma fusiforme	Swamp Darter	G5	S2	I	
Etheostoma nigrum	Johnny Darter	G5	S3		
Etheostoma sellare	Maryland Darter	GH	SH	E	LE
Etheostoma vitreum	Glassy Darter	G4G5	S1S2	T	
Fundulus luciae	Spotfin Killifish	G4	S2?		
Lampetra appendix	American Brook Lamprey	G4	S1S2	T	
Lepisosteus osseus	Longnose Gar	G5	S2?		
Lepomis gulosus	Warmouth	G5	S3?		
Luxilus chrysocephalus	Striped Shiner	G5	S1S2	I	
Margariscus margarita	Pearl Dace	G5	S1S2	T	
Notropis amoenus	Comely Shiner	G5	S2	T	
Notropis bifrenatus	Bridle Shiner	G3	SH	X	
Notropis chalybaeus	Ironcolor Shiner	G4	S1	E	
Noturus flavus	Stonecat	G5	S1	E	
Parahinichthys bowersi	Cheat Minnow	G1G2Q	SX	X	
Percina caprodes	Logperch	G5	S1S2	T	

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
<u>FISHES (cont.)</u>					
<i>Percina notogramma</i>	Stripeback Darter	G4	S1	E	
<i>Percina peltata</i>	Shield Darter	G5	S3		
<i>Percopsis omiscomaycus</i>	Trout-perch	G5	SX	X	
<i>Salvelinus fontinalis</i>	Brook Trout	G5	S3S4		
<u>AMPHIBIANS</u>					
<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S3		
<i>Ambystoma tigrinum</i>	Eastern Tiger Salamander	G5	S2	E	
<i>Aneides aeneus</i>	Green Salamander	G3G4	S2	E	
<i>Cryptobranchus alleganiensis</i>	Eastern Hellbender	G3G4	S1	E	
<i>Gastrophryne carolinensis</i>	Eastern Narrow-mouthed Toad	G5	S1S2	E	
<i>Hyla gratiosa</i>	Barking Treefrog	G5	S1	E	
<i>Necturus maculosus</i>	Common Mudpuppy	G5	S1	X	
<i>Plethodon wehrlei</i>	Wehrle's Salamander	G4	S2	I	
<i>Pseudacris brachyphona</i>	Mountain Chorus Frog	G5	S1	E	
<i>Rana virgatipes</i>	Carpenter Frog	G5	S3		
<u>REPTILES</u>					
<i>Apalone spinifera</i>	Eastern Spiny Softshell	G5	S1	I	
<i>Caretta caretta</i>	Loggerhead Sea Turtle	G3	S1	T	LT
<i>Cemophora coccinea</i>	Northern Scarletsnake	G5	S3		
<i>Chelonia mydas</i>	Green Sea Turtle	G3	S1N	T	LT
<i>Crotalus horridus</i>	Timber Rattlesnake	G4	S3		
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle	G2	S1	E	LE
<i>Eretmochelys imbricata</i>	Atlantic Hawksbill Sea Turtle	G3	SRN	E	LE
<i>Eumeces anthracinus</i>	Northern Coal Skink	G5	S1	E	
<i>Farancia erythrogramma</i>	Rainbow Snake	G4	S1	E	
<i>Glyptemys muhlenbergii</i>	Bog Turtle	G3	S2	T	LT
<i>Graptemys geographica</i>	Northern Map Turtle	G5	S1	E*	
<i>Lepidochelys kempii</i>	Kemp's Ridley Sea Turtle	G1	S1N	E	LE
<i>Nerodia erythrogaster erythrogaster</i>	Red-bellied Watersnake	G5T5	S2S3		
<i>Pituophis melanoleucus</i>	Northern Pinesnake	G4	SH		
<i>Virginia valeriae pulchra</i>	Mountain Earthsnake	G5T3T4	S1S2	E	
<u>BIRDS</u>					
<i>Accipiter gentilis</i>	Northern Goshawk	G5	S1B	E	
<i>Accipiter striatus</i>	Sharp-shinned Hawk	G5	S1S2B		
<i>Actitis macularius</i>	Spotted Sandpiper	G5	S3S4B		
<i>Aegolius acadicus</i>	Northern Saw-whet Owl	G5	S1B		
<i>Aimophila aestivalis</i>	Bachman's Sparrow	G3	SHB	X	
<i>Ammodramus caudacutus</i>	Saltmarsh Sparrow	G4	S3B		
<i>Ammodramus henslowii</i>	Henslow's Sparrow	G4	S1S2B	T	
<i>Anas discors</i>	Blue-winged Teal	G5	S2B		
<i>Anas strepera</i>	Gadwall	G5	S2B		

