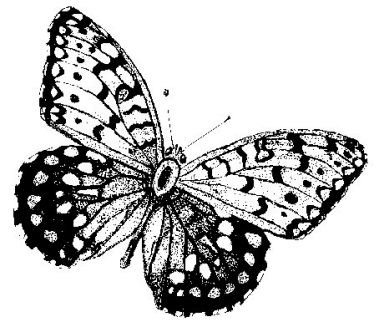

COMMONWEALTH of VIRGINIA

Natural Heritage Resources of Virginia: Rare Animals

Compiled by:
Steven M. Roble, Zoologist



Virginia Department of Conservation and Recreation
Division of Natural Heritage, Richmond, Virginia
Natural Heritage Technical Report 10-12. June 2010



Department of Conservation & Recreation

CONSERVING VIRGINIA'S NATURAL AND RECREATIONAL RESOURCES

**NATURAL HERITAGE RESOURCES OF VIRGINIA:
RARE ANIMAL SPECIES**

JUNE 2010

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**Red-cockaded Woodpecker
Indiana Myotis
Regal Fritillary**

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**NATURAL HERITAGE RESOURCES OF VIRGINIA:
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JUNE 2010**

INTRODUCTION

The Virginia Department of Conservation and Recreation's Division of Natural Heritage (DCR-DNH) was established to protect Virginia's biological diversity. DCR-DNH is the state's first comprehensive program for conservation of our natural heritage, and includes an intensive statewide biological inventory, field surveys, electronic and manual database management, environmental review capabilities, and natural area protection and stewardship. Through its actions the Division identifies Natural Heritage Resources that are in need of conservation attention while creating an efficient means of evaluating the impacts of balanced economic growth. Natural Heritage Resources 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 achieve this protection, DCR-DNH maintains lists of the most significant elements of our natural diversity. These lists focus the Division's inventory on the Natural Heritage Resources most likely to be lost without conservation action in the near future. Most importantly, these lists are useful not only for DCR-DNH, but can be used by other agencies, organizations, and individuals to assist in the determination of actions in protection and development decision-making. In formulating these lists, the Division uses information from previous studies, museum records, observations and opinions of experts, DCR-DNH staff scientists, and field inventories.

The Virginia Rare Animal List contains information on the legal and biological status of Virginia's rarest known native animals, including vertebrates, insects, and selected other invertebrate groups. This list includes those species that are believed to be sufficiently rare or threatened to merit an inventory of their status and locations. 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 on the main taxonomic lists.

Natural Heritage Resource lists are necessarily dynamic, with updates occurring as new 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 the Commonwealth is in jeopardy. Animals are deleted 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.

The watch lists that are included in this report contain information on the biological status of animal species that are uncommon or of uncertain status in Virginia. More information is needed on most of these species, which may or may not be of high conservation concern at this time. Some species included on the watch lists were formerly on the Rare Animal List but have been determined to be more common than previously believed. Other species on the watch lists are declining and may warrant placement on the Rare Animal List in the future if their populations continue to decline.

All animals that are officially 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 Game and Inland Fisheries 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 Office of Plant Protection within the Virginia Department of Agriculture and Consumer Services has regulatory 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.

The Virginia Department of Conservation and Recreation, the U.S. Fish and Wildlife Service, the Virginia Department of Game and Inland Fisheries, 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.

LIST FORMAT

The Rare Animal List is sorted by broad taxonomic groups and then ordered alphabetically by scientific name within each group. The list format 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 Appendices 1-5. 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. The primary sources of common names applied to species in selected groups included in this list can be found on page 5. Many other common names that appear in the list, especially those of invertebrates, are not widely used or universally accepted.

Column 3. Global rank:

Global ranks are assigned by a consensus of the network of natural heritage programs, scientific experts, and NatureServe (a non-profit conservation organization) to designate the rangewide rarity of a species or subspecies. This system was originally developed by The Nature Conservancy and is widely used by other agencies (e.g., U.S. Fish and Wildlife Service, U.S. Forest Service) and organizations as the best available scientific and objective assessment of an animal's rarity and the level of threat to its existence. The ranks are assigned after considering a suite of factors including the number of occurrences (populations), number of individuals, and severity of threats to the species and its habitats. Global ranks found in the Rare Animal List are explained below:

- G1 Extremely rare and critically imperiled with 5 or fewer occurrences or very few remaining individuals; or because of some factor(s) making it especially vulnerable to extinction.
- G2 Very rare and imperiled with 6 to 20 occurrences or few remaining individuals; or because of some factor(s) making it vulnerable to extinction.
- G3 Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range; or vulnerable to extinction because of other factors. Usually fewer than 100 occurrences are documented.
- G4 Common and apparently secure globally, although it may be rare in parts of its range, especially at the periphery.
- G5 Very common and demonstrably secure globally, although it may be rare in parts of its range, especially at the periphery.
- GH Formerly part of the world's fauna with some expectation that it may be rediscovered; generally applies to species that have not been verified for an extended period (usually >15 years) and for which some inventory has been attempted recently.
- GX Believed to be extinct throughout its range with virtually no likelihood of rediscovery.

- GU Possibly rare, but status uncertain and more data needed.
- G? Unranked, or, if following a numerical ranking, rank uncertain (e.g., G3?).
- G_G_ The rank is uncertain, but considered to be within the indicated range (e.g., G2G4) of ranks (also, T_T_).
- G_Q Taxon has a questionable taxonomic assignment (e.g., G3Q) and may prove to be invalid upon further study.
- G_T_ Signifies the rank of a subspecies (e.g., G5T1 would apply to a subspecies if the species is demonstrably secure globally (G5) but the subspecies warrants a rank of T1, critically imperiled.)

Column 4. State rank:

State ranks are assigned in a manner similar to that described for global ranks, with values that generally range from S1-S5, 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 Extremely rare and critically imperiled with 5 or fewer occurrences or very few remaining individuals in Virginia; or because of some factor(s) making it especially vulnerable to extirpation in Virginia.
- S2 Very rare and imperiled with 6 to 20 occurrences or few remaining individuals in Virginia; or because of some factor(s) making it vulnerable to extirpation in Virginia.
- S3 Rare to uncommon in Virginia with between 20 and 100 occurrences; may have fewer occurrences if found to be common or abundant at some of these locations; may be somewhat vulnerable to extirpation in Virginia.
- S4 Common and apparently secure in Virginia, although it may be rare in parts of its range.
- SH Formerly part of Virginia's fauna with some expectation that it may be rediscovered; generally applies to species that have not been verified in the state for an extended period (usually >15 years) and for which some inventory has been attempted recently.
- SX Believed to be extirpated from Virginia with virtually no likelihood of rediscovery.
- SU Possibly rare, but status uncertain and more data needed.
- S_? Rank uncertain. For example the rank S2? denotes a species that may range from S1 to S3.
- S_S_ Rank is uncertain, but considered to be within the indicated range of ranks (e.g., S2S4).
- S_B Breeding status of an animal (primarily used for birds) in Virginia; these species typically inhabit Virginia only during the breeding season.
- S_B/S_N Breeding and nonbreeding status of an animal (primarily used for birds) in Virginia, when they differ.

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 taxon threatened with extinction throughout all or a significant portion of its range.
- LT Listed Threatened. A taxon likely to become endangered in the foreseeable future.
- 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).
- LT/PDL Listed as Threatened but proposed for delisting. The U.S. Fish and Wildlife Service has proposed that this species be removed from the 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 the Endangered Species Act.
- PE Proposed Endangered. A taxon proposed for listing as endangered.
- PT Proposed Threatened. A taxon proposed for listing as threatened.
- C Candidate. There is enough available information to propose the species for listing, but listing is “precluded by other pending proposals of higher priority”. (Formerly Candidate, Category 1)

Column 6. State status:

State status is determined by the Virginia Department of Game and Inland Fisheries (all animals except insects) and the Virginia Department of Agriculture and Consumer Services (insects only). An informal list of “Special Concern” species has also been developed by the Virginia Department of Game and Inland Fisheries.

- 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.
- SC Special Concern; animals that merit special concern according to the Virginia Department of Game and Inland Fisheries. This is not a legal category.

The following table summarizes the ranks and legal status of the rarest animals tracked by the Virginia Department of Conservation and Recreation, Division of Natural Heritage (pages 7-28 of this list).

| Rank ^a | Fish | Amphibians | Reptiles | Birds ^b | Mammals | Invertebrates |
|-------------------|------|------------|----------|--------------------|---------|---------------|
| GH | 0 | 0 | 0 | 0 | 1 | 5 |
| G1 | 7 | 1 | 1 | 0 | 1 | 171 |
| G2 | 9 | 3 | 0 | 1 | 3 | 116 |
| G3 | 16 | 4 | 3 | 4 | 7 | 158 |
| SX | 2 | 0 | 0 | 0 | 1 | 4 |
| SH | 2 | 0 | 0 | 5 | 0 | 56 |
| S1 | 31 | 5 | 9 | 37 | 10 | 354 |
| S2 | 37 | 14 | 7 | 26 | 4 | 324 |
| Totals | 72 | 19 | 16 | 68 | 15 | 738 |
| Legal Status | | | | | | |
| FE | 3 | 1 | 1 | 2 | 6 | 25 |
| FT | 4 | 0 | 2 | 1 | 0 | 2 |
| C | 1 | 0 | 0 | 0 | 0 | 5 |
| SE | 7 | 2 | 4 | 4 | 11 | 44 |
| ST | 13 | 2 | 3 | 8 | 1 | 16 |

^aRounded ranks (e.g., G1G2 is combined with G1, S2S3 with S2, etc.); also T ranks are treated as equivalent to G ranks for the purposes of this table.

^bBreeding ranks used for S ranks of birds in this table.

PRIMARY SOURCES OF COMMON NAMES

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). 2008. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in our Understanding. 6th Edition. Society for the Study of Amphibians and Reptiles, Herpetological Circular Number 37. 84 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.

Odonata

Paulson, D.R. and S.W. Dunkle. 1999 (updated 2009). A Checklist of North American Odonata. Slater Museum of Natural History, University of Puget Sound Occasional Paper 56. 85 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.

VA DEPARTMENT OF CONSERVATION & RECREATION
DIVISION OF NATURAL HERITAGE

VIRGINIA RARE ANIMAL LIST

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|-----------------------------------|-------------|------------|----------------|--------------|
| VERTEBRATES | | | | | |
| FISH | | | | | |
| <i>Acipenser brevirostrum</i> | Shortnose sturgeon | G3 | SHB/S1N | LE | LE |
| <i>Acipenser oxyrinchus</i> = <i>Acipenser oxyrhynchus</i> | Atlantic sturgeon | G3 | S2 | C | SC |
| <i>Ameiurus brunneus</i> | Snail bullhead | G4 | S2 | | |
| <i>Ammocrypta clara</i> = <i>Etheostoma clarum</i> | Western sand darter | G3 | S1 | | LT |
| <i>Aplodinotus grunniens</i> | Freshwater drum | G5 | S2 | | |
| <i>Cottus baileyi</i> | Black sculpin | G4Q | S2 | | |
| <i>Cottus cognatus</i> | 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> = <i>Hybopsis labrosa</i> | Thicklip chub | G4 | SH | | |
| <i>Cyprinella whipplei</i> = <i>Notropis whipplei</i> | Steelcolor shiner | G5 | S1 | | LT |
| <i>Enneacanthus chaetodon</i> | Blackbanded sunfish | G4 | S1 | | LE |
| <i>Erimonax monachus</i> = <i>Cyprinella monacha</i> , <i>Hybopsis monacha</i> | Spotfin chub (= turquoise shiner) | G2 | S1 | LT | LT |
| <i>Erimystax cahni</i> = <i>Hybopsis cahni</i> | Slender chub | G1 | S1 | LT | LT |
| <i>Erimyzon sucetta</i> | Lake chubsucker | G5 | S2 | | |
| <i>Etheostoma acuticeps</i> | Sharphead darter | G3 | S1 | | LE |
| <i>Etheostoma brevispinum</i> | Carolina fantail darter | G4 | S1 | | |
| <i>Etheostoma caeruleum</i> | Rainbow darter | G5 | S2 | | |
| <i>Etheostoma camurum</i> | Bluebreast darter | G4 | S2 | | SC |
| <i>Etheostoma chlorobranchium</i> | Greenfin darter | G4 | S1 | | LT |
| <i>Etheostoma cinereum</i> | Ashy darter | G2G3 | S1 | | |
| <i>Etheostoma collis</i> | Carolina darter | G3 | S2 | | LT |
| <i>Etheostoma denoncourti</i> = <i>Etheostoma tippecanoe</i> (in part) | Golden darter | G2 | S1 | | LT |
| <i>Etheostoma jessiae</i> = <i>Etheostoma stigmaeum jessiae</i> | Blueside darter | G4Q | S1 | | |
| <i>Etheostoma meadiae</i> = <i>Etheostoma stigmaeum meadiae</i> | Bluespar darter | G4 | S2 | | |
| <i>Etheostoma osburni</i> | Candy darter | G3 | S1 | | SC |
| <i>Etheostoma percunurum</i> | Duskytail darter | G1 | S1 | LE | LE |
| <i>Etheostoma swannanoa</i> | Swannanoa darter | G4 | S2 | | |
| <i>Etheostoma variatum</i> | Variagate darter | G5 | S1 | | LE |
| <i>Etheostoma vulneratum</i> | Wounded darter | G3 | S2S3 | | |
| <i>Fundulus lineolatus</i> | Lined topminnow | G5 | S2S3 | | |
| <i>Fundulus rathbuni</i> | Speckled killifish | G4 | S2 | | SC |
| <i>Hybopsis hypsinotus</i> = <i>Notropis hypsinotus</i> | Highback chub | G4 | S2 | | |
| <i>Ichthyomyzon bdellium</i> | Ohio lamprey | G3G4 | S2 | | |
| <i>Ichthyomyzon greeleyi</i> | Mountain brook lamprey | G3G4 | S2 | | |
| <i>Labidesthes sicculus</i> | Brook silverside | G5 | S2 | | SC |
| <i>Lythrurus lirus</i> = <i>Notropis lirus</i> | Mountain shiner | G4 | S2S3 | | |

