

# NATURAL HERITAGE RESOURCES OF VIRGINIA: RARE ANIMALS

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VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF NATURAL HERITAGE  
600 EAST MAIN STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-7951

List Compiled by  
Steven M. Roble, Staff Zoologist



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## INTRODUCTION

The Virginia Department of Conservation and Recreation's Division of Natural Heritage (DCR-DNH) was established in 1986 to protect Virginia's biological diversity. DCR-DNH's work focuses on science-based conservation to protect Virginia's native plant and animal life and the ecosystems upon which it depends. Scientists collect data on natural communities and rare plants and animals, develop land conservation data and online mapping tools, and provide up-to-date information to enable timely conservation decisions. Virginia's Natural Area Preserve System provides long-term protection and outdoor recreation access to some of the state and the planet's most ecologically important lands. In collaboration with our partners, DCR-DNH's work focuses on ensuring the conservation of Virginia's common, rare and endangered species and ecosystems. As a member of [NatureServe](#), DCR's Natural Heritage Program also contributes to an understanding and conservation of our global biodiversity.

The first step in conservation is identifying and prioritizing what needs protecting. DCR-DNH identifies Natural Heritage Resources (NHR) which are in need of conservation attention. NHR are defined in the Virginia Natural Area Preserves Act of 1989 ([Section 10.1-209 through 217, Code of Virginia](#)), as the habitat of rare, threatened, and endangered plant and animal species; exemplary natural communities, habitats, and ecosystems; and other natural features of the Commonwealth.

To prioritize this protection, DCR-DNH maintains lists of the most significant elements of our natural diversity. These lists and reports, developed for plants and lichens, animals, and natural communities, focus the Division's inventory on the elements of biodiversity most likely to be lost without conservation action in the near future. Most importantly, these lists are not only useful for DCR-DNH, but can be used by other agencies, organizations, and individuals to guide protection and inform land-use decisions. In formulating this list of rare animals, the Division uses information from previous studies, museum records, the observations and opinions of experts, DCR-DNH staff scientists, and field inventories.

The first section included in this report is the Rare Animal List. This list contains information on the legal and biological status of Virginia's rarest known native animals, including vertebrates (n = 189), and insects and selected other invertebrate groups (n = 632). Certain marine species that are listed as federally endangered or threatened are only included in the appendices. Only those species that use discrete habitat patches or can directly benefit from habitat protection are included in the main taxonomic lists.

Taxa placed on the rare lists are considered to be sufficiently rare or threatened in Virginia to merit tracking their status and population trends and conducting field inventory to locate new occurrences or update known occurrences. 'Sufficiently rare' includes species with

conservation status ranks of G1 through G3 and/or S1 through S2 (See [NatureServe Explorer](#) for detailed definitions), and/or are listed as threatened or endangered by the Commonwealth of Virginia (see [Virginia Department of Agriculture and Consumer Services](#) and [Virginia Department of Wildlife Resources](#)) or under the U.S. Endangered Species Act (see [U.S. Fish and Wildlife Service](#)). Each species is presented with information on its conservation and legal status.

Included on the Rare Animal List are ‘animal assemblages’. An animal assemblage is a group of animals, often multiple species, found in a high concentration due to either a life stage (i.e. breeding or migrating) or indicative of habitat quality. Examples of an animal assemblage include mussel concentration site, migratory bird migration corridor, or a heron rookery. The assemblage is the element, with global and state (i.e. subnational) ranks accorded to them. Note, the actual species within an assemblage may or may not be tracked.

The second section is the Animal Watchlist. This list contains information on the conservation and legal status of 374 additional taxa (73 vertebrates, 302 invertebrates) that are decidedly uncommon in Virginia but not scarce enough to merit inclusion on the Rare Animal List. Species on this list are monitored to determine general population trends. Some species included on the Animal Watchlist were formerly on the Rare Animal List but have been determined to be more common than previously believed. Other species on the Watchlist are declining and may warrant placement on the Rare Animal List in the future if their populations continue to decline.

The third section included in this report is the Animal Review List (Taxa of Uncertain Status). Many of these species lack numerical ranks, indicating that they are poorly known from a distributional and/or taxonomic standpoint. Although some of these species may prove to be conservation targets, more field and museum data are needed to assess their degree of rarity in Virginia and/or taxonomic status. There are 194 species (3 vertebrates, 191 invertebrates) in this category.

Two appendices are provided to aid in summarizing or highlighting the status of certain species. Appendix 1 summarizes all animals that are protected by federal or state endangered species acts are included in this list (except as noted above). Federally listed species are protected by the Endangered Species Act of 1973, as amended. The U.S. Department of the Interior’s [Fish and Wildlife Service](#) administers the Act, listing and protecting federally endangered and threatened species. The [Virginia Department of Wildlife Resources](#) has the regulatory responsibility for the listing and protection of the state’s endangered and threatened animals (excluding the Class Insecta) under the Virginia Endangered Species Act ([Section 29.1-564 through 570, Code of Virginia](#)). The [Virginia Plant and Insect Species Program](#) within the Virginia Department of Agriculture and Consumer Services has regulatory 2 responsibility for the listing and protection of the state’s insects (and plants) under the Virginia Endangered Plant and Insect Act ([Section 3.1-1020 through 1030, Code of Virginia](#)). DCR-DNH is a primary source of recommendations to each of the regulatory agencies for species that are in need of listing as endangered or threatened. As of this publication, there are 75 federal and 136 state listed

animal species in Virginia. Note, not all listed animal species are tracked by DCR-DNH, such as marine mammals and others.

Appendix 2 lists species once native to Virginia, that are now considered either extinct (the species does not exist anywhere) or extirpated (the species does not exist in a defined area) from Virginia.

Natural Heritage Resource lists are necessarily dynamic, and are revised frequently, with updates occurring as data become available. Such revisions assure the most current knowledge of the status of Virginia's animals. Animals are added to the list when it is determined that they have become rare or threatened to such an extent that their continued existence in Virginia is in jeopardy. Animals are removed from the list when additional field surveys or other new data indicate they are more common than previously believed and do not warrant priority conservation efforts.

If you have information which could refine this list, please contact DCR-DNH staff zoologist Steve Roble at (804) 726-7951 (email: [steve.roble@dcr.virginia.gov](mailto:steve.roble@dcr.virginia.gov)) or fill out the [Rare Species Sighting Form](#) (see also Appendix 3).

## **LIST FORMAT**

The lists are sorted by broad taxonomic groups and then ordered alphabetically by scientific name within each group. The format of each list consists of six fields: scientific name, common name, global rank, state rank, federal status, and state status. These fields are also used in the lists appearing in Appendix 1. To aid in the interpretation of the lists, a brief explanation of each field and a summary of abbreviations follow.

### **Column 1. Scientific name:**

Nomenclature of animals is not contained in any single source. The most recent taxonomic sources are examined by the staff zoologist and, when necessary, direct consultations with experts are used to maintain the most scientifically accepted names for all animal groups. Divergences from these opinions are rare and generally occur only while an ongoing taxonomic study is being conducted. Contact the staff zoologist if you have questions or comments regarding the scientific names used herein.

### **Column 2. Common name:**

A common name is provided for the convenience of the user. Standard common names have been developed and universally adopted for only a few animal groups; therefore, the user is cautioned to use scientific names whenever possible. The common names for most vertebrates and a few selected aquatic invertebrate groups (e.g., mussels) are recognized as stable. Most

invertebrate species lack common names and it may not be practical to provide such names. They are usually indicated in the list as “a caddisfly”, “a millipede”, etc. While many common names that appear in the list, especially those of invertebrates, are not widely used or universally accepted, the primary sources applied to species in selected groups included in this list were based on the following resources.

### Fish

Nelson, J.S., E.J. Crossman, H. Espinosa-Pérez, L.T. Findley, C.R. Gilbert, R.N. Lea, and J.D. Williams. 2004. Common and Scientific Names of Fishes from the United States, Canada, and Mexico. Sixth Edition. American Fisheries Society, Special Publication 29, Bethesda, Maryland. 386 pp.

### Amphibians and Reptiles

Crother, B.I. (editor). 2012. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in our Understanding. 7<sup>th</sup> Edition. Society for the Study of Amphibians and Reptiles, Herpetological Circular Number 39. 92 pp.

### Birds

American Ornithologists' Union. 1998. Check-list of North American Birds. Seventh Edition. American Ornithologists' Union, Washington, D.C. 829 pp. [as modified by subsequent supplements and corrections published in *The Auk*].

### Mammals

Baker, R.J., L.C. Bradley, R.D. Bradley, J.W. Dragoo, M.D. Engstrom, R.S. Hoffmann, C.A. Jones, F. Reid, D.W. Rice, and C. Jones. 2003. Revised Checklist of North American Mammals North of Mexico, 2003. Texas Tech University Museum, Occasional Paper Number 229. 23 pp.

### Gastropoda and Bivalvia

Turgeon, D.D., J.F. Quinn, Jr., A.E. Bogan, E.V. Coan, F.G. Hochberg, W.G. Lyons, P.M. Mikkelsen, R.J. Neves, C.F.E. Roper, G. Rosenberg, B. Roth, A. Scheltema, M.J. Sweeney, F.G. Thompson, M. Vecchione, and J.D. Williams. 1998. Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Mollusks. 2nd Edition. American Fisheries Society, Special Publication 26, Bethesda, Maryland. 526 pp.

### Crustacea

McLaughlin, P.A., D.K. Camp, M.V. Angel, E.L. Bousfield, P. Brunel, R.C. Brusca, D. Cadien, A.C. Cohen, K. Conlan, L.G. Eldredge, D.L. Felder, J.W. Goy, T. Haney, B. Hann, R.W. Heard,

E.A. Hendrycks, H.H. Hobbs III, J.R. Holsinger, B. Kensley, D.R. Laubitz, S.E. LeCroy, R. Lemaitre, R.F. Maddocks, J.W. Martin, P. Mikkelsen, E. Nelson, W.A. Newman, R.M. Overstreet, W.J. Poly, W.W. Price, J.W. Reid, A. Robertson, D.C. Rogers, A. Ross, M. Schotte, F. Schram, C. Shih, L. Watling, G.D.F. Wilson, and D.D. Turgeon. 2005. Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Crustaceans. American Fisheries Society, Special Publication 31, Bethesda, Maryland. 545 pp.

### Odonata

Paulson, D.R. and S.W. Dunkle. 1999 (updated 2012). A Checklist of North American Odonata. Slater Museum of Natural History, University of Puget Sound Occasional Paper 56. 86 pp.

### Plecoptera

Stark, B.P., K.W. Stewart, S.W. Szczytko, and R.W. Baumann. 1998. Common names of stoneflies (Plecoptera) from the United States and Canada. Ohio Biological Survey Notes 1: 1-18.

### Coleoptera

Pearson, D.L. 2004. A list of suggested common English names for species of tiger beetles occurring in Canada and the U.S. *Cicindela* 36(1-2): 31-40.

### Lepidoptera

Covell, C.V., Jr. 2005. A Field Guide to Moths of Eastern North America. Virginia Museum of Natural History Special Publication Number 12. Martinsville, VA. 496 pp.

Glassberg, J. 1999. Butterflies Through Binoculars – The East: A Field Guide to the Butterflies of Eastern North America. Oxford University Press, New York, NY. 242 pp.

### **Column 3. Global rank:**

Global ranks are assigned by NatureServe and its member programs (including DCR-DNH) and collaborators. They use a rigorous, consistent, and transparent methodology to assess the conservation status (extinction or extirpation risk) of species of plants, animals, and fungi, as well as the conservation status (elimination or extirpation risk) of ecosystems (ecological communities and systems). For animals, global ranks (a.k.a., ‘G-rank’) designate a rarity rank based on the range-wide status of a species or subspecies. The ranks are assigned after considering a suite of factors, including number of occurrences (i.e. populations), number of individuals, and severity of threats. Visit [NatureServe’s website](https://explorer.natureserve.org/AboutTheData/Statuses) to learn more about the methodology. Each rank is defined below (Source: NatureServe Explorer, 2020. Statuses. Accessed at <https://explorer.natureserve.org/AboutTheData/Statuses>)



G1 = Critically Imperiled — At very high risk of extinction or elimination due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors.

G2 = Imperiled — At high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.

G3 = Vulnerable — At moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

G4 = Apparently Secure — At fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.

G5 = Secure — At very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats.

GH = Possibly Extinct — Known from only historical occurrences but still some hope of rediscovery. Examples of evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct or eliminated throughout its range.

GX = Presumed Extinct — Not located despite intensive searches and virtually no likelihood of rediscovery

GU = Unrankable — Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. NOTE: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

G\_? = Inexact Numeric Rank—Denotes inexact numeric rank (e.g. G3?)

G\_Q = Questionable taxonomy - Taxonomic distinctiveness of this entity at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or the inclusion of this taxon in another taxon, with the resulting taxon having a lower conservation priority (e.g., G3Q).

G\_T\_ = Intraspecific Taxon — The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1.

GNR = Unranked – Global rank not yet assessed.

GNA = Not Applicable — A conservation status rank is not applicable because the species or ecosystem is not a suitable target for conservation activities. A global conservation status rank may be not applicable for several reasons, related to its relevance as a conservation target. For species, typically the species is a hybrid without conservation value, or of domestic origin.

#### **Column 4. State rank**

State ranks (a.k.a, S - rank) are assigned by the DCR-DNH Staff Zoologist in a manner similar to that described for global ranks, but consider only factors within the political boundaries of Virginia. For example, an animal that is endemic to Virginia (found nowhere else in the world) will have the same global and state ranks, whereas a species that may be common in the northeastern United States but only known from a few occurrences in Virginia will have global and state ranks that differ. State ranks found in the Rare Animal List are explained below:

S1 = Critically Imperiled— At very high risk of extirpation in the jurisdiction due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.

S2 = Imperiled — At high risk of extirpation in the jurisdiction due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.

S3 = Vulnerable— At moderate risk of extirpation in the jurisdiction due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

S4 = Apparently Secure— At a fairly low risk of extirpation in the jurisdiction due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.

S5 = Secure— At very low or no risk of extirpation in the jurisdiction due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats.

SH = Possibly Extirpated – Known from only historical records but still some hope of rediscovery. There is evidence that the species or ecosystem may no longer be present in the jurisdiction, but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species or ecosystem has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the jurisdiction.

SX = Presumed Extirpated—Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

SU = Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S\_? = Inexact Numeric Rank - Denotes inexact numeric rank (e.g., S3?).

S\_S\_ = Rank is uncertain, but considered to be within the indicated range of ranks (e.g., S2S4).

SNR = Unranked—State conservation status not yet assessed.

SNA = Not Applicable —A conservation status rank is not applicable because the species is not a suitable target for conservation activities (e.g., hybrids without conservation value and non-native species).

Breeding Status Qualifiers (mainly applied to birds in Virginia):

B = Breeding—Conservation status refers to the breeding population of the species in the state.

N = Non-breeding—Conservation status refers to the non-breeding population of the species in the state.

M = Migrant—Migrant species occurring regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. Conservation status refers to the aggregating transient population of the species in the state.

**Column 5. Federal status:**

Federal status is determined by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. This status is used for all animals listed as endangered or threatened by the U.S. government and receiving protection under the federal Endangered Species Act. The list also notes those species that have been formally proposed for listing or are currently candidates under consideration for listing. The federal status formerly known as “Category 2, candidate species” was abolished on February 28, 1996; species formerly designated as “Category 1, candidate species” are now referred to simply as “candidate species.”

LE = Listed Endangered. A species threatened with extinction throughout all or a significant portion of its range.

LT = Listed Threatened. A species likely to become endangered in the foreseeable future.

LE/PT = Currently listed as endangered but proposed for downlisting to threatened.

LT/SA = Listed as Threatened due to Similarity of Appearance. The species so closely resembles an endangered or threatened species or population that enforcement personnel of the U.S. Fish and Wildlife Service cannot readily distinguish between the taxa (e.g., the northern population of the bog turtle is federally listed as endangered, but turtles from

the southern population, which includes Virginia, are not readily distinguishable from them).

PE = Proposed Endangered. A species proposed for listing as endangered.

PT = Proposed Threatened. A species proposed for listing as threatened.

C = Candidate. There is enough available information to propose the taxon for listing, but listing is "precluded by other pending proposals of higher priority". The U.S. Fish and Wildlife Service is "directed to make prompt use of the emergency listing if the well-being of any such species is at significant risk." (Formerly Candidate, Category 1)

**Column 6. State status:**

State status is determined by the Virginia Department of Wildlife Resources (all animals except insects) and the Virginia Department of Agriculture and Consumer Services (insects only). The informal category of "Special Concern" species that was previously maintained by the Virginia Department of Wildlife Resources was abolished by that agency on January 1, 2011.

LE = Listed Endangered; defined as a species that is in danger of extinction throughout all or a significant portion of its range.

LT = Listed Threatened; defined as a species that is likely to become endangered within the foreseeable future.

LT/PDL Listed as Threatened but proposed for delisting (removal from the state list of Endangered and Threatened wildlife). However, at the present time, the species is still listed as Threatened pending further action and is thus protected under Virginia's Endangered Species Act.

PE = Proposed Endangered. A species proposed for listing as endangered.

PT = Proposed Threatened. A species proposed for listing as threatened.

The following two tables summarize the ranks and legal status of the rarest animals tracked by the DCR-DNH.

Summary of the rarest animals by Global and State Ranks

Rank <sup>a</sup>	Fish	Amphibians	Reptiles	Birds <sup>b</sup>	Mammals	Invertebrates
GH	0	0	0	0	0	5
G1	7	2	1	1	0	171

G2	10	3	2	3	4	109
G3	15	4	2	5	7	129
SX	2	0	0	3	6	11
SH	2	0	1	8	0	60
S1	32	6	8	38	10	353
S2	36	14	5	20	6	207

a: Rounded ranks (e.g., G1G2 is combined with G1, S2S3 with S2, G2G4 is treated as G3, S1S3 is treated as S2, etc.); also T ranks are treated as equivalent to G ranks for the purposes of this table.

b: Breeding ranks of birds were used as the S ranks for the purposes of this table (except for Red Knot).

#### Summary of animals by federal and state legal status

<b>Legal Status<sup>c</sup></b>	<b>Fish</b>	<b>Amphibians</b>	<b>Reptiles</b>	<b>Birds</b>	<b>Mammals</b>	<b>Invertebrates</b>
FE	5	1	1	2	5	29
FT	5	0	1	3	0	6
PFE	0	0	0	0	1	3
PFT	0	0	0	0	0	2
SE	9	2	4	5	11	46
PSE	0	0	0	0	0	0
ST	14	1	3	7	1	13
PST	0	0	0	0	0	0

c: FE = Federally Endangered; FT = Federally Threatened; PFE = Proposed Federally Endangered; PFT = Proposed Federally Threatened; SE = State Endangered; PSE = Proposed State Endangered; ST = State Threatened; PST = Proposed State Threatened.

## **ACKNOWLEDGEMENTS**

The Virginia Department of Conservation and Recreation, the U.S. Fish and Wildlife Service, the Virginia Department of Wildlife Resources, and the Virginia Department of Agriculture and Consumer Services work cooperatively to insure the continued survival of Virginia's diverse fauna and other elements of natural diversity. The Division of Natural Heritage also works closely with many other state and federal agencies, local governments, conservation organizations, and many other organizations and individuals to seek adequate protection of Virginia's natural heritage. We are grateful to NatureServe for all they do to support us and fellow Network members. Megan Rollins was instrumental in developing this document.

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>VERTEBRATES</b>					
<b>FISH</b>					
<i>Acipenser brevirostrum</i> LeSueur, 1818	Shortnose Sturgeon	G3	SHB,S1N	LE	LE
<i>Acipenser oxyrinchus</i> Mitchell, 1815 = <i>Acipenser oxyrhynchus</i>	Atlantic Sturgeon	G3	S2	LE	LE
<i>Ameiurus brunneus</i> Jordan, 1877	Snail Bullhead	G4	S2		
<i>Ammocrypta clara</i> Jordan and Meek, 1885 = <i>Etheostoma clarum</i>	Western Sand Darter	G3	S1		LT
<i>Aplodinotus grunniens</i> Rafinesque, 1819	Freshwater Drum	G5	S2		
<i>Chrosomus cumberlandensis</i> (Starnes and Starnes, 1978) = <i>Phoxinus cumberlandensis</i>	Blackside Dace	G2	S1	LT	LT
<i>Chrosomus tennesseensis</i> (Starnes and Jenkins, 1988) = <i>Phoxinus tennesseensis</i>	Tennessee Dace	G3	S1		LE
<i>Chrosomus</i> sp. 1	Clinch dace	G1	S1		
<i>Cottus baileyi</i> Robins, 1961	Black Sculpin	G4Q	S2		
<i>Cottus cognatus</i> Richardson, 1836	Slimy Sculpin	G5	S2		
<i>Cottus</i> sp. 1	Bluestone Sculpin	G2	S2		
<i>Cottus</i> sp. 4	Clinch Sculpin	G1G2	S1S2		
<i>Cottus</i> sp. 5	Holston Sculpin	G2	S2		
<i>Cyprinella labrosa</i> (Cope, 1870) = <i>Hybopsis labrosa</i>	Thicklip Chub	G4	SH		
<i>Cyprinella whipplei</i> Girard, 1856 = <i>Notropis whipplei</i>	Steelcolor Shiner	G5	S1		LT
<i>Enneacanthus chaetodon</i> (Baird, 1855)	Blackbanded Sunfish	G3G4	S1		LE
<i>Erimonax monachus</i> (Cope, 1868) = <i>Cyprinella monacha</i> = <i>Hybopsis monacha</i>	Turquoise Shiner	G2	S1	LT	LT
<i>Erimystax cahni</i> (Hubbs and Crowe, 1956) = <i>Hybopsis cahni</i>	Slender Chub	G1	S1	LT	LT
<i>Erimyzon sucetta</i> (Lacepède, 1803)	Lake Chubsucker	G5	S2		
<i>Etheostoma acuticeps</i> Bailey, 1959	Sharphead Darter	G3	S1		LE
<i>Etheostoma brevispinum</i> (Coker, 1926)	Carolina Fantail Darter	G4	S1		
<i>Etheostoma caeruleum</i> Storer, 1845	Rainbow Darter	G5	S2		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>FISH</b>					
<i>Etheostoma camurum</i> (Cope, 1870)	Bluebreast Darter	G4	S2		
<i>Etheostoma chlorbranchium</i> Zorach, 1972	Greenfin Darter	G4	S1		LT
<i>Etheostoma cinereum</i> Storer, 1845	Ashy Darter	G2G3	S1		
<i>Etheostoma collis</i> (Hubbs and Cannon, 1935)	Carolina Darter	G3	S2		LT
<i>Etheostoma denoncourtii</i> Stauffer and van Snik, 1997 = <i>Etheostoma tippecanoe</i> (in part)	Golden Darter	G2	S1		LT
<i>Etheostoma jessiae</i> (Jordan and Brayton, 1878) = <i>Etheostoma stigmaeum jessiae</i>	Blueside Darter	G4	S1		
<i>Etheostoma meadiae</i> (Jordan and Evermann, 1898) = <i>Etheostoma stigmaeum meadiae</i>	Bluespar Darter	G4	S2		
<i>Etheostoma osburni</i> (Hubbs and Trautman, 1932)	Candy Darter	G3	S1	LE	LE
<i>Etheostoma percnurum</i> Jenkins, 1994	Duskytail Darter	G1	S1	LE	LE
<i>Etheostoma swannanoa</i> Jordan and Evermann, 1889	Swannanoa Darter	G4	S2		
<i>Etheostoma variatum</i> Kirtland, 1840	Variagate Darter	G5	S1		LE
<i>Etheostoma vulneratum</i> (Cope, 1870)	Wounded Darter	G3	S2S3		
<i>Fundulus rathbuni</i> Jordan and Meek, 1889	Speckled Killifish	G4	S2		
<i>Hybopsis hypsinotus</i> (Cope, 1870) = <i>Notropis hypsinotus</i>	Highback Chub	G4	S2		
<i>Ichthyomyzon bdellium</i> (Jordan, 1885)	Ohio Lamprey	G3G4	S2		
<i>Ichthyomyzon greeleyi</i> Hubbs and Trautman, 1937	Mountain Brook Lamprey	G4	S2		
<i>Labidesthes sicculus</i> (Cope, 1865)	Brook Silverside	G5	S2		
<i>Lythrurus lirus</i> (Jordan, 1877) = <i>Notropis lirus</i>	Mountain Shiner	G4	S2S3		
<i>Moxostoma carinatum</i> (Cope, 1870)	River Redhorse	G4	S2S3		
<i>Moxostoma sp. 4</i>	Brassy Jumprock	G4	S1S2		
<i>Notropis alborus</i> Hubbs and Raney, 1947	Whitemouth Shiner	G4	S1		LT
<i>Notropis ariommus</i> (Cope, 1867)	Popeye Shiner	G3	S2S3		
<i>Notropis atherinoides</i> Rafinesque, 1818	Emerald Shiner	G5	S1S2		LT
<i>Notropis bifrenatus</i> (Cope, 1867)	Bridle Shiner	G3	S2		