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Federal Status
BIRDS (cont.)					
<i>Asio flammeus</i>	Short-eared Owl	G5	S1B	E	
<i>Asio otus</i>	Long-eared Owl	G5	SHB		
<i>Bartramia longicauda</i>	Upland Sandpiper	G5	S1B	E	
<i>Botaurus lentiginosus</i>	American Bittern	G4	S1S2B	I	
<i>Campephilus principalis</i>	Ivory-billed Woodpecker	G1	SX	X	LE
<i>Caprimulgus vociferus</i>	Whip-poor-will	G5	S3S4B		
<i>Carpodacus purpureus</i>	Purple Finch	G5	S3B		
<i>Catharus guttatus</i>	Hermit Thrush	G5	S3S4B		
<i>Catharus ustulatus</i>	Swainson's Thrush	G5	SXB		
<i>Charadrius melodus</i>	Piping Plover	G3	S1B	E	LT
<i>Charadrius wilsonia</i>	Wilson's Plover	G5	S1B	E	
<i>Chondestes grammacus</i>	Lark Sparrow	G5	SXB	X	
<i>Chordeiles minor</i>	Common Nighthawk	G5	S3S4B		
<i>Circus cyaneus</i>	Northern Harrier	G5	S2B		
<i>Cistothorus platensis</i>	Sedge Wren	G5	S1B	E	
<i>Contopus cooperi</i>	Olive-sided Flycatcher	G4	SHB	E	
<i>Corvus corax</i>	Common Raven	G5	S2		
<i>Dendroica caerulescens</i>	Black-throated Blue Warbler	G5	S3S4B		
<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3S4B		
<i>Dendroica fusca</i>	Blackburnian Warbler	G5	S1S2B	T	
<i>Dendroica magnolia</i>	Magnolia Warbler	G5	S3S4B		
<i>Egretta caerulea</i>	Little Blue Heron	G5	S3B		
<i>Egretta tricolor</i>	Tricolored Heron	G5	S3B		
<i>Empidonax alnorum</i>	Alder Flycatcher	G5	S2B	I	
<i>Empidonax minimus</i>	Least Flycatcher	G5	S3S4B		
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	G4T4	S2	I	
<i>Gallinula chloropus</i>	Common Moorhen	G5	S2B	I	
<i>Gelochelidon nilotica</i>	Gull-billed Tern	G5	S1B	E	
<i>Haematopus palliatus</i>	American Oystercatcher	G5	S3B		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	G5	S3.1B		
<i>Ixobrychus exilis</i>	Least Bittern	G5	S2S3B	I	
<i>Junco hyemalis</i>	Dark-eyed Junco	G5	S2B		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S1B	E	
<i>Laterallus jamaicensis</i>	Black Rail	G4	S1	E	
<i>Leucophaeus atricilla</i>	Laughing Gull	G5	S1B		
<i>Limnithlypis swainsonii</i>	Swainson's Warbler	G4	S1B	E	
<i>Lophodytes cucullatus</i>	Hooded Merganser	G5	S1B		
<i>Melospiza georgiana nigrescens</i>	Coastal Plain Swamp Sparrow	G5T3	S2B	I	
<i>Numenius borealis</i>	Eskimo Curlew	GH	SXN	X	LE
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	G5	S2B		
<i>Oporornis philadelphia</i>	Mourning Warbler	G5	S1B	E	
<i>Passerculus sandwichensis</i>	Savannah Sparrow	G5	S3S4B		
<i>Pelecanus occidentalis</i>	Brown Pelican	G4	S1B		
<i>Picoides borealis</i>	Red-cockaded Woodpecker	G3	SHB	X	LE
<i>Podilymbus podiceps</i>	Pied-billed Grebe	G5	S2B		
<i>Poocetes gramineus</i>	Vesper Sparrow	G5	S3S4B		
<i>Porzana carolina</i>	Sora	G5	S1B		
<i>Rallus elegans</i>	King Rail	G4	S3S4B		