VA DEPARTMENT OF CONSERVATION & RECREATION
DIVISION OF NATURAL HERITAGE

VIRGINIA RARE ANIMAL LIST

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---------------------------------|-------------------------|-------------|------------|----------------|--------------|
| FISH (continued) | | | | | |
| <i>Moxostoma carinatum</i> | River redhorse | G4 | S2S3 | | SC |
| <i>Notropis alborus</i> | Whitemouth shiner | G4 | S1 | | LT |
| <i>Notropis ariommus</i> | Popeye shiner | G3 | S2S3 | | SC |
| <i>Notropis atherinoides</i> | Emerald shiner | G5 | S1S2 | | LT |
| <i>Notropis bifrenatus</i> | Bridle shiner | G3 | S2 | | SC |
| <i>Notropis semperasper</i> | Roughhead shiner | G2G3 | S2S3 | | SC |
| <i>Notropis spectrunculus</i> | Mirror shiner | G4 | S2 | | SC |
| <i>Notropis stramineus</i> | Sand shiner | G5 | S2 | | |
| <i>Noturus eleutherus</i> | Mountain madtom | G4 | S2S3 | | |
| <i>Noturus flavipinnis</i> | Yellowfin madtom | G1 | S1 | LT | LT |
| <i>Noturus flavus</i> | Stonecat | G5 | S2 | | SC |
| <i>Noturus gilberti</i> | Orangefin madtom | G2 | S2 | | LT |
| <i>Noturus insignis</i> ssp. 1 | Spotted margined madtom | G5T1Q | S1 | | |
| <i>Percina aurantiaca</i> | Tangerine darter | G4 | S2S3 | | |
| <i>Percina burtoni</i> | Blotchside logperch | G2G3 | S1 | | SC |
| <i>Percina copelandi</i> | Channel darter | G4 | S2 | | SC |
| <i>Percina crassa</i> | Piedmont darter | G4 | S1 | | |
| <i>Percina evides</i> | Gilt darter | G4 | S2 | | |
| <i>Percina macrocephala</i> | Longhead darter | G3 | S1S2 | | LT |
| <i>Percina maculata</i> | Blackside darter | G5 | SX | | |
| <i>Percina rex</i> | Roanoke logperch | G1G2 | S1S2 | LE | LE |
| <i>Percina sciera</i> | Dusky darter | G5 | S1S2 | | |
| <i>Percopsis omiscomaycus</i> | Trout-perch | G5 | SX | | |
| <i>Phenacobius crassilabrum</i> | Fatlips minnow | G3G4 | S2 | | SC |
| <i>Phenacobius mirabilis</i> | Sucker-mouth minnow | G5 | S1S2 | | |
| <i>Phenacobius teretulus</i> | Kanawha minnow | G3G4 | S2S3 | | |
| <i>Phoxinus cumberlandensis</i> | Blackside dace | G2 | S1 | LT | |
| <i>Phoxinus tennesseensis</i> | Tennessee dace | G3 | S1 | | LE |
| <i>Phoxinus</i> sp. 1 | Clinch dace | G1 | S1 | | |
| <i>Pimephales vigilax</i> | Bullhead minnow | G5 | S1 | | |
| <i>Polyodon spathula</i> | Paddlefish | G4 | S1 | | LT |
| <i>Sander canadensis</i> | Sauger | G5 | S2S3 | | SC |
| = <i>Stizostedion canadense</i> | | | | | |
| <i>Scartomyzon</i> sp. 1 | Brassy jumprock | G4 | S1S2 | | |
| <i>Thoburnia hamiltoni</i> | Rustyside sucker | G3 | S2 | | SC |
| = <i>Moxostoma hamiltoni</i> | | | | | |

VA DEPARTMENT OF CONSERVATION & RECREATION
DIVISION OF NATURAL HERITAGE

VIRGINIA RARE ANIMAL LIST

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|--|---------------------------------|-------------|------------|----------------|--------------|
| AMPHIBIANS | | | | | |
| <i>Ambystoma mabeei</i> | Mabee's salamander | G4 | S1S2 | | LT |
| <i>Ambystoma talpoideum</i> | Mole salamander | G5 | S2 | | SC |
| <i>Ambystoma tigrinum</i> | Tiger salamander | G5 | S1 | | LE |
| <i>Bufo quercicus</i> = <i>Anaxyrus quercicus</i> | Oak toad | G5 | S2 | | SC |
| <i>Cryptobranchus alleganiensis</i> | Hellbender | G3G4 | S2S3 | | SC |
| <i>Desmognathus marmoratus</i> = <i>Leurognathus marmoratus</i> | Shovel-nosed salamander | G4 | S2 | | SC |
| <i>Desmognathus wrighti</i> | Pygmy salamander | G3G4 | S2 | | SC |
| <i>Eurycea wilderae</i> | Blue Ridge two-lined salamander | G5 | S2 | | |
| <i>Hyla gratiosa</i> | Barking treefrog | G5 | S1 | | LT |
| <i>Necturus maculosus</i> | Mudpuppy | G5 | S2 | | |
| <i>Necturus punctatus</i> | Dwarf waterdog | G4 | S2S3 | | |
| <i>Plethodon hubrichti</i> | Peaks of Otter salamander | G2 | S2 | | SC |
| <i>Plethodon punctatus</i> | Cow Knob salamander | G3 | S2 | | SC |
| <i>Plethodon shenandoah</i> | Shenandoah salamander | G1 | S1 | LE | LE |
| <i>Plethodon sherando</i> | Big Levels salamander | G2 | S2 | | |
| <i>Plethodon ventralis</i> | Southern zigzag salamander | G4 | S1 | | |
| <i>Plethodon virginia</i> | Shenandoah Mountain salamander | G2G3 | S2 | | |
| <i>Plethodon welleri</i> | Weller's salamander | G3 | S2 | | SC |
| <i>Siren intermedia</i> | Lesser siren | G5 | S2S3 | | |
| REPTILES | | | | | |
| <i>Apalone spinifera</i> = <i>Trionyx spiniferus</i> | Spiny softshell | G5 | S2 | | |
| <i>Caretta caretta</i> | Loggerhead (sea turtle) | G3 | S1B/S1N | LT/PE | LT |
| <i>Crotalus horridus</i> [Coastal Plain population] | Canebrake rattlesnake | G4 | S1 | | LE |
| <i>Deirochelys reticularia</i> | Chicken turtle | G5 | S1 | | LE |
| <i>Glyptemys insculpta</i> = <i>Clemmys insculpta</i> | Wood turtle | G4 | S2 | | LT |
| <i>Glyptemys muhlenbergii</i> = <i>Clemmys muhlenbergii</i> | Bog turtle | G3 | S2 | LT/SA | LE |
| <i>Lampropeltis nigra</i> = <i>Lampropeltis getula nigra</i> | Eastern black kingsnake | G5 | S2 | | |
| <i>Lepidochelys kempii</i> | Kemp's ridley (sea turtle) | G1 | S1N | LE | LE |
| <i>Ophisaurus ventralis</i> | Eastern glass lizard | G5 | S1 | | LT |
| <i>Plestiodon anthracinus</i> = <i>Eumeces anthracinus</i> | Coal skink | G5 | S2S3 | | |
| <i>Pituophis melanoleucus</i> | Pine snake | G4 | S1? | | |
| <i>Regina rigida</i> | Glossy crayfish snake | G5 | S1 | | |
| <i>Sternotherus minor</i> | Loggerhead musk turtle | G5 | S2 | | |
| <i>Tantilla coronata</i> | Southeastern crowned snake | G5 | S2S3 | | |
| <i>Trachemys scripta troostii</i> | Cumberland slider | G5T4 | S1 | | |
| <i>Virginia valeriae pulchra</i> | Mountain earthsnake | G5T3T4 | S1 | | SC |

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| BIRDS | | | | | |
| <i>Actitis macularius</i> | Spotted Sandpiper | G5 | S2B | | |
| <i>Aegolius acadicus</i> | Northern Saw-whet Owl | G5 | S1B/S2N | | SC |
| <i>Aimophila aestivalis</i> | Bachman's Sparrow | G3 | S1B | | LT |
| <i>Ammodramus caudacutus</i> | Saltmarsh Sharp-tailed Sparrow | G4 | S2B/S3N | | SC |
| <i>Ammodramus henslowii</i> | Henslow's Sparrow | G4 | S1B | | LT |
| <i>Anas discors</i> | Blue-winged Teal | G5 | S1B/S2N | | |
| <i>Anas strepera</i> | Gadwall | G5 | S2B/S4N | | |
| <i>Aquila chrysaetos</i> | Golden Eagle | G5 | SHB/S1N | | |
| <i>Ardea alba</i> = <i>Casmerodius albus</i> | Great Egret | G5 | S2S3B/S3N | | SC |
| <i>Asio flammeus</i> | Short-eared Owl | G5 | S1B/S2N | | |
| <i>Asio otus</i> | Long-eared Owl | G5 | S1 | | SC |
| <i>Bartramia longicauda</i> | Upland Sandpiper | G5 | S1B | | LT |
| <i>Botaurus lentiginosus</i> | American Bittern | G4 | S1B/S2N | | |
| <i>Carpodacus purpureus</i> | Purple Finch | G5 | S1B/S5N | | SC |
| <i>Catharus guttatus</i> | Hermit Thrush | G5 | S1B/S5N | | SC |
| <i>Catharus ustulatus</i> | Swainson's Thrush | G5 | S1B | | |
| <i>Charadrius melodus</i> | Piping Plover | G3 | S2B/S1N | LT | LT |
| <i>Charadrius wilsonia</i> | Wilson's Plover | G5 | S1B | | LE |
| <i>Chondestes grammacus</i> | Lark Sparrow | G5 | SHB | | |
| <i>Circus cyaneus</i> | Northern Harrier | G5 | S1S2B/S3N | | SC |
| <i>Cistothorus platensis</i> | Sedge Wren | G5 | S1B/S1S2N | | SC |
| <i>Contopus cooperi</i> = <i>Nuttallornis borealis</i> | Olive-sided Flycatcher | G4 | SHB | | |
| <i>Dendroica fusca</i> | Blackburnian Warbler | G5 | S2B | | |
| <i>Dendroica magnolia</i> | Magnolia Warbler | G5 | S2B | | SC |
| <i>Dendroica virens waynei</i> | Wayne's Black-throated Green Warbler | G5TU | S1B? | | |
| <i>Dolichonyx oryzivorus</i> | Bobolink | G5 | S1B | | |
| <i>Egretta caerulea</i> | Little Blue Heron | G5 | S2B/S3N | | SC |
| <i>Egretta thula</i> | Snowy Egret | G5 | S2B/S3N | | |
| <i>Egretta tricolor</i> | Tricolored Heron | G5 | S2B/S3N | | SC |
| <i>Empidonax alnorum</i> | Alder Flycatcher | G5 | S1S2B | | SC |
| <i>Empidonax flaviventris</i> | Yellow-bellied Flycatcher | G5 | S1B | | SC |
| <i>Eudocimus albus</i> | White Ibis | G5 | S1B | | |
| <i>Falco peregrinus</i> | Peregrine Falcon | G4 | S1B/S2N | | LT |
| <i>Fulica americana</i> | American Coot | G5 | S1B/S5N | | |
| <i>Gallinula chloropus</i> | Common Moorhen | G5 | S1B/S1N | | SC |
| <i>Gelochelidon nilotica</i> = <i>Sterna nilotica</i> | Gull-billed Tern | G5 | S2B | | LT |
| <i>Haliaeetus leucocephalus</i> | Bald Eagle | G5 | S2S3B/S3N | | LT |
| <i>Himantopus mexicanus</i> | Black-necked Stilt | G5 | S1B | | |
| <i>Hydroprogne caspia</i> = <i>Sterna caspia</i> | Caspian Tern | G5 | S1B/S2N | | SC |
| <i>Ictinia mississippiensis</i> | Mississippi Kite | G5 | S1B | | |
| <i>Lanius ludovicianus</i> | Loggerhead Shrike | G4 | S2B/S3N | | LT |
| <i>Laterallus jamaicensis</i> | Black Rail | G4 | S2B/S2N | | |
| <i>Limothlypis swainsonii</i> | Swainson's Warbler | G4 | S2B | | SC |
| <i>Loxia curvirostra</i> | Red Crossbill | G5 | S1 | | SC |
| <i>Melospiza georgiana georgiana</i> | Swamp Sparrow | G5T5 | S1B/S4S5N | | |
| <i>Melospiza georgiana nigrescens</i> | Coastal Plain Swamp Sparrow | G5T3 | S1B | | |
| <i>Mergus merganser</i> | Common Merganser | G5 | S1B/S4N | | |
| <i>Nyctanassa violacea</i> = <i>Nycticorax violaceus</i> | Yellow-crowned Night-heron | G5 | S2S3B/S3N | | SC |
| <i>Oporornis philadelphia</i> | Mourning Warbler | G5 | S1B | | SC |
| <i>Pelecanus occidentalis</i> | Brown Pelican | G4 | S2B/S3N | | SC |