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<b>FISH</b>					
<i>Notropis semperasper</i> Gilbert, 1961	Roughhead Shiner	G2G3	S2S3		
<i>Notropis spectrunculus</i> (Cope, 1868)	Mirror Shiner	G4	S2		
<i>Notropis stramineus</i> (Cope, 1865)	Sand Shiner	G5	S2		
<i>Noturus eleutherus</i> Jordan, 1877	Mountain Madtom	G4	S2S3		
<i>Noturus flavipinnis</i> Taylor, 1969	Yellowfin Madtom	G1	S1	LT	LT
<i>Noturus flavus</i> Rafinesque, 1818	Stonecat	G5	S2		
<i>Noturus gilberti</i> Jordan and Evermann, 1889	Orangefin Madtom	G2	S2		LT
<i>Percina aurantiaca</i> (Cope, 1868)	Tangerine Darter	G4	S2S3		
<i>Percina bimaculata</i> Haldeman, 1844	Chesapeake logperch	G1G2	S1		
<i>Percina burtoni</i> Fowler, 1945	Blotchside Logperch	G2G3	S1		
<i>Percina copelandi</i> (Jordan, 1877)	Channel Darter	G4	S2		
<i>Percina crassa</i> (Jordan and Brayton, 1878)	Piedmont Darter	G4	S1		
<i>Percina evides</i> (Jordan and Copeland, 1877)	Gilt Darter	G4	S2		
<i>Percina maculata</i> (Girard, 1859)	Blackside Darter	G5	S1		
<i>Percina rex</i> (Jordan and Evermann, 1889)	Roanoke Logperch	G1G2	S1S2	LE	LE
<i>Percina sciera</i> (Swain, 1883)	Dusky Darter	G5	S1S2		
<i>Percina williamsi</i> Page and Near, 2007 = <i>Percina macrocephala</i> (in part)	Sickle darter	G2	S1S2	LT	LT
<i>Percopsis omiscomaycus</i> (Walbaum, 1792)	Trout-perch	G5	SX		
<i>Phenacobius crassilabrum</i> Minckley and Craddock, 1962	Fatlips Minnow	G3G4	S2		
<i>Phenacobius mirabilis</i> (Girard, 1856)	Suckermouth Minnow	G5	S1S2		
<i>Phenacobius teretulus</i> Cope, 1867	Kanawha Minnow	G3G4	S2S3		
<i>Pimephales vigilax</i> (Baird and Girard, 1853)	Bullhead Minnow	G5	S1		
<i>Polyodon spathula</i> (Walbaum, 1792)	Paddlefish	G4	S1		LT
<i>Sander canadensis</i> (Griffith and Smith, 1834) = <i>Stizostedion canadense</i>	Sauger	G5	S2S3		
<i>Thoburnia hamiltoni</i> Raney and Lachner, 1946 = <i>Moxostoma hamiltoni</i>	Rustyside Sucker	G3	S2		
<b>AMPHIBIANS</b>					
<i>Ambystoma mabeei</i> Bishop, 1928	Mabee's Salamander	G4	S1S2		LT

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<b>AMPHIBIANS</b>					
<i>Ambystoma talpoideum</i> (Holbrook, 1838)	Mole Salamander	G5	S2		
<i>Ambystoma tigrinum</i> (Green, 1825)	Tiger Salamander	G5	S1		LE
<i>Anaxyrus quercicus</i> (Holbrook, 1840) = <i>Bufo quercicus</i>	Oak Toad	G5	S2		
<i>Cryptobranchus alleganiensis</i> (Daudin, 1803)	Hellbender	G3	S2		
<i>Desmognathus marmoratus</i> (Moore, 1899) = <i>Leurognathus marmoratus</i>	Shovel-nosed Salamander	G4	S1S2		
<i>Desmognathus organi</i> Crespi, Browne, and Rissler, 2010	Northern Pygmy Salamander	G3	S2		
<i>Eurycea wilderae</i> Dunn, 1920	Blue Ridge Two-lined Salamander	G5	S2		
<i>Hyla gratiosa</i> LeConte, 1856	Barking Treefrog	G5	S2S3		
<i>Necturus maculosus</i> (Rafinesque, 1818)	Mudpuppy	G5	S2		
<i>Necturus punctatus</i> (Gibbes, 1850)	Dwarf Waterdog	G5	S2S3		
<i>Plethodon dixi</i> Pope and Fowler, 1949	Dixie Caverns salamander	G1	S1S2		
<i>Plethodon hubrichti</i> Thurow, 1957	Peaks of Otter Salamander	G2G3	S2S3		
<i>Plethodon punctatus</i> Highton, 1972	Cow Knob Salamander	G3	S2S3		
<i>Plethodon shenandoah</i> Highton and Worthington, 1967	Shenandoah Salamander	G1	S1	LE	LE
<i>Plethodon sherando</i> Highton, 2004	Big Levels Salamander	G2	S2		
<i>Plethodon ventralis</i> Highton, 1997	Southern Zigzag Salamander	G4	S1		
<i>Plethodon virginia</i> Highton, 1999	Shenandoah Mountain Salamander	G2G3	S2S3		
<i>Plethodon welleri</i> Walker, 1931	Weller's Salamander	G3	S2		
<i>Siren intermedia</i> Barnes, 1826	Lesser Siren	G5	S2S3		
<b>REPTILES</b>					
<i>Apalone spinifera</i> (LeSueur, 1827) = <i>Trionyx spiniferus</i>	Spiny Softshell	G5	S2		
<i>Caretta caretta</i> (Linnaeus, 1758)	Loggerhead (Sea Turtle)	G3	S1B,S1N	LT	LT
<i>Crotalus horridus</i> [Coastal Plain population] Linnaeus, 1758	Canebrake Rattlesnake	G4T4Q	S1		LE
<i>Deirochelys reticularia</i> (Latrielle, 1801)	Chicken Turtle	G5	S1		LE
<i>Glyptemys insculpta</i> (Le Conte, 1830) = <i>Clemmys insculpta</i>	Wood Turtle	G2G3	S2		LT

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<b>REPTILES</b>					
<i>Glyptemys muhlenbergii</i> (Schoepff, 1801) = <i>Clemmys muhlenbergii</i> Treated as threatened due to similarity of appearance.	Bog Turtle	G2G3	S2	LT/SA	LE
<i>Lampropeltis nigra</i> (Yarrow, 1882) = <i>Lampropeltis getula nigra</i>	Eastern Black Kingsnake	G5	S2		
<i>Lepidochelys kempii</i> (Garman, 1880)	Kemp's Ridley (Sea Turtle)	G1	S1N	LE	LE
<i>Liodytes rigida</i> (Say, 1825) = <i>Regina rigida</i>	Glossy Swampsnake	G5	S1		
<i>Ophisaurus ventralis</i> (Linnaeus, 1766)	Eastern Glass Lizard	G5	S1		LT
<i>Pituophis melanoleucus</i> (Daudin, 1803)	Pine Snake	G4	SH		
<i>Sternotherus minor</i> (Agassiz, 1857)	Loggerhead Musk Turtle	G5	S2		
<i>Trachemys scripta troostii</i> (Holbrook, 1836)	Cumberland Slider	G5T4	S1		
<i>Virginia valeriae pulchra</i> (Richmond, 1954)	Mountain Earthsnake	G5T3T4	S1S2		
<b>BIRDS</b>					
<i>Actitis macularius</i> (Linnaeus, 1766)	Spotted Sandpiper	G5	S1B		
<i>Aegolius acadicus</i> (Gmelin, 1788)	Northern Saw-whet Owl	G5	S1B,S2N		
<i>Ammodramus caudacutus</i> (Gmelin, 1788) = <i>Ammodramus caudacutus</i>	Saltmarsh Sparrow	G2	S2B,S3N		
<i>Aquila chrysaetos</i> (Linnaeus, 1758)	Golden Eagle	G5	SHB,S1N		
<i>Ardea alba</i> Linnaeus, 1758 = <i>Casmerodius albus</i>	Great Egret	G5	S2S3B,S3N		
<i>Asio flammeus</i> (Pontoppidan, 1763)	Short-eared Owl	G5	S1B,S3N		
<i>Asio otus</i> (Linnaeus, 1758)	Long-eared Owl	G5	S1B,S2N		
<i>Bartramia longicauda</i> (Bechstein, 1812)	Upland Sandpiper	G5	SHB		
<i>Botaurus lentiginosus</i> (Rackett, 1813)	American Bittern	G5	S1B,S2N		
<i>Calidris canutus rufa</i> (Wilson, 1813)	Red Knot	G4T2	S2N	LT	LT
<i>Catharus guttatus</i> (Pallas, 1811)	Hermit Thrush	G5	S1S2B,S5N		
<i>Catharus ustulatus</i> (Nuttall, 1840)	Swainson's Thrush	G5	S1B		
<i>Centronyx henslowii</i> (Audubon, 1829) = <i>Ammodramus henslowii</i>	Henslow's Sparrow	G4	S1B		LT
<i>Charadrius melodus</i> Ord, 1824	Piping Plover	G3	S2B,S1N	LT	LT

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<b>BIRDS</b>					
<i>Charadrius wilsonia</i> Ord, 1814	Wilson's Plover	G5	S1B		LE
<i>Chondestes grammacus</i> (Say, 1822)	Lark Sparrow	G5	SHB		
<i>Circus hudsonius</i> (Linnaeus, 1766)	Northern Harrier	G5	S1S2B,S3N		
<i>Cistothorus stellaris</i> (Naumann, 1823)	Sedge Wren	G5	S1B,S1S2N		
<i>Contopus cooperi</i> (Nuttall, 1831) = <i>Nuttallornis borealis</i>	Olive-sided Flycatcher	G4	SHB		
<i>Dolichonyx oryzivorus</i> (Linnaeus, 1758)	Bobolink	G5	S1S2B		
<i>Dryobates borealis</i> (Vieillot, 1809) = <i>Picoides borealis</i>	Red-cockaded Woodpecker	G3	S1	LE	LE
<i>Egretta caerulea</i> (Linnaeus, 1758)	Little Blue Heron	G5	S1B,S3N		
<i>Egretta thula</i> (Molina, 1782)	Snowy Egret	G5	S2B,S3N		
<i>Egretta tricolor</i> (Müller, 1776)	Tricolored Heron	G5	S2B,S3N		
<i>Empidonax alnorum</i> Brewster, 1895	Alder Flycatcher	G5	S1S2B		
<i>Empidonax flaviventris</i> (Baird and Baird, 1843)	Yellow-bellied Flycatcher	G5	SHB		
<i>Eudocimus albus</i> (Linnaeus, 1758)	White Ibis	G5	S1B		
<i>Falco peregrinus</i> Tunstall, 1771	Peregrine Falcon	G4	S1B,S2N		LT
<i>Fulica americana</i> Gmelin, 1789	American Coot	G5	S1B,S5N		
<i>Gallinula galeata</i> (Lichtenstein, 1818) = <i>Gallinula chloropus</i> (in part)	Common Gallinule	G5	S1B,S1N		
<i>Gelochelidon nilotica</i> (Gmelin, 1789) = <i>Sterna nilotica</i>	Gull-billed Tern	G5	S2B		LT
<i>Geothlypis philadelphia</i> (Wilson, 1810) = <i>Oporornis philadelphia</i>	Mourning Warbler	G5	S1B		
<i>Haemorhous purpureus</i> (Gmelin, 1789) = <i>Carpodacus purpureus</i>	Purple Finch	G5	S1B,S5N		
<i>Himantopus mexicanus</i> (Müller, 1776)	Black-necked Stilt	G5	S1B		
<i>Hydroprogne caspia</i> (Pallas, 1770) = <i>Sterna caspia</i>	Caspian Tern	G5	S1B,S2N		
<i>Lanius ludovicianus</i> Linnaeus, 1766	Loggerhead Shrike	G4	S1B,S2N		LT
<i>Laterallus jamaicensis</i> (Gmelin, 1789)	Black Rail	G3	S1B,S1N	LT	LE

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<b>BIRDS</b>					
<i>Limnothlypis swainsonii</i> (Audubon, 1834)	Swainson's Warbler	G4	S2B		
<i>Loxia curvirostra</i> Linnaeus, 1758	Red Crossbill	G5	S1		
<i>Mareca strepera</i> (Linnaeus, 1758) = <i>Anas strepera</i>	Gadwall	G5	S2B,S4N		
<i>Melospiza georgiana nigrescens</i> Bond and Stewart, 1951	Coastal plain swamp sparrow	G5T3	S1B		
<i>Melospiza georgiana georgiana</i> (Latham, 1790)	Swamp Sparrow	G5T5	S1B,S4S5N		
<i>Mergus merganser</i> Linnaeus, 1758	Common Merganser	G5	S2B,S4N		
<i>Nyctanassa violacea</i> (Linnaeus, 1758) = <i>Nycticorax violaceus</i>	Yellow-crowned Night-heron	G5	S2S3B,S3N		
<i>Oreothlypis ruficapilla</i> (Wilson, 1811) = <i>Vermivora ruficapilla</i>	Nashville Warbler	G5	S1B		
<i>Parkesia noveboracensis</i> (Gmelin, 1789) = <i>Seiurus noveboracensis</i>	Northern Waterthrush	G5	S1B		
<i>Pelecanus occidentalis</i> Linnaeus, 1766	Brown Pelican	G4	S2B,S3N		
<i>Peucaea aestivalis</i> (Lichtenstein, 1823) = <i>Aimophila aestivalis</i>	Bachman's Sparrow	G3	SHB		LT
<i>Plegadis falcinellus</i> (Linnaeus, 1766)	Glossy Ibis	G5	S1S2B,S1N		
<i>Podilymbus podiceps</i> (Linnaeus, 1758)	Pied-billed Grebe	G5	S1B,S4N		
<i>Porzana carolina</i> (Linnaeus, 1758)	Sora	G5	S1B,S2N		
<i>Rallus elegans</i> Audubon, 1834	King Rail	G4	S2B,S3N		
<i>Rallus limicola</i> Vieillot, 1819	Virginia Rail	G5	S2B,S3N		
<i>Regulus satrapa</i> Lichtenstein, 1823	Golden-crowned Kinglet	G5	S2B,S5N		
<i>Rynchops niger</i> Linnaeus, 1758	Black Skimmer	G5	S2B,S1N		
<i>Setophaga magnolia</i> (Wilson, 1811) = <i>Dendroica magnolia</i>	Magnolia Warbler	G5	S2B		
<i>Setophaga virens waynei</i> (Bangs, 1918) = <i>Dendroica virens waynei</i>	Wayne's Black-throated Green Warbler	G5T1	S1B		
<i>Spatula discors</i> (Linnaeus, 1766) = <i>Anas discors</i>	Blue-winged Teal	G5	S1B,S2N		
<i>Sphyrapicus varius</i> (Linnaeus, 1766)	Yellow-bellied Sapsucker	G5	S1B,S4N		
<i>Sterna dougallii</i> Montagu, 1813	Roseate Tern	G4	SHB	LE	LE

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<b>BIRDS</b>					
<i>Sterna hirundo</i> Linnaeus, 1758	Common Tern	G5	S2B		
<i>Sternula antillarum</i> Lesson, 1847 = <i>Sterna antillarum</i>	Least Tern	G4	S2B		
<i>Thalasseus maximus</i> (Boddaert, 1783) = <i>Sterna maxima</i>	Royal Tern	G5	S1B		
<i>Thalasseus sandvicensis</i> (Latham, 1787) = <i>Sterna sandvicensis</i>	Sandwich Tern	G5	S1B		
<i>Thryomanes bewickii altus</i> Aldrich, 1944	Appalachian Bewick's Wren	G5T2Q	SHB		LE
<i>Troglodytes hiemalis</i> Vieillot, 1819 = <i>Troglodytes troglodytes</i> (in part)	Winter Wren	G5	S2B,S4N		
<b>MAMMALS</b>					
<i>Corynorhinus rafinesquii macrotis</i> (Le Conte, 1831) = <i>Plecotus rafinesquii macrotis</i>	Eastern Big-eared Bat	G3G4T3	S2		LE
<i>Corynorhinus townsendii virginianus</i> Handley, 1955 = <i>Plecotus townsendii virginianus</i>	Virginia Big-eared Bat	G4T3	S1	LE	LE
<i>Erethizon dorsatum</i> (Linnaeus, 1758)	Porcupine	G5	S1		
<i>Glaucomys sabrinus coloratus</i> Handley, 1953	Carolina Northern Flying Squirrel	G5T2	S1	LE	LE
<i>Glaucomys sabrinus fuscus</i> Miller, 1936	Virginia Northern Flying Squirrel	G5T2T3	S1		
<i>Lepus americanus</i> Erxleben, 1777	Snowshoe Hare	G5	SX		LE
<i>Microtus chrotorrhinus carolinensis</i> Komarek, 1932	Southern Rock Vole	G5T3	S1		LE
<i>Myotis austroriparius</i> (Rhoads, 1897)	Southeastern Myotis	G4	S2		
<i>Myotis grisescens</i> A.H. Howell, 1909	Gray Bat	G3G4	S1	LE	LE
<i>Myotis leibii</i> (Audubon and Bachman, 1842)	Eastern Small-footed Bat	G4	S2		
<i>Myotis lucifugus</i> (Le Conte, 1831)	Little Brown Myotis	G3G4	S1S3		LE
<i>Myotis septentrionalis</i> (Trovessart, 1897) Currently still listed as Federally Threatened; New Federally Endangered Status is effective as of Jan. 30, 2023	Northern long-eared Myotis	G2G3	S1S3	LE	LT
<i>Myotis sodalis</i> Miller and Allen, 1928	Indiana Bat	G2	S1	LE	LE
<i>Pekania pennanti</i> (Erxleben, 1777) = <i>Martes pennanti</i>	Fisher	G5	S1		
<i>Perimyotis subflavus</i> (Menu, 1984)	Tricolored bat (=Eastern pipistrelle)	G3G4	S1S3	PE	LE

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<b>MAMMALS</b>					
<i>Pipistrellus subflavus</i>					
<i>Puma concolor cougar</i> (Kerr, 1792)	Eastern Cougar (= mountain lion, puma)	G5TXQ	SX		LE
<i>Felis concolor cougar</i>					
<i>Sciurus niger cinereus</i> Linnaeus, 1758	Delmarva Fox Squirrel	G5T3	S1		
<i>Sorex palustris punctulatus</i> Hooper, 1942	Southern Water Shrew	G5T3	S1S2		LE

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<b>INVERTEBRATES</b>					
<b>TURBELLARIA (Flatworms)</b>					
<i>Geocentrophora cavernicola</i> Carpenter, 1970	A Cave Planarian	G2	S1		
<i>Procotyla typhlops</i> Kenk, 1935	A Groundwater Planarian	G1G2	S1S2		
<i>Sphalloplana chandleri</i> Kenk, 1977	Chandler's Planarian	G1G2	S1		
<i>Sphalloplana consimilis</i> Kenk, 1977	Powell Valley Planarian	G2G3	S1		
<i>Sphalloplana holsingeri</i> Kenk, 1977	Holsinger's Groundwater Planarian	G1G2	SH		
<i>Sphalloplana hypogea</i> Kenk, 1984	A Groundwater Planarian	G1G2	S1S2		
<i>Sphalloplana subtilis</i> Kenk, 1977	Bigger's Groundwater Planarian	G1G2	SH		
<i>Sphalloplana virginiana</i> Hyman, 1945	Rockbridge County Cave Planarian	G1	S1		
<b>GASTROPODA (Snails)</b>					
<i>Anguispira jessica</i> Kutchka, 1938 = <i>Anguispira alternata jessica</i>	Mountain Disc	G3G4	S1		
<i>Elimia arachnoidea</i> (Anthony, 1854) = <i>Goniobasis arachnoidea</i>	Spider Elimia	G2G3	S2		LE
<i>Fontigens bottimeri</i> (Walker, 1925)	Appalachian Springsnail	G2G3	S2S3		LE
<i>Fontigens morrisoni</i> Hershler, Holsinger, and Hubricht, 1990	Virginia Springsnail	G2	S2		LE
<i>Fontigens tartarea</i> Hubricht, 1963	Organ cavesnail	G2	S1S2		
<i>Fumonelix wheatleyi clingmanicus</i> (Pilsbry, 1904) = <i>Mesodon clingmanicus</i>	Clingman Covert	G4T2T3	S1S2		
<i>Glyphyalinia raderi</i> (Dall, 1898)	Maryland Glyph	G2	S1S2		
<i>Helicodiscus diadema</i> Grimm, 1967	Shaggy Coil	G1	S1		LE
<i>Helicodiscus lirellus</i> Hubricht, 1975	Rubble Coil	G1	S1		LE
<i>Helicodiscus multidentis</i> Hubricht, 1962	Twilight Coil	G3	S2		
<i>Helicodiscus triodus</i> Hubricht, 1958	Talus Coil	G1	S1S2		
<i>Holsingeria unthinksensis</i> Hershler, 1989	Thankless ghostsnail	G2	S2		LE
<i>Io fluvialis</i> (Say, 1825)	Spiny Riversnail	G1G2	S2		LT
<i>Mesodon andrewsae</i> W.G. Binney, 1879	Balsam Globe	G3	S1		
<i>Millerelix plicata</i> (Say, 1821) = <i>Polygyra plicata</i>	Cumberland Liptooth	G4	S1S3		



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<b>GASTROPODA (Snails)</b>					
<i>Pallifera hemphilli</i> (W.G. Binney, 1885)	Black Mantleslug	G4	S1		
<i>Paravitrea blarina</i> Hubricht, 1963	Shrew Supercoil	G3	S1		
<i>Paravitrea dentilla</i> Hubricht, 1978	Comb Supercoil	G1	S1		
<i>Paravitrea hera</i> Hubricht, 1983	Spirit Supercoil	G1	S1		LE
<i>Paravitrea mira</i> Hubricht, 1975	Funnel Supercoil	G1G2	S2		
<i>Paravitrea septadens</i> Hubricht, 1978	Brown Supercoil	G1	S1		LT
<i>Paravitrea seradens</i> Hubricht, 1972	Barred Supercoil	G3	S1S3		
<i>Paravitrea subtilis</i> Hubricht, 1978	Slender Supercoil	G2	S1S2		
<i>Pleurocera gradata</i> (Anthony, 1854)	Bottle Hornsnail	G1G2	SU		
<i>Polygyriscus virginianus</i> (P.R. Burch, 1947)	Virginia Fringed Mountain Snail(=Virginia coil)	G1	S1	LE	LE
<i>Somatogyrus virginicus</i> Walker, 1904	Pandhandle Pebblesnail	G2G3	S2		
<i>Stagnicola neopalustris</i> (F.C. Baker, 1911)	Piedmont Pondsnailed	GH	SH		
<i>Stenotrema altispira</i> (Pilsbry, 1894)	Highland Slitmouth	G3	S1		
<i>Triodopsis picea</i> Hubricht, 1958	Spruce Knob Three-tooth	G3	S1		
<i>Ventridens coelaxis</i> (Pilsbry, 1899)	Bidentate Dome	G3	S2		
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Alasmidonta heterodon</i> (I. Lea, 1829)	Dwarf Wedgemussel	G1G2	S1	LE	LE
<i>Alasmidonta marginata</i> Say, 1818	Elktoe	G4	S1S2		
<i>Alasmidonta varicosa</i> (Lamarck, 1819)	Brook Floater	G3	S1		LE
<i>Alasmidonta viridis</i> (Rafinesque, 1820)	Slippershell Mussel	G4G5	S1		LE
= <i>Alasmidonta minor</i>					
<i>Cyclonaias pustulosa</i> (I. Lea, 1831)	Pimpleback	G5	S2		LT
= <i>Quadrula pustulosa</i>					
<i>Cyprogenia stegaria</i> (Rafinesque, 1820)	Fanshell	G1	S1	LE	LE
= <i>Cyprogenia irrorata</i>					
<i>Dromus dromas</i> (I. Lea, 1834)	Dromedary Pearlymussel	G1	S1	LE	LE
<i>Elliptio crassidens</i> (Lamarck, 1819)	Elephant Ear	G5	S1		LE
<i>Elliptio lanceolata</i> (I. Lea, 1828)	Yellow Lance	G2	S2	LT	LT
<i>Elliptio roanokensis</i> (I. Lea, 1838)	Roanoke Slabshell	G3	S2		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Epioblasma aureola</i> Jones and Neves, 2010 <small>Virginia populations are listed as federally and state endangered under the name Golden Riffleshell (Epioblasma florentina aureola)</small>	Golden Riffleshell	G1	S1	LE	LE
<i>Epioblasma brevidens</i> (I. Lea, 1831)	Cumberland Combshell	G1	S1	LE	LE
<i>Epioblasma capsaeformis</i> (I. Lea, 1834)	Oyster Mussel	G1	S1	LE	LE
<i>Epioblasma gubernaculum</i> (Reeve, 1865)	Green Blossom	GX	SX		LE
<i>Epioblasma triquetra</i> (Rafinesque, 1820)	Snuffbox	G2G3	S1	LE	LE
<i>Fusconaia cor</i> (Conrad, 1834) = <i>Fusconaia edgariana</i>	Shiny Pigtoe	G1	S1	LE	LE
<i>Fusconaia cuneolus</i> (I. Lea, 1840)	Fine-rayed Pigtoe	G1	S1	LE	LE
<i>Fusconaia masoni</i> (Conrad, 1834) = <i>Lexingtonia subplana</i>	Atlantic Pigtoe	G1	S2	LT	LT
<i>Hemistena lata</i> (Rafinesque, 1820) = <i>Lastena lata</i>	Cracking Pearlymussel	G1	S1	LE	LE
<i>Lampsilis abrupta</i> (Say, 1831) = <i>Lampsilis orbiculata</i>	Pink Mucket	G1G2	SX	LE	LE
<i>Lampsilis cariosa</i> (Say, 1817)	Yellow Lampmussel	G3G4	S2		
<i>Lampsilis radiata</i> (Gmelin, 1791)	Eastern Lampmussel	G5	S2S3		
<i>Lasmigona holstonia</i> (I. Lea, 1838)	Tennessee Heelsplitter	G3	S1		LE
<i>Lasmigona subviridis</i> (Conrad, 1835)	Green Floater	G2G3	S2	PT	LT
<i>Lemiox rimosus</i> (Rafinesque, 1831) = <i>Conradilla caelata</i>	Birdwing Pearlymussel	G1	S1	LE	LE
<i>Ligumia recta</i> (Lamarck, 1819)	Black Sandshell	G4G5	S2		LT
<i>Margaritifera monodonta</i> (Say, 1829) = <i>Cumberlandia monodonta</i>	Spectaclecase	G2	S1	LE	LE
<i>Parvaspina collina</i> (Conrad, 1837) = <i>Pleurobema collina</i>	James Spiny mussel	G1	S1	LE	LE
<i>Pegias fabula</i> (I. Lea, 1838)	Little-winged Pearlymussel	G1	S1	LE	LE
<i>Plethobasus cyphyus</i> (Rafinesque, 1820)	Sheepnose	G2G3	S1	LE	LE
<i>Pleurobema cordatum</i> (Rafinesque, 1820)	Ohio Pigtoe	G4	S1		LE
<i>Pleurobema oviforme</i> (Conrad, 1834)	Tennessee Clubshell	G2G3	S2S3	PE	