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<u>BIRDS (cont.)</u>					
<i>Regulus satrapa</i>	Golden-crowned Kinglet	G5	S2B		
<i>Riparia riparia</i>	Bank Swallow	G5	S3S4B		
<i>Rynchops niger</i>	Black Skimmer	G5	S1B	E	
<i>Seiurus noveboracensis</i>	Northern Waterthrush	G5	S2S3B		
<i>Sitta canadensis</i>	Red-breasted Nuthatch	G5	S1B		
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	G5	SHB		
<i>Spiza americana</i>	Dickcissel	G5	S2B		
<i>Sterna dougallii</i>	Roseate Tern	G4	SHB	X	LE
<i>Sternula antillarum</i>	Least Tern	G4	S2B	T	
<i>Thalasseus maximus</i>	Royal Tern	G5	S1B	E	
<i>Thalasseus sandvicensis</i>	Sandwich Tern	G5	S1B		
<i>Thryomanes bewickii</i>	Bewick's Wren	G5T2Q	S1B	E	
<i>Troglodytes troglodytes</i>	Winter Wren	G5	S2B		
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	G4	SX	X	
<i>Tyto alba</i>	Barn Owl	G5	S3		
<i>Vermivora chrysoptera</i>	Golden-winged Warbler	G4	S3B		
<i>Vermivora ruficapilla</i>	Nashville Warbler	G5	S1S2B	I	
<i>Wilsonia canadensis</i>	Canada Warbler	G5	S3B		

MAMMALS

<i>Balaenoptera borealis</i>	Sei Whale	G3	SZN	E	LE
<i>Balaenoptera musculus</i>	Blue Whale	G3G4	SZN	E	LE
<i>Balaenoptera physalus</i>	Finback Whale (Fin Whale)*	G3G4	SZN	E	LE
<i>Bos bison</i>	American Bison	G4	SX		
<i>Canis lupus</i>	Gray Wolf	G4	SX	X	LE
<i>Cervus canadensis</i>	American Elk	G5	SX	X	
<i>Condylura cristata parva</i>	Southeastern Star-nosed Mole	G5T4	SU		
<i>Erethizon dorsatum</i>	Porcupine	G5	S1S2	I	
<i>Eubalaena glacialis</i>	Black Right Whale	G1	SZN	E	LE
<i>Felis (Puma) concolor cougar*</i>	Eastern Mountain Lion (Eastern Cougar)*	G5THQ	SH	X	LE
<i>Lepus americanus</i>	Snowshoe Hare	G5	SH	X	
<i>Lynx rufus</i>	Bobcat	G5	S3	I	
<i>Martes americana</i>	(American) Marten*	G5	SX	X	
<i>Megaptera novaeangliae</i>	Humpback Whale	G3	SZN	E	LE
<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole	G4T3	S1	E	
<i>Mustela nivalis</i>	Least Weasel	G5	S2S3	I	
<i>Myotis leibii</i>	Eastern Small-footed Bat	G3	S1	E	
<i>Myotis sodalis</i>	Indiana Bat	G2	S1	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat	G3G4	S1	E	
<i>Physeter macrocephalus</i>	Sperm Whale	G3G4	SZN	E	LE
<i>Reithrodontomys humulis</i>	Eastern Harvest Mouse	G5	SH	X	
<i>Sciurus niger cinereus</i>	Delmarva Fox Squirrel	G5T3	S1	E	LE
<i>Sorex dispar</i>	Long-tailed Shrew	G4	S2	I	
<i>Sorex fumeus</i>	Smoky Shrew	G5	S2S3	I	
<i>Sorex hoyi winnemana</i>	Southern Pygmy Shrew	G5T4	S2		
<i>Sorex longirostris</i>	Southeastern Shrew	G5	S3S4		

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<u>MAMMALS (cont.)</u>					
<i>Sorex palustris punctulatus</i>	Southern Water Shrew	G5T3	S1	E	
<i>Spilogale putorius</i>	Eastern Spotted Skunk	G5	S1		
<i>Sylvilagus obscurus</i>	Appalachian Cottontail	G4	S1	I	
<i>Synaptomys cooperi</i>	Southern Bog Lemming	G5	S3		
<i>Ursus americanus</i>	Black Bear	G5	S3S4		

* Names in parentheses indicate commonly accepted taxonomic nomenclature. Names not in parentheses indicate names used in the Code Of Maryland Regulations (COMAR) 08.03.08.