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| BIRDS (continued) | | | | | |
| <i>Picoides borealis</i> | Red-cockaded Woodpecker | G3 | S1 | LE | LE |
| <i>Plegadis falcinellus</i> | Glossy Ibis | G5 | S2B/S1N | | SC |
| <i>Podilymbus podiceps</i> | Pied-billed Grebe | G5 | S1S2B/S3N | | |
| <i>Porzana carolina</i> | Sora | G5 | S1B/S2N | | |
| <i>Rallus elegans</i> | King Rail | G4 | S2B/S3N | | |
| <i>Rallus limicola</i> | Virginia Rail | G5 | S2B/S3N | | |
| <i>Regulus satrapa</i> | Golden-crowned Kinglet | G5 | S2B/S5N | | SC |
| <i>Rynchops niger</i> | Black Skimmer | G5 | S2B/S1N | | |
| <i>Seiurus noveboracensis</i> | Northern Waterthrush | G5 | S1B | | |
| <i>Sitta canadensis</i> | Red-breasted Nuthatch | G5 | S2B/S4N | | SC |
| <i>Sphyrapicus varius</i> | Yellow-bellied Sapsucker | G5 | S1B/S4N | | |
| <i>Sterna dougallii</i> | Roseate Tern | G4 | SHB | LE | LE |
| <i>Sternula antillarum</i> | Least Tern | G4 | S2B | | SC |
| = <i>Sterna antillarum</i> | | | | | |
| <i>Thalasseus maximus</i> | Royal Tern | G5 | S2B | | |
| = <i>Sterna maxima</i> | | | | | |
| <i>Thalasseus sandvicensis</i> | Sandwich Tern | G5 | S1B | | SC |
| = <i>Sterna sandvicensis</i> | | | | | |
| <i>Thryomanes bewickii altus</i> | Appalachian Bewick's Wren | G5T2Q | SHB/S1N | | LE |
| <i>Troglodytes troglodytes</i> | Winter Wren | G5 | S2B/S4N | | SC |
| <i>Vermivora ruficapilla</i> | Nashville Warbler | G5 | S1B | | |
| MAMMALS | | | | | |
| <i>Corynorhinus rafinesquii macrotis</i> | Eastern big-eared bat | G3G4 | S2 | | LE |
| = <i>Plecotus rafinesquii macrotis</i> | | | | | |
| <i>Corynorhinus townsendii virginianus</i> | Virginia big-eared bat | G4T2 | S1 | LE | LE |
| = <i>Plecotus townsendii virginianus</i> | | | | | |
| <i>Glaucomys sabrinus coloratus</i> | Carolina northern flying squirrel | G5T1 | S1 | LE | LE |
| <i>Glaucomys sabrinus fuscus</i> | Virginia northern flying squirrel | G5T2 | S1 | | LE |
| <i>Lepus americanus</i> | Snowshoe hare | G5 | S1 | | LE |
| <i>Martes pennanti</i> | Fisher | G5 | S1 | | |
| <i>Microtus chrotorrhinus carolinensis</i> | Southern rock vole | G4T3 | S1 | | LE |
| <i>Myotis austroriparius</i> | Southeastern myotis (bat) | G3G4 | S2 | | |
| <i>Myotis grisescens</i> | Gray myotis (bat) | G3 | S1 | LE | LE |
| <i>Myotis leibii</i> | Eastern small-footed myotis (bat) | G3 | S2 | | |
| <i>Myotis sodalis</i> | Indiana bat (= social myotis) | G2 | S1 | LE | LE |
| <i>Puma concolor cougar</i> | Eastern cougar (= mountain lion, puma) | G5THQ | SX | LE | LE |
| = <i>Felis concolor cougar</i> | | | | | |
| <i>Sciurus niger cinereus</i> | Delmarva fox squirrel | G5T3 | S1 | LE | LE |
| <i>Sorex longirostris fisheri</i> | Dismal Swamp southeastern shrew | G5T4 | S2 | | LT |
| <i>Sorex palustris punctulatus</i> | Southern water shrew | G5T3 | S1S2 | LE | |

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| INVERTEBRATES | | | | | |
| TURBELLARIA (FLATWORMS) | | | | | |
| <i>Geocentrophora cavernicola</i> | A cave planarian | G1G2 | S1 | | |
| <i>Procotyla typhlops</i> | A groundwater planarian | G1G2 | S1S2 | | |
| <i>Sphalloplana chandleri</i> | Chandler's planarian | G1G2 | S1 | | |
| <i>Sphalloplana consimilis</i> | Powell Valley planarian | G2G3 | S1 | | |
| <i>Sphalloplana holsingeri</i> | Holsinger's groundwater planarian | G1G2 | SH | | |
| <i>Sphalloplana hypogea</i> | A groundwater planarian | G1G2 | S1S2 | | |
| <i>Sphalloplana subtilis</i> | Bigger's groundwater planarian | G1G2 | SH | | |
| <i>Sphalloplana virginiana</i> | Rockbridge County cave planarian | G1 | S1 | | |
| GASTROPODA (SNAILS) | | | | | |
| <i>Anguispira jessica</i> | Mountain disc | G3G4 | S1 | | |
| = <i>Anguispira alternata jessica</i> | | | | | |
| <i>Catinella hubrichti</i> | Snowhill ambersnail | G3 | S1S3 | | |
| <i>Discus nigrimontanus</i> | Black Mountain disc | G4 | S1S3 | | |
| <i>Elimia arachnoidea</i> | Spider Elimia | G2 | S2 | | LE |
| = <i>Goniobasis arachnoidea</i> | | | | | |
| <i>Euchemotrema leai</i> | Lowland pillsnail | G5 | S1S3 | | |
| = <i>Stenotrema leai alicia</i> | | | | | |
| <i>Fontigens bottimeri</i> | Appalachian springsnail | G2 | S2 | | LE |
| <i>Fontigens morrisoni</i> | Virginia springsnail | G1 | S1? | | LE |
| <i>Fumonelix christyi</i> | Glossy covert | G3 | S1S3 | | |
| = <i>Mesodon christyi</i> | | | | | |
| <i>Fumonelix wheatleyi clingmanicus</i> | Clingman covert | G4T2T3 | S1S2 | | |
| = <i>Mesodon clingmanicus</i> | | | | | |
| <i>Gastrocopta clappi</i> | Bluegrass snaggletooth | G4G5 | S1S2 | | |
| = <i>Gastrocopta armifera clappi</i> | | | | | |
| <i>Gastrocopta pellucida</i> | Slim snaggletooth | G5 | S1S3 | | |
| <i>Gastrodonta fonticula</i> | Appalachia bellytooth | G3G4 | S1S3 | | |
| = <i>Gastrocopta interna fonticula</i> | | | | | |
| <i>Glyphyalinia picea</i> | Rust glyph | G3 | S1S3 | | |
| <i>Glyphyalinia praecox</i> | Brilliant glyph | G4 | S1S3 | | |
| <i>Glyphyalinia raderi</i> | Maryland glyph | G2 | S1S2 | | SC |
| <i>Glyphyalinia sculptilis</i> | Suborb glyph | G4 | S1 | | |
| <i>Glyphyalinia virginica</i> | Depressed glyph | G3 | S2S3 | | |
| <i>Helicodiscus diadema</i> | Shaggy coil | G1 | S1 | | LE |
| <i>Helicodiscus lirellus</i> | Rubble coil | G1 | S1 | | LE |
| <i>Helicodiscus multidentis</i> | Twilight coil | G3 | S2 | | |
| <i>Helicodiscus shimeki</i> | Temperate coil | G4G5 | S1 | | |
| <i>Helicodiscus triodus</i> | Talus coil | G2 | S1S2 | | |
| <i>Holsingeria unthinksensis</i> | Thankless ghostsnail (= Unthanks Cave snail) | G2 | S2 | | LE |
| <i>Holsingeria</i> sp. 1 | Skyline Caverns snail | G1Q | S1 | | |
| <i>Inflectarius kalmianus</i> | Brown globelet | G3 | S1S3 | | |
| = <i>Mesodon kalmianus</i> | | | | | |
| <i>Io fluvialis</i> | Spiny riversnail | G2 | S2 | | LT |
| <i>Leptoxis praerosa</i> | Onyx rocksnail | G5 | S2 | | |
| = <i>Anculosa subglobosa</i> | | | | | |
| <i>Megapallifera wetherbyi</i> | Blotchy mantleslug | G2G3 | S1? | | |
| <i>Mesodon andrewsae</i> | Balsam globe | G3 | S1 | | |
| <i>Mesodon elevatus</i> | Proud globe | G5 | S2 | | |
| <i>Mesomphix subplanus</i> | Flat button | G3G4 | S2 | | |
| <i>Millerelix plicata</i> | Cumberland liptooth | G4 | S1S3 | | |
| = <i>Polygyra plicata</i> | | | | | |

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| Snails (continued) | | | | | |
| <i>Oxyloma subeffusum</i> | Chesapeake ambersnail | G3 | S1 | | |
| <i>Pallifera hemphilli</i> | Black mantleslug | G4 | S1 | | |
| <i>Pallifera varia</i> | Variable mantleslug | G2G4 | S2? | | |
| <i>Paravitrea blarina</i> | Shrew supercoil | G3 | S1 | | |
| <i>Paravitrea dentilla</i> | Comb supercoil | G1 | S1 | | |
| <i>Paravitrea hera</i> | Spirit supercoil | G1 | S1 | | LE |
| <i>Paravitrea mira</i> | Funnel supercoil | G2 | S2 | | |
| <i>Paravitrea placentula</i> | Glossy supercoil | G3 | S1S3 | | |
| <i>Paravitrea pontis</i> | Natural Bridge supercoil | G3 | S2 | | |
| <i>Paravitrea reesei</i> | Round supercoil | G3 | S2 | | |
| <i>Paravitrea septadens</i> | Brown supercoil | G1 | S1 | | LT |
| <i>Paravitrea seradens</i> | Barred supercoil | G3 | S1S3 | | |
| <i>Paravitrea subtilis</i> | Slender supercoil | G2 | S1S2 | | |
| <i>Patera panselenus</i> = <i>Mesodon panselenus</i> | Virginia bladetooth | G2 | S2 | | |
| <i>Polygyriscus virginianus</i> | Virginia coil (=Virginia fringed mountain snail) | G1 | S1 | LE | LE |
| <i>Pomatiopsis cincinnatiensis</i> | Brown walker | G4 | S2 | | |
| <i>Pupilla muscorum</i> | Widespread column | G5 | S1 | | |
| <i>Somatogyrus virginicus</i> | Panhandle pebblesnail | G2G3 | S1S2 | | |
| <i>Stagnicola neopalustris</i> | Piedmont pondsnailed | GH | SH | | |
| <i>Stenotrema altispira</i> | Highland slitmouth | G3 | S1 | | |
| <i>Stenotrema pilula</i> | Pygmy slitmouth | G3G4 | S1 | | |
| <i>Stenotrema spinosum</i> | Carinate slitmouth | G4 | S2 | | |
| <i>Striatura exigua</i> | Ribbed striate | G5 | S2 | | |
| <i>Striatura milium</i> | Fine-ribbed striate | G5 | S1S3 | | |
| <i>Triodopsis anteridon</i> | Carter threetooth | G3 | S2S3 | | |
| <i>Triodopsis messana</i> | Pinhole threetooth | G4 | S1S3 | | |
| <i>Triodopsis pendula</i> | Hanging Rock threetooth | G3 | S1S3 | | |
| <i>Triodopsis picea</i> | Spruce Knob threetooth | G3 | S1 | | |
| <i>Vallonia parvula</i> | Trumpet vallonia | G4 | S1 | | |
| <i>Ventridens coelaxis</i> | Bidentate dome | G3 | S2 | | |
| <i>Ventridens decussatus</i> | Crossed dome | G3 | S1 | | |
| <i>Ventridens lawae</i> | Rounded dome | G3G4 | S1S3 | | |
| <i>Ventridens pilsbryi</i> | Yellow dome | G4 | S2? | | |
| <i>Vertigo bollesiana</i> | Delicate vertigo | G4 | S1S3 | | |
| <i>Vertigo clappi</i> | Cupped vertigo | G1G2 | S1S2 | | |
| <i>Vertigo oralis</i> | Palmetto vertigo | G5 | S1S3 | | |
| <i>Vertigo teskeyae</i> | Swamp vertigo | G5 | S1S3 | | |
| <i>Vertigo ventricosa</i> | Five-tooth vertigo | G5 | S1S3 | | |
| <i>Vitrinizonites latissimus</i> | Glassy grapeskin | G4 | S2? | | |