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Pleurobema plenum</i> (I. Lea, 1840)	Rough Pigtoe	G1	SH	LE	LE
<i>Pleurobema rubrum</i> (Rafinesque, 1820) = <i>Pleurobema pyramidatum</i>	Pyramid Pigtoe	G2	SH	PT	LE
<i>Pleurobema barnesiana</i> (I. Lea, 1838) = <i>Fusconaia barnesiana</i>	Tennessee Pigtoe	G2G3	S2	PE	
<i>Pleurobema dolabelloides</i> (I. Lea, 1840) = <i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel	G2	S2	LE	LE
<i>Potamilus fragilis</i> (Rafinesque, 1820) = <i>Leptodea fragilis</i>	Fragile Papershell	G5	S1		LT
<i>Ptychobranchus subtentus</i> (Say, 1825)	Fluted Kidneyshell	G2?	S2	LE	LE
<i>Theliderma cylindrica</i> (Say, 1817) = <i>Quadrula cylindrica</i>	Rabbitsfoot	G3	S2	LE	LE
<i>Theliderma intermedia</i> (Conrad, 1836) = <i>Quadrula intermedia</i>	Cumberland Monkeyface	G1	S1	LE	LE
<i>Theliderma sparsa</i> (Lea, 1841) = <i>Quadrula sparsa</i>	Appalachian Monkeyface	G1	S1	LE	LE
<i>Toxolasma lividum</i> Rafinesque, 1831 = <i>Carunculina glans</i> = <i>Carunculina lividus</i>	Purple Liliput	G3	SH		LE
<i>Tritogonia verrucosa</i> (Rafinesque, 1820) = <i>Quadrula verrucosa</i>	Pistolgrip	G4G5	S2		LT
<i>Truncilla truncata</i> Rafinesque, 1820	Deertoe	G5	S1		LE
<i>Venustaconcha trabalis</i> (Conrad, 1834) = <i>Villosa perpurpurea</i> = <i>Villosa trabalis</i>	Tennessee Bean	G1	S1	LE	LE
<i>Villosa fabalis</i> (I. Lea, 1831)	Rayed Bean	G2	SX	LE	LE
<b>ANNELIDA (Segmented Worms)</b>					
<i>Spelaedrillus multiporus</i> Cook, 1975	A Cave Lumbriculid Worm	G1	S1		
<i>Stylodrilus beattiei</i> Cook, 1975	A Cave Lumbriculid Worm	G1	S1		
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<b>Spiders</b>					
<i>Anahita punctulata</i> (Hentz, 1844)	Southeastern Wandering Spider	G4	S2		
<i>Anthrobia coylei</i> Miller, 2005	A spider	G2?	S1		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<i>Anthrobia monmouthia</i> Tellkamp, 1844 = <i>Anthrobia mammouthia</i>	A Cave Spider	G5	S2		
<i>Bathypantes weyeri</i> (Emerton, 1875)	A Cave Spider	G4	S1		
<i>Hypochilus thorelli</i> Marx, 1888	Thorell's Lampshade-web Spider	G4	S1		
<i>Islandiana muma</i> Ivie, 1965	A Cave Spider	G1G2	S1		
<i>Microhexura montivaga</i> Crosby and Bishop, 1925	Spruce-fir moss spider	G2	S1	LE	
<i>Nesticus mimus</i> Gertsch, 1984	A Cave Spider	G3?	S1		
<i>Nesticus paynei</i> Gertsch, 1984	A Cave Spider	G3G4	S1		
<b>Mites</b>					
<i>Traegaardhia paralleloseta</i> (Zacharda, 1985) = <i>Foveacheles paralleloseta</i>	A Cave Mite	G1	S1		
<b>Pseudoscorpions</b>					
<i>Apochthonius coecus</i> (Packard, 1884)	A Cave Pseudoscorpion	G1G2	S1		
<i>Apochthonius holsingeri</i> Muchmore, 1967	A Cave Pseudoscorpion	G1G2	S1		
<i>Chitrella superba</i> Muchmore, 1973	A Cave Pseudoscorpion	G1	S1		
<i>Chitrella</i> sp. 1	A Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius anophthalmus</i> Muchmore, 1970	A Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius binoculatus</i> Muchmore, 1974	A Cave Pseudoscorpion	G1G2	S1S2		
<i>Kleptochthonius gertschi</i> Malcolm and Chamberlin, 1961	Gertsch's Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius lutzii</i> Malcolm and Chamberlin, 1961	Lutz's Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius proximisetus</i> Muchmore, 1976	A Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius regulus</i> Muchmore, 1970	A Cave Pseudoscorpion	G1G2	S1		
<i>Kleptochthonius similis</i> Muchmore, 1976	A Cave Pseudoscorpion	G1	S1		
<i>Kleptochthonius</i> sp. 1 Muchmore = <i>Kleptochthonius</i> sp. B	A Cave Pseudoscorpion	G1	S1		
<i>Lissocreagris valentinei</i> (Chamberlin, 1962)	Valentine's Cave Pseudoscorpion	G1	S1		
<i>Mundochthonius holsingeri</i> Benedict and Malcolm, 1974	A Cave Pseudoscorpion	G1	S1		
<b>Scorpions</b>					
<i>Vaejovis carolinianus</i> Beauvois	Carolina Scorpion	G5	S1		

**CRUSTACEA (Amphipods, Isopods, Decapods & Branchiopods)**

**Amphipods**

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<i>Bactrurus angulus</i> Koenemann and Holsinger, 2001	Cumberland Gap Cave Amphipod	G1	S1		
<i>Crangonyx baculispinus</i> Zhang and Holsinger, 2003	Lancaster County amphipod	G1	S1		
<i>Crangonyx fontinalis</i> Zhang and Holsinger, 2003	Bland County Amphipod	G1	S1		
<i>Stygobromus baroodyi</i> Holsinger, 1978	Rockbridge County Cave Amphipod	G2G3	S1S2		
<i>Stygobromus biggersi</i> Holsinger, 1978	Bigger's Cave Amphipod	G2G4	S1S2		
<i>Stygobromus conradi</i> (Holsinger, 1967)	Burnsville Cove Cave Amphipod	G2G3	S1S2		
<i>Stygobromus cumberlandus</i> Holsinger, 1978	Cumberland Cave Amphipod	G3G4	S1S2		
<i>Stygobromus ephemerus</i> (Holsinger, 1969)	Ephemeral Cave Amphipod	G1G2	S1		
<i>Stygobromus fergusonii</i> Holsinger, 1978	Montgomery County Cave Amphipod	G2G3	S1		
<i>Stygobromus finleyi</i> Holsinger, 1978	Finley's Cave Amphipod	G3G4	S1		
<i>Stygobromus hoffmani</i> Holsinger, 1978	Alleghany County Cave Amphipod	G2	S2		
<i>Stygobromus hubbardi</i> Holsinger, 2009	Hupp's Hill Cave Amphipod	G1	S1		
<i>Stygobromus interitus</i> Holsinger, 1978	New Castle Murder Hole Amphipod	G1G2	SH		
<i>Stygobromus kenki</i> Holsinger, 1978	Rock Creek Groundwater Amphipod	G2	S1		
<i>Stygobromus leensis</i> Holsinger, 1978	Lee County Cave Amphipod	G1G2	S1S2		
<i>Stygobromus mausi</i> Holsinger, 2009	Round Hill Cave Amphipod	G1	S1		
<i>Stygobromus morrisoni</i> (Holsinger, 1967)	Morrison's Cave Amphipod	G2G3	S1S2		
<i>Stygobromus mundus</i> (Holsinger, 1967)	Bath County Cave Amphipod	G2G3	S1S2		
<i>Stygobromus obrutus</i> Holsinger, 1978	Pittsylvania Well Amphipod	G1G2	SH		
<i>Stygobromus phreaticus</i> Holsinger, 1978	Northern Virginia Well Amphipod	G1	S1		
<i>Stygobromus pizzinii</i> (Shoemaker, 1938)	Pizzini's Amphipod	G3G4	S1S2		
<i>Stygobromus pseudospinosus</i> Holsinger, 1978	Luray Caverns Amphipod	G1	S1		
<i>Stygobromus sextarius</i> Holsinger, 2009	Capital area groundwater amphipod	G1	S1		
<i>Stygobromus stegerorum</i> Holsinger, 1978	Madison Cave Amphipod	G1	S1		LT
<i>Stygobromus</i> sp. 7	Sherando Spinosoid Amphipod	G2	S2		
<i>Stygobromus</i> sp. 8	A Groundwater Amphipod	G2G3	S2S3		

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<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<i>Stygobromus</i> sp. 16	Helsley's Cave Amphipod	G1	S1		
<i>Stygobromus</i> sp. 17	Massanutten Spring Amphipod	G2	S2		
<i>Stygobromus</i> sp. 18	Big Levels Spring Amphipod	G1?	S1?		
<i>Stygobromus</i> sp. 23	Shenandoah Mountain Spring Amphipod	G1?	S1?		
<b>Isopods</b>					
<i>Amerigoniscus henroti</i> Vandel, 1950	Powell Valley Terrestrial Cave Isopod	G3	S1S2		
<i>Antrrolana lira</i> Bowman, 1964	Madison Cave Isopod	G2G4	S2	LT	LT
<i>Caecidotea attenuata</i> (H. Richardson, 1900)	Dismal Swamp Isopod	G1G3	S1S3		
<i>Caecidotea bowmani</i> Lewis, 1980	Natural Bridge Cave Isopod	G1	S1S2		
<i>Caecidotea cumberlandensis</i> Lewis, 2000	Cumberland Cave Isopod	G1G2	S1		
<i>Caecidotea incurva</i> (Steeves, 1968)	Incurved Cave Isopod	G2G4	S2		
<i>Caecidotea mausi</i> Lewis, 2009	Maus' cave isopod	G2	S1		
<i>Caecidotea nickajackensis</i> (Cope and Packard, 1881)	Nickajack Cave isopod	G1	S1		
<i>Caecidotea phreatica</i> Lewis and Holsinger, 1985	Phreatic Isopod	G2G3	S1S3		
<i>Ligidium elrodii</i> (Packard, 1873)	a cave obligate isopod	G4G5	S2		
<i>Lirceus culveri</i> Estes and Holsinger, 1976	Rye Cove Isopod	G1	S1		
<i>Lirceus usdagalun</i> Holsinger and Bowman, 1973	Lee County Cave Isopod	G1	S1	LE	LE
<i>Miktoniscus racovitza</i> Vandel, 1950	Racovitza's Terrestrial Cave Isopod	G3G4	S2		
<i>Pseudobaicalasellus henroti</i> = <i>Caecidotea henroti</i>	Henrot's Cave Isopod	G2	S2		
<b>Decapods</b>					
<i>Cambarus callainus</i> Thoma, Loughman, and Fetzner, 2014 = <i>Cambarus veteranus</i> (in part)	Big Sandy Crayfish	G2	S1S2	LT	LT
<i>Cambarus fetzneri</i> Loughman, Welsh, and Thoma, 2019 = <i>Cambarus monongalensis</i> (in part)	Blue crayfish	G3G4	S1S2		
<i>Cambarus hatfieldi</i> Loughman, Fagundo, Lau, Welsh, and Thoma, 2013	Tug Valley Crayfish	G3	S1		
<i>Cambarus jezerinaci</i> Thoma, 2000	Spiny scale crayfish	G3?	S2		
<i>Cambarus magerae</i> Thoma and Fetzner, 2015	Big Stone crayfish	GNR	S1		
<i>Cambarus theepiensis</i> Loughman, Foltz, Garrison and Welsh, 2013	Coalfields crayfish	GNR	S2		

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<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<i>Faxonius erichsonianus</i> (Faxon, 1898) = <i>Orconectes erichsonianus</i>	Reticulate crayfish	G5	S2		
<i>Macrobrachium ohione</i> Smith, 1874	Ohio River Shrimp	G4	S1		
<b>DIPLOPODA (Millipedes)</b>					
<i>Apheloria whiteheadi</i> (Shelley, 1986) = <i>Sigmoria whiteheadi</i> Listed as state threatened under the name <i>Sigmoria whiteheadi</i> .	Laurel Creek Xystodesmid Millipede	G1	S1		LT
<i>Appalachioria falcifera</i> (Keeton, 1959) = <i>Brachoria falcifera</i>	Big Cedar Creek Millipede	G1	S1		
<i>Appalachioria separanda hamata</i> (Keeton, 1959) = <i>Brachoria separanda hamata</i>	A Millipede	G3T2	S2		
<i>Appalachioria separanda versicolor</i> (Hoffman, 1963) = <i>Brachoria separanda versicolor</i>	A Millipede	G3T2	S2		
<i>Appalachioria turneri</i> (Keeton, 1959) = <i>Brachoria turneri</i>	Turner's Millipede	G1	S1		
<i>Boraria infesta</i> (Chamberlin, 1918)	A Millipede	G4	S2		
<i>Brachoria cedra</i> Keeton, 1959	cedar glade mimic millipede	G2G3	S2S3		
<i>Brachoria dentata</i> Keeton, 1959	Pennington Gap mimic millipede	G2G3	S2S3		
<i>Brachoria hoffmani</i> Keeton, 1959	Hoffman's mimic millipede	G2G3	S2S3		
<i>Brachoria insolita</i> Keeton, 1959	High Knob mimic millipede	G1	S1		
<i>Brachoria laminata</i> Keeton, 1959	Harman mimic millipede	GU	S1		
<i>Brachoria mendota</i> Keeton, 1959	Mendota mimic millipede	G3	S2S3		
<i>Brachoria sheari</i> Marek, 2010	Shear's mimic millipede	G1	S1		
<i>Brachoria virginia</i> Marek, 2010	Virginia mimic millipede	G1	S1S3		
<i>Cherokia georgiana latassa</i> Hoffman, 1960	A Millipede	G4TNR	S1		
<i>Cleidogona lachesis</i> Shear, 1972	A Millipede	G2	S1S3		
<i>Cleidogona medialis</i> Shelley, 1976	Blowing Rock Millipede	G3G4	S2?		
<i>Conotyla aeto</i> Shear, 1971	Aeto Millipede	G1	S1		
<i>Conotyla celeno</i> Shear, 1971	Celeno Millipede	G1	S1		
<i>Conotyla venetia</i> Hoffman, 1961	Venetia Millipede	G1	S2		
<i>Desmonus earlei</i> Cook, 1898	Earle's millipede	G5	S1		
<i>Dixioria brooksi</i> Hoffman, 1956	Brooks Millipede	G1	S1		
<i>Dixioria fowleri</i> Hoffman, 1956	A Millipede	G2	S2		
<i>Dixioria pela coronata</i> Hoffman, 1949	A Millipede	G2T2	S2		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>DIPLOPODA (Millipedes)</b>					
= <i>Dixioria coronata</i>					
<i>Nannaria simplex</i> Hoffman, 1949	A Millipede	G1	S1		
<i>Nannaria</i> sp. 1 Hoffman (in press)	Roaring Branch <i>Nannaria</i> Millipede	G1?	S1?		
<i>Pseudotremia armesi</i> Shear, 1972	Armes' rough-backed millipede	G2	S2		
<i>Pseudotremia cavernarum</i> Cope, 1869	Ellett Valley <i>Pseudotremia</i> Millipede	G2G3	S1		LT
<i>Pseudotremia cerberus</i> Shear, 2011	Cerberus cave millipede	G1	S1		
<i>Pseudotremia contorta</i> Shear, 2011	twisted-gonopod cave millipede	G1	S1		
<i>Pseudotremia culveri</i> Shear, 2011	Culver's cave millipede	G1	S1		
<i>Pseudotremia deprehendor</i> Shear, 1972	A Cave Obligate Millipede	G1	S1S3		
<i>Pseudotremia fergusonii</i> Shear, 2011	Ferguson's cave millipede	G1	S1		
<i>Pseudotremia fremens</i> Shear, 2011	Roaring Branch rough-backed millipede	G1	S1		
<i>Pseudotremia hubbardi</i> Shear, 2011	Hubbard's cave millipede	G1G2	S1S2		
<i>Pseudotremia inexpectata</i> Shear, 2011	Devault's cave millipede	G1	S1		
<i>Pseudotremia jaculohamatum</i> Shear, 2011	harpoon cave millipede	G1	S1		
<i>Pseudotremia johnholsingeri</i> Shear, 2011	Holsinger's cave millipede	G1	S1		
<i>Pseudotremia loomisi</i> Shear, 2011	Loomis' rough-backed millipede	G1	S1		
<i>Pseudotremia momus</i> Shear, 1972	A Millipede	G2	S2		
<i>Pseudotremia orndorffi</i> Shear, 2011	Orndorff's cave millipede	G2	S2		
<i>Pseudotremia peponocranium</i> Shear, 2011	pumpkin-headed cave millipede	G1	S1		
<i>Pseudotremia piscator</i> Shear, 2011	Fisher Cave millipede	G1	S1		
<i>Pseudotremia princeps</i> Loomis, 1939	South Branch Valley Cave Millipede	G1	S1		
<i>Pseudotremia ryensis</i> Shear, 2011	Rye Cove cave millipede	G1	S1		
<i>Pseudotremia salifodina</i> Shear, 2011	Jones' Saltpetre Cave millipede	G1	S1		
<i>Pseudotremia sublevis</i> Loomis, 1944	A Millipede	G2G3	S2S3		
<i>Pseudotremia tuberculata</i> Loomis, 1939	A Millipede	G3	S2		



Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>DIPLOPODA (Millipedes)</b>					
<i>Pseudotremia valga</i> Loomis, 1943	A Millipede	G1G2	S1S2		
<i>Rhysodesmus restans</i> Hoffman, 1998	Relictual Appalachian Millipede	G1G2	S1		
<i>Zygonopus weyeriensis</i> Causey, 1960 = <i>Trichopetalum weyeriensis</i>	Grand Caverns Blind Cave Millipede	G3G4	S2		
<i>Zygonopus whitei</i> Ryder, 1881 = <i>Trichopetalum whitei</i>	Luray Caverns Blind Cave Millipede	G3G4	S2		
<b>CHILOPODA (Centipedes)</b>					
<i>Escaryus cryptorobius</i> Pereira and Hoffman, 1993	Montane Centipede	G2	S2		
<i>Escaryus orestes</i> Pereira and Hoffman, 1993	Whitetop Mountain Centipede	G1	S1S2		
<i>Nampabius turbator</i> Crabill, 1952	A Cave Centipede	G1	S1		
<b>INSECTS</b>					
<b>COLLEMBOLA (Springtails)</b>					
<i>Oncopodura hubbardi</i> Christiansen and Bellinger, 1996	A Cave Springtail	G2	S1S2		
<i>Paleonura petebellingeri</i> Palacios-Vargas and Benito, 2007	A cave springtail	G1	S1		
<i>Pseudosinella bona</i> Christiansen and Bellinger, 1996	A Cave Springtail	G2	S2		
<i>Pseudosinella erehwon</i> Christiansen and Bellinger, 1996	A Cave Springtail	G2	S2		
<i>Pseudosinella extra</i> Christiansen and Bellinger, 1996	A Cave Springtail	G1G2	S1		
<i>Pseudosinella flatua</i> Christiansen and Bellinger, 1996	A cave springtail	G1G2	S1S2		
<i>Pseudosinella gisini virginia</i> Christiansen and Bellinger, 1996	A Cave Springtail	G3G4T2	S2		
<i>Pseudosinella hirsuta</i> (Delmare DeBoutteville, 1949)	A Cave Springtail	G5	S1		
<i>Pseudosinella testa</i> Christiansen and Bellinger, 1980	Shelled cave springtail	G2G3	S1		
<i>Pseudosinella vespera</i> Christiansen and Bellinger, 1996	A cave springtail	G2	S1S2		
<i>Pygmarrhopalites caedus</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G3	S1S2		
<i>Pygmarrhopalites commorus</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G2G3	S2S3		
<i>Pygmarrhopalites lacuna</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G1	S1S2		

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<b>COLLEMBOLA (Springtails)</b>					
<i>Pygmarrhopalites obtusus</i> (Zeppelini and Christiansen, 2003)	A Cave Springtail	G1	S1		
<i>Pygmarrhopalites sacer</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G2	S2		
<i>Pygmarrhopalites sextus</i> (Zeppelini and Christiansen, 2003)	A Cave Springtail	G1	S1		
<i>Pygmarrhopalites silvus</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G2	S1S2		
<i>Speleonura kenchristianseni</i> Palacios-Vargas and Benito, 2007	A cave springtail	G1	S1		
<i>Typhlogastrura valentini</i> Thibaud, 1996	A Cave Springtail	G1	S1		
<b>DIPLURA (Diplurans)</b>					
<i>Litocampa fieldingae</i> (Conde, 1949)	A Cave Obligate Dipluran	G2G3	S1S3		
<i>Litocampa pucketti</i> Conde and Bareth, 1996	Puckett's Cave Dipluran	G1G2	S1S2		
<i>Litocampa</i> sp. 1	A Cave Dipluran (Salamander Cave)	G1	S1		
<i>Litocampa</i> sp. 2	A Cave Dipluran (Ward Cove)	G1	S1		
<i>Litocampa</i> sp. 4	A Cave Dipluran (Rye Cove)	G2	S1S2		
<b>EPHEMEROPTERA (Mayflies)</b>					
<i>Baetisca rubescens</i> (Provancher, 1878)	A Mayfly	G3G4	S1		
<i>Barbaetis benfieldi</i> Kennedy, 1985	Benfield's Bearded Small Minnow Mayfly	G2G4	S1		
<i>Habrophlebiodes celeteria</i> Berner, 1975	A Mayfly	G2G4	S2		
<i>Heptagenia townesi</i> Traver, 1935	A flat-headed mayfly	G2G3	S1S3		
<i>Homoeoneuria cahabensis</i> Pescador and Peters, 1980	Cahaba Sand-filtering Mayfly	G3	SU		
<i>Isonychia hoffmani</i> Kondratieff and Voshell, 1984	Hoffman's Isonychia Mayfly	G1G3	S1		
<i>Isonychia serrata</i> Traver, 1932	A Mayfly	G4	S1S3		
<i>Leptophlebia johnsoni</i> McDunnough, 1924	Johnson's Pronggill Mayfly	G4	SH		
<i>Neophemera eatoni</i> Holland, Beaty and Jacobus, 2016	A Mayfly	GNR	S1?		
<i>Nixe spinosa</i> (Traver, 1933)	A flat-headed mayfly	G5	S1S3		
<i>Pseudiron centralis</i> McDunnough, 1931	White sand-river mayfly	G5	S1		
<i>Siphloplecton costalense</i> Spieth, 1938	Spieth's Great Speckled Olive Mayfly	G2G4	SH		

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<b>EPHEMEROPTERA (Mayflies)</b>					
<i>Tsalia berneri</i> (Allen and Edmunds, 1958) = <i>Ephemerella berneri</i>	Berner's Ephemerella Mayfly	G4	S2		
<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<b>Damselflies</b>					
<i>Calopteryx aequabilis</i> Say, 1839	River Jewelwing	G5	SH		
<i>Calopteryx amata</i> Hagen, 1889	Superb Jewelwing	G5	S1		
<i>Enallagma annexum</i> (Hagen, 1861) = <i>Enallagma cyathigerum</i> (in part)	Northern Bluet	G5	S1		
<i>Enallagma carunculatum</i> Morse, 1895	Tule bluet	G5	SH		
<i>Enallagma ebrium</i> (Hagen, 1861)	Marsh Bluet	G5	S1		
<i>Enallagma pallidum</i> Root, 1923	Pale Bluet	G4	S1S2		
<i>Lestes disjunctus</i> Selys, 1862	Common Spreadwing	G5	S2		
<i>Nehalennia gracilis</i> Morse, 1895	Sphagnum Sprite	G5	S2		
<i>Nehalennia irene</i> (Hagen, 1861)	Sedge Sprite	G5	S1S2		
<b>Dragonflies</b>					
<i>Aeshna canadensis</i> Walker, 1908	Canada Darner	G5	S1		
<i>Aeshna constricta</i> Say, 1839	Lance-tipped Darner	G5	SH		
<i>Aeshna tuberculifera</i> Walker, 1908	Black-tipped Darner	G5	S2S3		
<i>Aeshna verticalis</i> Hagen, 1861	Green-striped Darner	G5	S1		
<i>Argomphus furcifer</i> (Hagen in Selys, 1878)	Lilypad Clubtail	G5	SH		
<i>Argomphus pallidus</i> (Rambur, 1842)	Gray-green Clubtail	G5	S1		
<i>Celithemis martha</i> Williamson, 1922	Martha's Pennant	G4	S2		
<i>Celithemis ornata</i> (Rambur, 1842)	Faded Pennant	G5	S1		
<i>Cordulegaster diastatops</i> (Selys, 1854)	Delta-spotted Spiketail	G5	S1		
<i>Coryphaeschna ingens</i> (Rambur, 1842)	Regal Darner	G5	S1		
<i>Epiptera canis</i> (McLachlan, 1886) = <i>Tetragoneuria canis</i>	Beaverpond Baskettail	G5	S1		
<i>Epiptera semiaquea</i> (Burmeister, 1839) = <i>Tetragoneuria semiaquea</i>	Mantled Baskettail	G5	S1		
<i>Gomphurus fraternus</i> (Say, 1839) = <i>Gomphus fraternus</i>	Midland Clubtail	G5	S2		
<i>Gomphurus septima</i> (Westfall, 1956) = <i>Gomphus septima</i>	Septima's Clubtail	G3	S1		