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APPENDIX I

CHANGES TO STATE RANKS AND LEGAL STATUSES SINCE LAST PUBLISHED LIST (November 2007)

Scientific Name	Common Name	Current Rank	Former Rank	State Status	Former Status
<u>CRUSTACEANS</u>					
<i>Caecidotea mausi</i>	Maus' Isopod	S1	S1	E	-
<i>Stygobromus kenki</i>	Rock Creek Groundwater Amphipod	S1	NEW	E	NEW
<i>Stygobromus sextarius</i>	A groundwater amphipod	S1	NEW	E	NEW
<u>INSECTS</u>					
Odonata					
<i>Amphiagrion saucium</i>	Eastern Red Damsel	S3S4	S3		
<i>Calopteryx aequabilis</i>	River Jewelwing	SR	S1		
<i>Calopteryx amata</i>	Superb Jewelwing	S1S2	S2	T	-
<i>Calopteryx angustipennis</i>	Appalachian Jewelwing	S1S2	SP		
<i>Calopteryx dimidiata</i>	Sparkling Jewelwing	S2	SH		
<i>Celithemis martha</i>	Martha's Pennant	S1	S2		
<i>Celithemis ornata</i>	Faded Pennant	SH	S1		
<i>Cordulegaster bilineata</i>	Brown Spiketail	S3	S2		
<i>Cordulegaster diastatops</i>	Delta-spotted Spiketail	S3S4	S3		
<i>Cordulegaster erronea</i>	Tiger Spiketail	S3	S2		
<i>Cordulegaster obliqua fasciata</i>	Banded Spiketail	S1	NEW		
<i>Enallagma annexum</i>	Northern Bluet	S1	SU		
<i>Enallagma aspersum</i>	Azure Bluet	S4	S3S4		
<i>Enallagma carunculatum</i>	Tule Bluet	S1	SH		
<i>Enallagma doubledayi</i>	Atlantic Bluet	S1	SH		
<i>Enallagma hageni</i>	Hagen's Bluet	S4	S3S4		
<i>Enallagma sulcatum</i>	Golden Bluet	SNA	SU		
<i>Enallagma weewa</i>	Blackwater Bluet	S2	S1		
<i>Gomphaeschna furcillata</i>	Harlequin Darner	S3S4	S3		
<i>Gomphus abbreviatus</i>	Spine-crowned Clubtail	S1	SH		
<i>Gomphus adelphus</i>	Mustached Clubtail	S1	NEW		
<i>Gomphus desertus</i>	Harpoon Clubtail	S1S2	S1		
<i>Gomphus lineatifrons</i>	Splendid Clubtail	S1	SH		
<i>Gomphus parvidens</i>	Piedmont Clubtail	SH	SH	X	-
<i>Gomphus quadricolor</i>	Rapids Clubtail	S2	S1	I	-
<i>Gomphus rogersi</i>	Sable Clubtail	S2	S1	I	E
<i>Gomphus spicatus</i>	Dusky Clubtail	SR	SP		
<i>Gomphus vastus</i>	Cobra Clubtail	S4	S3		
<i>Gomphus ventricosus</i>	Skillet Clubtail	SH	SH	X	-
<i>Hetaerina americana</i>	American Rubyspot	S4	S3S4		
<i>Helocordulia selysii</i>	Sely's Sunfly	S2	S2	T	-
<i>Ischnura prognata</i>	Furtive Forktail	S1	SP		
<i>Ladona exusta</i>	White Corporal	S1	S1	E	-

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APPENDIX I

Odonata (cont.)