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| BIVALVIA (MUSSELS & CLAMS) | | | | | |
| Mussels | | | | | |
| <i>Alasmidonta heterodon</i> | Dwarf wedgemussel | G1G2 | S1 | LE | LE |
| <i>Alasmidonta marginata</i> | Elktoe | G4 | S1S2 | | SC |
| <i>Alasmidonta varicosa</i> | Brook floater | G3 | S1 | | LE |
| <i>Alasmidonta viridis</i> = <i>Alasmidonta minor</i> | Slippershell mussel | G4G5 | S1 | | LE |
| <i>Cumberlandia monodonta</i> | Spectacle case | G3 | S1 | C | LE |
| <i>Cyprogenia stegaria</i> = <i>Cyprogenia irrorata</i> | Fanshell | G1Q | S1 | LE | LE |
| <i>Dromus dromas</i> | Dromedary pearlymussel | G1 | S1 | LE | LE |
| <i>Elliptio crassidens</i> | Elephantear | G5 | S1 | | LE |
| <i>Elliptio lanceolata</i> | Yellow lance | G2G3 | S2S3 | | SC |
| <i>Elliptio roanokensis</i> | Roanoke slabshell | G3 | S1 | | SC |
| <i>Epioblasma brevidens</i> | Cumberland combshell | G1 | S1 | LE | LE |
| <i>Epioblasma capsaeformis</i> | Oyster mussel | G1 | S1 | LE | LE |
| <i>Epioblasma florentina walkeri</i> | Tan riffleshell | G1T1Q | S1 | LE | LE |
| <i>Epioblasma florentina</i> ssp. 1 | A riffleshell | G1T1 | S1 | | |
| <i>Epioblasma torulosa gubernaculum</i> | Green-blossom pearlymussel | G2TX | SX | LE | LE |
| <i>Epioblasma triquetra</i> | Snuffbox | G3 | S1 | | LE |
| <i>Fusconaia barnesiana</i> | Tennessee pigtoe | G2G3 | S2 | | SC |
| <i>Fusconaia cor</i> = <i>Fusconaia edgariana</i> | Shiny pigtoe | G1 | S1 | LE | LE |
| <i>Fusconaia cuneolus</i> | Fine-rayed pigtoe | G1 | S1 | LE | LE |
| <i>Fusconaia masoni</i> | Atlantic pigtoe | G2 | S2 | | LT |
| <i>Hemistena lata</i> = <i>Lastena lata</i> | Cracking pearlymussel | G1 | S1 | LE | LE |
| <i>Lampsilis abrupta</i> = <i>Lampsilis orbiculata</i> | Pink mucket | G2 | SX | LE | LE |
| <i>Lampsilis cariosa</i> | Yellow lampmussel | G3G4 | S2 | | SC |
| <i>Lampsilis radiata</i> | Eastern lampmussel | G5 | S2S3 | | SC |
| <i>Lasmigona holstonia</i> | Tennessee heelsplitter | G3 | S1 | | LE |
| <i>Lasmigona subviridis</i> | Green floater | G3 | S2 | | LT |
| <i>Lemiox rimosus</i> = <i>Conradilla caelata</i> | Birdwing pearlymussel | G1 | S1 | LE | LE |
| <i>Leptodea fragilis</i> | Fragile papershell | G5 | S1 | | LT |
| <i>Lexingtonia dolabelloides</i> | Slabside pearlymussel | G2 | S2 | C | LT |
| <i>Lexingtonia subplana</i> | Virginia pigtoe | G1Q | SH | | |
| <i>Ligumia recta</i> = <i>Ligumia recta latissima</i> | Black sandshell | G5 | S2 | | LT |
| <i>Pegias fabula</i> | Little-winged pearlymussel | G1 | S1 | LE | LE |
| <i>Plethobasus cyphyus</i> | Sheepnose | G3 | S1 | C | LT |
| <i>Pleurobema collina</i> | James spinymussel | G1 | S1 | LE | LE |
| <i>Pleurobema cordatum</i> | Ohio pigtoe | G4 | S1 | | LE |
| <i>Pleurobema oviforme</i> = <i>Pleurobema maculatum</i> | Tennessee clubshell | G2G3 | S2S3 | | |
| <i>Pleurobema plenum</i> | Rough pigtoe | G1 | SH | LE | LE |
| <i>Pleurobema rubrum</i> = <i>Pleurobema pyramidatum</i> | Pyramid pigtoe | G2G3 | SH | | LE |
| <i>Ptychobranchus subtentum</i> | Fluted Kidneyshell | G2 | S2 | C | |
| <i>Quadrula cylindrica strigillata</i> | Rough rabbits foot | G3G4T2 | S2 | LE | LE |
| <i>Quadrula intermedia</i> | Cumberland monkeyface | G1 | S1 | LE | LE |
| <i>Quadrula pustulosa</i> | Pimple back | G5 | S2 | | LT |
| <i>Quadrula sparsa</i> | Appalachian monkeyface | G1 | S1 | LE | LE |

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| Mussels (continued) | | | | | |
| <i>Toxolasma lividus</i> = <i>Carunculina lividus</i> , <i>Carunculina glans</i> | Purple liliput | G2 | SH | | LE |
| <i>Tritogonia verrucosa</i> | Pistolgrip | G4G5 | S2 | | LT |
| <i>Truncilla truncata</i> | Deertoe | G5 | S1 | | LE |
| <i>Villosa fabalis</i> | Rayed bean | G2 | SX | C | |
| <i>Villosa perpurpurea</i> | Purple bean | G1 | S1 | LE | LE |
| <i>Villosa trabalis</i> | Cumberland bean | G1 | SX | LE | LE |
| Clams | | | | | |
| <i>Pisidium equilaterale</i> | Round peaclam | G3G5 | S2 | | |
| ANNELIDA (SEGMENTED WORMS) | | | | | |
| <i>Spelaedrillus multiporus</i> | A cave lumbriculid worm | G1 | S1 | | |
| <i>Styloedrillus beattiei</i> | A cave lumbriculid worm | G2G3 | S1 | | |
| ARACHNIDA (SPIDERS, PSEUDOSCORPIONS & RELATIVES) | | | | | |
| Spiders | | | | | |
| <i>Amaurobius borealis</i> | An amaurobiid spider | G4 | S1S3 | | |
| <i>Anahita punctulata</i> | Southeastern wandering spider | G4 | S2 | | |
| <i>Anthrobia coylei</i> | Coyle's cave spider | G2? | S1 | | |
| <i>Anthrobia monmouthia</i> = <i>Anthrobia mammouthia</i> | Mammoth Cave spider | G5 | S1 | | |
| <i>Antrodiaetus robustus</i> | Robust trapdoor spider | G3? | S2 | | |
| <i>Barronopsis jeffersi</i> | A funnel-web spider | G3 | S1S3 | | |
| <i>Bathypantes weyeri</i> | A cave spider | G4 | S1 | | |
| <i>Castianeira trilineata</i> | A two-clawed hunting spider | G4? | S1S3 | | |
| <i>Clubiona spiralis</i> | A two-clawed hunting spider | G4 | S1S3 | | |
| <i>Drassyllus louisianus</i> | A gnaphosid spider | G4? | S1S3 | | |
| <i>Drassyllus</i> sp. 1 | A gnaphosid spider | G1G3 | S1S3 | | |
| <i>Hypochilus pococki</i> | Pocock's lampshade-web spider | G4G5 | S2S3 | | |
| <i>Hypochilus thorelli</i> | Thorell's lampshade-web spider | G4 | S1 | | |
| <i>Islandiana muma</i> | A cave spider | G1G2 | S1 | | |
| <i>Microhexura montivaga</i> | Spruce-fir moss spider | G1 | S1 | LE | |
| <i>Nesticus holsingeri</i> | Holsinger's cave spider | G3G4 | S1S2 | | |
| <i>Nesticus mimus</i> | A cave spider | G2 | S1 | | |
| <i>Nesticus paynei</i> | A cave spider | G3G4 | S1 | | |
| <i>Nesticus tennesseensis</i> | A cave spider | G3G4 | S2 | | |
| <i>Pisaurina dubia</i> | A nursery-web spider | G4 | S1S3 | | |
| <i>Xysticus emertoni</i> | Emerton's crab spider | G5 | S1S3 | | |
| Mites | | | | | |
| <i>Foveacheles paralleloseta</i> | A cave mite | G1 | S1 | | |
| Pseudoscorpions | | | | | |
| <i>Apochthonius coecus</i> | A cave pseudoscorpion | G1G2 | S1 | | |
| <i>Apochthonius holsingeri</i> | A cave pseudoscorpion | G1G2 | S1 | | |
| <i>Chitrella superba</i> | A cave pseudoscorpion | G1 | S1 | | |
| <i>Chitrella</i> sp. 1 | A cave pseudoscorpion | G1 | S1 | | |
| <i>Kleptochthonius anophthalmus</i> | A cave pseudoscorpion | G1 | S1 | | |
| <i>Kleptochthonius binocularis</i> | A cave pseudoscorpion | G1G2 | S1 | | |
| <i>Kleptochthonius gertschi</i> | Gertsch's cave pseudoscorpion | G1 | S1 | | |
| <i>Kleptochthonius lutzi</i> | Lutz's cave pseudoscorpion | G1 | S1 | | |

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| Pseudoscorpions (continued) | | | | | |
| <i>Kleptochthonius polychaetus</i> | Shenandoah pseudoscorpion | G1G3 | S1S3 | | |
| <i>Kleptochthonius proximisetus</i> | A cave pseudoscorpion | G1 | S1 | | |
| <i>Kleptochthonius regulus</i> | A cave pseudoscorpion | G1G2 | S1 | | |
| <i>Kleptochthonius similis</i> | A cave pseudoscorpion | G1 | S1 | | |
| <i>Kleptochthonius</i> sp. 1 = <i>Kleptochthonius</i> sp. B | A cave pseudoscorpion | G1 | S1 | | |
| <i>Microcreagris valentinei</i> | Valentine's cave pseudoscorpion | G1 | S1 | | |
| <i>Mundochthonius holsingeri</i> | A cave pseudoscorpion | G1 | S1 | | |
| Scorpions | | | | | |
| <i>Vaejovis carolinianus</i> | Carolina scorpion | G5 | S1 | | |
| CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS) | | | | | |
| Amphipods | | | | | |
| <i>Bactrurus angulus</i> | Cumberland Gap cave amphipod | G1 | S1 | | |
| <i>Crangonyx acicularis</i> | A freshwater amphipod | G1G3 | S1S3 | | |
| <i>Crangonyx baculispina</i> | Lancaster County amphipod | G1? | S1? | | |
| <i>Crangonyx fontinalis</i> | Bland County amphipod | G1? | S1? | | |
| <i>Crangonyx gracilis</i> | A freshwater amphipod | G4 | S1S3 | | |
| <i>Crangonyx montanus</i> | A freshwater amphipod | G3? | S2S3 | | |
| <i>Stygobromus abditus</i> | James Cave amphipod | G2G3 | S2 | | |
| <i>Stygobromus baroodyi</i> | Rockbridge County cave amphipod | G2G3 | S1S2 | | |
| <i>Stygobromus biggersi</i> | Bigger's cave amphipod | G2G4 | S1S2 | | |
| <i>Stygobromus conradi</i> | Burnsville Cove cave amphipod | G2G3 | S1S2 | | |
| <i>Stygobromus cumberlandus</i> | Cumberland cave amphipod | G3G4 | S1S2 | | |
| <i>Stygobromus ephemerus</i> | Ephemeral cave amphipod | G1G2 | S1 | | SC |
| <i>Stygobromus fergusonii</i> | Montgomery County cave amphipod | G2G3 | S1 | | |
| <i>Stygobromus finleyi</i> | Finley's cave amphipod | G3G4 | S1 | | |
| <i>Stygobromus gracilipes</i> | Shenandoah Valley cave amphipod | G3G4 | S2S3 | | SC |
| <i>Stygobromus hoffmani</i> | Alleghany County cave amphipod | G1 | S1 | | |
| <i>Stygobromus hubbardi</i> | Hupp's Hill cave amphipod | G1 | S1 | | |
| <i>Stygobromus interitus</i> | New Castle Murder Hole amphipod | G1G2 | SH | | |
| <i>Stygobromus leensis</i> | Lee County cave amphipod | G4 | S1S2 | | |
| <i>Stygobromus mausi</i> | Round Hill cave amphipod | G1 | S1 | | |
| <i>Stygobromus morrisoni</i> | Morrison's cave amphipod | G2G3 | S1S2 | | SC |
| <i>Stygobromus mundus</i> | Bath County cave amphipod | G2G3 | S1S2 | | SC |
| <i>Stygobromus obrutus</i> | Pittsylvania well amphipod | G1G2 | SH | | |
| <i>Stygobromus phreaticus</i> | Northern Virginia well amphipod | G2G3 | S1 | | |
| <i>Stygobromus pizzinii</i> | Pizzini's amphipod | G3G4 | S1S2 | | SC |
| <i>Stygobromus pseudospinosus</i> | Luray Caverns amphipod | G1 | S1 | | |
| <i>Stygobromus sextarius</i> | Capital area groundwater amphipod | G1 | S1 | | |
| <i>Stygobromus stegerorum</i> | 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 | | |
| <i>Stygobromus</i> sp. 10 | A cave amphipod (Botetourt Co.) | G1 | S1 | | |
| <i>Stygobromus</i> sp. 11 | A cave amphipod (Nelson Co.) | G1 | S1 | | |
| <i>Stygobromus</i> sp. 12 | A cave amphipod (Rockbridge Co.) | G1 | S1 | | |
| <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. 19 | A cave amphipod (Scott Co.) | G1 | S1 | | |