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<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<i>Gomphurus ventricosus</i> (Walsh, 1862) = <i>Gomphus ventricosus</i>	Skillet Clubtail	G3	S1		
<i>Hylogomphus adelphus</i> (Selys, 1858) = <i>Gomphus adelphus</i> = <i>Gomphus brevis</i>	Moustached Clubtail	G5	S1		
<i>Hylogomphus apomyius</i> (Donnelly, 1966) = <i>Gomphus apomyius</i>	Banner Clubtail	G3G4	SH		
<i>Hylogomphus parvidens</i> (Currie, 1917) = <i>Gomphus parvidens</i>	Piedmont Clubtail	G4	S1		
<i>Hylogomphus viridifrons</i> (Hine, 1901) = <i>Gomphus viridifrons</i>	Green-faced Clubtail	G3G4	S2		
<i>Ladona exusta</i> (Say, 1839) = <i>Libellula exusta</i>	White Corporal Skimmer	G5	SH		
<i>Ladona julia</i> (Uhler, 1857) = <i>Libellula julia</i>	Chalk-fronted Corporal Skimmer	G5	S2S3		
<i>Lanthus parvulus</i> (Selys, 1854)	Northern Pygmy Clubtail	G4G5	S2		
<i>Leucorrhinia frigida</i> Hagen, 1890	Frosted Whiteface	G5	SH		
<i>Leucorrhinia hudsonica</i> (Selys, 1850)	Hudsonian Whiteface	G5	S1		
<i>Leucorrhinia proxima</i> Calvert, 1890	Red-waisted Whiteface	G5	SH		
<i>Macrodiplax balteata</i> (Hagen, 1861)	Marl pennant	G5	S1		
<i>Macromia margarita</i> Westfall, 1947	Mountain River Cruiser	G3	S1		
<i>Nannothemis bella</i> Uhler, 1857	Elfin Skimmer	G4G5	S1		
<i>Neurocordulia virginiana</i> Davis, 1927	Cinnamon Shadowdragon	G4	S2		
<i>Neurocordulia yamaskanensis</i> (Provancher, 1875)	Stygian Shadowdragon	G5	S2		
<i>Ophiogomphus aspersus</i> Morse, 1895	Brook Snaketail	G4	S2		
<i>Ophiogomphus carolus</i> Needham, 1897	Riffle Snaketail	G5	S1		
<i>Ophiogomphus edmundo</i> Needham, 1851	Edmund's snaketail	G2	S1		
<i>Ophiogomphus howei</i> Bromley, 1924	Pygmy Snaketail	G3	S1S2		
<i>Ophiogomphus incurvatus incurvatus</i> Carle, 1982	Appalachian snaketail	G3T2T3	S2S3		
<i>Ophiogomphus incurvatus alleghaniensis</i> Carle, 1982 = <i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail	G3T2T3Q	S1		

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<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<i>Ophiogomphus mainensis</i> Packard, 1863	Maine Snaketail	G4G5	S2		
<i>Ophiogomphus susbehcha</i> Vogt and Smith, 1993	St. Croix snaketail	G2	S1		
<i>Phanogomphus borealis</i> (Needham, 1901) = <i>Gomphus borealis</i>	Beaverpond Clubtail	G5	SH		
<i>Phanogomphus descriptus</i> (Banks, 1896) = <i>Gomphus descriptus</i>	Harpoon Clubtail	G4G5	S1S2		
<i>Rhionaeschna mutata</i> (Hagen, 1861) = <i>Aeshna mutata</i>	Spatterdock Darner	G4	S2		
<i>Somatochlora elongata</i> (Scudder, 1866)	Ski-tipped Emerald	G5	S1S2		
<i>Somatochlora filosa</i> (Hagen, 1861)	Fine-lined Emerald	G5	S2		
<i>Somatochlora georgiana</i> Walker, 1925	Coppery Emerald	G3G4	SH		
<i>Somatochlora provocans</i> Calvert, 1903	Treetop Emerald	G4	S2		
<i>Somatochlora williamsoni</i> Walker, 1907	Williamson's Emerald	G5	SH		
<i>Stenogomphurus consanguis</i> (Selys, 1879) = <i>Gomphus consanguis</i>	Cherokee Clubtail	G3	S2		
<i>Stylogomphus sigmastylus</i> Cook and Lauder milk, 2004	Interior least clubtail	G5	S1		
<i>Stylurus amnicola</i> (Walsh, 1862)	Riverine Clubtail	G4	S1		
<i>Stylurus laurae</i> Williamson, 1932	Laura's Clubtail	G4	S2		
<i>Stylurus notatus</i> (Rambur, 1842)	Elusive Clubtail	G3	SH		
<i>Stylurus scudderi</i> (Selys, 1873)	Zebra Clubtail	G5	S1S2		
<i>Sympetrum obtrusum</i> (Hagen, 1867)	White-faced Meadowhawk	G5	S2		
<b>PLECOPTERA (Stoneflies)</b>					
<i>Acroneuria flinti</i> Stark and Gaufin, 1976	Manassas Stonefly	GH	SH		
<i>Acroneuria yuchi</i> Stark and Kondratieff, 2004	Ornate stonefly	G1G3	S2		
<i>Allocapnia fumosa</i> Ross, 1964	Smokies Snowfly	G2	S1S2		
<i>Allocapnia illinoensis</i> Frison, 1935	Illinois Snowfly	G3	S1S3		
<i>Allocapnia simmonsii</i> Kondratieff and Voshell, 1981	Spatulate Snowfly	G3	S1S2		
<i>Allocapnia stannardi</i> Ross, 1964	Blue Ridge Snowfly	G3	S1S3		
<i>Cultus decisus isolatus</i> (Banks)	Southern Springfly	G4T2	S1S2		
<i>Diploperla janeae</i> Kondratieff and Verdone, 2017	Jane's stripetail	GNR	S1S3		

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<b>PLECOPTERA (Stoneflies)</b>					
<i>Diploperla kanawholensis</i> Kirchner and Kondratieff, 1984	Kanawhole Springfly	G3	S2		
<i>Diploperla morgani</i> Kondratieff and Voshell, 1979	Virginia Springfly	G3	S2S3		
<i>Isoperla dewalti</i> Verdone and Kondratieff, 2017	Dewalt stripetail	GNR	S1S3		
<i>Isoperla major</i> Nelson and Kondratieff, 1983	Big Stripetail Stonefly	G1	S1		
<i>Leuctra mitchellensis</i> Hanson, 1941	Mitchell Needlefly	G3	S1S2		
<i>Leuctra monticola</i> Hanson, 1941	Montane Needlefly	G1Q	S1		
<i>Megaleuctra flinti</i> Baumann, 1973	Shenandoah Needlefly	G2G3	S2		
<i>Megaleuctra williamsae</i> Hanson, 1941	Smokies Needlefly	G3	S1S2		
<i>Perlesta cranshawi</i> Kondratieff and Kirchner, 2006	A Stonefly	G1	S1?		
<i>Perlesta durfeeii</i> Kondratieff, Zuellig, and Kirchner, 2008	A stonefly	G1G3	S1S3		
<i>Perlesta frisoni</i> Banks, 1948	Blue Ridge Stonefly	G3	S1S2		
<i>Prostoia hallasi</i> Kondratieff and Kirchner, 1984	Swamp Forestfly	G3	S1S3		
<i>Strophopteryx limata</i> (Frison, 1942)	Newfound Willowfly	G3	S1S2		
<i>Sweltsa holstonensis</i> Kondratieff and Kirchner, 1998	Holston Sallfly	G1	S2		
<i>Sweltsa palearata</i> Surdick, 2004	Shenandoah Sallfly	G2G3	S2		
<i>Taeniopteryx nelsoni</i> Kondratieff and Kirchner, 1982	Cryptic Willowfly	G1	S2		
<i>Tallaperla lobata</i> Stark, 1983	Lobed Roachfly	G2	S2		
<i>Yugus arinus</i> (Frison, 1942)	Highlands Springfly	G3	S1S3		
<i>Yugus kondratieffi</i> Nelson, 2001		G2G3	S2S3		
<i>Zapada fumosa</i> Baumann and Grubbs, 2015	Fumose forestfly	GNR	S1		
<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Bothynotus johnstoni</i> Knight, 1933	A Mirid Bug	G3	S1S3		
<i>Chelinidea vittiger</i> Uhler, 1863	Opuntia Squash Bug	G3G5	S1		
<i>Chlorochroa dismalia</i> Thomas, 1983	Dismal Swamp Green Stink Bug	G1G3	S1S3		
<i>Gnathobleda litigiosa</i> Stal, 1862	An assassin bug	G5	S1		
<i>Limnopus dissortis</i> (Drake and Harris, 1930)	A Water Strider	G5	S1		
<i>Phytocoris hoffmani</i> Henry, 2009	Spruce plant bug	GNR	S1S3		
<i>Ploiaria carolina</i> (Herrich-Schaffer, 1850)	Carolina Thread-legged Bug	G4?	S1S3		
<i>Pnirontis brimleyi</i> Blatchley	Brimley's Assassin Bug	G2	S1S3		

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<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Puto kosztarabi</i> Miller and Miller, 1993	Buffalo Mountain Mealybug	G1	S1		LE
<i>Pycnoderiella virginiana</i> Henry, 1993	Seashore Mirid Bug	GU	SU		
<i>Ramphocorixa acuminata</i> (Uhler, 1897)	Acuminate Water Boatman	G4	S1		
<i>Sigara depressa</i> Hungerford (1948)	Virginia Piedmont Water Boatman	G1G2	S1S2		LE
<i>Stenocoris tipuloides</i> (DeGeer)	Neotropical Rice Bug	G5	S1S3		
<b>COLEOPTERA (Beetles)</b>					
<i>Arianops jeanneli</i> Park, 1956	A Cave Pselaphid Beetle	G1	S1		
<i>Atheta annexa</i> Casey, 1910	A Rove Beetle	G5	S2		
<i>Atheta troglorhila</i> Klimaszewski and Peck, 1986	A Rove Beetle	G4	S1		
<i>Ceratocanthus aeneus</i> (MacLeay, 1819)	Shining ball scarab beetle	G2G3	S1		
<i>Cicindela abdominalis</i> Fabricius, 1801	Orange-bellied Tiger Beetle	G3	S1		
<i>Cicindela ancocisconensis</i> T.W. Harris, 1852	Riverine Tiger Beetle	G3	S2		
<i>Cicindela dorsalis dorsalis</i> Say, 1817 = <i>Habroscelimorpha dorsalis dorsalis</i>	Northeastern Beach Tiger Beetle	G3T2	S2	LT	LT
<i>Cicindela formosa generosa</i> Dejean, 1831	A Tiger Beetle	G5T5	SH		
<i>Cicindela gratiosa</i> Guerin-Meneville, 1840 = <i>Ellipsoptera gratiosa</i>	A Tiger Beetle	G3G4	S1		
<i>Cicindela lepida</i> Dejean, 1831 = <i>Ellipsoptera lepida</i>	Spectral Tiger Beetle	G3	S1		
<i>Cicindela limbalis</i> Klug, 1834	A Tiger Beetle	G5	S1		
<i>Cicindela patruela</i> Dejean, 1825	Barrens Tiger Beetle	G3	S2		
<i>Cicindela trifasciata</i> Fabricius, 1781	A Tiger Beetle	G5	S1		
<i>Copris howdeni</i> Matthews and Halffter, 1959	Howden's Copris scarab beetle	G3?	S1S2		
<i>Hemipeplus microphthalmus</i> (Schwarz, 1878)	A Flat Bark Beetle	G4?	S1		
<i>Lordithon niger</i> (Gravenhorst, 1802)	Black Lordithon Rove Beetle	GU	S2?		
<i>Nicrophorus americanus</i> Olivier, 1790	American Burying Beetle	G3	SH	LT	
<i>Nicrophorus carolinus</i> (Linnaeus, 1771)	Carolina Burying Beetle	G4?	S1S3		
<i>Photuris bethaniensis</i> McDermott, 1953	Bethany Beach firefly	G1	S1		
<i>Pseudanophthalmus avernus</i> Valentine, 1945	Avernus Cave Beetle	G1	S1		

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<b>COLEOPTERA (Beetles)</b>					
<i>Pseudanophthalmus cordicollis</i> Barr, 1981	Little Kennedy Cave Beetle	G1	S1		
<i>Pseudanophthalmus deceptivus</i> Barr, 1981	Deceptive Cave Beetle	G1	S1		
<i>Pseudanophthalmus delicatus</i> Valentine, 1932	Delicate Cave Beetle	G3G4	S2		
<i>Pseudanophthalmus egberti</i> Barr, 1965	New River Valley Cave Beetle	G1	S1		
<i>Pseudanophthalmus gracilis</i> Valentine, 1931	Clover Hollow Cave Beetle	G1G2	S1S2		
<i>Pseudanophthalmus hirsutus</i> Valentine, 1931	Cumberland Gap Cave Beetle	G1G2	S1		
<i>Pseudanophthalmus hoffmani</i> Barr, 1965	Hoffman's Cave Beetle	G2G3	S1S2		
<i>Pseudanophthalmus holsingeri</i> Barr, 1965	Holsinger's Cave Beetle	G1	S1		LE
<i>Pseudanophthalmus hortulanus</i> Barr, 1965	Burkes Garden Cave Beetle	G1	S1		
<i>Pseudanophthalmus hubbardi</i> (Barber, 1929)	Hubbard's Cave Beetle	G1	S1		
<i>Pseudanophthalmus hubrichti</i> Valentine, 1948	Hubricht's Cave Beetle	G1	S1		
<i>Pseudanophthalmus intersectus</i> Barr, 1965	Crossroads Cave Beetle	G1G2	S1		
<i>Pseudanophthalmus limicola</i> Jeannel, 1931	Maddens Cave Beetle	G1G2	S1		
<i>Pseudanophthalmus longiceps</i> Barr, 1981	Long-headed Cave Beetle	G1G2	S1		
<i>Pseudanophthalmus nelsoni</i> Barr, 1965	Nelson's Cave Beetle	G2	S1		
<i>Pseudanophthalmus parvicollis</i> Jeannel, 1931	Hupps Hill Cave Beetle	G1	S1		LE
<i>Pseudanophthalmus</i> <i>petrunkevitchi</i> Valentine, 1945	Petrunkevitch's Cave Beetle	G1G2	S1		
<i>Pseudanophthalmus pontis</i> Barr, 1965	Natural Bridge Cave Beetle	G1	S1		
<i>Pseudanophthalmus potomaca</i> Valentine, 1932	South Branch Valley Cave Beetle	G3G4	S2		
<i>Pseudanophthalmus</i> <i>praetermissus</i> Barr, 1981	Overlooked Cave Beetle	G1	S1		
<i>Pseudanophthalmus punctatus</i> Valentine, 1931	Spotted Cave Beetle	G2	S1		
<i>Pseudanophthalmus pusio</i> (Horn, 1868)	Ellett Valley Cave Beetle	G2G3	S1S2		
<i>Pseudanophthalmus quadratus</i> Barr, 1965	Straley's Cave Beetle	G1	S1		
<i>Pseudanophthalmus rotundatus</i> Valentine, 1932	Rotund Cave Beetle	G2	S1		
<i>Pseudanophthalmus sanctipauli</i> Barr, 1981	Saint Paul Cave Beetle	G1G2	S1		



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<b>COLEOPTERA (Beetles)</b>					
<i>Pseudanophthalmus seclusus</i> Barr, 1981	Rye Cove cave beetle	G2G3	S2		
<i>Pseudanophthalmus sericus</i> Barr, 1981	Silken Cave Beetle	G1	S1		
<i>Pseudanophthalmus thomasi</i> Barr, 1981	Thomas' Cave Beetle	G1G2	S1		LE
<i>Pseudanophthalmus vicarius</i> Barr, 1965	Vicariant Cave Beetle	G2G3	S1S2		
<i>Pseudanophthalmus virginicus</i> (Barr, 1960)	Maiden Spring Cave Beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 5 (Barr, T.C. Jr.)	Rhea Valley cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 6 (Barr, T.C. Jr.)	Wytheville cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 7 (Barr, T.C. Jr.)	Dublin cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 8 (Barr, T.C. Jr.)	Burnsville Cove cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 9 (Barr, T.C. Jr.)	Banner Cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 10 (Barr, T.C. Jr.)	Indian Cave Beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 11	Showalters Cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 12	Catawba Cave Beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 13	McMullens Cave Beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 14	Karl's Pit Cave Beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 42	Elk Garden cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 43	Rosedale cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 45	Franklins pit cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 46	Burja cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 47	Limekiln cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 48	Witheros cave beetle	G1	S1		
<i>Pseudanophthalmus</i> sp. 49	Starr Chapel Saltpetre Cave Beetle	G1	S1		
<i>Sphaeroderus schaumii</i> Chaudoir, 1861	Schaum's false snail-eating beetle	G4	S2		
<i>Stenelmis gammoni</i> White and Brown, 1976	Gammon's Riffle Beetle	G2G3	S1		
<b>MECOPTERA (Scorpionflies)</b>					
<i>Brachypanorpa jeffersoni</i> Byers, 1976	Jefferson's Short-nosed Scorpionfly	G2	S1S2		
<i>Panorpa mirabilis</i> Carpenter, 1931	Marvelous Scorpionfly	GNR	S1		
<b>TRICHOPTERA (Caddisflies)</b>					
<i>Agraylea costello</i> Ross, 1941	A Caddisfly	G3	S1S2		
<i>Agraylea multipunctata</i> Curtis, 1834	A microcaddisfly	G5	SH		

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<b>TRICHOPTERA (Caddisflies)</b>					
<i>Anabolia apora</i> Parker, 1984	A Limnephilid Caddisfly	G1G3	S1S3		
<i>Arctopsyche irrorata</i> Banks, 1905	A hydropsychid caddisfly	G4	S1		
<i>Beraea fontana</i> Wiggins, 1954	American Spring-loving Caddisfly	G3	S1		
<i>Brachycentrus incanus</i> Hagen, 1861	A brachycentrid caddisfly	G5	SH		
<i>Ceraclea ruthae</i> Flint, 1965	A leptocerid caddisfly	G4	S1		
<i>Ceratopsyche etnieri</i> (Schuster and Talak, 1977)	Buffalo Springs caddisfly	G2	S1S2		
<i>Ceratopsyche macleodi</i> (Flint, 1965)	A Caddisfly	G3G4	S1S2		
<i>Cernotina calcea</i> Ross, 1938	A polycentropodid caddisfly	G5	S1		
<i>Cernotina pallida</i> (Banks, 1904)	A Caddisfly	G3G4	SH		
<i>Cernotina truncona</i> Ross, 1947	A polycentropodid caddisfly	G4	S1		
<i>Cheumatopsyche etrona</i> Ross, 1941	A hydropsychid caddisfly	G4G5	S1		
<i>Cheumatopsyche speciosa</i> (Banks, 1904)	A Caddisfly	G5	SH		
<i>Cheumatopsyche virginica</i> Denning, 1949	A Caddisfly	G5	S1		
<i>Glossosoma lividum</i> (Hagen, 1861)	A glossosomatid caddisfly	G5	S1S2		
<i>Goerita semata</i> Ross, 1938	A caddisfly	G3	S1		
<i>Heteroplectron americanum</i> (Walker, 1852)	A Caddisfly	G5	S2		
<i>Hydropsyche bassi</i> Flint, Voshell and Parker, 1979	A hydropsychid caddisfly	G2	S2		
<i>Hydroptila anisoforicata</i> Parker and Voshell, 1979	A caddisfly	G1G2	SU		
<i>Hydroptila coweetensis</i> Huryn, 1985	A microcaddisfly	G1G2	SU		
<i>Lepidostoma mitchelli</i> Flint and Wiggins, 1961	A lepidostomatid caddisfly	G3	S1		
<i>Lepidostoma modestum</i> (Banks, 1905)	A lepidostomatid caddisfly	G3G4	S2		
<i>Nemotaulius hostilis</i> (Hagen, 1873)	A Limnephilid Caddisfly	G5	S1		
<i>Neophylax acutus</i> Vineyard and Wiggins, 1987	A uenoid caddisfly	G2G3	S1S3		
<i>Neophylax atlanta</i> Ross, 1947	A uenoid caddisfly	G2G4	SH		
<i>Neophylax etnieri</i> Vineyard and Wiggins, 1987	A uenoid caddisfly	G3	S1S3		
<i>Neophylax toshioi</i> Vineyard and Wiggins, 1987	A caddisfly	G2	S1S2		
<i>Oligostomis pardalis</i> (Walker, 1852)	A phryganeid caddisfly	G5	S1S2		
<i>Polycentropus rickeri</i> Yamamoto, 1966	A polycentropodid caddisfly	G3G4	SH		

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<b>TRICHOPTERA (Caddisflies)</b>					
<i>Potamyia flava</i> (Hagen, 1861)	A Caddisfly	G5	SH		
<i>Psilotreta rossi</i> Wallace, 1971	An odontocerid caddisfly	G3	S2		
<i>Rhyacophila appalachia</i> J.C. Morse and Ross, 1971	Appalachian Rhyacophilid Caddisfly	G3	S2		
<i>Rhyacophila kondratieffi</i> Parker, 1986	A rhyacophilid caddisfly	G2G3	S2S3		
<i>Rhyacophila mainensis</i> Banks, 1911	A rhyacophilid caddisfly	G5	S1S2		
<i>Rhyacophila mycta</i> Ross, 1941	A rhyacophilid caddisfly	G3	S1S2		
<i>Rhyacophila simmonsii</i> Armitage, 2008	A rhyacophilid caddisfly	G1G3	S1S3		
<i>Rhyacophila teddyi</i> Ross, 1939	A rhyacophilid caddisfly	G2	S2		
<i>Rhyacophila tricornuta</i> Sykora and McCabe, 1996	A Rhyacophilid Caddisfly	G1G3	S1S3		
<i>Wormaldia mohri</i> (Ross, 1948)	A philopotamid caddisfly	G2G3	S1		
<i>Wormaldia thyria</i> Denning, 1950	A Philopotamid Caddisfly	G3	S2		
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<b>Butterflies</b>					
<i>Anaea andria</i> Scudder, 1875	Goatweed Leafwing	G4G5	S1		
<i>Boloria myrina</i> (Cramer, 1777)	Silver-bordered Fritillary	G5?	S2		
<i>Calephelis borealis</i> (Grote and Robinson, 1866)	Northern Metalmark	G3	S2S3		
<i>Calephelis virginiensis</i> (Guérin-Ménéville, [1832])	Little Metalmark	G4	SH		
<i>Callophrys hesseli</i> (Rawson and Ziegler, 1950)	Hessel's Hairstreak	G3	S1		
= <i>Mitoura hesseli</i>					
<i>Callophrys irus</i> (Godart, [1824])	Frosted Elfin	G3	S1S2		
= <i>Incisalia irus</i>					
<i>Callophrys polios</i> (Cook and Watson, 1907)	Hoary Elfin	G5	SH		
= <i>Incisalia polios</i>					
<i>Chlosyne harrisii</i> (Scudder, 1863)	Harris's checkerspot	G4?	S1		
<i>Colias interior</i> Scudder, 1862	Pink-edged Sulphur	G5	S1S2		
<i>Erora laeta</i> (Edwards, 1862)	Early Hairstreak	G2G3	S2		
<i>Euchloe olympia</i> (W.H. Edwards, 1871)	Olympia Marble	G5	S2		
<i>Lycaena hyllus</i> (Cramer, 1775)	Bronze Copper	G5	S1		
<i>Neonympha areolatus</i> (J.E. Smith, 1797)	Helicta satyr	G3G4	S2		
= <i>Neonympha areolatus septentrionalis</i>					
= <i>Neonympha helicta</i>					
<i>Neonympha mitchellii</i> French, 1889	Mitchell's satyr	G2	S1	LE	LE