Ladona julia	Chalk-fronted Skimmer	S3	S2		
Lanthus parvulus	Northern Pygmy Clubtail	S2	S1		
Lanthus vernalis	Southern Pygmy Clubtail	S2	S1		
Leucorrhinia frigida	Frosted Whiteface	S1	SP		
Libellula flavida	Yellow-sided Skimmer	S2S3	S2		
Nannothemis bella	Elfin Skimmer	S1	S1	E	-
Nasiaeschna pentacantha	Cyrano Darner	S3S4	S3		
Neurocordulia virginienensis	Cinnamon Shadowdragon	SRF	S1		
Neurocordulia yamaskanensis	Stygian Shadowdragon	S3	S2		
Ophiogomphus incurvatus incurvatus	Appalachian Snaketail	S1	SNR	E	-
Ophiogomphus mainensis fastigiatus	Maine Snaketail	S1	NEW		
Ophiogomphus sp. 1	Chesapeake Snaketail	S1	NEW		
Somatochlora elongata	Ski-tailed Emerald	S2	S1		
Somatochlora provocans	Treetop Emerald	S1	S1	E	-
Somatochlora tenebrosa	Clamp-tipped Emerald	S4	S3S4		
Somatochlora walshii	Brush-tipped Emerald	S1	NEW		
Stylogomphus albistylus	Least Clubtail	S4	S3S4		
Stylurus amnicola	Riverine Clubtail	SH	SH	X	-
Stylurus laurae	Laura's Clubtail	S2S3	S2		
Stylurus notatus	Elusive Clubtail	SR	SU		
Tachopteryx thoreyi	Gray Petaltail	S3	S2		
Telebasis byersi	Duckweed Firetail	S1	NEW		

Homoptera

Limotettix minuendus	Eastern Sedge Barrens Planthopper	S1	S1	E	-
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Lepidoptera

Callophrys polios	Hoary Elfin	S1	S1	E	-
Celastrina nigra	Dusky Azure	SH	SH	X	E
Cyclophora nanaria	A Geometrid Moth	SU	S1?		
Erynnis persius persius	Persius Duskywing	SA	SRF		
Euphydryas phaeton	Baltimore Checkerspot	S2	S3		
Hemileuca maia maia	The Buckmoth	S4	SU		
Hesperia attalus slossonae	Dotted Skipper	SA	SH		
Isoparce cupressi	Cypress Sphinx Moth	S1S2	SU		
Meropoleon titan	A Noctuid Moth	S2S4	SU		
Pieris virginienensis	West Virginia White	S1S2	S3		
Schinia pameliana	A Noctuid Moth	SU	SH		
Synanthedon castaneae	Chestnut Clearwing Moth	SU	SX		
Thorybes confusus	Confused Cloudywing	SA	SU		

FISHES

Notropis bifrenatus	Bridle Shiner	SH	SH	X	E
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BIRDS

Haliaeetus leucocephalus	Bald Eagle	S3.1B	S2S3B	-	T
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APPENDIX II

CROSS REFERENCE OF ANIMAL SYNONYM NAMES

Synonym Name	Current Name
Aeshna mutata	Rhionaeschna mutata
Allocaonia zekiah	Allocaonia wrayi
Anodonta cataracta	Pyganodon cataracta
Anodonta imbecillis	Utterbackia imbecillis
Atypus bicolor	Sphodros rufipes
Caecidotea sp. 3	Caecidotea mausi
Cambarus carolinus	Cambarus dubius
Cariniocoris nyssae	Lygocoris nyssae
Celithemis monomelaena	Celithemis fasciata
Cervus elaphus	Cervus canadensis
Clemmys insculpta	Glyptemys insculpta
Clemmys muhlenbergii	Glyptemys muhlenbergii
Elliptio angustata	Elliptio lanceolata
Erythrodiplax connata minuscula	Erythrodiplax minuscula
Fallicambarus uhleri	Fallicambarus fodiens
Felis concolor	Puma concolor
Fixsenia favonius ontario	Satyrium favonius ontario
Fixsenia ontario	Satyrium favonius ontario
Gomphus notatus	Stylurus notatus
Hermeuptychia hermes	Hermeuptychia sosybius
Hydrochus sp. 1	Hydrochus spangleri
Hylogomphus adelphus	Gomphus adelphus
Incisalia irus	Callophrys irus
Larus atricilla	Leucophaeus atricilla
Leptohyphes robacki	Tricorythodes robacki
Libellula exusta	Ladona exusta
Libellula julia	Ladona julia
Lutra canadensis	Lontra canadensis
Macromia georgiana	Macromia illinoensis georgina
Mesodon sayanus	Appalachina sayana
Mitoura hesseli	Callophrys hesseli
Notropis buccata	Notropis buccatus
Phoca groenlandica	Pagophilus groenlandicus
Phyciodes selenis, P. tharos	Phyciodes cocyta
Physeter catodon	Physeter macrocephalus
Plecotus rafinesquii	Corynorhinus rafinesquii
Porhomma cavernicola	Porhomma cavernicola
Potamanthus walkeri	Anthopotamus verticis
Pseudemys scripta	Trachemys scripta
Puma concolor cougar	Felis concolor cougar
Satyrium caryaevorum	Satyrium caryaevorus