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| Amphipods (continued) | | | | | |
| <i>Stygobromus</i> sp. 20 | A cave amphipod (Bath, Highland Co.) | G1 | S1 | | |
| <i>Stygobromus</i> sp. 21 | Rappahannock spring amphipod | G2 | S2 | | |
| <i>Stygobromus</i> sp. 23 | Shenandoah Mountain spring amphipod | G1? | S1? | | |
| <i>Stygobromus</i> sp. 34 | Goshen spring amphipod | G1? | S1? | | |
| Isopods | | | | | |
| <i>Amerigoniscus henroti</i> | Powell Valley terrestrial cave isopod | G2G3 | S1S2 | | |
| <i>Antrolana lira</i> | Madison Cave isopod | G2G4 | S2 | LT | LT |
| <i>Caecidotea attenuata</i> | Dismal Swamp isopod | G1G3 | S1S3 | | |
| <i>Caecidotea bowmani</i> | Natural Bridge cave isopod | G1G2 | S1 | | |
| <i>Caecidotea cumberlandensis</i> | Cumberland Gap cave isopod | G1G2 | S1 | | |
| <i>Caecidotea henroti</i> | Henrot's cave isopod | G2 | S2 | | |
| <i>Caecidotea incurva</i> | Incurved cave isopod | G2G4 | S2 | | |
| <i>Caecidotea phreatica</i> | Phreatic isopod | G2G3 | S1S3 | | |
| <i>Caecidotea vandeli</i> | Vandel's cave isopod | G3G4 | S2S3 | | |
| <i>Ligidium elrodii leensis</i> | Lee County terrestrial cave isopod | G4G5T1T2 | S1S2 | | |
| <i>Ligidium elrodii scottensis</i> | Scott County terrestrial cave isopod | G4G5T1T2 | S1S2 | | |
| <i>Lirceus culveri</i> | Rye Cove isopod | G1 | S1 | | SC |
| <i>Lirceus usdagalun</i> | Lee County cave isopod | G2G3 | S1 | LE | LE |
| <i>Miktoniscus racovitza</i> | Racovitza's terrestrial cave isopod | G3G4 | S2 | | |
| Decapods | | | | | |
| <i>Cambarus buntingi</i> | Bunting's crayfish | G4 | S2 | | |
| <i>Cambarus jezerinaci</i> | Powell River crayfish | G1G2 | S1S2 | | |
| <i>Cambarus monongalensis</i> | Monongahela crayfish | G5 | S1? | | |
| <i>Cambarus parvoculus</i> | A crayfish | G5 | S2 | | |
| <i>Cambarus sciotensis</i> | Scioto crayfish | G5 | S2S3 | | |
| <i>Cambarus veteranus</i> | Big Sandy Crayfish | G3 | S1S2 | | LE |
| <i>Macrobrachium ohione</i> | Ohio river shrimp | G4 | S1 | | |
| <i>Orconectes erichsonianus</i> | A crayfish | G5 | S2 | | |
| <i>Orconectes virginianensis</i> | Chowanoke crayfish | G3 | S2S3 | | |
| DIPLOPODA (MILLIPEDES) | | | | | |
| <i>Auturus erythrogygos</i> | A millipede | G3 | S1 | | |
| <i>Boraria infesta</i> | A millipede | G4 | S2 | | |
| <i>Brachoria cedra</i> | Cedar millipede | G2G3 | S2S3 | | |
| <i>Brachoria dentata</i> | A millipede | G1 | S1 | | |
| <i>Brachoria falcifera</i> | Big Cedar Creek millipede | G1 | S1 | | |
| <i>Brachoria hoffmani</i> | Hoffman's xystodesmid millipede | G2G3 | S2S3 | | |
| <i>Brachoria insolita</i> | A millipede | G1 | S1 | | |
| <i>Brachoria laminata</i> | Keeton's millipede | G1 | S1 | | |
| <i>Brachoria mendota</i> | Collinwood millipede | G1 | S1 | | |
| <i>Brachoria separanda hamata</i> | A millipede | G3T2 | S2 | | |
| <i>Brachoria separanda versicolor</i> | A millipede | G3T2 | S2 | | |
| <i>Brachoria turneri</i> | Turner's millipede | G1 | S1 | | |
| <i>Brachoria</i> sp. 1 | Powell Mountain millipede sp 1 | G1? | S1? | | |
| <i>Brachoria</i> sp. 2 | Powell Mountain millipede sp 2 | G1? | S1? | | |
| <i>Chaetaspis albus</i> | A millipede | G4 | S2 | | |
| <i>Cherokia georgiana latassa</i> | A millipede | G4T? | S1 | | |
| <i>Cleidogona hoffmani</i> | Hoffman's cleidogonid millipede | G3 | S2S3 | | |
| <i>Cleidogona lachesis</i> | A millipede | G2 | S1 | | |
| <i>Cleidogona medialis</i> | Blowing Rock millipede | G3G4 | S2 | | |

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| Millipedes (continued) | | | | | |
| <i>Conotyla aeto</i> | Aeto millipede | G1 | S1 | | |
| <i>Conotyla celeno</i> | Celeno millipede | G1 | S1 | | |
| <i>Conotyla venetia</i> | Venetia millipede | G2 | S2 | | |
| <i>Desmonus earlei</i> | Earle's millipede | G5 | S1 | | |
| <i>Dixioria brooksi</i> | Brooks millipede | G1 | S1 | | |
| <i>Dixioria fowleri</i> | Fowler's millipede | G2 | S2 | | |
| <i>Dixioria pela coronata</i> = <i>Dixioria coronata</i> | A millipede | G2T2 | S2 | | |
| <i>Euryurus leachii fraternus</i> | A millipede | G4T? | S2S3 | | |
| <i>Gyalostethus monticolens</i> | A millipede | G4 | S2 | | |
| <i>Nannaria shenandoa</i> | Shenandoah Mountain xystodesmid millipede | G1 | S1 | | |
| <i>Nannaria simplex</i> | A millipede | G1 | S1 | | |
| <i>Nannaria</i> sp. 1 | Roaring Branch <i>Nannaria</i> millipede | G1? | S1? | | |
| <i>Okeanobates americanus</i> | A millipede | G4 | S1 | | |
| <i>Onomeris underwoodi</i> | A millipede | G5 | S2 | | |
| <i>Orinisobates nigrrior</i> | A millipede | G4 | S1 | | |
| <i>Petaserpes rosalbus</i> = <i>Polyzonium rosalbum</i> | A millipede | G5 | S2 | | |
| <i>Pseudopolydesmus paludicolus</i> | A millipede | G2G4 | S2? | | |
| <i>Pseudotremia armesi</i> | A millipede | G2 | S2 | | |
| <i>Pseudotremia cavernarum</i> | Ellett Valley <i>Pseudotremia</i> millipede | G2G3 | S1 | | LT |
| <i>Pseudotremia deprehendor</i> | A cave millipede | G2G3 | S1S3 | | |
| <i>Pseudotremia momus</i> | A millipede | G2 | S2 | | |
| <i>Pseudotremia princeps</i> | South Branch Valley cave millipede | G1 | S1 | | |
| <i>Pseudotremia sublevis</i> | A millipede | G2G3 | S2S3 | | |
| <i>Pseudotremia tuberculata</i> | A millipede | G2G3 | S2 | | |
| <i>Pseudotremia valga</i> | A millipede | G1G2 | S1S2 | | |
| <i>Pseudotremia</i> sp. 2 | Roaring Branch <i>Pseudotremia</i> millipede | G1? | S1? | | |
| <i>Pseudotremia</i> sp. 3 | A cave millipede (Lee Co.) | G1 | S1 | | |
| <i>Pseudotremia</i> sp. 16 | A cave millipede (Wise Co.) | G1 | S1 | | |
| <i>Rhysodesmus restans</i> | Relictual Appalachian millipede | G1G2 | S1 | | |
| <i>Rudiloria trimaculata tortua</i> | A millipede | G5T2 | S2 | | |
| <i>Semionellus placidus</i> | A millipede | G3 | S2 | | |
| <i>Sigmoria whiteheadi</i> | Laurel Creek xystodesmid millipede | G1 | S1 | | LT |
| <i>Striaria columbiana</i> | A millipede | G2 | S2 | | |
| <i>Striaria</i> sp. 1 | A millipede | G1 | S1 | | |
| <i>Trichopetalum lunatum</i> | A millipede | G5 | S2 | | |
| <i>Zygonopus weyeriensis</i> = <i>Trichopetalum weyeriensis</i> | Grand Caverns blind cave millipede | G3G4 | S2 | | |
| <i>Zygonopus whitei</i> = <i>Trichopetalum whitei</i> | Luray Caverns blind cave millipede | G3G4 | S2 | | |
| CHILOPODA (CENTIPEDES) | | | | | |
| <i>Escaryus cryptorobius</i> | Montane centipede | G2 | S2 | | |
| <i>Escaryus ethopus</i> | A centipede | G? | S1S2 | | |
| <i>Escaryus orestes</i> | Whitetop Mountain centipede | G1G2 | S1S2 | | |
| <i>Nampabius turbator</i> | A cave centipede | G1G2 | S1 | | |

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| INSECTS | | | | | |
| COLLEMBOLA (SPRINGTAILS) | | | | | |
| <i>Oncopodura hubbardi</i> | A cave springtail | G1G2 | S1 | | |
| <i>Pseudosinella bona</i> | A cave springtail | G1G2 | S1S2 | | |
| <i>Pseudosinella erehwon</i> | A cave springtail | G1 | S1 | | |
| <i>Pseudosinella extra</i> | A cave springtail | G1G2 | S1 | | |
| <i>Pseudosinella gisini virginia</i> | A cave springtail | G3G4T1 | S1 | | |
| <i>Pseudosinella granda</i> | A cave springtail | G1G2 | S1S2 | | |
| <i>Pseudosinella hirsuta</i> | A cave springtail | G5 | S1 | | |
| <i>Pygmarrhopalites caedus</i> | A cave springtail | G1G2 | S1 | | |
| <i>Pygmarrhopalites carolynae</i> | A cave springtail | G2G3 | S1 | | |
| <i>Pygmarrhopalites clarus</i> | A cave springtail | G4 | S1 | | |
| <i>Pygmarrhopalites commorus</i> | A cave springtail | G2G4 | S1 | | |
| <i>Pygmarrhopalites lacuna</i> | A cave springtail | G1G2 | S1S2 | | |
| <i>Pygmarrhopalites marshalli</i> | A cave springtail | G2G4 | S2 | | |
| <i>Pygmarrhopalites obtusus</i> | A cave springtail | G1 | S1 | | |
| <i>Pygmarrhopalites pavo</i> | A cave springtail | G3? | S1 | | |
| <i>Pygmarrhopalites sacer</i> | A cave springtail | G1G2 | S1 | | |
| <i>Pygmarrhopalites sextus</i> | A cave springtail | G1 | S1 | | |
| <i>Pygmarrhopalites silvus</i> | A cave springtail | G1G2 | S1 | | |
| <i>Schaefferia hubbardi</i> | A cave springtail | G1G2 | S1S2 | | |
| <i>Typhlogastrura valentini</i> | A cave springtail | G1 | S1 | | |
| DIPLURA (DIPLURANS) | | | | | |
| <i>Litocampa cookei</i> | Cooke's cave dipluran | G5 | S2 | | |
| <i>Litocampa fieldingi</i> | Fielding's cave dipluran | G2G3 | S1S3 | | |
| <i>Litocampa pucketti</i> | 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 | G1 | S1 | | |
| <i>Litocampa</i> sp. 3 | A cave dipluran | G2 | S2 | | |
| <i>Litocampa</i> sp. 4 | A cave dipluran (Rye Cove) | G2 | S1S2 | | |
| EPHEMEROPTERA (MAYFLIES) | | | | | |
| <i>Ameletus cryptostimulus</i> | Allegheny mayfly | G4 | S1S3 | | |
| <i>Ameletus tarteri</i> | Tarter's Ameletus mayfly | G2G4 | S1 | | |
| <i>Baetisca rubescens</i> | A mayfly | G3G4 | S1 | | |
| <i>Barbaetis benfieldi</i> | Benfield's bearded small minnow mayfly | G2G4 | S1 | | |
| <i>Ephemerella bernerii</i> | Berner's Ephemerella mayfly | G4 | S1S3 | | |
| <i>Habrophlebiodes celeteria</i> | A mayfly | G2G4 | S2 | | |
| <i>Isonychia arida</i> | A mayfly | G5 | S2 | | |
| <i>Isonychia georgiae</i> | Georgia Isonychia mayfly | G4 | S1S3 | | |
| <i>Isonychia hoffmani</i> | Hoffman's Isonychia mayfly | G1G3 | S1 | | |
| <i>Isonychia serrata</i> | A mayfly | G4 | S1S3 | | |
| <i>Isonychia tusculanensis</i> | A mayfly | G4 | S2 | | |
| <i>Iswoaeon rubrolaterale</i> = <i>Heterocloeon rubrolaterale</i> , <i>Plauditus rubrolateralis</i> | A mayfly | G2 | S1? | | |
| <i>Leptophlebia johnsoni</i> | Johnson's pronggill mayfly | G4 | S1 | | |
| <i>Neoephemera compressa</i> | A mayfly | G1S3 | S1? | | |
| <i>Paraleptophlebia assimilis</i> | A mayfly | G4 | S1S3 | | |
| <i>Paraleptophlebia jeanae</i> | A mayfly | G3G4 | S1S3 | | |
| <i>Pseudiron centralis</i> | White sand-river mayfly | G5 | S1 | | |
| <i>Rhithrogena anomala</i> | A mayfly | G3G4 | S1? | | |
| <i>Siphloplecton costalense</i> | Spiehl's great speckled olive mayfly | G2G4 | SH | | |