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Phyciodes batesii batesii</i> (Reakirt, [1866])	Tawny Crescent	G3G4T1	SX		
<i>Phyciodes cocyta</i> (Cramer, 1777) = <i>Phyciodes pascoensis</i> = <i>Phyciodes selenis</i>	Northern Pearly Crescent	G5	S1S3		
<i>Polygonia faunus smythi</i> Clark, 1937	Smyth's Green Comma	G5T3	S1S2		
<i>Satyrrium kingi</i> (Klots and Clench, 1952)	King's Hairstreak	G3G4	S2S3		
<i>Speyeria atlantis</i> (Edwards, 1862)	Atlantis Fritillary	G5	S2		
<i>Speyeria idalia</i> (Drury, 1773)	Regal Fritillary	G3?	SH		
<b>Skippers</b>					
<i>Amblyscirtes alternata</i> (Grote and Robinson, 1867)	Dusky Roadside Skipper	G3G4	SH		
<i>Atrytone arogos arogos</i> (Boisduval and Le Conte, [1837])	Arogos Skipper	G2G3T1T2	SH		
<i>Erynnis lucilius</i> (Scudder and Burgess, 1870)	Columbine Duskywing	G3	SH		
<i>Erynnis martialis</i> (Scudder, [1870])	Mottled Duskywing	G3	S1S3		
<i>Erynnis persius persius</i> (Scudder, 1863)	Persius Duskywing	G5T1T3	SH		
<i>Euphyes bimacula</i> (Grote and Robinson, 1867)	Two-spotted Skipper	G4	S2		
<i>Euphyes conspicua</i> (Edwards, 1863)	Black Dash	G4G5	SH		
<i>Euphyes dukesi</i> (Lindsey, 1923)	Dukes' Skipper	G3G4	S2		
<i>Euphyes pilatka</i> (Edwards, 1867)	Palatka Skipper	G3	S1		
<i>Hesperia attalus slossonae</i> (Skinner, 1890)	Dotted Skipper	G3G4T3	SX		
<i>Megathymus yuccae</i> (Boisduval and Le Conte, [1837])	Yucca Giant Skipper	G5	SH		
<i>Problema bulenta</i> (Boisduval and Le Conte, [1837])	Rare Skipper	G3	S1S2		
<i>Pyrgus centaureae wyandot</i> (Edwards, 1863) = <i>Pyrgus wyandot</i>	Appalachian Grizzled Skipper	G5T1T2	S1		LT
<b>Moths</b>					
<i>Acrapex relictus</i> Ferguson, 1991	Cane Boring Moth	G4	S2S3		
<i>Acronicta albarufa</i> Grote, 1874	Barrens Dagger Moth	G3G4	S1S3		
<i>Acronicta brumosa</i> Guenée, 1852	A Dagger Moth	G4?	S1S2		
<i>Acronicta dollii</i> (Barnes and McDunnough, 1918) = <i>Merolonche dollii</i>	Doll's Merolonch	G3G4	S1S3		
<i>Amolita roseola</i> Smith, 1903	Pink sedge moth	G5	S1		
<i>Anaplectoides brunneomedia</i> McDunnough, 1946	Brown-lined Dart Moth	G4	S2		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Apamea smythi</i> Franclemont, 1952	Smyth's Apamea Moth	GH	SH		
<i>Aplectoides condita</i> (Guenée, 1852)	A Noctuid Moth	G5	S2		
<i>Apodrepanulatrix liberaria</i> (Walker, 1860)	New Jersey Tea Inchworm Moth	G3	S2		
<i>Arctia caja</i> (Linnaeus, 1758)	Great Tiger Moth	G5	S1		
<i>Argillophora furcilla</i> Grote, 1873	Silver Fork Cane Moth	G3G4	S1S3		
<i>Argyrostromis deleta</i> (Guenée, 1852)	A Noctuid Moth	G4G5	S1S3		
<i>Argyrostromis sylvarum</i> (Guenée, 1852)	Woodland chocolate moth	G4	S1S3		
<i>Brachionycha borealis</i> (Smith, 1899)	Boreal Fan Moth	G4	S1S3		
<i>Callopietria granitosa</i> (Guenée, 1852)	Granitosa fern moth	G4	S1S3		
<i>Callosamia securifera</i> (Maassen, 1873)	Sweetbay Silkmoth	G4	S1S2		
<i>Catocala antinympha</i> (Hübner, [1823])	Sweetfern underwing	G5	S1		
<i>Catocala consors</i> (J.E. Smith, 1797)	An Underwing Moth	G3?	SH		
<i>Catocala dulciola</i> Grote, 1881	Sweet Underwing	G3G4	S1S3		
<i>Catocala herodias gerhardi</i> Barnes and Benjamin, 1927	Pine Barrens Underwing	G3T3	S2S3		
<i>Catocala marmorata</i> W. H. Edwards, 1864	Marbled Underwing	G3?	S2		
<i>Catocala messalina</i> Guenée, 1852	Messalina Underwing	G4?	SH		
<i>Catocala pretiosa pretiosa</i> Lintner, 1876	Precious Underwing	G4T2	SH		
<i>Catocala relictata</i> Walker, [1858]	White underwing	G5	S2		
<i>Catocala ulalume</i> Strecker, 1878	Ulalume Underwing	G4	S1S3		
<i>Cerma cora</i> Hübner, 1818	Owl-eyed Bird Dropping Moth	G3G4	S1S3		
<i>Coelodasys apicalis</i> Grote and Robinson, 1866 = <i>Schizura apicalis</i>	Plain Schizura	G3G4	S1S3		
<i>Coptotriche perplexa</i> (Braun, 1972) = <i>Tischeria perplexa</i>	Chestnut Leaf-mining Moth	GHQ	SH		
<i>Crambidia cephalica</i> (Grote and Robinson, 1870)	Yellow-headed Lichen Moth	GU	S1S2		
<i>Ctenucha virginica</i> (Esper, 1794)	Virginia Ctenucha moth	G5	S2		
<i>Cycnia collaris</i> (Fitch, 1857) = <i>Cycnia inopinatus</i> <i>Cycnia inopinatus</i> is a junior synonym of <i>C. collaris</i>	Unexpected <i>Cycnia</i> moth	G4	S1		
<i>Cymatophora approximaria</i> Hübner, 1812	Giant gray Moth	G4G5	S1S3		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Dargida rubripennis</i> (Grote and Robinson, 1870) = <i>Faronta rubripennis</i>	Pink-streak Moth	G3G4	S2		
<i>Dichagyris grotei</i> (Franclemont and Todd, 1983) = <i>Loxagrotis apicalis</i> = <i>Richia grotei</i>	A Noctuid Moth	G4	S1S3		
<i>Drasteria graphica</i> Hübner, 1818	Graphic moth	G4	S1S3		
<i>Egira dolosa</i> (Grote, 1880)	Lined black aspen moth	G5	SH		
<i>Erastria coloraria</i> (Fabricius, 1798)	Broad-lined Erastria moth	G3G4	S2?		
<i>Euchlaena milnei</i> McDunnough, 1945	Milne's Euchlaena Moth	G2G4	S2		
<i>Eulithis propulsata</i> (Walker, 1862)	Currant Eulithis moth	G5	S1S3		
<i>Euxoa fumalis</i> (Grote, 1873)	A dart moth	GNR	S1		
<i>Euxoa immixta</i> (Grote, 1881)	Mixed Dart Moth	G4	S1S3		
<i>Exyra ridingsii</i> (Riley, 1874)	Green pitcher plant moth	G2G4	SH		
<i>Franclemontia interrogans</i> (Walker, 1856)	A Cane Moth	G3G4	S1S3		
<i>Gondysia telma</i> (Sullivan, 2010) = <i>Neadysgonia telma</i>	Telma darkwing moth	GNR	S1S2		
<i>Graphiphora augur</i> (Fabricius, 1775)	Double Dart Moth	G5	S1		
<i>Hadena ectypa</i> (Morrison, 1875)	Catchfly moth	G3G4	S2		
<i>Heterocampa astarte</i> Doubleday, 1841	A Prominent Moth	G4?	S1S2		
<i>Hypena appalachiensis</i> (L. Butler, 1987)	Appalachian Bomolocha	G3G4	S1		
<i>Hyppa contrasta</i> McDunnough, 1946	Summer Hyppa moth	G5	S1S3		
<i>Idaea taturata</i> (Walker, 1861)	A Geometrid Moth	G4	S1S2		
<i>Leucania calidior</i> (Forbes, 1936)	Cane Wainscot Moth	G2G4	S2		
<i>Lithophane georgii</i> Grote, 1875	Large Grey Pinion Moth	G5	S1S2		
<i>Lithophane lemmeri</i> (Barnes and Benjamin, 1929)	Lemmer's Pinion Moth	G3G4	S1S3		
<i>Lithophane lepida adipel</i> (Benjamin, 1936) = <i>Lithophane lepida adipel</i>	A Pinion Moth	G4T4	S1S3		
<i>Loscopia roblei</i> Quinter and Lafontaine, 2009	A cane moth	G3G4	S1S2		
<i>Lytrosis permagnaria</i> (Packard, 1876)	Gray Lytrosis	G3G4	S2		
<i>Macaria distribuaria</i> (Hübner, [1831]) = <i>Semiothisa distribuaria</i>	A Geometrid Moth	G4	S1S2		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Manulea bicolor</i> (Grote, 1864) = <i>Eilema bicolor</i>	Bicolored moth	G5	S1		
<i>Meropleon ambifusca</i> (Newman, 1948) = <i>Meropleon ambifuscum</i>	Newman's brocade moth	G4G5	S1		
<i>Meropleon titan</i> Todd, 1958	A Noctuid Moth	G2G4	S1S3		
<i>Metria amella</i> (Guenée, 1852)	A Noctuid Moth	G5	S1S2		
<i>Nemoria tuscarora</i> Ferguson, 1969	An Emerald Moth	GU	S2		
<i>Oligia bridghami</i> (Grote and Robinson, 1866)	Bridgham's brocade moth	G5	S1		
<i>Oxycilla mitographa</i> (Grote, 1873)	A Noctuid Moth	G4	SH		
<i>Paectes abrostolella</i> (Walker, 1866)	A Noctuid Moth	G4	S2		
<i>Papaipema araliae</i> Bird and Jones, 1921	Aralia Shoot Borer Moth	G3G4	S2S3		
<i>Papaipema astuta</i> Bird, 1907	Yellow Stoneroot Borer Moth	G3?	S1S3		
<i>Papaipema beeriana</i> Bird, 1923	Blazing Star Stem Borer	G3?	S1		
<i>Papaipema duovata</i> (Bird, 1902)	Seaside Goldenrod Stem Borer	G2G3	S2S3		
<i>Papaipema duplicatus</i> Bird, 1908	Dark Stoneroot Borer Moth	G1G2	S2		
<i>Papaipema necopina</i> (Grote, 1876)	Sunflower borer moth	G4	S1S3		
<i>Papaipema stenocelis</i> (Dyar, 1907)	Chain Fern Borer Moth	G3G4	S1S3		
<i>Papaipema</i> sp. 1	Flypoison borer moth	G2G3	S1		
<i>Papaipema</i> sp. 3	Southeastern Cane Borer Moth	G4	S2S3		
<i>Pheosidea elegans</i> (Strecker, 1885) = <i>Odontosia elegans</i>	Elegant Prominent	G5	S1		
<i>Platypolia anceps</i> (Stephens, 1850)	A noctuid moth	G5	S1S2		
<i>Polia purpurissata</i> (Grote, 1864)	Purple arches moth	G5	SH		
<i>Properigea costa</i> (Barnes and Benjamin, 1923)	Barrens moth	G4	S2		
<i>Protodeltote</i> sp. 1	A Noctuid Moth	G1G3	S1S2		
<i>Psectrotarsia hebaridi</i> (Skinner, 1917) = <i>Erythroecia hebaridi</i>	Hebard's Noctuid Moth	GU	SH		
<i>Ptichodis bistrigata</i> Hübner, 1818	Southern Ptichodis Moth	G3	S1S3		
<i>Pygarctia abdominalis</i> Grote, 1871	Yellow-edged Pygarctia Moth	G3	S1S2		
<i>Pyrrhia aurantiago</i> (Guenée, 1852) = <i>Rhodoecia aurantiago</i>	Aureolaria Seed Borer	G3G4	S1S3		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Rheumaptera hastata</i> (Linnaeus, 1758)	Spear-marked black moth	G5	S2		
<i>Schinia siren</i> (Strecker, 1876) = <i>Schinia inclarata</i>	A Flower Moth	GNR	S1S2		
<i>Sideridis maryx</i> (Guenée, 1852)	Maroonwing moth	G4	S1		
<i>Sideridis rosea</i> (Harvey, 1874)	Rosewing moth	G5	S1		
<i>Speranza exonerata</i> Ferguson, 2008	Barrens Itame	G3G4	S1S3		
<i>Speranza ribearia</i> (Fitch, 1848) = <i>Itame ribearia</i>	Currant Spanworm Moth	G5	S2S3		
<i>Sympistis perscripta</i> (Guenée, 1852) = <i>Lepipolys perscripta</i>	Scribbled sawfly moth	G4	S1S3		
<i>Synanthedon castaneae</i> (Busck, 1913)	Chestnut Clearwing Moth	G3G5	SH		
<i>Syngrapha alias</i> (Ottolengui, 1902)	Hooked silver Y moth	G5	S1S2		
<i>Syngrapha rectangula</i> (W. Kirby, 1837)	Salt-and-pepper Looper Moth	G5	S2		
<i>Tricholita notata</i> Strecker, 1898	Marked Tricholita Moth	G5	SH		
<i>Xanthorhoe iduata</i> (Guenée, [1858] in Boisduval and Guenée)	A Geometrid Moth	G4	S1S3		
<i>Zale curema</i> (Smith, 1908)	Black-eyed Zale	G4	S1S3		
<i>Zale lunifera</i> (Hübner, 1818)	Pine Barrens Zale	G3G4	S2		
<b>DIPTERA (True Flies)</b>					
<i>Basilia boardmanni</i>	Southeastern Myotis Bat Fly	G3	S1S2		
<i>Fletcherimyia fletcheri</i> (Aldrich)	Pitcher Plant Fly	G5	S1S2		
<i>Metriocnemus knabi</i> Coquillett	Pitcher Plant Midge	G5	S2		
<i>Spelobia tenebrarum</i> (Aldrich, 1897)	A Cave Fly	G5	S1		
<i>Wyeomyia smithii</i> (Coquillett, 1901) = <i>Wyeomyia haynei</i>	Pitcher plant mosquito	G5	S2		
<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					
<i>Andrena mendica</i> Mitchell, 1960	A mining bee	GNR	SH		
<i>Bombus affinis</i> Cresson, 1863	Rusty-patched Bumblebee	G2	S1	LE	LE
<i>Bombus bohemicus</i> Seidl, 1837 = <i>Bombus ashtoni</i>	Ashton cuckoo bumble bee	G3G5	S1		
<i>Bombus fraternus</i> (Smith, 1854)	Southern Plains bumble bee	G3G4	S1S2		
<i>Bombus ternarius</i> Say, 1837	Tri-colored Bumble Bee	G5	SH		
<i>Bombus terricola</i> Kirby, 1837	Yellow-banded bumble bee	G3G4	S1		
<i>Bombus variabilis</i> (Cresson, 1872)	Variable cuckoo bumble bee	G1G2	SH		
<i>Colletes ciliatus</i> Patton, 1879	a cellophane bee	GNR	S1		



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<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					
<i>Dianthidium simile</i> (Cresson, 1864)	A leafcutter bee	GNR	S1S2		
<i>Epeoloides pilosulus</i> (Cresson, 1878)	Macropis Cuckoo bee	GU	SH		
<i>Epeolus americanus</i> (Cresson, 1878)	American epeolus	GNR	S1S2		
<i>Epeolus banksi</i> (Cockerell, 1907)	Banks' Epeolus	GNR	SH		
<i>Macropis ciliata</i> Patton, 1880	Fringed loosestrife oil-collecting bee	GNR	S1S2		
<i>Macropis patellata</i> Patton, 1880	An oil-collecting bee	GNR	S1		
<i>Macropis steironematis</i> Robertson, 1891	An oil-collecting bee	GNR	SH		
<i>Megachile integra</i> Cresson, 1878	a leafcutter bee	G2G3	S1		
<i>Nomia maneei</i> Cockerell, 1910	a nomia bee	G3?	S1S2		
<i>Osmia illinoensis</i> Robertson, 1897	A mason bee	G1	S1		
<i>Rhadinoceraea zigadenusae</i> Smith, 1990	Death-camas Sawfly	GNR	S1		
<i>Trachusa dorsalis</i> (Lepeletier, 1841)	a leafcutter bee	GNR	S1		
<i>Xylocopa micans</i> Lepeletier, 1841	Southern carpenter bee	G5	S1S2		
<b>ORTHOPTERA (Grasshoppers, Katydid, Crickets &amp; Relatives)</b>					
<i>Appalachia hebaridi</i> Rehn and Rehn, 1936	Appalachian grasshopper	GH	SH		
<b>ANIMAL ASSEMBLAGES</b>					
Monarch Butterfly Migratory Roost Site		GU	S1N		
Bird Nesting Colony		G5	SNR		
Colonial Wading Bird Colony		G5	S2		
Landbird Migratory Concentration Area		G3	S1N		
Freshwater Mussel Concentration Area		G3	SNR		
Shorebird Migratory Concentration Area		GNR	S2M		

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<b>VERTEBRATES</b>					
<b>FISH</b>					
<i>Ambloplites cavifrons</i> Cope, 1868	Roanoke Bass	G3	S3		
<i>Chologaster cornuta</i> Agassiz, 1853	Swampfish	G5	S3		
<i>Cottus kanawhae</i> Robins, 2005	Kanawha Sculpin	G4	S3		
<i>Enneacanthus obesus</i> (Girard, 1854)	Banded Sunfish	G5	S3		
<i>Erimystax dissimilis</i> (Kirtland, 1841) = <i>Hybopsis dissimilis</i>	Streamline Chub	G4	S3		
<i>Erimystax insignis</i> (Hubbs and Crowe, 1956) = <i>Hybopsis insignis</i>	Blotched Chub	G4	S3		
<i>Etheostoma kanawhae</i> (Raney, 1941)	Kanawha Darter	G4	S3		
<i>Etheostoma simoterum</i> (Cope, 1868)	Snubnose Darter	G3G4	S3		
<i>Etheostoma tennesseense</i> Powers and Mayden, 2007	Tennessee darter	G5	S3		
<i>Etheostoma zonale</i> (Cope, 1868)	Banded Darter	G5	S3		
<i>Fundulus catenatus</i> (Storer, 1846)	Northern Studfish	G5	S3		
<i>Fundulus lineolatus</i> (Agassiz, 1854)	Lined Topminnow	G5	S3		
<i>Lampetra aepyptera</i> (Abbott, 1860)	Least Brook Lamprey	G5	S3		
<i>Lampetra appendix</i> (DeKay, 1842)	American Brook Lamprey	G4	S3		
<i>Margariscus margarita</i> (Cope, 1867) = <i>Semotilus margarita</i>	Pearl Dace	G5	S3		
<i>Moxostoma ariommum</i> Robins and Raney, 1956 = <i>Scartomyzon ariommus</i>	Bigeye Jumprock	G4	S3		
<i>Moxostoma duquesnei</i> (Lesueur, 1817)	Black Redhorse	G5	S3		
<i>Notropis chalybaeus</i> (Cope, 1867)	Ironcolor Shiner	G4	S3		
<i>Notropis chiliticus</i> (Cope, 1870)	Redlip Shiner	G4	S3		
<i>Notropis</i> sp. 4	Sawfin Shiner	G4	S3		
<i>Percina caprodes</i> (Rafinesque, 1818)	Logperch	G5	S3		
<i>Percina gymnocephala</i> Beckham, 1980	Appalachia Darter	G4	S3		
<i>Percina oxyrhynchus</i> (Hubbs and Raney, 1939)	Sharpnose Darter	G4	S3		
<i>Phenacobius uranops</i> Cope, 1867	Stargazing Minnow	G4	S3		

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<b>AMPHIBIANS</b>					
<i>Aneides aeneus</i> (Cope and Packard, 1881)	Green Salamander	G3G4	S3		
<i>Lithobates virgatipes</i> (Cope, 1891) = <i>Rana virgatipes</i>	Carpenter Frog	G4	S3		
<i>Plethodon kentucki</i> Mittleman, 1951	Cumberland Plateau Salamander	G4	S3		
<i>Plethodon montanus</i> Highton and Peabody, 2000	Northern Gray-cheeked salamander	G4	S3		
<i>Plethodon yonahlossee</i> Dunn, 1917	Yonahlossee Salamander	G4	S3		
<i>Pseudacris nigrita</i> (LeConte, 1825)	Southern chorus frog	G5	S3		
<i>Pseudacris ocularis</i> (Bosc and Daudin, 1801) = <i>Limnaoedus ocularis</i>	Little Grass Frog	G5	S3		
<i>Siren lacertina</i> Linnaeus, 1766	Greater Siren	G5	S3		
<i>Stereochilus marginatus</i> (Hallowell, 1856)	Many-lined Salamander	G5	S3		
<b>REPTILES</b>					
<i>Farancia erythrogramma</i> (Palisot de Beauvois in Sonnini and Latreille, 1801)	Rainbow Snake	G4	S3		
<i>Graptemys geographica</i> (Le Sueur, 1817)	Northern Map Turtle	G5	S3		
<i>Malaclemys terrapin</i> (Schoepff, 1793)	Diamondback Terrapin	G4	S3		
<i>Opheodrys vernalis</i> (Harlan, 1827) = <i>Liochlorophis vernalis</i>	Smooth Greensnake	G5	S3		
<i>Plestiodon anthracinus</i> Baird, 1849 [or 1850] = <i>Eumeces anthracinus</i>	Coal Skink	G5	S3		
<i>Tantilla coronata</i> Baird and Girard, 1853	Southeastern Crowned Snake	G5	S3		
<b>BIRDS</b>					
<i>Accipiter cooperii</i> (Bonaparte, 1828)	Cooper's Hawk	G5	S3B,S3N		
<i>Ardea herodias</i> Linnaeus, 1758	Great Blue Heron	G5	S3B,S5N		
<i>Cardellina canadensis</i> (Linnaeus, 1766) = <i>Wilsonia canadensis</i>	Canada Warbler	G5	S3S4B		
<i>Certhia americana</i> Bonaparte, 1838	Brown Creeper	G5	S3B,S5N		
<i>Empidonax minimus</i> (Baird and Baird, 1843)	Least Flycatcher	G5	S3S4B		
<i>Haematopus palliatus</i> Temminck, 1820	American Oystercatcher	G5	S3B,S3N		

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<b>BIRDS</b>					
<i>Haliaeetus leucocephalus</i> (Linnaeus, 1766)	Bald Eagle	G5	S3S4B,S3S4		
<i>Ictinia mississippiensis</i> (Wilson, 1811)	Mississippi Kite	G5	S2B		
<i>Ixobrychus exilis</i> (Gmelin, 1789)	Least Bittern	G4	S3B,S3N		
<i>Nycticorax nycticorax</i> (Linnaeus, 1758)	Black-crowned Night-heron	G5	S3B,S4N		
<i>Passerculus sandwichensis</i> (Gmelin, 1789)	Savannah Sparrow	G5	S3S4B,S4N		
<i>Petrochelidon pyrrhonota</i> (Vieillot, 1817)	Cliff Swallow	G5	S3S4B		
<i>Riparia riparia</i> (Linnaeus, 1758)	Bank Swallow	G5	S3B		
<i>Setophaga cerulea</i> (Wilson, 1810) = <i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3S4B		
<i>Setophaga fusca</i> (Müller, 1776) = <i>Dendroica fusca</i>	Blackburnian Warbler	G5	S3B		
<i>Sitta canadensis</i> Linnaeus, 1766	Red-breasted Nuthatch	G5	S3B,S4N		
<i>Spiza americana</i> (Gmelin, 1789)	Dickcissel	G5	S2S3B		
<i>Sterna forsteri</i> Nuttall, 1834	Forster's Tern	G5	S3B,S3N		
<i>Tyto alba</i> (Scopoli, 1769)	Barn Owl	G5	S3B,S3N		
<i>Vermivora chrysoptera</i> (Linnaeus, 1766)	Golden-winged Warbler	G4	S3B		
<i>Vermivora cyanoptera</i> Olson and Reveal, 2009 = <i>Vermivora pinus</i>	Blue-winged Warbler	G5	S3B		
<b>MAMMALS</b>					
<i>Blarina brevicauda telmalestes</i> Merriam, 1895	Dismal Swamp Short-tailed Shrew	G5T3	S3		
<i>Lasionycteris noctivagans</i> (Le Conte, 1831)	Silver-haired Bat	G3G4	SUB,S4N		
<i>Lasiurus cinereus</i> (Beauvois, 1796)	Hoary Bat	G3G4	SUB,S3N		
<i>Mustela nivalis</i> Linnaeus, 1766	Least Weasel	G5	S3		
<i>Neotoma magister</i> Baird, 1858	Allegheny Woodrat	G3G4	S3		
<i>Peromyscus gossypinus</i> (Le Conte, 1853)	Cotton Mouse	G5	S3		
<i>Sciurus niger niger</i> Linnaeus, 1758	Southeastern Fox Squirrel	G5T5	S3		
<i>Sorex dispar</i> Batchelder, 1911	Long-tailed or Rock Shrew	G4	S3		
<i>Sorex longirostris fisheri</i> Merriam, 1895	Dismal Swamp Southeastern Shrew	G5T4	S3		
<i>Spilogale putorius</i> (Linnaeus, 1758)	Eastern Spotted Skunk	G4	S3S4		
<i>Sylvilagus obscurus</i> Chapman, Cramer, Deppenaar and Robinson, 1992	New England Cottontail	G4	S4?		

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**MAMMALS**

<i>Sylvilagus palustris</i> (Bachman, 1837) = <i>Sylvilagus transitionalis</i> ?	Marsh Rabbit	G5	S3		
<i>Synaptomys cooperi helaletes</i> Merriam, 1896	Dismal Swamp Bog Lemming	G5T3	S3		

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<b>INVERTEBRATES</b>					
<b>GASTROPODA (Snails)</b>					
<i>Elimia catenaria</i> (Say, 1822)	Gravel Elimia	G4	S3		
<i>Fontigens orolibas</i> Hubricht, 1957	Blue Ridge Springsnail	G3	S3		
<i>Glyphyalinia picea</i> Hubricht, 1976	Rust Glyph	G3	S1S3		
<i>Glyphyalinia virginica</i> (Morrison, 1937)	Depressed Glyph	G3	S3		
<i>Leptoxis praerosa</i> (Say, 1821)	Onyx Rocksnail	G5	S3		
= <i>Anculosa subglobosa</i>					
<i>Megapallifera wetherbyi</i> (W.G. Binney, 1874)	Blotchy Mantleslug	G2G3	S1S3		
<i>Mesodon elevatus</i> (Say, 1821)	Proud Globe	G5	S2?		
<i>Mesomphix rugeli</i> (W.G. Binney, 1879)	Wrinkled Button	G4	S3		
<i>Patera panselenus</i> (Hubricht, 1976)	Virginia Bladetooth	G3	S2?		
= <i>Mesodon panselenus</i>					
<i>Philomycus virginicus</i> Hubricht, 1953	Virginia Mantleslug	G3	S3		
<i>Promenetus exacuouus</i> (Say, 1821)	Sharp Sprite	G5	S3?		
<i>Triodopsis burchi</i> Hubricht, 1950	Pittsylvania Three-tooth	G3	S3		
<i>Triodopsis fraudulenta</i> (Pilsbry, 1894)	Baffled Three-tooth	G4	S3		
<i>Triodopsis tennesseensis</i> (Walker and Pilsbry, 1902)	Budded Three-tooth	G4	S3		
<i>Ventridens arcellus</i> Hubricht, 1976	Golden Dome	G4	S3		
<i>Ventridens lasmodon</i> (Phillips, 1841)	Hollow Dome	G4	S3		
<i>Ventridens pilsbryi</i> Hubricht, 1964	Yellow Dome	G4	S3		
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Alasmidonta undulata</i> (Say, 1817)	Triangle Floater	G4	S3S4		
<i>Atlanticoncha ochracea</i> (Say, 1817)	Tidewater Mucket	G3G4	S3		
= <i>Leptodea ochracea</i>					
= <i>Ligumia ochracea</i>					
<i>Fusconaia subrotunda</i> (I. Lea, 1831)	Longsolid	G3	S3		PT
<i>Ligumia nasuta</i> (Say, 1817)	Eastern Pondmussel	G4	S3		
<i>Medionidus conradicus</i> (I. Lea, 1834)	Cumberland Moccasin	G3	S3S4		PE
<i>Strophitus undulatus</i> (Say, 1817)	Creeper	G5	S3S4		
<i>Utterbackiana implicata</i> (Say, 1829)	Alewife Floater	G5	S3?		