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APPENDIX II

Synonym Name

Scymnus gordonii
Sphalloplana hoffmasteri
Sterna antillarum
Sterna maxima
Sterna nilotica
Sylvilagus transitionalis
Triodopsis multilineata
Xestia bollii

Current Name

Nephus gordonii
Macrocotyla hoffmasteri
Sternula antillarum
Thalasseus maximus
Gelocheilodon nilotica
Sylvilagus obscurus
Webbhelix multilineata
Agnorisma bollii

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APPENDIX III

ANIMAL SPECIES UNDER REVIEW FOR INCLUSION ON LIST

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK
<u>MOLLUSKS</u>			
Allogona profunda	Broad-banded forestsnail	G5	SU
Appalachina sayana	Spike-lip crater	G4G5	SU
Gastrocopta corticaria	Bark snaggletooth	G4G5	SU
Glyphyalinia picea	Rust glyph	G3	SU
Paravitrea multidentata	Dentate supercoil	G4G5	SU
Stenotrema stenotrema	Inland slitmouth	G5	SU
Vertigo gouldi	Variable vertigo	G4G5	SU
Vitrina angelicae	Eastern glass-snail	G?	SU
<u>CRUSTACEANS</u>			
Eulimnadia diversa	A clam shrimp	G5	SU
<u>INSECTS</u>			
Ephemeroptera			
Paraleptophlebia assimilis	A mayfly	G3	S?
Tricorythodes robacki	A mayfly	G3	S?
Plecoptera			
Alloperla biserrata	A stonefly	G3	S?
Allocapnia wrayi	A plecopteran	G5	S?
Heteroptera			
Chinaola quercicola	A microphysid bug	G?	S?
Hesperophylum heidemanni	A plant bug	G?	S?
Lygocoris nyssae	A mirid bug	G?	S?
Coleoptera			
Cyphon sp. 1	A water beetle	G?	S?
Lepidoptera – Butterflies			
Atrytone logan	Delaware skipper	G5	S4
Atrytonopsis hianna	Dusted skipper	G4G5	S4
Chlosyne nycteis	Silvery checkerspot	G5	S4
Hesperia leonardus	Leonard's skipper	G4	S4
Hesperia metea	Cobweb skipper	G4G5	S3
Polygonia progne	Gray comma	G5	S1S3

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APPENDIX III

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK
Lepidoptera – Moths			
Anacamptodes pergracilis	A geometrid moth	G?	S?
Anisota stigma	Spiny oakworm	G5	S4
Anomogyna elimata	Southern variable dart moth	G5	S5
Argyrostroma quadrifilaris	Four-lined chocolate moth	G4	S?
Artace cribraria	A lasiocampid moth	G5	S5
Caripeta aretaria	A moth	G4	S4
Cisthene packardii	Packard's lichen moth	G5	S5
Cyclophora nanaria	A Geometrid Moth	G5	SU
Dasychira atrivenosa	A Lyamtrid Moth	G4	SU
Erastria coloraria	Broad-lined catopyrrha	G4	SH
Euxoa immixta	A noctuid moth	G4	S?
Hemeroplanis scopulepes	Variable tropic moth	G5	S?
Holomelina immaculata	Plain-winged holomelina	G?	S?
Holomelina laeta	Joyful holomelina moth	G5	S1?
Hypagyrtis esther	Esther moth	G5	S5
Idea eremata	A geometrid moth	G4	S1?
Lagoa crispata	Black-waved flannel moth	G5	SU
Lithophane lemmeri	Lemmer's noctuid moth	G3G4	S?
Macrochilo hypocritalis	A noctuid moth	G4	S4?
Metaxaglaea semitaria	Footpath sawfly moth	G5	S4
Pachypolia atricornis	Three-horned moth	G3G4	SH
Papaipema araliae	Aralia shoot borer moth	G3G4	S?
Papaipema marginidens	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
Diptera			
Wyeomyia haynei	A mosquito	G4	S?
<u>AMPHIBIANS</u>			
Pseudotriton montanus	Mud salamander	G5	S2?
<u>REPTILES</u>			
Clemmys insculpta	Wood turtle	G4	S4
Elaphe guttata	Corn snake	G5	S4
Eumeces laticeps	Broadhead skink	G5	S4
Regina septemvittata	Queen snake	G5	S5
Thamnophis sauritus	Eastern ribbon snake	G5	S5