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| ODONATA (DAMSELFLIES & DRAGONFLIES) | | | | | |
| Damselflies | | | | | |
| <i>Calopteryx aequabilis</i> | River jewelwing | G5 | S2? | | |
| <i>Calopteryx amata</i> | Superb jewelwing | G4 | S1 | | |
| <i>Calopteryx angustipennis</i> | Appalachian jewelwing | G4 | S2 | | |
| <i>Enallagma annexum</i> = <i>Enallagma cyathigerum</i> | Northern bluet | G5 | S1 | | |
| <i>Enallagma ebrium</i> | Marsh bluet | G5 | S1 | | |
| <i>Enallagma pallidum</i> | Pale bluet | G4 | S1 | | |
| <i>Enallagma weewa</i> | Blackwater bluet | G5 | S2 | | |
| <i>Lestes disjunctus</i> = <i>Lestes disjunctus disjunctus</i> | Northern spreadwing | G5 | S2 | | |
| <i>Lestes dryas</i> | Emerald spreadwing | G5 | SH | | |
| <i>Lestes vidua</i> | Carolina spreadwing | G5 | SH | | |
| <i>Nehalennia gracilis</i> | Sphagnum sprite | G5 | S2 | | |
| <i>Nehalennia irene</i> | Sedge sprite | G5 | S1 | | |
| Dragonflies | | | | | |
| <i>Aeshna canadensis</i> | Canada darner | G5 | S1 | | |
| <i>Aeshna constricta</i> | Lance-tipped darner | G5 | S1 | | |
| <i>Aeshna tuberculifera</i> | Black-tipped darner | G4 | S2S3 | | |
| <i>Aeshna verticalis</i> | Green-striped darner | G5 | S1 | | |
| <i>Aphylla williamsoni</i> | Two-striped forceptail | G5 | S2 | | |
| <i>Arigomphus furcifer</i> | Lilypad clubtail | G5 | SH | | |
| <i>Celithemis martha</i> | Martha's pennant | G4 | S2 | | |
| <i>Celithemis ornata</i> | Faded pennant | G5 | SH | | |
| <i>Cordulegaster diastatops</i> | Delta-spotted spiketail | G5 | S1 | | |
| <i>Coryphaeschna ingens</i> | Regal darner | G5 | S1 | | |
| <i>Epiheca canis</i> = <i>Tetragoneuria canis</i> | Beaverpond baskettail | G5 | S1 | | |
| <i>Epiheca semiaquea</i> = <i>Tetragoneuria semiaquea</i> | Mantled baskettail | G5 | S1 | | |
| <i>Epiheca spinosa</i> = <i>Tetragoneuria spinosa</i> | Robust baskettail | G4 | S2S3 | | |
| <i>Gomphus adelphus</i> = <i>Gomphus brevis</i> | Moustached clubtail | G4 | S1 | | |
| <i>Gomphus apomyius</i> | Banner clubtail | G3G4 | SH | | |
| <i>Gomphus borealis</i> | Beaverpond clubtail | G4 | SH | | |
| <i>Gomphus consanguis</i> | Cherokee clubtail | G3 | S2 | | |
| <i>Gomphus descriptus</i> | Harpoon clubtail | G4 | S1 | | |
| <i>Gomphus fraternus</i> | Midland clubtail | G5 | S2 | | |
| <i>Gomphus parvidens</i> | Piedmont clubtail | G4 | S1 | | |
| <i>Gomphus quadricolor</i> | Rapids clubtail | G3G4 | S2S3 | | |
| <i>Gomphus septima</i> | Septima's clubtail | G2 | S1 | | |
| <i>Gomphus ventricosus</i> | Skillet clubtail | G3 | S1 | | |
| <i>Gomphus viridifrons</i> | Green-faced clubtail | G3G4 | S2 | | |
| <i>Helocordulia selysii</i> | Selys' sundragon | G4 | S2S3 | | |
| <i>Ladona exusta</i> = <i>Libellula exusta</i> | White corporal skimmer | G4 | SH | | |
| <i>Ladona julia</i> = <i>Libellula julia</i> | Chalk-fronted corporal skimmer | G5 | S1S2 | | |
| <i>Lanthus parvulus</i> | Northern pygmy clubtail | G4 | S2 | | |
| <i>Leucorrhinia frigida</i> | Frosted whiteface | G5 | SH | | |

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| Dragonflies (continued) | | | | | |
| <i>Leucorrhinia hudsonica</i> | Hudsonian whiteface | G5 | S1 | | |
| <i>Leucorrhinia proxima</i> | Red-waisted whiteface | G5 | SH | | |
| <i>Macrodiplox balteata</i> | Marl pennant | G5 | S1 | | |
| <i>Macromia alleghaniensis</i> | Allegheny river cruiser | G4 | S2 | | |
| <i>Macromia margarita</i> | Mountain river cruiser | G3 | S1 | | |
| <i>Nannothemis bella</i> | Elfin skimmer | G4 | S1 | | |
| <i>Neurocordulia virginiensis</i> | Cinnamon shadowdragon | G4 | S2 | | |
| <i>Neurocordulia yamaskanensis</i> | Stygian shadowdragon | G5 | S2 | | |
| <i>Ophiogomphus aspersus</i> | Brook snaketail | G4 | S2 | | |
| <i>Ophiogomphus carolus</i> | Riffle snaketail | G5 | S1 | | |
| <i>Ophiogomphus howei</i> | Pygmy snaketail | G3 | S1S2 | | |
| <i>Ophiogomphus incurvatus alleghaniensis</i> | Allegheny snaketail | G2G3T2T3 | S1 | | |
| = <i>Ophiogomphus alleghaniensis</i> | | | | | |
| <i>Ophiogomphus incurvatus incurvatus</i> | Appalachian snaketail | G2G3T2T3 | S2 | | |
| <i>Ophiogomphus mainensis</i> | Maine snaketail | G4 | S1 | | |
| <i>Ophiogomphus</i> sp. 1 | Chesapeake snaketail | G1 | S1 | | |
| <i>Rhionaeschna mutata</i> | Spatterdock damer | G4 | S2 | | |
| = <i>Aeshna mutata</i> | | | | | |
| <i>Somatochlora elongata</i> | Ski-tipped emerald | G5 | S1S2 | | |
| <i>Somatochlora filosa</i> | Fine-lined emerald | G5 | S2 | | |
| <i>Somatochlora georgiana</i> | Coppery emerald | G3G4 | SH | | |
| <i>Somatochlora provocans</i> | Treetop emerald | G4 | S2 | | |
| <i>Somatochlora williamsoni</i> | Williamson's emerald | G5 | SH | | |
| <i>Stylogomphus sigmastylus</i> | Interior least clubtail | G5 | S1 | | |
| <i>Stylurus amnicola</i> | Riverine clubtail | G4 | S1 | | |
| <i>Stylurus laurae</i> | Laura's clubtail | G4 | S2 | | |
| <i>Stylurus notatus</i> | Elusive clubtail | G3 | S1 | | |
| <i>Stylurus scudderi</i> | Zebra clubtail | G4 | S1S2 | | |
| <i>Sympetrum corruptum</i> | Variegated meadowhawk | G5 | S1 | | |
| <i>Sympetrum janeae</i> | Jane's meadowhawk | G5 | S1 | | |
| = <i>Sympetrum internum</i> ? | | | | | |
| <i>Sympetrum obtrusum</i> | White-faced meadowhawk | G5 | S2 | | |
| PLECOPTERA (STONEFLIES) | | | | | |
| <i>Acroneuria flinti</i> | Manassas stonefly | GH | SH | | |
| <i>Acroneuria kosztarabi</i> | Virginia stonefly | G1 | S1 | | |
| <i>Acroneuria yuchi</i> | Yuchi stonefly | G1G3 | S1S3 | | |
| <i>Allocapnia fumosa</i> | Smokies snowfly | G2 | S1S2 | | |
| <i>Allocapnia illinoensis</i> | Illinois snowfly | G3 | S1S3 | | |
| <i>Allocapnia simmonsii</i> | Spatulate snowfly | G3 | S1S2 | | |
| <i>Allocapnia stannardi</i> | Blue Ridge snowfly | G3 | S1S3 | | |
| <i>Alloperla banksi</i> | Tufted sallfly | G4 | S1S3 | | |
| <i>Alloperla biserrata</i> | Dusky sallfly | G3 | S2S3 | | |
| <i>Alloperla ideii</i> | Vernal sallfly | G3 | S1S3 | | |
| <i>Alloperla nanina</i> | Swannanoa sallfly | G4 | S1S3 | | |
| <i>Alloperla neglecta</i> | Tennessee sallfly | G3 | S1S2 | | |
| <i>Bolotoperla rossi</i> | Smoky willowfly | G4 | S1S3 | | |
| <i>Cultus decisis isolatus</i> | Southern springfly | G4T2 | S1S2 | | |
| <i>Diploperla kanawholensis</i> | Kanawhole springfly | G3 | S1S3 | | |
| <i>Diploperla morgani</i> | Virginia springfly | G3 | S2 | | |
| <i>Hansonoperla appalachia</i> | Appalachian stonefly | G3 | S1S3 | | |
| <i>Isogenoides varians</i> | Rock Island springfly | G3G4 | S1S3 | | |
| <i>Isoperla major</i> | Big stripetail stonefly | G1 | S1 | | |
| <i>Leuctra mitchellensis</i> | Mitchell needelfly | G3 | S1S2 | | |
| <i>Leuctra monticola</i> | Montane needelfly | G1Q | S1 | | |