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<b>BIVALVIA (Mussels &amp; Clams)</b>					
= <i>Anodonta implicata</i>					
<i>Villosa constricta</i> (Conrad, 1838)	Notched Rainbow	G3	S3		
<i>Villosa vanuxemensis</i> (I. Lea, 1838)	Mountain Creekshell	G4	S3S4		
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<b>Spiders</b>					
<i>Antrodiaetus robustus</i> (Simon, 1891)	Robust Trapdoor Spider	G3?	S2?		
<i>Hypochilus gertschi</i> Hoffman, 1963	Gertsch's Lampshade-web Spider	G3	S3		
<i>Hypochilus pococki</i> Platnick, 1987	Pocock's Lampshade-web Spider	G4G5	S2S3		
<i>Nesticus holsingeri</i> Gertsch, 1984	Holsinger's Cave Spider	G3G4	S3		
<i>Nesticus tennesseensis</i> (Petrunkevich, 1925)	A Cave Spider	G3G4	S3S4		
<i>Sphodros atlanticus</i> Gertsch and Platnick, 1980	Atlantic Purse-web Spider	G4	S3		
<i>Sphodros coylei</i> Gertsch and Platnick, 1980	Coyle's Purse-web Spider	G4?	S3		
<i>Sphodros niger</i> (Hentz, 1842)	Black Purse-web Spider	G4G5	S3		
<b>Pseudoscorpions</b>					
<i>Chitrella cavicola</i> (Packard)	A Cave Pseudoscorpion	G3	S3		
<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<b>Amphipods</b>					
<i>Crangonyx antennatus</i> Cope and Packard, 1881	Appalachian Valley Cave Amphipod	G5	S3		
<i>Crangonyx montanus</i> Zhang and Holsinger, 2003	A freshwater amphipod	G2	S3		
<i>Gammarus pseudolimnaeus</i> Bousfield, 1958	Northern Spring Amphipod	G5	S3		
<i>Stygobromus abditus</i> Holsinger, 1978	James Cave Amphipod	G2G3	S3		
<i>Stygobromus araeus</i> (Holsinger, 1969)	Tidewater Interstitial Amphipod	G3	S3		
<i>Stygobromus estesi</i> Holsinger, 1978	Craig County Cave Amphipod	G4	S3		
<i>Stygobromus foliatus</i> Holsinger, 2011	A Groundwater Amphipod	G2	S3		
<i>Stygobromus gracilipes</i> (Holsinger, 1967)	Shenandoah Valley Cave Amphipod	G3G4	S3		
<i>Stygobromus indentatus</i> (Holsinger, 1967)	Tidewater Amphipod	G3	S3		
<i>Stygobromus spinosus</i> (Hubricht and Mackin, 1940)	Blue Ridge Mountain Amphipod	G3	S3		
<b>Isopods</b>					
<i>Caecidotea pricei</i> Levi, 1949	Price's Cave Isopod	G5	S3		
<i>Caecidotea recurvata</i> (Steeves, 1963)	Southwestern Virginia Cave Isopod	G5	S3		

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<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<i>Caecidotea richardsonae</i> Hay, 1901	Tennessee Valley Cave Isopod	G5	S3		
<i>Pseudobaicalasellus holsingeri</i> = <i>Caecidotea holsingeri</i>	Greenbrier Valley Cave Isopod	G5	S3		
<i>Pseudobaicalasellus vandeli</i> = <i>Caecidotea vandeli</i>	Vandel's Cave Isopod	G3G4	S3		
<b>Decapods</b>					
<i>Cambarus angularis</i> Hobbs and Bouchard, 1994	Angled crayfish	G3	S3		
<i>Cambarus chasmodactylus</i> James, 1966	New River crayfish	G4	S3		
<i>Cambarus longirostris</i> Faxon, 1885	Longnose crayfish	G5	S3		
<i>Creaserinus fodiens</i> (Cottle, 1863) = <i>Fallicambarus fodiens</i> = <i>Fallicambarus uhleri</i>	Digger crayfish	G5	S3		
<i>Faxonius cristavarius</i> (Taylor, 2000) = <i>Orconectes cristavarius</i>	Spiny stream Crayfish	G5	S3		
<i>Faxonius forceps</i> (Faxon, 1884) = <i>Orconectes forceps</i> = <i>Cambarus forceps</i>	Surgeon crayfish	G5	S3		
<i>Faxonius obscurus</i> (Hagen, 1870) = <i>Orconectes obscurus</i> = <i>Cambarus obscurus</i>	Allegheny Crayfish	G5	S3		
<i>Faxonius virginianus</i> (Hobbs, 1951) = <i>Orconectes virginianus</i>	Chowanoke Crayfish	G3	S3		
<i>Lacunicambarus diogenes</i> (Girard, 1852) = <i>Cambarus diogenes</i>	Devil Crawfish	G5	S3		
<b>DIPLOPODA (Millipedes)</b>					
<i>Abacion tessellatum</i> Rafinesque, 1820	A Millipede	G5	S3		
<i>Andrognathus corticarius</i> Cope, 1869	A Millipede	G5	S3		
<i>Apheloria montana</i> (Bollman, 1887)	A Millipede	G5	S3		
<i>Apheloria polychroma</i> Marek, Means and Hennen, 2018	Colorful Cherry Millipede	GNR	S3		
<i>Apheloria tigana</i> Chamberlin, 1939	A Millipede	G5	S3		
<i>Brachycybe lecontii</i> Wood, 1864	A Millipede	G5	S3		
<i>Buotus carolinus</i> Chamberlin, 1940	A Millipede	G3	S3		
<i>Cambala hubrichti</i> Hoffman, 1958	A Millipede	G5	S3		



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<b>DIPLOPODA (Millipedes)</b>					
<i>Cambala minor</i> Bollman, 1888	A Millipede	G5	S3		
<i>Cleidogona fidelitor</i> Shear, 1972	Faithful Millipede	G2G4	S2S4		
<i>Cleidogona hoffmani</i> Shear, 1972	Hoffman's Cleidogonid	G3	S3		
<i>Conotyla melinda</i> Hoffman, 1971	Millipede Melinda Millipede	G3	S3		
<i>Gyalostethus monticolens</i> (Chamberlin, 1951)	A Millipede	G4	S3		
<i>Nannaria ericacea</i> Hoffman, 1949	Mcgraw Gap Xystodesmid	G3	S3		
<i>Nannaria morrisoni</i> Hoffman, 1948	A Millipede	G3	S3		
<i>Nannaria shenandoa</i> Hoffman, 1949	Shenandoah Mt Xystodesmid	G1	S2S4		
<i>Nannaria wilsoni</i> Hoffman, 1949	AMillipede	G3	S3		
<i>Rudiloria kleinpeteri</i> (Hoffman, 1949)	A Millipede	G3	S3		
<i>Rudiloria trimaculata tortua</i> (Chamberlin, 1949)	A Millipede	G5T2	S2?		
<i>Semionellus placidus</i> (Wood, 1864)	A Millipede	G3	S3		
<i>Zygonopus packardi</i> Causey, 1960	Packard's Blind Cave Millipede	G4	S3		
<b>COLLEMBOLA (Springtails)</b>					
<b>INSECTS</b>					
<i>Pseudosinella granda</i> Christiansen and Bellinger, 1996	A Cave Springtail	G3	S3		
<i>Pygmarrhopalites carolynae</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G4	S3		
<i>Pygmarrhopalites clarus</i> (Christiansen, 1966)	A Cave Springtail	G4	S3		
<i>Pygmarrhopalites marshalli</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G3	S3		
<i>Pygmarrhopalites pavo</i> (Christiansen and Bellinger, 1996)	A Cave Springtail	G3?	S3		
<i>Schaefferia hubbardi</i> Thibaud, 1995	A Cave Springtail	G2G3	S3		
<i>Sinella barri</i> Christiansen, 1960	Barr's Cave Springtail	G5	S3		
<b>DIPLURA (Diplurans)</b>					
<i>Litocampa cookei</i> (Packard, 1871)	Cooke's Cave Dipluran	G5	S3		
<i>Litocampa hoffmani</i> Ferguson, 2009 = <i>Litocampa bifurcata</i>	Hoffman's cave dipluran	G3	S3		
<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<b>Damselflies</b>					
<i>Argia bipunctulata</i> (Hagen, 1861)	Seepage Dancer	G4	S3		

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<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<i>Enallagma daeckii</i> (Calvert, 1903)	Attenuated Bluet	G4	S3		
<i>Enallagma doubledayi</i> (Selys, 1850)	Atlantic Bluet	G5	S3		
<i>Enallagma dubium</i> Root, 1924	Burgundy Bluet	G5	S3		
<i>Enallagma hageni</i> (Walsh, 1863)	Hagen's Bluet	G5	S3		
<i>Enallagma weewa</i> Byers, 1927	Blackwater Bluet	G5	S3		
<i>Ischnura prognata</i> (Hagen, 1861)	Furtive Forktail	G4	S3		
<i>Telebasis byersi</i> Westfall, 1957	Duckweed Firetail	G5	S3		
<b>Dragonflies</b>					
<i>Aphylla williamsoni</i> (Gloyd, 1936)	Two-striped Forceptail	G5	S3		
<i>Cordulegaster erronea</i> Hagen in Selys, 1878	Tiger Spiketail	G4	S3		
<i>Cordulia shurtleffii</i> Scudder, 1866	American Emerald	G5	S3		
<i>Epiheca costalis</i> (Selys, 1871) = <i>Tetragoneuria costalis</i>	Stripe-winged Baskettail	G5	S2S4		
<i>Epiheca spinosa</i> Hagen in Selys, 1878 = <i>Tetragoneuria spinosa</i>	Robust Baskettail	G4	S3		
<i>Gomphaeschna antilope</i> (Hagen, 1874)	Taper-tailed Darner	G4	S3		
<i>Gomphurus dilatatus</i> (Rambur, 1842) = <i>Gomphus dilatatus</i>	Blackwater clubtail	G5	S3		
<i>Helocordulia selysii</i> (Hagen in Selys, 1878)	Selys' Sundragon	G4	S3		
<i>Hylogomphus abbreviatus</i> Hagen in Selys, 1878 = <i>Gomphus abbreviatus</i>	Spine-crowned Clubtail	G4	S3		
<i>Leucorrhinia intacta</i> (Hagen, 1861)	Dot-tailed Whiteface	G5	S3		
<i>Libellula flavida</i> Rambur, 1842	Yellow-sided Skimmer	G5	S3		
<i>Macromia alleghaniensis</i> Williamson, 1909	Allegheny River Cruiser	G4	S3		
<i>Phanogomphus quadricolor</i> (Walsh, 1863) = <i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S3		
<i>Stenogomphurus rogersi</i> (Gloyd, 1936) = <i>Gomphus rogersi</i>	Sable Clubtail	G4	S3		
<b>PLECOPTERA (Stoneflies)</b>					
<i>Acroneuria kosztarabi</i> Kondratieff and Kirchner, 1993 = <i>Acroneuria kirchneri</i>	Virginia Stonefly	G4	S3		
<i>Alloperla stipitata</i> Surdick, 2004	Blue Ridge Sallfly	G2G3	S3		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>PLECOPTERA (Stoneflies)</b>					
<i>Ostrocerca complexa</i> (Claassen, 1937)	Notched Forestfly	G4	S1S3		
<i>Ostrocerca prolongata</i> (Claassen, 1923)	Bent Forestfly	G3	S1S3		
<i>Paragnetina ichusa</i> Stark and Szczytko, 1981	Widecollar Stonefly	G3	S1S3		
<i>Remenus kirchneri</i> Kondratieff and Nelson, 1995	Blue Ridge Springfly	G2	S3		
<i>Sweltsa voshelli</i> Kondratieff and Kirchner, 1991	Virginia Sallfly	G3	S3		
<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Ctenotrachelus shermani</i> Barber, 1930	Combneck Assassin Bug	G3	S3		
<b>COLEOPTERA (Beetles)</b>					
<i>Anthophylax hoffmani</i> Beutenmueller, 1903	A longhorned beetle	GNR	S1S3		
<i>Calligrapha pnirsa</i> Stål, 1860	A Leaf Beetle	G3	S1S3		
<i>Cicindela dorsalis media</i> LeConte, 1860 = <i>Habroscelimorpha dorsalis media</i>	Southeastern Beach Tiger Beetle	G3T3	S3		
<i>Cicindela purpurea</i> Olivier, 1790	Purple Tiger Beetle	G5	S3		
<i>Cicindela splendida</i> Hentz, 1830	Splendid Tiger Beetle	G5	S3		
<i>Helops sulcipennis</i> LeConte, 1866	A Flightless Darkling Beetle	G3?	S1S3		
<i>Hydraena maureenae</i> Perkins, 1980	Maureen's Shale Stream Beetle	G3	S3		
<i>Megacephala carolina</i> (Linnaeus, 1767) = <i>Tetracha carolina</i>	Carolina Big-headed Tiger Beetle	G5	S3		
<i>Nicrophorus defodiens</i> Mannerheim, 1846	A Burying Beetle	G5	S3		
<b>TRICHOPTERA (Caddisflies)</b>					
<i>Adicropheps hitchcocki</i> Flint, 1965	A brachycentrid caddisfly	G4G5	S1S3		
<i>Agapetus tomus</i> Ross, 1941	A glossosomatid caddisfly	G5	S1S3		
<i>Agarodes libalis</i> Ross and Scott, 1974	Spring-loving Psiloneuran Caddisfly	G3	S1S3		
<i>Ceraclea neffi</i> (Resh, 1974)	A Caddisfly	G5	S1S3		
<i>Ceraclea punctata</i> (Banks, 1894)	A Ceracleean Caddisfly	G5	S1S3		
<i>Ceraclea spongillovorax</i> (Resh, 1974)	A leptocerid caddisfly	G3G4	S1S3		
<i>Ceraclea uvalo</i> (Ross, 1938)	A leptocerid caddisfly	G2G4	S1S3		
<i>Cheumatopsyche parentum</i> Gordon, 1974	A hydropsychid caddisfly	G3	S3		
<i>Chimarra augusta</i> J.C. Morse, 1971	A hydropsychid caddisfly	G3G4	S3		
<i>Culoptila cantha</i> (Ross, 1938)	A glossosomatid caddisfly	G5	S1S3		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>TRICHOPTERA (Caddisflies)</b>					
<i>Homoplectra monticola</i> (Flint, 1965)	A hydropsychid caddisfly	G2G3	S2S3		
<i>Hydropsyche brunneipennis</i> Flint and Butler, 1983		G3G4	S1S3		
<i>Hydropsyche catawba</i> Ross, 1939	A hydropsychid caddisfly	G3	S3		
<i>Hydropsyche frisoni</i> Ross, 1938	A hydropsychid caddisfly	G5	S1S3		
<i>Hydropsyche hoffmani</i> Ross, 1962	A hydropsychid caddisfly	G3G4	S3		
<i>Hydropsyche ophthalmica</i> Flint, 1965	A hydropsychid caddisfly	G3	S3		
<i>Hydropsyche potomacensis</i> Flint, 1965	A hydropsychid caddisfly	G2G3	S2S3		
<i>Hydropsyche rotosa</i> Ross, 1947	A hydropsychid caddisfly	G2G3	S2S3		
<i>Ironoquia lyrata</i> (Ross, 1938)	A limnephilid caddisfly	G5	S1S3		
<i>Lepidostoma bryanti</i> (Banks, 1908)	A Caddisfly	G5	S1S3		
<i>Lepidostoma carrolli</i> Flint, 1958	A lepidostomatid caddisfly	G5	S1S3		
<i>Lepidostoma ontario</i> Ross, 1941	A Caddisfly	G5	S1S3		
<i>Lepidostoma pictile</i> (Banks, 1899)	A lepidostomatid caddisfly	G5	S2S3		
<i>Lepidostoma serratum</i> Flint and Wiggins, 1961	A lepidostomatid caddisfly	G3G4	S1S3		
<i>Micrasema scotti</i> Ross, 1947	A brachycentrid caddisfly	G3G4	S2S4		
<i>Micrasema sprulesi</i> Ross, 1941	A Caddisfly	G5	S1S3		
<i>Molanna tryphena</i> Betten, 1934	A Caddisfly	G5	S1S2		
<i>Molanna uniophila</i> Vorhies, 1909	A Caddisfly	G5	S1S2		
<i>Neophylax stulus</i> Ross, 1938	A uenoid caddisfly	G3	S3		
<i>Ochrotrichia denningi</i> Blickle and Morse, 1957	A microcaddisfly	G2G4	S1S3		
<i>Ochrotrichia graysoni</i> Parker and Voshell, 1980	A microcaddisfly	G3G4	S1S3		
<i>Oxyethira pescadori</i> Harris and Keth, 2002	Pescador's bottle-cased caddisfly	G3G4	S1S2		
<i>Parapsyche cardis</i> Ross, 1938	A hydropsychid caddisfly	G4	S2		
<i>Phyloctropus auriceps</i> (Banks, 1905)	A caddisfly	G3G4	S2		
<i>Phyloctropus carolinus</i> Carpenter, 1933	A caddisfly	G5	S2		
<i>Polycentropus centralis</i> Banks, 1914	A polycentropodid caddisfly	G5	S1S2		
<i>Polycentropus pixi</i> Ross, 1944	A polycentropodid caddisfly	G4	S1S2		
<i>Pycnopsyche virginica</i> (Banks, 1900)	A limnephilid caddisfly	G3G4	S3		
<i>Rhyacophila atrata</i> Banks, 1911	A rhyacophilid caddisfly	G5	S2		
<i>Rhyacophila otica</i> Etnier and Way, 1973	A rhyacophilid caddisfly	G3G4Q	S1S3		

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<b>TRICHOPTERA (Caddisflies)</b>					
<i>Rhyacophila shenandoahensis</i> Flint, 1958	Shenandoah Rhyacophilid Caddisfly	G3	S3		
<i>Setodes guttatus</i> (Banks, 1900)	A leptocerid caddisfly	G3G5	S1S3		
<i>Theliopsyche grisea</i> (Hagen, 1861)	A Caddisfly	G4	S1S3		
<i>Theliopsyche melas</i> Edwards, 1956	A Caddisfly	G4G5	S1S3		
<i>Triaenodes dipsius</i> Ross, 1938	A leptocerid caddisfly	G5	S1S3		
<i>Triaenodes taenia</i> Ross, 1938	A leptocerid caddisfly	G3G4	S1S3		
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<b>Butterflies</b>					
<i>Atlides halesus</i> (Cramer, 1777)	Great Purple Hairstreak	G5	S3		
<i>Celastrina nigra</i> (W. Forbes, 1960) = <i>Celastrina ebenina</i>	Dusky Azure	GU	S3S4		
<i>Enodia creola</i> (Skinner, 1897)	Creole Pearly Eye	G4	S3S4		
<i>Euphydryas phaeton</i> (Drury, 1773)	Baltimore Checkerspot	G4	S2S4		
<i>Pieris virginiensis</i> W. H. Edwards, 1870	West Virginia White	G4	S3		
<i>Satyrium edwardsii</i> (Grote and Robinson, 1867)	Edwards' Hairstreak	G4	S3		
<i>Satyrium favonius ontario</i> (W. H. Edwards, 1868) = <i>Fixsenia favonius ontario</i>	Oak hairstreak(=Northern Hairstreak)	G5T4	S3		
<i>Speyeria diana</i> (Cramer, 1777)	Diana Fritillary	G2G3	S3		
<b>Skippers</b>					
<i>Amblyscirtes aesculapius</i> (Fabricius, 1793)	Lace-winged Roadside Skipper	G4	S3		
<i>Amblyscirtes carolina</i> (Skinner, 1892)	Carolina Roadside Skipper	G3G4	S3S4		
<i>Amblyscirtes reversa</i> F. Jones, 1926	Reversed Roadside Skipper	G3	S3		
<i>Hesperia leonardus</i> T. Harris, 1862	Leonard's Skipper	G4	S3?		
<i>Poanes aaroni</i> (Skinner, 1890)	Aaron's Skipper	G4	S3		
<i>Poanes yehl</i> (Skinner, 1893)	Yehl Skipper	G4	S3		
<i>Polites mystic</i> (Edwards, 1863)	Long Dash	G5	S3		
<b>Moths</b>					
<i>Abrostola ovalis</i> Guenée, 1852	A noctuid moth	G4	S2S4		
<i>Acherdoa ferraria</i> Walker, 1865	Chocolate Moth	G5	S3		
<i>Acronicta radcliffei</i> (Harvey, 1875)	Radcliffe's dagger moth	G5	S2S4		
<i>Acronicta tristis</i> Smith, 1911	A dagger moth	GNR	S1S3		
<i>Anaplectoides prasina</i> ([Denis and Schiffermüller], 1775)	Green arches	G5	S1S3		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Apamea cariosa</i> (Guenée, 1852)	A noctuid moth	G4	S1S3		
<i>Apamea indocilis</i> (Walker, 1856)	Ignorant Apamea moth	G5	S1S3		
<i>Apamea lignicolora</i> (Guenée, 1852)	Hesitant dagger moth	G5	S2S4		
<i>Apamea plutonia</i> (Grote, 1883)	A noctuid moth	G5	S2S4		
<i>Apamea sordens</i> (Hufnagel, 1766)	Bordered Apamea moth	G5	S1S3		
= <i>Apamea finitima</i>					
<i>Argyrostromis flavistriaria</i> (Hübner, 1831)	Yellow-lined Chocolate Moth	GNR	S1S3		
<i>Argyrostromis quadrifilaris</i> (Hübner, 1831)	Four-lined chocolate moth	G4	S1S3		
<i>Arugisa latiorella</i> (Walker, 1863)	Watson's Arugisa Moth	G4	S1S3		
= <i>Arugisa watsoni</i>					
<i>Autographa ampla</i> (Walker, [1858])	Large looper moth	G5	S1S3		
<i>Bellura brehmei</i> (Barnes and McDunnough, 1916)	A wetland borer moth	GNR	S2S4		
<i>Cabera quadrifasciaria</i> (Packard, 1873)	Four-lined Cabera moth	GNR	S1S3		
<i>Catocala angusi</i> Grote, 1876	Angus' underwing	G4	S2S4		
<i>Catocala concumbens</i> Walker, [1858]	Sleepy underwing	G5	S1S3		
<i>Catocala crataegi</i> Saunders, 1876	Hawthorn underwing	G5	S2S4		
<i>Catocala insolabilis</i> Guenée, 1852	Inconsolable underwing	G5	S1S3		
<i>Catocala miranda</i> H. Edwards, 1881	Miranda underwing	G3?	S2S4		
<i>Catocala parta</i> Guenée, 1852	Mother underwing	G5	S2S4		
<i>Catocala robinsoni</i> Grote, 1872	Robinson's Underwing	G4?	S3		
<i>Catocala sappho</i> Strecker, 1874	Sappho underwing	G4	S1S3		
<i>Catocala serena</i> W. H. Edwards, 1864	Serene underwing	G4G5	S2S4		
<i>Crambidia pura</i> Barnes and McDunnough, 1913	Pure lichen moth	G4	S1S3		
<i>Cucullia florea</i> Guenée, 1852	A noctuid moth	G5	S2S4		
<i>Cutina aluticolor</i> Pogue and Ferguson, 1998	A cypress moth	GNR	S3		
<i>Darapsa versicolor</i> (Harris, 1839)	Hydrangea sphinx	G4?	S3		
<i>Dasychira pinicola</i> (Dyar, 1911)	Pine tussock moth	G4	S1S3		
<i>Dasychira plagiata</i> (Walker, 1865)	A tussock moth	G5	S2S4		
<i>Derrima stellata</i> Walker, [1858]	Pink star moth	G4	S1S3		
<i>Diachrysia balluca</i> Geyer, 1832	A noctuid moth	G5	S1S3		
<i>Dystroma truncata</i> (Hufnagel, 1767)	Marbled carpet	G5	S2S4		

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Emarginea percara</i> (Morrison, 1875)	A Noctuid Moth	G4	S3		
<i>Erastria cruentaria</i> (Hübner, 1799)	Thin-lined erastria moth	G4	S2S4		
<i>Eueretagrotis attenta</i> (Grote, 1874)	Attentive dart moth	G5	S1S3		
<i>Eueretagrotis perattenta</i> (Grote, 1874)	Two-spot dart moth	G5	S1S3		
<i>Eueretagrotis sigmoides</i> (Guenée, 1852)	Sigmoid Dart	G5	S3		
<i>Eulia ministrana</i> (Linnaeus, 1758)	Ferruginous Eulia Moth	GNR	S1S3		
<i>Eulithis molliculata</i> (Walker, 1862)	A Geometrid Moth	G4	S3		
<i>Euxoa bostoniensis</i> (Grote, 1874)	Boston dart moth	GNR	S2S4		
<i>Euxoa declarata</i> (Walker, 1865)	A dart moth	G5	S1S3		
<i>Euxoa obeliscoides</i> (Guenée, 1852)	A dart moth	G5	S2S4		
<i>Euxoa redimicula</i> (Morrison, 1874)	Fillet dart moth	GNR	S2S4		
<i>Euxoa scholastica</i> McDunnough, 1920	Scholastic dart moth	GNR	S2S4		
<i>Euxoa violaris</i> (Grote and Robinson, 1868)	Violet darter	G4	S1S3		
<i>Feralia comstocki</i> (Grote, 1874)	Comstock's sawfly	G5	S1S3		
<i>Givira francesca</i> (Dyar, 1909)	a carpenterworm moth	GNR	S3		
<i>Globia subflava</i> (Grote, 1882)	A sedge borer moth	G5	S1S3		
= <i>Archanara subflava</i>					
= <i>Capsula subflava</i>					
<i>Haploa colona</i> (Hübner, [1803])	Colona moth	G4G5	S2S4		
<i>Helimata infulata</i> (Grote, 1863)	Rare Spring Moth	G3G4	S2S4		
<i>Homochlodes disconventa</i> (Walker, 1860)	Dark Homochlodes moth	G4	S2S4		
<i>Hydraecia stramentosa</i> Guenée, 1852	Figwort Borer	G4	S2S4		
<i>Hypena sordidula</i> Grote, 1872	Sordid hypena moth	G4?	S2S4		
= <i>Bomolocha sordidula</i>					
<i>Inguomorpha basalis</i> (Walker, 1856)	Black-lined Carpenterworm Moth	G4	S1S3		
<i>Iridopsis pergracilis</i> (Hulst, 1900)	a Geometrid moth	G4G5	S1S3		
= <i>Anacamptodes pergracilis</i>					
<i>Isoparce cupressi</i> (Boisduval, [1875])	Cypress Sphinx	G4	S3		
<i>Korscheltellus gracilis</i> (Grote, [1865])	Conifer swift moth	GNR	S1S2		
= <i>Hepialus gracilis</i>					