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APPENDIX IV

ANIMAL SPECIES REPORTED, FALSELY REPORTED, POTENTIALLY OCCURRING, OR ACCIDENTAL IN MARYLAND

The following species do not regularly occur in Maryland as resident or breeding populations based on currently available information. Although not exhaustive, the list is included to provide clarification for those species whose rank in Maryland may be unclear due to conflicting reports or vague published accounts. For those species with a rank of SR, only unverified reports exist. Species with a rank of SRF have been falsely reported, and the error may persist in the literature. For those species ranked SA, only accidental, vagrant or highly irregular records exist, and there is no evidence of regularly occurring resident or breeding populations in the state. The list is also provided to bring attention to those species that potentially occur in Maryland (SP) and, if documented, their presence could have significant conservation value.

SCIENTIFIC NAME	COMMON NAME	STATE RANK
<u>MOLLUSKS</u>		
<i>Alasmodonta marginata</i>	Elktoe	SRF
<u>CRUSTACEANS</u>		
<i>Caecidotea holsingeri</i>	Holsinger's Cave Isopod	SRF
<u>INSECTS</u>		
Odonata		
<i>Calopteryx aequabilis</i>	River Jewelwing	SR
<i>Dromogomphus spoliatus</i>	Flag-tailed Spinyleg	SA
<i>Gomphus graslinellus</i>	Pronghorn Clubtail	SA
<i>Gomphus spicatus</i>	Dusky Clubtail	SR
<i>Miathyria marcella</i>	Greater Hyacinth Glider	SA
<i>Neurocordulia virginienensis</i>	Cinnamon Shadowdragon	SRF
<i>Orthemis ferruginea</i>	Roseate Skimmer	SA
<i>Stylurus notatus</i>	Elusive Clubtail	SR
<i>Sympetrum internum</i>	Cherry-faced Meadowhawk	SR
<i>Tamea calverti</i>	Striped Saddlebags	SA
<i>Tamea onusta</i>	Red-mantled Saddlebags	SA
Coleoptera		
<i>Cicindela marginipennis</i>	Cobblestone Tiger Beetle	SP
<i>Photuris bethaniensis</i>	A Lampyrid Firefly	SP
Lepidoptera - Butterflies		
<i>Calephelis virginienensis</i>	Little Metalmark	SR
<i>Cyllopsis gemma</i>	Gemmed Satyr	SR
<i>Erynnis persius persius</i>	Persius Duskywing	SA

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SCIENTIFIC NAME	COMMON NAME	STATE RANK
Lepidoptera – Butterflies (cont.)		
<i>Euphyes pilatka</i>	Palatka Skipper	SA
<i>Hesperia attalus slossonae</i>	Dotted Skipper	SA
<i>Neonympha mitchellii</i>	Mitchell's Satyr	SR
<i>Phoebis agarithe</i>	Large Orange Sulphur	SA
<i>Phyciodes cocyta</i>	Northern Crescent	SP
<i>Satyrium acadica</i>	Acadian Hairstreak	SA
<i>Thorybes confusus</i>	Confused Cloudywing	SA
 <u>FISHES</u>		
<i>Cottus cognatus</i>	Slimy Sculpin	SRF
 <u>AMPHIBIANS</u>		
<i>Siren lacertina</i>	Greater Siren	SRF
 <u>MAMMALS</u>		
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	SP
<i>Glaucomys sabrinus fuscus</i>	Virginia Northern Flying Squirrel	SP
<i>Halichoerus grypus</i>	Gray Seal	SA
<i>Mustela erminea</i>	Ermine	SR
<i>Myotis austroriparius</i>	Southeastern Myotis	SP
<i>Pagophilus groenlandicus</i>	Harp Seal	SA
<i>Phoca vitulina</i>	Harbor Seal	SA
<i>Pseudorca crassidens</i>	False Killer Whale	SR
<i>Trichechus manatus</i>	Manatee	SA

Maryland Department of Natural Resources Wildlife and Heritage Service Natural Heritage Program



580 Taylor Ave E-1
Annapolis MD 21401

www.dnr.maryland.gov

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

John R. Griffin
Secretary

Joseph P. Gill
Deputy Secretary

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