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| Stoneflies (continued) | | | | | |
| <i>Megaleuctra flinti</i> | Shenandoah needelfly | G2 | S2 | | |
| <i>Megaleuctra williamsae</i> | Smokies needelfly | G2 | S1S2 | | |
| <i>Ostrocerca complexa</i> | Notched forestfly | G4 | S1S3 | | |
| <i>Ostrocerca prolongata</i> | Bent forestfly | G3 | S1S3 | | |
| <i>Paragnetina ichusa</i> | Widecollar stonefly | G3 | S1S3 | | |
| <i>Perlesta cranshawi</i> | A stonefly | G1 | S1? | | |
| <i>Perlesta frisoni</i> | Blue Ridge stonefly | G3 | S1S2 | | |
| <i>Perlesta roblei</i> | Dragon Run stonefly | G3 | S1S3 | | |
| <i>Perlesta teaysia</i> | Teays stonefly | G3 | S1S3 | | |
| <i>Prostoia hallasi</i> | Swamp forestfly | G3 | S1S3 | | |
| <i>Pteronarcys comstocki</i> | Spiny salmonfly | G3 | S1S3 | | |
| <i>Pteronarcys scotti</i> | Carolina salmonfly | G4 | S1S3 | | |
| <i>Remenus kirchneri</i> | Blue Ridge springfly | G2 | S2 | | |
| <i>Strophopteryx limata</i> | Newfound willowfly | G3 | S1S2 | | |
| <i>Sweltsa holstonensis</i> | Holston sallfly | G1 | S1 | | |
| <i>Sweltsa voshelli</i> | Virginia sallfly | G3 | S2 | | |
| <i>Taeniopteryx nelsoni</i> | Cryptic willowfly | G1 | S1 | | |
| <i>Tallaperla cornelia</i> | Southeastern roachfly | G4 | S1S3 | | |
| <i>Tallaperla lobata</i> | Lobed roachfly | G2 | S1S2 | | |
| <i>Yugus arinus</i> | Highlands springfly | G3 | S1S3 | | |
| ORTHOPTERA (GRASSHOPPERS, KATYDIDS, CRICKETS & RELATIVES) | | | | | |
| <i>Appalachia hebardii</i> | Appalachian grasshopper | GH | SH | | |
| <i>Melanoplus pachycercus</i> | A spur-throat grasshopper | G2G3 | S1S3 | | |
| HETEROPTERA (TRUE BUGS) | | | | | |
| <i>Acantholomidea denticulata</i> | A shield bug | G? | SH | | |
| <i>Allopodops mississippiensis</i> | Mississippi turtle bug | G2G3 | SH | | |
| <i>Bothynotus johnstoni</i> | A mirid bug | G3 | S1S3 | | |
| <i>Botocudo modestus</i> | A seed bug | G5 | S1S3 | | |
| <i>Chelinidea vittiger</i> | Opuntia squash bug | G3G5 | SH? | | |
| <i>Chlorochroa dismalia</i> | Dismal Swamp green stink bug | GU | S1S3 | | |
| <i>Ctenotrachelus shermani</i> | Combneck assassin bug | G3 | S1S3 | | |
| <i>Elasmotethus atricornis</i> | Hercules club stink bug | G3? | S1S3 | | |
| <i>Eurygaster alternata</i> | A shield bug | G5 | SH | | |
| <i>Galgupha denudata</i> | A shield bug | G3 | S1S3 | | |
| <i>Gnathobleda litigiosa</i> | An assassin bug | G5 | S1 | | |
| <i>Isthmocorius piceus</i> | Black stalk-eyed bug | G5 | S1S2 | | |
| <i>Limnopus dissortis</i> | A water strider | G5 | S1 | | |
| <i>Melanaethus cavicollis</i> | A burrower bug | G4 | S1S3 | | |
| <i>Oncozygia clavicornis</i> | A turtle bug | G3 | SH | | |
| <i>Ploiaria carolina</i> | Carolina thread-legged bug | G4? | S1S3 | | |
| <i>Ploiaria hirticornis</i> | An assassin bug | G3? | S1S3 | | |
| <i>Pnirontis brimleyi</i> | Brimley's assassin bug | G2 | S1S3 | | |
| <i>Pycnoderiella virginiana</i> | Seashore plant bug | GU | SU | | |
| <i>Ramphocorixa acuminata</i> | Acuminate water boatman | G4 | S1 | | |
| <i>Ranatra drakei</i> | Drake's water scorpion | G4 | S1S3 | | |
| <i>Sigara depressa</i> | Virginia Piedmont water boatman | G1G2 | S1S2 | | LE |
| <i>Stachyocnemus apicalis</i> | Sandpit alydid bug | G4 | SH | | |
| <i>Stenocoris tipuloides</i> | Neotropical rice bug | G5 | S1S3 | | |
| HOMOPTERA (CICADAS, LEAFHOPPERS & RELATIVES) | | | | | |
| <i>Puto kosztarabi</i> | Buffalo Mountain mealybug | G1 | S1 | | LE |

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| COLEOPTERA (BEETLES) | | | | | |
| <i>Anthophylax hoffmani</i> | A longhorned beetle | G? | S1S3 | | |
| <i>Arianops jeanneli</i> | A cave pselaphid beetle | G1 | S1 | | |
| <i>Atheta annexa</i> | A rove beetle | G4 | S2 | | |
| <i>Atheta troglodila</i> | A rove beetle | G1 | S1 | | |
| <i>Calligrapha pirsra</i> | A leaf beetle | G3 | S1S3 | | |
| <i>Cicindela abdominalis</i> | Eastern pine barrens tiger beetle | G4 | S1 | | |
| <i>Cicindela ancocisconensis</i> | Appalachian tiger beetle | G3 | S2 | | |
| <i>Cicindela dorsalis dorsalis</i> | Northeastern beach tiger beetle | G4T2 | S2 | LT | LT |
| <i>Cicindela formosa generosa</i> | Big sand tiger beetle | G5T5 | SH | | |
| <i>Cicindela gratiosa</i> | Whitish tiger beetle | G5 | S1 | | |
| <i>Cicindela lepida</i> | Ghost tiger beetle | G3G4 | S1 | | |
| <i>Cicindela limbalis</i> | Common claybank tiger beetle | G5 | S1 | | |
| <i>Cicindela patruela</i> | Northern barrens tiger beetle | G3 | S2 | | |
| <i>Cicindela trifasciata</i> | S-banded tiger beetle | G5 | S1 | | |
| <i>Copris howdeni</i> | Howden's Copris scarab beetle | G3? | S1 | | |
| <i>Cyclotrachelus incisus</i> | A ground beetle | G4 | S1 | | |
| <i>Dicranopselaphus variegatus</i> | Variegated false water penny beetle | G1G3 | S1S3 | | |
| <i>Dryobius sexnotatus</i> | Six-banded longhorn beetle | G? | S2? | | |
| <i>Eucaerus varicornis</i> | A ground beetle | G4? | S1S3 | | |
| <i>Hemipeplus microphthalmus</i> | A flat bark beetle | G4? | S1 | | |
| <i>Hydraena maureenae</i> | Maureen's shale stream beetle | G2? | S2? | | |
| <i>Laccophilus schwarzi</i> | Schwarz' diving beetle | G? | S1S3 | | |
| <i>Lordithon niger</i> | Black Lordithon rove beetle | GU | SH | | |
| <i>Nicrophorus americanus</i> | American burying beetle | G2G3 | SH | LE | |
| <i>Nicrophorus carolinus</i> | Carolina burying beetle | G4? | S1S3 | | |
| <i>Pentagonica picticornis</i> | A ground beetle | G? | S1S3 | | |
| <i>Phanaeus igneus</i> | A scarab beetle | G5 | S1 | | |
| <i>Pseudanophthalmus avernus</i> | Avernus cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus cordicollis</i> | Little Kennedy Cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus deceptivus</i> | Deceptive cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus delicatus</i> | Delicate cave beetle | G3G4 | S2 | | |
| <i>Pseudanophthalmus egberti</i> | New River Valley cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus gracilis</i> | A cave beetle | G1G2 | S1S2 | | |
| <i>Pseudanophthalmus hirsutus</i> | Cumberland Gap cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus hoffmani</i> | Hoffman's cave beetle | G2G3 | S1S2 | | |
| <i>Pseudanophthalmus holsingeri</i> | Holsinger's cave beetle | G1 | S1 | | LE |
| <i>Pseudanophthalmus hortulanus</i> | Burkes Garden cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus hubbardi</i> | Hubbard's cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus hubrichti</i> | Hubricht's cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus intersectus</i> | Crossroads Cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus limicola</i> | Maddens Cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus longiceps</i> | Long-headed cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus nelsoni</i> | Nelson's cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus parvicollis</i> | Hupp's Hill cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus petrunkevitchi</i> | Petrunkevitch's cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus pontis</i> | Natural Bridge cave beetle | G1 | SH | | |
| <i>Pseudanophthalmus potomaca</i> | South Branch Valley cave beetle | G3G4 | S2 | | |
| <i>Pseudanophthalmus praetermissus</i> | Overlooked cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus punctatus</i> | Spotted cave beetle | G2G3 | S1 | | |
| <i>Pseudanophthalmus pusio</i> | A cave beetle | G2G3 | S1S2 | | |
| <i>Pseudanophthalmus quadratus</i> | Straley's Cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus rotundatus</i> | Rotund cave beetle | G2G3 | S1 | | |
| <i>Pseudanophthalmus sanctipauli</i> | Saint Paul cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus seclusus</i> | Rye Cove cave beetle | G2G3 | S2 | | |
| <i>Pseudanophthalmus sericus</i> | Silken cave beetle | G1 | S1 | | |

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| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|--|-------------------------------------|-------------|------------|----------------|--------------|
| Beetles (continued) | | | | | |
| <i>Pseudanophthalmus thomasi</i> | Thomas' cave beetle | G1G2 | S1 | | |
| <i>Pseudanophthalmus vicarius</i> | Vicariant cave beetle | G2G3 | S1S2 | | |
| <i>Pseudanophthalmus virginicus</i> | Maiden Spring cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 4 = <i>P.</i> sp. A (<i>jonesi</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 5 = <i>P.</i> sp. A (<i>petrunkevitchi</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 6 = <i>P.</i> sp. B (<i>petrunkevitchi</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 7 = <i>P.</i> sp. C (<i>petrunkevitchi</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 8 = <i>P.</i> sp. A (<i>hubbardi</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 9 = <i>P.</i> sp. A (<i>hubrichti</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 10 = <i>P.</i> sp. B (<i>hubrichti</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 11 = <i>P.</i> sp. A (<i>pusio</i> group) | A cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 12 = <i>P.</i> sp. B (<i>pusio</i> group) | Catawba Cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 13 = <i>P.</i> sp. B (<i>hubbardi</i> group) | McMullan Cave beetle | G1 | S1 | | |
| <i>Pseudanophthalmus</i> sp. 14 = <i>P.</i> sp. C (<i>pusio</i> group) | Karl's Pit cave beetle | G1 | S1 | | |
| <i>Pseudaptinus lecontei</i> | A ground beetle | G? | S1S3 | | |
| <i>Sosylus costatus</i> | A beetle | G? | S1S3 | | |
| <i>Sphaeroderus schaumii</i> = <i>Sphaeroderus nitidicollis schaumii</i> | Schaum's false snail-eating beetle | G4 | S2 | | |
| <i>Stenelmis gammoni</i> | Gammon's riffle beetle | G1G3 | S1 | | |
| <i>Stenocorus schaumii</i> | Schaum's longhorn beetle | G? | S1S3 | | |
| <i>Thalpius pygmaeus</i> = <i>Pseudaptinus pygmaeus</i> | A ground beetle | G? | S1 | | |
| MECOPTERA (SCORPIONFLIES) | | | | | |
| <i>Boreus nivoriundus</i> | A snow scorpionfly | G4 | S1S2 | | |
| <i>Brachypanorpa jeffersoni</i> | Jefferson's short-nosed scorpionfly | G2 | S1S2 | | |
| TRICHOPTERA (CADDISFLIES) | | | | | |
| <i>Adicrophleps hitchcocki</i> | A brachycentrid caddisfly | G4G5 | S1S3 | | |
| <i>Agapetus minutus</i> | A glossosomatid caddisfly | G4G5 | S1S3 | | |
| <i>Agapetus tonus</i> | A glossosomatid caddisfly | G5 | S1S3 | | |
| <i>Agraylea costello</i> | A microcaddisfly | G3 | S1S2 | | |
| <i>Agraylea multipunctata</i> | A microcaddisfly | G5 | SH | | |
| <i>Anabolia apora</i> | A limnephilid caddisfly | G1G3 | S1S3 | | |
| <i>Arctopsyche irrorata</i> | A hydropsychid caddisfly | G4 | S1 | | |
| <i>Brachycentrus incanus</i> | A brachycentrid caddisfly | G5 | SH | | |
| <i>Ceraclea neffi</i> | A leptocerid caddisfly | G5 | S1S3 | | |
| <i>Ceraclea punctata</i> | A leptocerid caddisfly | G5 | S1S3 | | |
| <i>Ceraclea ruthae</i> | A leptocerid caddisfly | G4 | S1 | | |
| <i>Ceraclea spongillovorax</i> | A leptocerid caddisfly | G3G4 | S1S3 | | |
| <i>Ceraclea uvalo</i> | A leptocerid caddisfly | G2G4 | S1S3 | | |
| <i>Ceratopsyche etnieri</i> | Buffalo Springs caddisfly | G2 | S1S2 | | |
| <i>Ceratopsyche macleodi</i> | A hydropsychid caddisfly | G3G4 | S1S2 | | |