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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Lacanobia grandis</i> (Guenée, 1852) = <i>Spiramater grandis</i>	Grand arches moth	G5	S1S3		
<i>Lintneria eremitus</i> (Hübner, [1823]) = <i>Sphinx eremitus</i>	Hermit sphinx	G4G5	S1S3		
<i>Lithophane petulca</i> Grote, 1874	Wanton pinion moth	G5	S1S3		
<i>Lophocampa maculata</i> Harris, 1841	Spotted Tussock Moth	G5	S1S3		
<i>Melanchra assimilis</i> (Morrison, 1874)	Black arches	G5	SU		
<i>Melipotis jucunda</i> (Hübner, 1818)	Merry Melipotis moth	G5	S1S3		
<i>Meropleon cosmion</i> Dyar, 1924	A Noctuid Moth	G4	S3		
<i>Mesoleuca ruficillata</i> (Guenée, [1858] in Boisduval and Guenée)	White-ribboned carpet	G5	S3		
<i>Metanema inatomaria</i> Guenée, [1858] in Boisduval and Guenée	Pale metanema moth	G5	S1S3		
<i>Metarranthis</i> sp. 1	Mid-Atlantic metarranthis moth	G3G4	S1S3		
<i>Morrisonia triangula</i> Sullivan and Adams, 2009	Triangle-barred Morrisonia moth	G3G4	S2S4		
<i>Neoligia crytora</i> (Franclemont, 1950) = <i>Oligia crytora</i>	A noctuid moth	GNR	S2S4		
<i>Neoligia exhausta</i> (Smith, 1903) = <i>Oligia exhausta</i>	A noctuid moth	GNR	S1S3		
<i>Pachysphinx modesta</i> (Harris, 1839)	Big poplar sphinx moth	G5	S1S3		
<i>Panopoda repanda</i> (Walker, [1858])	Orange Panopoda Moth	G5	S3		
<i>Panthea acronyctoides</i> (Walker, 1861)	Black Zipzag	G5	S2S4		
<i>Papaipema furcata</i> (Smith, 1899)	Ash borer moth	G4	S3S4		
<i>Papaipema impecuniosa</i> (Grote, 1881)	Aster borer moth	G5	S2S4		
<i>Papaipema nepheleptena</i> (Dyar, 1908)	Turtlehead Borer	G4G5	S2S4		
<i>Papaipema polymniae</i> Bird, 1917	Leafcup Borer Moth	G4?	S2S4		
<i>Papaipema pterisii</i> Bird, 1907	Bracken Fern Borer	G5	S3		
<i>Papaipema speciosissima</i> (Grote and Robinson, 1868)	Osmunda Borer Moth	G3G4	S3		
<i>Papaipema unimoda</i> (Smith, 1894)	Meadow Rue Borer	G5	S2S4		
<i>Pero zalissaria</i> (Walker, 1860)	A Geometrid Moth	G4	S3		
<i>Petrophora subaequaria</i> (Walker, 1860 in Urban)	Northern petrophora moth	G5	S1S3		
<i>Polychrysia morigera</i> (H. Edwards, 1886)	A Noctuid Moth	G4	S3		



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<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Protapamea danieli</i> Quinter, 2009	Daniel's cane borer	GNR	S1S3		
<i>Protodeltote albidula</i> (Guenée, 1852) = <i>Lithacodia albidula</i>	A noctuid moth	G5	S1S3		
<i>Pseudohermonassa tenuicula</i> (Morrison, 1874) = <i>Xestia tenuicula</i>	A dart moth	G5	S1S3		
<i>Schinia florida</i> (Guenée, 1852)	Primrose moth	G5	S2S4		
<i>Schinia nubila</i> (Strecker, 1876)	A flower moth	G5	S2S4		
<i>Schinia saturata</i> (Grote, 1874)	Brown flower moth	G5	S2S4		
<i>Sideridis congermana</i> (Morrison, 1874)	German cousin moth	GNR	S1S3		
<i>Speranza abruptata</i> (Walker, 1862) = <i>Itame abruptata</i>	A Geometrid Moth	G5	S2S4		
<i>Speranza evagaria</i> (Hulst, 1900) = <i>Itame evagaria</i>	A geometrid moth	G4G5	S1S3		
<i>Speranza exauspicata</i> (Walker, 1861) = <i>Itame exauspicata</i>	A geometrid moth	G5	S1S3		
<i>Speranza subcessaria</i> (Walker, 1861) = <i>Itame subcessaria</i>	Barred Itame moth	G5	S2S4		
<i>Sphinx chersis</i> (Hübner, [1823])	Great ash sphinx	G4	S2S4		
<i>Sphinx drupiferarum</i> J. E. Smith, 1797	Wild cherry sphinx	G3G5	S1S3		
<i>Sphinx franckii</i> Neumoegen, 1893	Franck's Sphinx	G4G5	S3		
<i>Spragueia dama</i> (Guenée, 1852)	Southern Spragueia moth	G5	S2S4		
<i>Sthenopsis argenteomaculatus</i> (Harris, 1842)	Silver-spotted Ghost Moth	GNR	S1S3		
<i>Sthenopsis pretiosus</i> (Herrich-Schäffer, [1856]) = <i>Sthenopsis auratus</i>	Gold-spotted Ghost Moth	G3G4	S1S3		
<i>Xanthorhoe labradorensis</i> (Packard, 1867)	Labrador carpet	G5	S2S4		
<i>Zale calycanthata</i> (J.E. Smith, 1797)	Double-banded Zale moth	G4	S2S4		
<i>Zale submediana</i> Strand, 1917	A Noctuid Moth	G4	S2S4		
<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					
<i>Andrena fulvipennis</i> Smith, 1853	a mining bee	GNR	S1S2		
<i>Bombus fernaldae</i> (Franklin, 1911)	Fernald's Cuckoo Bumble Bee	G5?	SU		
<i>Bombus fervidus</i> (Fabricius, 1798)	Yellow bumble bee	G3G4	S3		
<i>Melissodes tepaneca</i> Cresson, 1878	Tepanec long-horned bee	GNR	SU		

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<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					
<i>Melitta eickworti</i> Snelling and Stage, 1995	Deerberry Melitta	GNR	SU		
<i>Monomorium viridum</i> Brown, 1943	Green Monorium ant	GNR	S1S3		
<i>Osmia felti</i> Cockerell, 1911	A mason bee	G3	S2S3		
<b>ORTHOPTERA (Grasshoppers, Katydid, Crickets &amp; Relatives)</b>					
<i>Scudderia septentrionalis</i> (Serville, 1838)	Northern Bush Katydid	G3?	S3		

## Animal Review List

The following taxa are ranked SU (Unrankable) indicating their taxonomy and/or distribution in Virginia are poorly understood. More data are needed to assess their status.



Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>VERTEBRATES</b>					
<b>FISH</b>					
<i>Lepomis marginatus</i> (Holbrook, 1855)	Dollar sunfish	G5	SU		
<b>AMPHIBIANS</b>					
<i>Lithobates kauffeldi</i> Feinberg, Newman, Watkins-Colwell, Schlesinger, Zarate, Curry, Shaffer, and Burger, 2014 = <i>Rana kauffeldi</i>	Atlantic coast leopard frog	G3G4	SU		
<b>REPTILES</b>					
<i>Lampropeltis elapsoides</i> (Holbrook, 1838) = <i>Lampropeltis triangulum elapsoides</i>	Scarlet Kingsnake	G5	SU		

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>INVERTEBRATES</b>					
<b>GASTROPODA (Snails)</b>					
<i>Catinella hubrichti</i> Grimm, 1960	Snowhill Ambersnail	G3	SU		
<i>Discus nigrimontanus</i> (Pilsbry, 1924)	Black Mountain Disc	G4	SU		
<i>Euchemotrema leai</i> (A. Binney, 1841)	Lowland Pillsnail	G5	SU		
= <i>Stenotrema leai aliciae</i>					
<i>Fumonelix christyi</i> (Bland, 1860)	Glossy Covert	G3	SU		
= <i>Mesodon christyi</i>					
<i>Gastrocopta clappi</i> (Sterki, 1909)	Bluegrass Snaggletooth	G4G5	SU		
= <i>Gastrocopta armifera clappi</i>					
<i>Gastrocopta pellucida</i> (Pfeiffer, 1841)	Slim Snaggletooth	G5	SU		
<i>Gastrodonta fonticula</i> Wurtz, 1948	Appalachia Bellytooth	G3G4	SU		
<i>Glyphyalinia praecox</i> (H.B. Baker, 1930)	Brilliant Glyph	G4	SU		
<i>Glyphyalinia sculptilis</i> (Bland, 1858)	Suborb Glyph	G4	SU		
<i>Helicodiscus shimeki</i> Hubricht, 1962	Temperate Coil	G4G5	SU		
<i>Inflectarius kalmianus</i> (Hubricht, 1965)	Brown Globelet	G3	SU		
= <i>Mesodon kalmianus</i>					
<i>Lobosculum pustuloides</i> (Bland, 1858)	Tiny Liptooth	G4	SU		
= <i>Polygyra pustuloides</i>					
<i>Mesomphix subplanus</i> (A. Binney, 1842)	Flat Button	G3G4	SU		
<i>Oxyloma subeffusum</i> Pilsbry, 1948	Chesapeake Ambersnail	G3	SU		
<i>Pallifera varia</i> Hubricht, 1953	Variable Mantleslug	G2G4	SU		
<i>Paravitrea grimmi</i> Hubricht, 1968	Buff Supercoil	G1G3Q	SU		
<i>Paravitrea placentula</i> (Shuttleworth, 1852)	Glossy Supercoil	G3	SU		
<i>Paravitrea pontis</i> H.B. Baker, 1931	Natural Bridge Supercoil	G3	SU		
<i>Paravitrea reesei</i> Morrison, 1937	Round Supercoil	G3	SU		
<i>Patera laevior</i> (Pilsbry, 1940)	Smooth Bladetooth	G4	SU		
<i>Pomatiopsis cincinnatiensis</i> (I. Lea, 1840)	Brown Walker	G4	SU		
<i>Pupilla muscorum</i> (Linnaeus, 1758)	Widespread Column	G5	SU		
<i>Somatogyrus pennsylvanicus</i> Walker, 1904	Shale Pebblesnail	G3	SU		
<i>Stenotrema pilula</i> (Pilsbry, 1900)	Pygmy Slitmouth	G3G4	SU		

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>GASTROPODA (Snails)</b>					
<i>Stenotrema spinosum</i> (I. Lea, 1830)	Carinate Slitmouth	G4	SU		
<i>Striatura exigua</i> (Stimpson, 1850)	Ribbed Striate	G5	SU		
<i>Striatura milium</i> (E.S. Morse, 1859)	Fine-ribbed Striate	G5	SU		
<i>Triodopsis anteridon</i> Pilsbry, 1940	Carter Threetooth	G3	SU		
<i>Triodopsis pendula</i> Hubricht, 1952	Hanging Rock Three-tooth	G3	SU		
<i>Vallonia parvula</i> Sterki, 1893	Trumpet Vallonia	G4	SU		
<i>Ventridens decussatus</i> (Walker and Pilsbry, 1902)	Crossed Dome	G3	SU		
<i>Ventridens lawae</i> (W.G. Binney, 1892)	Rounded Dome	G4	SU		
<i>Vertigo bollesiana</i> (E.S. Morse, 1865)	Delicate Vertigo	G4G5	SU		
<i>Vertigo clappi</i> Brooks and Hunt, 1936	Cupped Vertigo	G3	SU		
<i>Vertigo oralis</i> Sterki, 1898	Palmetto Vertigo	G5	SU		
<i>Vertigo parvula</i> Sterki, 1890	Smallmouth Vertigo	G3	SU		
<i>Vertigo teskeyae</i> Hubricht, 1961	Swamp Vertigo	G5	SU		
<i>Vertigo ventricosa</i> (E.S. Morse, 1865)	Five-tooth Vertigo	G5	SU		
<i>Vitrinizonites latissimus</i> (J. Lewis, 1875)	Glassy Grapeskin	G4	SU		
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Pisidium equilaterale</i> Prime, 1852	Round Peaclam	G4G5	SU		
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<b>Spiders</b>					
<i>Amaurobius borealis</i> Emerton, 1909	An Amaurobiid Spider	G5	SU		
<i>Barronopsis jeffersi</i> (Muma, 1945)	A Funnel-web Spider	G3	SU		
<i>Castianeira trilineata</i> (Hentz, 1847)	A Two-clawed Hunting Spider	G4?	SU		
<i>Clubiona spiralis</i> Emerton, 1909	A Two-clawed Hunting Spider	G4	SU		
<i>Drassyllus louisianus</i> Chamberlin, 1922	A Gnaphosid Spider	G4?	SU		
<i>Drassyllus</i> sp. 1	A gnaphosid spider	G1G3	SU		
<i>Pisaurina dubia</i> (Hentz, 1847)	A Nursery-web Spider	G4	SU		
<i>Sphodros rufipes</i> (Latreille, 1829)	Red-legged Purse-web Spider	G4	SU		
<i>Xysticus emertoni</i> Keyserling, 1880	Emerton's Crab Spider	G5	SU		
<b>Pseudoscorpions</b>					

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<i>Kleptochthonius polychaetus</i> Muchmore, 1994	Shenadoah Pseudoscorpion	G1G3	SU		
<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<b>Amphipods</b>					
<i>Crangonyx acicularis</i> Zhang and Holsinger, 2003	A freshwater amphipod	G1G3	SU		
<i>Crangonyx gracilis</i> S.I. Smith, 1871	A freshwater amphipod	G4	SU		
<b>Branchiopods</b>					
<i>Eulimnadia</i> sp. 1	A Clam Shrimp	GNR	SU		
<b>DIPLOPODA (Millipedes)</b>					
<i>Auturus erythropygos</i> (Brandt, 1839)	A Millipede	G3	SU		
<i>Okeanobates americanus</i> Enghoff, 1979	A Millipede	G4	SU		
<i>Petaserpes rosalbus</i> Cope, 1879 = <i>Polyzonium rosalbum</i>	A Millipede	G5	SU		
<i>Pseudopolydesmus paludicolus</i> Hoffman, 1950	A Millipede	G2G4	SU		
<i>Striaria columbiana</i> Cook, 1899	A Millipede	G2	SU		
<i>Trichopetalum lunatum</i> Harger, 1872	A Millipede	G5	SU		
<b>INSECTS</b>					
<b>EPHEMEROPTERA (Mayflies)</b>					
<i>Ameletus tarteri</i> Burrows, 1987	Tarter's Ameletus Mayfly	G2G4	SU		
<i>Isonychia arida</i> (Say, 1839)	A Mayfly	G5	SU		
<i>Isonychia georgiae</i> McDunnough, 1931	Georgia Isonychia Mayfly	G4	SU		
<i>Iswaeon anoka</i> (Daggy, 1945) = <i>Heterocleon anoka</i>	Mayfly	G5	SU		
<i>Rhithrogena anomala</i> McDunnough, 1928	A Mayfly	G3G4	SU		
<i>Waynokiops dentatogriphus</i> Hill, Pfeiffer, and Jacobus, 2010	A mayfly	GNR	SU		
<b>ODONATA (Damselflies &amp; Dragonflies)</b>					
<b>Dragonflies</b>					
<i>Sympetrum internum</i> Montgomery, 1943 = <i>Sympetrum janeae</i>	Cherry-faced meadowhawk	G5	SU		
<b>PLECOPTERA (Stoneflies)</b>					
<i>Allocapnia harperi</i> Kirchner, 1980	Stonyfork snowfly	G4	SU		
<i>Alloperla banksi</i> Frison, 1942	Tufted Sallfly	G4	SU		
<i>Alloperla biserrata</i> Nelson and Kondratieff, 1980	Dusky Sallfly	G3	SU		
<i>Alloperla ideii</i> (Ricker, 1935)	Vernal Sallfly	G3	SU		

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>PLECOPTERA (Stoneflies)</b>					
<i>Alloperla nanina</i> Banks, 1911	Swannanoa Sallfly	G4	SU		
<i>Bolotoperla rossi</i> (Frison, 1942)	Smoky Willowfly	G4	SU		
<i>Hansonoperla appalachia</i> Nelson, 1979	Appalachian Stonefly	G3	SU		
<i>Isogenoides varians</i> (Walsh, 1862)	Rock Island Springfly	G3G4	SU		
<i>Perlesta roblei</i> Kondratieff and Kirchner, 2003	Dragon Run stonefly	G3	SU		
<i>Perlesta shawnee</i> Grubbs, 2005	Shawnee stonefly	G3	SU		
<i>Perlesta teaysia</i> Kirchner and Kondratieff, 1997	Teays Stonefly	G4	SU		
<i>Pteronarcys comstocki</i> Smith, 1917	Spiny Salmonfly	G3	SU		
<i>Pteronarcys scotti</i> Ricker, 1952	Carolina Salmonfly	G4	SU		
<i>Shipsa rotunda</i> (Claassen, 1923)	Intrepid forestfly	G5	SU		
<i>Tallaperla cornelia</i> (Needham and Smith, 1916)	Southeastern Roachfly	G4	SU		
<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Acantholomidea denticulata</i> (Stål, 1870)	A Shield Bug	GNR	SU		
<i>Allopodops mississippiensis</i> Harris and Johnson	Mississippi Turtle Bug	G2G3	SU		
<i>Botocudo modestus</i> (Barber)	A Seed Bug	G5	SU		
<i>Corixidea major</i> McAtee and Malloch, 1925	A true bug	GU	SU		
<i>Elasmostethus atricornis</i> (Van Duzee, 1904)	Hercules Club Stink Bug	G3?	SU		
<i>Eurygaster alternata</i> (Say, 1828)	A Shield Bug	G5	SU		
<i>Galgupha denudata</i> (Uhler, 1863)	A Shield Bug	G3	SU		
<i>Glyptocombus saltator</i> Heidemann, 1906	A true bug	GNR	SU		
<i>Ioscytus chapmani</i> McKinnon and Polhemus, 1986	Chapman's Shore Bug	GNR	SU		
<i>Isthmocoris piceus</i> (Say, 1832)	Black Stalk-eyed Bug	G5	SU		
<i>Ligyrocoris depictus</i> Barber, 1921	A seed bug	G4?	SU		
<i>Melanaethus cavicollis</i> (Blatchley)	A Burrower Bug	G4	SU		
<i>Nannocoris arenarius</i> Blatchley, 1926	A True Bug	GU	SU		
<i>Neolygus crataegi</i> Henry, 2007	Hawthorn plant bug	GNR	SU		
<i>Nepa apiculata</i> Uhler, 1862	A Water Scorpion	GNR	SU		
<i>Oncozygia clavicornis</i> Stal, 1872	A Turtle Bug	G3	SU		
<i>Plagiognathus repetitus</i> Knight, 1923	Pine barrens plant bug	GNR	SU		
<i>Pnirontis languida</i> Stal, 1859	An Assassin Bug	G4	SU		

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Ranatra australis</i> Hungerford, 1922	Southern Water Scorpion	G5	SU		
<i>Ranatra drakei</i> Hungerford, 1922	Drake's Water Scorpion	G4	SU		
<i>Stachyocnemus apicalis</i> (Dallas, 1852)	Sandpit Alydid Bug	G4	SU		
<i>Tominotus communis</i> (Uhler, 1877)	A Burrower Bug	G5	SU		
<i>Trialeurodes phlogis</i> Russell, 1995	Phlox Whitefly	GU	SU		
<b>COLEOPTERA (Beetles)</b>					
<i>Cantharis sheraldi</i> Steury, 2020	a soldier beetle	GNR	SU		
<i>Cyclotrachelus incisus</i> (LeConte, 1848)	A Ground Beetle	G4	SU		
<i>Diabrotica cristata</i> (Harris, 1836, "1837")	A Leaf Beetle	GNR	SU		
<i>Dryobius sexnotatus</i> Linsley, 1957	Six-banded Longhorn Beetle	GNR	SU		
<i>Eucaerus varicornis</i> LeConte, 1853	A Ground Beetle	G4?	SU		
<i>Hoperius planatus</i> Fall, 1927	A Dytiscid Beetle	GNR	SU		
<i>Hydrobiomorpha casta</i> (Say, 1835)	A Water Scavenger Beetle	GNR	SU		
<i>Laccophilus schwarzi</i> Fall, 1917	Schwarz' Diving Beetle	GNR	SU		
<i>Paralichas trivittis</i> (Germar, 1824)	A Beetle	GNR	SU		
= <i>Odontonyx trivittis</i>					
<i>Pentagonica picticornis</i> Bates, 1883	A Ground Beetle	GNR	SU		
<i>Phanaeus igneus</i> MacLeay, 1919	A Scarab Beetle	G5	SU		
<i>Phloeoxena signata</i> DeJean	A Ground Beetle	G3?	SU		
<i>Pseudaptinus lecontei</i> (Dejean, 1831)	A Ground Beetle	GNR	SU		
<i>Pseudaptinus pygmaeus</i> (Dejean, 1826)	A Ground Beetle	GNR	SU		
= <i>Thalpius pygmaeus</i>					
<i>Sosylus costatus</i> LeConte	A Beetle	GNR	SU		
<i>Stenocorus schaumii</i> LeConte, 1850	Schaum's Longhorn Beetle	GNR	SU		
<i>Urographis triangulifer</i> (Haldeman, 1847)	A Longhorned Beetle	G4?	SU		
= <i>Graphisurus triangulifer</i>					
<b>MECOPTERA (Scorpionflies)</b>					
<i>Boreus nivoriundus</i> Fitch, 1847	A Snow Scorpionfly	G4	SU		
<b>TRICHOPTERA (Caddisflies)</b>					
<i>Agapetus minutus</i> Sibley, 1926	A glossosomatid caddisfly	G4G5	SU		
<i>Hydroptila acadia</i> Ross, 1941	A microcaddisfly	GU	SU		



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<b>TRICHOPTERA (Caddisflies)</b>					
<i>Hydroptila amoena</i> Ross, 1938	A microcaddisfly	G5	SU		
<i>Hydroptila artesa</i> Mathis and Bowles, 1990	A microcaddisfly	G2G3	SU		
<i>Hydroptila dentata</i> Ross, 1938	A microcaddisfly	G3G4	SU		
<i>Hydroptila eramosa</i> Harper, 1973	A microcaddisfly	G1G3	SU		
<i>Hydroptila fiskei</i> Blickle, 1963	A microcaddisfly	G4	SU		
<i>Hydroptila lonchera</i> Blickle and Morse, 1954	A microcaddisfly	G2G3	SU		
<i>Hydroptila maculata</i> Banks, 1949	A Caddisfly	G3G4	SU		
<i>Hydroptila spinata</i> Blickle and W.J. Morse, 1954	A Caddisfly	G4	SU		
<i>Hydroptila talladega</i> Harris, 1985	A microcaddisfly	G4	SU		
<i>Hydroptila tortosa</i> Ross, 1938	A Caddisfly	G4G5	SU		
<i>Hydroptila virgata</i> Ross, 1938	A microcaddisfly	G5	SU		
<i>Ithytrichia clavata</i> Morton, 1905	A microcaddisfly	G5	SU		
<i>Mayatrichia ayama</i> Mosely, 1937	A microcaddisfly	G5	SU		
<i>Neotrichia vibrans</i> Ross, 1938	A microcaddisfly	G5	SU		
<i>Ochrotrichia arva</i> (Ross, 1941)	A microcaddisfly	G4G5	SU		
<i>Ochrotrichia tarsalis</i> (Hagen, 1861)	A microcaddisfly	G5	SU		
<i>Ochrotrichia wojcickyi</i> Blickle, 1963	A microcaddisfly	G4G5	SU		
<i>Orthotrichia cristata</i> Morton, 1905	A microcaddisfly	G5	SU		
<i>Oxyethira dualis</i> Morton, 1905	A Caddisfly	G5	SU		
<i>Oxyethira janella</i> Denning, 1948	Little-entrance Oxyethiran Microcaddisfly	G5	SU		
<i>Oxyethira michiganensis</i> Mosely, 1934	A Caddisfly	G5	SU		
<i>Oxyethira rivicola</i> Blickle and Morse, 1954	A microcaddisfly	G5	SU		
<i>Paranyctiophylax denningi</i> (Morse, 1972)	A polycentropodid caddisfly	G4G5	SU		
<i>Paranyctiophylax serratus</i> (Lago and Harris, 1985)	A polycentropodid caddisfly	G4	SU		
<i>Polycentropus interruptus</i> (Banks, 1914)	A polycentropodid caddisfly	G5	SU		
<i>Polycentropus nascotius</i> Ross, 1941	A polycentropodid caddisfly	G5	SU		
<i>Polycentropus pentus</i> Ross, 1941	A polycentropodid caddisfly	G5	SU		
<i>Stactobiella martynovi</i> Blickle and Denning, 1977	A microcaddisfly	G4	SU		
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<b>Butterflies</b>					
<i>Celastrina lucia</i> (W. Kirby, 1837)	Northern Spring Azure	G5	SU		

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
= <i>Celastrina ladon lucia</i>					
<i>Danaus plexippus plexippus</i> (Linnaeus, 1758)	Monarch	G4T3	SU		C
<i>Papilio appalachiensis</i> (Pavulaan and Wright, 2002)	Appalachian tiger swallowtail	G4	SU		
<i>Satyrrium caryaevorus</i> (McDunnough, 1942)	Hickory Hairstreak	G4	SU		
<b>Skippers</b>					
<i>Autochthon cellus</i> (Boisduval and Le Conte, [1837])	Golden-banded Skipper	G5	SU		
<i>Thorybes confusus</i> E. Bell, 1923	Confused Cloudywing	G4	SU		
<b>Moths</b>					
<i>Acronicta dactylina</i> Grote, 1874	Fingered dagger moth	G5	SU		
<i>Acronicta subochrea</i> Grote, 1874	Puzzling dagger moth	G4?	SU		
<i>Bellura vulnifica</i> (Grote, 1873)	A wetland borer moth	GNR	SU		
= <i>Bellura melanopyga</i>					
<i>Cucullia alfarata</i> Strecker, 1898	A noctuid moth	G4	SU		
<i>Eupithecia peckorum</i> Heitzman and Enns, 1977	Peck's Eupithecia moth	G4	SU		
<i>Glena cognataria</i> (Hübner, 1831)	Blueberry gray	G4	SU		
<i>Hydriomena bistrifolata</i> (Zeller, 1872)	A Geometrid moth	GNR	SU		
<i>Hydriomena divisaria</i> (Walker, 1860)	Black-dashed hydriomena moth	G5	SU		
<i>Idia majoralis</i> (Smith, 1895)	Major idia moth	GNR	SU		
<i>Lacinipolia lustralis</i> (Grote, 1875)	a noctuid moth	GNR	SU		
<i>Leucania commoides</i> Guenée, 1852	A noctuid moth	G5	SU		
<i>Lithophane innominata</i> (Smith, 1893)	Nameless pinion moth	G5	SU		
<i>Orthofidonia exornata</i> (Walker, 1862)	A geometrid moth	GNR	SU		
<i>Papaipema nelita</i> (Strecker, 1898)	Coneflower borer moth	G5	SU		
<i>Psaphida grandis</i> Smith, 1898	Gray sallow	G4	SU		
= <i>Eutolype grandis</i>					
<i>Psaphida thaxterianus</i> (Grote, 1874)	A Noctuid Moth	G4	SU		
<i>Schinia bina</i> (Guenée, 1852)	Bina flower moth	G4	SU		
<i>Sympistis badistriga</i> (Grote, 1872)	Brown-lined Sallow moth	G4	SU		
= <i>Homohadena badistriga</i>					
<i>Tarache delecta</i> (Walker, [1858])	A Noctuid Moth	GU	SU		
= <i>Acontia delecta</i>					
<i>Virbia ferruginosa</i> (Walker, 1854)	Rusty tiger moth	G5	SU		
= <i>Holomelina ferruginosa</i>					

## Animal Review List

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Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<i>Virbia immaculata</i> (Reakirt, 1864) = <i>Holomelina immaculata</i>	Immaculate tiger moth	G4	SU		
<i>Zale</i> sp. 2 nr. <i>squamularis</i> Schweitzer (unpublished)	A zale moth	G4Q	SU		
<i>Zale</i> sp. 3 nr. <i>buchholzi</i>	Maritime Zale Moth	G3G4	SU		
<i>Zanclognatha theralis</i> (Walker, 1859) = <i>Zanclognatha gypsalis</i>	A Noctuid Moth	G4	SU		
<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					
<i>Bombus citrinus</i> (Smith, 1854)	Lemon cuckoo bumble bee	G4	SU		
<i>Bombus pensylvanicus</i> (De Geer, 1773)	American bumble bee	G3G4	SU		
<i>Bombus sandersoni</i> Franklin, 1913	Sanderson bumble bee	G5	SU		
<i>Polyergus lucidus</i> Mayr, 1870	Shining Amazon ant	GNR	SU		
<i>Temnothorax americanus</i> (Emery, 1895)	American partially-jawed ant	GNR	SU		
<b>ORTHOPTERA (Grasshoppers, Katydids, Crickets &amp; Relatives)</b>					
<i>Melanoplus celatus</i> Hebard, 1937	A spur-throat grasshopper	GU	SU		
<i>Melanoplus devius</i> Morse, 1904	A spur-throat grasshopper	GU	SU		
<i>Melanoplus impudicus</i> Scudder, 1897	Immodest Spur-throat Grasshopper	G4G5	SU		
<i>Melanoplus pachycercus</i> Hebard, 1935	A spur-throat grasshopper	G2G3	SU		

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<b>VERTEBRATES</b>					
<b>FISH</b>					
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	G3	SHB,S1N	LE (1967-03)	LE (not avail.)
<i>Acipenser oxyrinchus</i> = <i>Acipenser oxyrhynchus</i>	Atlantic Sturgeon	G3	S2	LE (2012-02)	LE (1992-01)
<i>Ammocrypta clara</i> = <i>Etheostoma clarum</i>	Western Sand Darter	G3	S1		LT (1992-01)
<i>Chrosomus cumberlandensis</i> = <i>Phoxinus cumberlandensis</i>	Blackside Dace	G2	S1	LT (1987-06)	LT (not avail.)
<i>Chrosomus tennesseensis</i> = <i>Phoxinus tennesseensis</i>	Tennessee Dace	G3	S1		LE (1992-01)
<i>Cyprinella whipplei</i> = <i>Notropis whipplei</i>	Steelcolor Shiner	G5	S1		LT (1992-01)
<i>Enneacanthus chaetodon</i>	Blackbanded Sunfish	G3G4	S1		LE (1987-01)
<i>Erimonax monachus</i> = <i>Cyprinella monacha</i> = <i>Hybopsis monacha</i>	Turquoise Shiner	G2	S1	LT (1977-09)	LT (not avail.)
<i>Erimystax cahni</i> = <i>Hybopsis cahni</i>	Slender Chub	G1	S1	LT (1977-09)	LT (not avail.)
<i>Etheostoma acuticeps</i>	Sharphead Darter	G3	S1		LE (1987-01)
<i>Etheostoma chlorobranchium</i>	Greenfin Darter	G4	S1		LT (not avail.)
<i>Etheostoma collis</i>	Carolina Darter	G3	S2		LT (1992-01)
<i>Etheostoma denoncourti</i> = <i>Etheostoma tippecanoe</i> (in part)	Golden Darter	G2	S1		LT (2007-07)
<i>Etheostoma osburni</i>	Candy Darter	G3	S1	LE (2018-12)	LE (2019-07)
<i>Etheostoma percnurum</i>	Duskytail Darter	G1	S1	LE (1993-04)	LE (not avail.)
<i>Etheostoma variatum</i>	Variagate Darter	G5	S1		LE (1992-01)
<i>Notropis alborus</i>	Whitemouth Shiner	G4	S1		LT (1992-01)
<i>Notropis atherinoides</i>	Emerald Shiner	G5	S1S2		LT (1992-01)
<i>Noturus flavipinnis</i>	Yellowfin Madtom	G1	S1	LT (1977-09)	LT (not avail.)
<i>Noturus gilberti</i>	Orangefin Madtom	G2	S2		LT (1992-01)
<i>Percina rex</i>	Roanoke Logperch	G1G2	S1S2	LE (1989-09)	LE (not avail.)
<i>Percina williamsi</i> = <i>Percina macrocephala</i> (in part)	Sickle darter	G2	S1S2	LT (2022-11)	LT (not avail.)
<i>Polyodon spathula</i>	Paddlefish	G4	S1		LT (1991-01)
<b>AMPHIBIANS</b>					
<i>Ambystoma mabeei</i>	Mabee's Salamander	G4	S1S2		LT (1987-01)
<i>Ambystoma tigrinum</i>	Tiger Salamander	G5	S1		LE (1987-10)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<i>Plethodon shenandoah</i>	Shenandoah Salamander	G1	S1	LE (1989-08)	LE (1987-10)
<b>REPTILES</b>					
<i>Caretta caretta</i>	Loggerhead (Sea Turtle)	G3	S1B,S1N	LT (1978-07)	LT (1987-01)
<i>Chelonia mydas</i>	Green Sea Turtle	G3	SNA	LT (1978-07)	LT (1987-01)
<i>Crotalus horridus</i> [Coastal Plain population]	Canebrake Rattlesnake	G4T4Q	S1		LE (1992-01)
<i>Deirochelys reticularia</i>	Chicken Turtle	G5	S1		LE (1987-10)
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle	G2	SNA	LE (1970-06)	LE (1987-01)
<i>Eretmochelys imbricata</i>	Hawksbill Turtle	G3	SNA	LE (1970-06)	LE (not avail.)
<i>Glyptemys insculpta</i> = <i>Clemmys insculpta</i>	Wood Turtle	G2G3	S2		LT (not avail.)
<i>Glyptemys muhlenbergii</i> = <i>Clemmys muhlenbergii</i>	Bog Turtle	G2G3	S2	LT/ (1997-11)	LE (1987-01)
Treated as threatened due to similarity of appearance.					
<i>Lepidochelys kempii</i>	Kemp's Ridley (Sea Turtle)	G1	S1N	LE (1970-12)	LE (1987-01)
<i>Ophisaurus ventralis</i>	Eastern Glass Lizard	G5	S1		LT (1992-01)
<b>BIRDS</b>					
<i>Calidris canutus rufa</i>	Red Knot	G4T2	S2N	LT (2015-01)	LT (2015-01)
<i>Centronyx henslowii</i> = <i>Ammodramus henslowii</i>	Henslow's Sparrow	G4	S1B		LT (not avail.)
<i>Charadrius melodus</i>	Piping Plover	G3	S2B,S1N	LT (1985-12)	LT (1985-01)
<i>Charadrius wilsonia</i>	Wilson's Plover	G5	S1B		LE (1987-01)
<i>Dryobates borealis</i> = <i>Picoides borealis</i>	Red-cockaded Woodpecker	G3	S1	LE (1970-10)	LE (1973-01)
<i>Falco peregrinus</i>	Peregrine Falcon	G4	S1B,S2N		LT (not avail.)
<i>Gelochelidon nilotica</i> = <i>Sterna nilotica</i>	Gull-billed Tern	G5	S2B		LT (1992-01)
<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S1B,S2N		LT (1992-01)
<i>Laterallus jamaicensis</i>	Black Rail	G3	S1B,S1N	LT (2020-11)	LE (2013-01)
<i>Peucaea aestivalis</i> = <i>Aimophila aestivalis</i>	Bachman's Sparrow	G3	SHB		LT (1992-01)
<i>Setophaga kirtlandii</i> = <i>Dendroica setophaga</i>	Kirtland's Warbler	G3	SNA		LE (not avail.)
<i>Sterna dougallii</i>	Roseate Tern	G4	SHB	LE (1987-11)	LE (1992-01)
<i>Thryomanes bewickii altus</i>	Appalachian Bewick's Wren	G5T2Q	SHB		LE (1987-01)
<b>MAMMALS</b>					
<i>Balaenoptera borealis</i>	Sei Whale	G5?	SNR	LE (1970-06)	LE (not avail.)
<i>Balaenoptera musculus</i>	Blue Whale	G3G4	SNA	LE (1970-06)	LE (not avail.)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<i>Balaenoptera physalus</i>	Fin Whale	G3G4	SNA	LE (1970-06)	LE (not avail.)
<i>Corynorhinus rafinesquii macrotis</i> = <i>Plecotus rafinesquii macrotis</i>	Eastern Big-eared Bat	G3G4T3	S2		LE (1987-01)
<i>Corynorhinus townsendii virginianus</i> = <i>Plecotus townsendii virginianus</i>	Virginia Big-eared Bat	G4T3	S1	LE (1979-11)	LE (1987-01)
<i>Eubalaena glacialis</i>	Northern Right Whale	G1	SNA	LE (1970-06)	LE (not avail.)
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel	G5T2	S1	LE (1985-07)	LE (1989-01)
<i>Megaptera novaeangliae</i>	Humpback Whale	G4	S1N	LE (1970-06)	LE (not avail.)
<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole	G5T3	S1		LE (1992-01)
<i>Myotis grisescens</i>	Gray Bat	G3G4	S1	LE (1976-04)	LE (1987-01)
<i>Myotis lucifugus</i>	Little Brown Myotis	G3G4	S1S3		LE (2016-04)
<i>Myotis septentrionalis</i>	Northern long-eared Myotis	G2G3	S1S3	LE (2023-01)	LT (2016-04)
New Federally Endangered Status is effective as of Mar. 31, 2023					
<i>Myotis sodalis</i>	Indiana Bat	G2	S1	LE (1967-03)	LE (1987-01)
<i>Perimyotis subflavus</i> = <i>Pipistrellus subflavus</i>	Tricolored bat (=Eastern pipistrelle)	G3G4	S1S3	PE (2022-09)	LE (2016-04)
<i>Physeter macrocephalus</i> = <i>Physeter catodon</i>	Sperm Whale	G3G4	SNA	LE (1970-06)	LE (not avail.)
<i>Sorex palustris punctulatus</i>	Southern Water Shrew	G5T3	S1S2		LE (1992-01)
<i>Trichechus manatus</i>	Florida Manatee	G2G3	SNA	LT (2017-04)	LE (not avail.)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<b>INVERTEBRATES</b>					
<b>GASTROPODA (Snails)</b>					
<i>Elimia arachnoidea</i> = <i>Goniobasis arachnoidea</i>	Spider Elimia	G2G3	S2		LE (2006-07)
<i>Fontigens bottimeri</i>	Appalachian Springsnail	G2G3	S2S3		LE (2006-07)
<i>Fontigens morrisoni</i>	Virginia Springsnail	G2	S2		LE (2006-07)
<i>Helicodiscus diadema</i>	Shaggy Coil	G1	S1		LE (not avail.)
<i>Helicodiscus lirellus</i>	Rubble Coil	G1	S1		LE (not avail.)
<i>Holsingeria unthinksensis</i>	Thankless ghostsnail	G2	S2		LE (1992-01)
<i>Io fluvialis</i>	Spiny Riversnail	G1G2	S2		LT (1987-01)
<i>Paravitrea hera</i>	Spirit Supercoil	G1	S1		LE (not avail.)
<i>Paravitrea septadens</i>	Brown Supercoil	G1	S1		LT (not avail.)
<i>Polygyriscus virginianus</i>	Virginia Fringed Mountain Snail(=Virginia coil)	G1	S1	LE (1978-07)	LE (not avail.)
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Alasmidonta heterodon</i>	Dwarf Wedgemussel	G1G2	S1	LE (1990-03)	LE (1987-01)
<i>Alasmidonta varicosa</i>	Brook Floater	G3	S1		LE (1992-01)
<i>Alasmidonta viridis</i> = <i>Alasmidonta minor</i>	Slippershell Mussel	G4G5	S1		LE (1992-01)
<i>Cyclonaias pustulosa</i> = <i>Quadrula pustulosa</i>	Pimpleback	G5	S2		LT (1987-01)
<i>Cyprogenia stegaria</i> = <i>Cyprogenia irrorata</i>	Fanshell	G1	S1	LE (1990-06)	LE (1987-01)
<i>Dromus dromas</i>	Dromedary Pearlymussel	G1	S1	LE (1976-06)	LE (1987-01)
<i>Elliptio crassidens</i>	Elephant Ear	G5	S1		LE (1992-01)
<i>Elliptio lanceolata</i>	Yellow Lance	G2	S2	LT (2018-05)	LT (2019-07)
<i>Epioblasma aureola</i>	Golden Riffleshell	G1	S1	LE (1977-08)	LE (1987-01)
Virginia populations are listed as federally and state endangered under the name Tan Riffleshell ( <i>Epioblasma florentina</i> walkeri)					
<i>Epioblasma brevidens</i>	Cumberland Combshell	G1	S1	LE (1997-01)	LE (1987-10)
<i>Epioblasma capsaeformis</i>	Oyster Mussel	G1	S1	LE (1997-01)	LE (1978-10)
<i>Epioblasma triquetra</i>	Snuffbox	G2G3	S1	LE (2012-03)	LE (1987-10)
<i>Fusconaia cor</i> = <i>Fusconaia edgariana</i>	Shiny Pigtoe	G1	S1	LE (1976-06)	LE (1987-01)
<i>Fusconaia cuneolus</i>	Fine-rayed Pigtoe	G1	S1	LE (1976-06)	LE (1987-01)
<i>Fusconaia masoni</i> = <i>Lexingtonia subplana</i>	Atlantic Pigtoe	G1	S2	LT (2021-12)	LT (1987-01)
<i>Fusconaia subrotunda</i>	Longsolid	G3	S3	PT (2023-04)	
<i>Hemistena lata</i>	Cracking Pearlymussel	G1	S1	LE (1989-09)	LE (1987-01)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<i>Lastena lata</i>					
<i>Lasmigona holstonia</i>	Tennessee Heelsplitter	G3	S1		LE (1992-01)
<i>Lasmigona subviridis</i>	Green Floater	G2G3	S2	PT (2023-07)	LT (2006-07)
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	G1	S1	LE (1976-06)	LE (1987-01)
<i>Conradilla caelata</i>					
<i>Ligumia recta</i>	Black Sandshell	G4G5	S2		LT (1987-01)
<i>Margaritifera monodonta</i>	Spectaclecase	G2	S1	LE (2012-04)	LE (1992-01)
<i>Cumberlandia monodonta</i>					
<i>Medionidus conradicus</i>	Cumberland Moccasin	G3	S3S4	PE (2023-08)	
<i>Parvaspina collina</i>	James Spiny mussel	G1	S1	LE (1988-08)	LE (1987-10)
<i>Pleurobema collina</i>					
<i>Pegias fabula</i>	Little-winged Pearlymussel	G1	S1	LE (1988-11)	LE (1987-10)
<i>Plethobasus cyphyus</i>	Sheepnose	G2G3	S1	LE (2012-04)	LE (2013-02)
<i>Pleurobema cordatum</i>	Ohio Pigtoe	G4	S1		LE (1992-01)
<i>Pleurobema oviforme</i>	Tennessee Clubshell	G2G3	S2S3	PE (2023-08)	
<i>Pleurobema plenum</i>	Rough Pigtoe	G1	SH	LE (1987-04)	LE (1987-01)
<i>Pleurobema rubrum</i>	Pyramid Pigtoe	G2	SH	PT ( )	LE (1992-01)
<i>Pleurobema pyramidatum</i>					
<i>Pleuronaia barnesiana</i>	Tennessee Pigtoe	G2G3	S2	PE (2023-08)	
<i>Fusconaia barnesiana</i>					
<i>Pleuronaia dolabelloides</i>	Slabside Pearlymussel	G2	S2	LE (2013-10)	LE (2013-10)
<i>Lexingtonia dolabelloides</i>					
<i>Potamilus fragilis</i>	Fragile Papershell	G5	S1		LT (not avail.)
<i>Leptodea fragilis</i>					
<i>Ptychobranthus subtentus</i>	Fluted Kidneyshell	G2?	S2	LE (2013-10)	LE (2013-10)
<i>Theliderma cylindrica</i>	Rabbitsfoot	G3	S2	LE (1997-01)	LE (1997-01)
<i>Quadrula cylindrica</i>					
<i>Theliderma intermedia</i>	Cumberland Monkeyface	G1	S1	LE (1976-06)	LE (1987-01)
<i>Quadrula intermedia</i>					
<i>Theliderma sparsa</i>	Appalachian Monkeyface	G1	S1	LE (1976-06)	LE (1987-01)
<i>Quadrula sparsa</i>					
<i>Toxolasma lividum</i>	Purple Liliput	G3	SH		LE (1992-01)
<i>Carunculina glans</i>					
<i>Carunculina lividus</i>					
<i>Tritogonia verrucosa</i>	Pistolgrip	G4G5	S2		LT (2007-07)
<i>Quadrula verrucosa</i>					
<i>Truncilla truncata</i>	Deertoe	G5	S1		LE (1992-01)
<i>Venustaconcha trabalis</i>	Tennessee Bean	G1	S1	LE (1997-01)	LE (1987-01)



Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
= <i>Villosa perpurpurea</i>					
= <i>Villosa trabalis</i>					
<b>ARACHNIDA (Spiders, Pseudoscorpions &amp; Relatives)</b>					
<b>Spiders</b>					
<i>Microhexura montivaga</i>	Spruce-fir moss spider	G2	S1	LE (1995-02)	
<b>DIPLOPODA (Millipedes)</b>					
<i>Apheloria whiteheadi</i>	Laurel Creek Xystodesmid Millipede	G1	S1	LT (not avail.)	
= <i>Sigmoria whiteheadi</i>					
<i>Pseudotremia cavernarum</i>	Ellett Valley Pseudotremia Millipede	G2G3	S1	LT (not avail.)	
<b>CRUSTACEA (Amphipods, Isopods, Decapods &amp; Branchiopods)</b>					
<b>Amphipods</b>					
<i>Stygobromus stegerorum</i>	Madison Cave Amphipod	G1	S1	LT (not avail.)	
<b>Isopods</b>					
<i>Antrolana lira</i>	Madison Cave Isopod	G2G4	S2	LT (1982-10)	LT (not avail.)
<i>Lirceus usdagalun</i>	Lee County Cave Isopod	G1	S1	LE (1992-11)	LE (not avail.)
<b>Decapods</b>					
<i>Cambarus callainus</i>	Big Sandy Crayfish	G2	S1S2	LT (2016-04)	LT (2016-10)
= <i>Cambarus veteranus</i> (in part)					
<b>INSECTS</b>					
<b>HEMIPTERA (True Bugs, Cicadas, Leafhoppers &amp; Relatives)</b>					
<i>Puto kosztarabi</i>	Buffalo Mountain Mealybug	G1	S1	LE (2004-02)	
<i>Sigara depressa</i>	Virginia Piedmont Water Boatman	G1G2	S1S2	LE (2004-02)	
<b>COLEOPTERA (Beetles)</b>					
<i>Cicindela dorsalis dorsalis</i>	Northeastern Beach Tiger Beetle	G3T2	S2	LT (1990-08)	LT (2004-02)
= <i>Habroscelimorpha dorsalis dorsalis</i>					
<i>Nicrophorus americanus</i>	American Burying Beetle	G3	SH	LT (2020-10)	
<i>Pseudanophthalmus holsingeri</i>	Holsinger's Cave Beetle	G1	S1	LE (2004-02)	
<i>Pseudanophthalmus parvicollis</i>	Hupps Hill Cave Beetle	G1	S1	LE (2020-08)	
<i>Pseudanophthalmus thomasi</i>	Thomas' Cave Beetle	G1G2	S1	LE (2013-12)	
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<b>Butterflies</b>					
<i>Danaus plexippus</i>	Monarch	G4	SU	C (2020-12)	
<i>Neonympha mitchellii</i>	Mitchell's satyr	G2	S1	LE (1992-05)	LE (2004-02)
<b>Skippers</b>					
<i>Pyrgus centaureae wyandot</i>	Appalachian Grizzled Skipper	G5T1T2	S1	LT (2004-02)	
= <i>Pyrgus wyandot</i>					
<b>HYMENOPTERA (Bees, Wasps, Ants &amp; Relatives)</b>					

**APPENDIX 1. Federal and State Endangered and Threatened  
Animals of Virginia  
(exclusive of extirpated species, see Appendix 2)**



Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<i>Bombus affinis</i>	Rusty-patched Bumblebee	G2	S1	LE (2017-03)	LE (2020-08)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<b>VERTEBRATES</b>					
<b>FISH</b>					
<i>Moxostoma lacerum</i> = <i>Lagochila lacera</i>	Harelip Sucker	GX	SX		
<i>Percopsis omiscomaycus</i>	Trout-perch	G5	SX		
<b>BIRDS</b>					
<i>Conuropsis carolinensis</i>	Carolina Parakeet	GX	SX		
<i>Ectopistes migratorius</i>	Passenger Pigeon	GX	SX		
<i>Vermivora bachmanii</i>	Bachman's Warbler	GX	SX		LE (not avail.)
<b>MAMMALS</b>					
<i>Bos bison</i> = <i>Bison bison</i>	Bison	G4	SX		
<i>Canis lupus</i> = <i>Canis lycaon</i>	Gray (=eastern timber) Wolf	G5	SX		LE (not avail.)
<i>Canis rufus</i>	Red Wolf	G1	SX	LE (1967-03)	
<i>Cervus elaphus</i> = <i>Cervus canadensis</i>	Wapiti or Elk	G5	SX		
The last record of a native elk in Virginia was from 1855. Small numbers of reintroduced elk from eastern Kentucky have moved into far southwestern Virginia in recent years and are currently considered a game species by the Virginia Department of Wildlife Resources, which has initiated a reintroduction program in that portion of the state					
<i>Lepus americanus</i>	Snowshoe Hare	G5	SX		LE (1992-01)
<i>Puma concolor cougar</i> = <i>Felis concolor cougar</i>	Eastern Cougar (= mountain lion, puma)	G5TXQ	SX		LE (1987-01)

Scientific Name	Common Name	Global Rank	State Rank	Legal Status (Date listed)	
				Federal	State
<b>INVERTEBRATES</b>					
<b>BIVALVIA (Mussels &amp; Clams)</b>					
<i>Epioblasma arcaeformis</i>	Sugarspoon	GX	SX		
<i>Epioblasma florentina</i>	Yellow-blossom Pearlymussel	GX	SX		
<i>Epioblasma gubernaculum</i>	Green Blossom	GX	SX		LE (1987-01)
<i>Epioblasma haysiana</i>	Acornshell	GX	SX		
<i>Epioblasma lenior</i>	Narrow Catspaw	GX	SX		
<i>Epioblasma lewisii</i>	Forkshell	GX	SX		
<i>Epioblasma stewardsonii</i>	Cumberland Leafshell	GX	SX		
<i>Lampsilis abrupta</i> = <i>Lampsilis orbiculata</i>	Pink Mucket	G1G2	SX	LE (1976-06)	LE (1987-01)
<i>Villosa fabalis</i>	Rayed Bean	G2	SX	LE (2012-03)	LE (not avail.)
<b>INSECTS</b>					
<b>LEPIDOPTERA (Butterflies, Skippers &amp; Moths)</b>					
<b>Butterflies</b>					
<i>Phyciodes batesii batesii</i>	Tawny Crescent	G3G4T1	SX		
<b>Skippers</b>					
<i>Hesperia attalus slossonae</i>	Dotted Skipper	G3G4T3	SX		



Department of Conservation & Recreation  
CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

## Rare Species Sighting Form

Please print this form and mail it to: (or [click here](#) for a digital version)

Virginia Department of Conservation and Recreation  
Division of Natural Heritage  
600 East Main Street; 24th Floor  
Richmond, VA 23219  
(804) 786-7951

**Species Name:** \_\_\_\_\_

**Date Observed:** \_\_\_\_\_

**County:** \_\_\_\_\_

**USGS Quadrangle Name (if known):** \_\_\_\_\_

**Location:** (Provide a detailed description. Include a topographic map showing the location or sketch a map on the back of this form): \_\_\_\_\_

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**Habitat Description:** (Include associated species, elevation, natural features, natural community type, etc.) \_\_\_\_\_

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**Population Data:** (Include data such as number of individuals, age, size, spatial distribution, evidence of reproduction) \_\_\_\_\_

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**Owner:** \_\_\_\_\_

**Threats or evidence of Disturbance:** \_\_\_\_\_

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**Protection Information:** (Under present conditions, will this population maintain itself over a long period of time? Why or why not?) \_\_\_\_\_

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**Reported By:** \_\_\_\_\_

**Address:** \_\_\_\_\_

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**Phone:** \_\_\_\_\_

**E-Mail:** \_\_\_\_\_

**Date:** \_\_\_\_\_