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| Caddisflies (continued) | | | | | |
| <i>Cernotina calcea</i> | A polycentropodid caddisfly | G5 | S1 | | |
| <i>Cernotina pallida</i> | A polycentropodid caddisfly | G3G4 | SH | | |
| <i>Cernotina trunca</i> | A polycentropodid caddisfly | G4 | S1 | | |
| <i>Cheumatopsyche etrona</i> | A hydropsychid caddisfly | G4G5 | S1 | | |
| <i>Cheumatopsyche speciosa</i> | A hydropsychid caddisfly | G5 | SH | | |
| <i>Cheumatopsyche virginica</i> | A hydropsychid caddisfly | G5 | S1 | | |
| <i>Goerita semata</i> | A caddisfly | G3 | S1 | | |
| <i>Glossosoma lividum</i> | A glossosomatid caddisfly | G5 | S1S2 | | |
| <i>Heteroplectron americanum</i> | A caddisfly | G5 | S2 | | |
| <i>Homoplectra monticola</i> | A hydropsychid caddisfly | G2G3 | S2S3 | | |
| <i>Hydropsyche bassi</i> | A hydropsychid caddisfly | G2 | S2 | | |
| <i>Hydropsyche frisoni</i> | A hydropsychid caddisfly | G5 | S1S3 | | |
| <i>Hydropsyche potomacensis</i> | A hydropsychid caddisfly | G2G3 | S2S3 | | |
| <i>Hydropsyche rotosa</i> | A hydropsychid caddisfly | G2G3 | S2S3 | | |
| <i>Hydroptila acadia</i> | A microcaddisfly | GU | S1? | | |
| <i>Hydroptila anisoforicata</i> | A microcaddisfly | G1G2 | S1S2 | | |
| <i>Hydroptila artesia</i> | A microcaddisfly | G2G3 | S1? | | |
| <i>Hydroptila coweetensis</i> | A microcaddisfly | G1G2 | S1S2 | | |
| <i>Hydroptila dentata</i> | A microcaddisfly | G3G4 | S1S3 | | |
| <i>Hydroptila eramosa</i> | A microcaddisfly | G1G3 | S1S3 | | |
| <i>Hydroptila lonchera</i> | A microcaddisfly | G2G3 | S1S3 | | |
| <i>Hydroptila maculata</i> | A microcaddisfly | G3G4 | SH | | |
| <i>Hydroptila spinata</i> | A microcaddisfly | G4 | S1S2 | | |
| <i>Hydroptila tortosa</i> | A microcaddisfly | G4G5 | SH | | |
| <i>Ironoquia lyrata</i> | A limnephilid caddisfly | G5 | S1S3 | | |
| <i>Lepidostoma bryanti</i> | A lepidostomatid caddisfly | G5 | S1S3 | | |
| <i>Lepidostoma carrolli</i> | A lepidostomatid caddisfly | G5 | S1S3 | | |
| <i>Lepidostoma mitchelli</i> | A lepidostomatid caddisfly | G3G4 | S1S3 | | |
| <i>Lepidostoma ontario</i> | A lepidostomatid caddisfly | G5 | S1S3 | | |
| <i>Lepidostoma serratum</i> | A lepidostomatid caddisfly | G3G4 | S1S3 | | |
| <i>Micrasema sprulesi</i> | A brachycentrid caddisfly | G5 | S1S3 | | |
| <i>Molanna tryphena</i> | A molannid caddisfly | G5 | S1S2 | | |
| <i>Molanna uniophila</i> | A molannid caddisfly | G5 | S1S2 | | |
| <i>Nemotaulius hostilis</i> | A limnephilid caddisfly | G5 | S1 | | |
| <i>Neophylax acutus</i> | A uenoid caddisfly | G2G3 | S1S3 | | |
| <i>Neophylax atlanta</i> | A uenoid caddisfly | G2G4 | SH | | |
| <i>Neophylax etnieri</i> | A uenoid caddisfly | G3 | S1S3 | | |
| <i>Neophylax toshioi</i> | A uenoid caddisfly | G1G2 | S1S2 | | |
| <i>Ochrotrichia denningi</i> | A microcaddisfly | G2G4 | S1S3 | | |
| <i>Ochrotrichia graysoni</i> | A microcaddisfly | G3G4 | S1S3 | | |
| <i>Oligostomis pardalis</i> | A phryganeid caddisfly | G5 | S1S2 | | |
| <i>Oxyethira dualis</i> | A microcaddisfly | G5 | SH | | |
| <i>Oxyethira pescadori</i> | A microcaddisfly | G1G3 | S1S2 | | |
| <i>Parapsyche cardis</i> | A hydropsychid caddisfly | G4 | S2 | | |
| <i>Phylocentropus auriceps</i> | A caddisfly | G3G4 | S2 | | |
| <i>Phylocentropus carolinus</i> | A caddisfly | G5 | S2 | | |
| <i>Polycentropus centralis</i> | A polycentropodid caddisfly | G5 | S1S2 | | |
| <i>Polycentropus pixi</i> | A polycentropodid caddisfly | G4 | S1S2 | | |
| <i>Potamyia flava</i> | A hydropsychid caddisfly | G5 | SH | | |
| <i>Rhyacophila appalachia</i> | Appalachian rhyacophilid caddisfly | G3 | S2 | | |
| <i>Rhyacophila atrata</i> | A rhyacophilid caddisfly | G5 | S2 | | |
| <i>Rhyacophila kondratieffi</i> | A rhyacophilid caddisfly | G2G3 | S2S3 | | |
| <i>Rhyacophila mainensis</i> | A rhyacophilid caddisfly | G5 | S1S2 | | |
| <i>Rhyacophila mycta</i> | A rhyacophilid caddisfly | G3 | S1S2 | | |
| <i>Rhyacophila teddyi</i> | A rhyacophilid caddisfly | G2G3 | S2 | | |
| <i>Rhyacophila simmonsii</i> | A rhyacophilid caddisfly | G1G3 | S1S3 | | |

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| Caddisflies (continued) | | | | | |
| <i>Rhyacophila tricornuta</i> | A rhyacophilid caddisfly | G1G3 | S1S3 | | |
| <i>Setodes guttatus</i> | A leptocerid caddisfly | G5 | S1S3 | | |
| <i>Theliopsyche grisea</i> | A lepidostomatid caddisfly | G4 | S1S3 | | |
| <i>Theliopsyche melas</i> | A lepidostomatid caddisfly | G4G5 | S1S3 | | |
| <i>Trienodes dipsius</i> | A leptocerid caddisfly | G5 | S1S3 | | |
| <i>Trienodes taenia</i> | A leptocerid caddisfly | G3G4 | S1S3 | | |
| <i>Wormaldia mohri</i> | A philopotamid caddisfly | G2G3 | S1 | | |
| <i>Wormaldia thyria</i> | A philopotamid caddisfly | G3 | S2 | | |
| LEPIDOPTERA (BUTTERFLIES, SKIPPERS & MOTHS) | | | | | |
| Butterflies | | | | | |
| <i>Anaea andria</i> | Goatweed leafwing | G5 | S1 | | |
| <i>Boloria selene</i> | Silver-bordered fritillary | G5 | S2 | | |
| <i>Calephelis borealis</i> | Northern metalmark | G3G4 | S2S3 | | |
| <i>Calephelis virginiensis</i> | Little metalmark | G4 | S1 | | |
| <i>Callophrys hesseli</i> | Hessel's hairstreak | G3G4 | S1 | | |
| = <i>Mitoura hesseli</i> | | | | | |
| <i>Callophrys irus</i> | Frosted elfin | G3 | S2? | | |
| = <i>Incisalia irus</i> , <i>Deciduphagus irus</i> | | | | | |
| <i>Callophrys polios</i> | Hoary elfin | G5 | S1S3 | | |
| = <i>Incisalia polios</i> , <i>Deciduphagus polios</i> | | | | | |
| <i>Chlosyne harrisii</i> | Harris's checkerspot | G4 | S1 | | |
| <i>Colias interior</i> | Pink-edged sulphur | G5 | S1S2 | | |
| <i>Erora laeta</i> | Early hairstreak | G3G4 | S2 | | |
| <i>Euchloe olympia</i> | Olympia marble | G4G5 | S2 | | |
| <i>Lycaena hyllus</i> | Bronze copper | G5 | S1 | | |
| <i>Neonympha helicta</i> | Helicta satyr | G3G4 | S2 | | |
| = <i>Neonympha areolatus septentrionalis</i> | | | | | |
| <i>Neonympha mitchellii</i> | Mitchell's satyr | G1G2 | S1 | LE | LE |
| <i>Phyciodes batesii batesii</i> | Tawny crescent | G4T1 | SH | | |
| <i>Phyciodes cocyta</i> | Northern crescent | G5 | S1S3 | | |
| = <i>Phyciodes pascoensis</i> , <i>Phyciodes selenis</i> | | | | | |
| <i>Polygonia faunus smythi</i> | Smyth's green comma | G5T3T4 | S1S3 | | |
| <i>Satyrrium kingi</i> | King's hairstreak | G3G4 | S2 | | |
| <i>Speyeria atlantis</i> | Atlantis fritillary | G5 | S2 | | |
| <i>Speyeria idalia</i> | Regal fritillary | G3 | S1 | | |
| Skippers | | | | | |
| <i>Amblyscirtes alternata</i> | Dusky roadside skipper | G2G4 | S1 | | |
| <i>Atrytone arogos arogos</i> | Arogos skipper | G3T1T2 | SH | | |
| <i>Erynnis lucilius</i> | Columbine duskywing | G4 | S1S3 | | |
| <i>Erynnis martialis</i> | Mottled duskywing | G3G4 | S1S3 | | |
| <i>Erynnis persius persius</i> | Persius duskywing | G5T1T3 | S1 | | |
| <i>Euphyes bimacula</i> | Two-spotted skipper | G4 | S2 | | |
| <i>Euphyes conspicua</i> | Black dash | G4 | S1S3 | | |
| <i>Euphyes dukesi</i> | Dukes' skipper | G3 | S2 | | |
| <i>Euphyes pilatka</i> | Palatka skipper (= sawgrass skipper) | G3G4 | SH | | |
| <i>Hesperia attalus slossonae</i> | Seminole skipper (= dotted skipper) | G2G4T2T3 | SH | | |
| <i>Megathymus yuccae</i> | Yucca giant skipper | G5 | SH | | |
| <i>Polites mystic</i> | Long dash | G5 | S2 | | |
| <i>Problema bulenta</i> | Rare skipper | G2G3 | S1S2 | | |
| <i>Pyrgus centaureae wyandot</i> | Appalachian grizzled skipper | G5T1T2 | S1 | | LT |
| = <i>Pyrgus wyandot</i> | | | | | |

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| Moths | | | | | |
| <i>Acherdoa ferraria</i> | Chocolate moth | G5 | S2 | | |
| <i>Acrapex relictia</i> | Cane-boring moth | G4 | S2S3 | | |
| <i>Acronicta albarufa</i> | Barrens dagger moth | G3G4 | S1S3 | | |
| <i>Acronicta brumosa</i> | A dagger moth | G4? | S1 | | |
| <i>Acronicta dolli</i> = <i>Merolonche dolli</i> | Doll's dagger moth | G3G4 | S1S3 | | |
| <i>Amolita roseola</i> | Roseate grass moth | G5 | S1S3 | | |
| <i>Anaplectoides brunneomedia</i> | Brown-lined dart moth | G4 | S2 | | |
| <i>Apamea smythi</i> | Smyth's Apamea moth | GH | SH | | |
| <i>Aplectoides condita</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Argillophora furcilla</i> | A cane moth | G3G4 | S1S3 | | |
| <i>Argyrostromis deleta</i> | A noctuid moth | G4G5 | S1S3 | | |
| <i>Argyrostromis sylvorum</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Arugisa latiorella</i> = <i>Arugisa watsoni</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Brachionycha borealis</i> | Boreal fan moth | G4 | S1S3 | | |
| <i>Callosamia securifera</i> | Sweetbay silkmoth | G4 | S1S2 | | |
| <i>Catocala consors</i> | Consort underwing | G4 | SH | | |
| <i>Catocala dulciola</i> | Sweet underwing | G3 | S1S3 | | |
| <i>Catocala herodias gerhardi</i> | Pine barrens underwing | G3T3 | S2S3 | | |
| <i>Catocala marmorata</i> | Marbled underwing | G3G4 | S2 | | |
| <i>Catocala messalina</i> | Messalina underwing | G4 | SH | | |
| <i>Catocala pretiosa pretiosa</i> | Precious underwing | G4T2 | SH | | |
| <i>Catocala relictia</i> | White underwing | G5 | S2 | | |
| <i>Catocala ulalume</i> | Ulalume underwing | G4 | S1S3 | | |
| <i>Cerma cora</i> | Owl-eyed Bird Dropping Moth | G3G4 | S1S3 | | |
| <i>Crambidia cephalica</i> | Yellow-headed lichen moth | G5 | S1S2 | | |
| <i>Cycnia inopinatus</i> | Unexpected Cycnia moth | G4 | S1S3 | | |
| <i>Cymatophora approximaria</i> | A geometrid moth | G4G5 | S1S3 | | |
| <i>Dichagyris grotei</i> = <i>Loxagrotis apicalis</i> , <i>Richia grotei</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Drasteria graphica</i> | Graphic moth | G4 | S2S3 | | |
| <i>Emarginea percara</i> | A noctuid moth | G4 | S2 | | |
| <i>Erastria coloraria</i> | Broad-lined Erastria moth | G3G4 | S2? | | |
| <i>Euchlaena milnei</i> | Milne's Euchlaena moth | G2G4 | S2 | | |
| <i>Eulithis propulsata</i> | A geometrid moth | G? | S1S3 | | |
| <i>Euxoa fumalis</i> | A dart moth | G? | S1S3 | | |
| <i>Euxoa immixta</i> | Mixed dart moth | G4 | S1S3 | | |
| <i>Faronta rubripennis</i> | Pink-streak moth | G3G4 | S1S3 | | |
| <i>Franclemontia interrogans</i> | A cane moth | G3G4 | S1S3 | | |
| <i>Givira francesca</i> | A carpenterworm moth | G4? | S1 | | |
| <i>Hadena ectypa</i> | A noctuid moth | G3G4 | S2 | | |
| <i>Heterocampa astarte</i> | A prominent moth | G4G5 | S1S2 | | |
| <i>Hyppa contrasta</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Idaea taturata</i> | A geometrid moth | G4 | S1S2 | | |
| <i>Leucania calidior</i> | A cane moth | G2G4 | S2 | | |
| <i>Lithophane adipel</i> = <i>Lithophane lepida adipel</i> | A pinion moth | G4 | S1S3 | | |
| <i>Lithophane lemmeri</i> | Lemmer's pinion moth | G3G4 | S1S3 | | |
| <i>Loscopia roblei</i> | A cane moth | G3G4 | S1S2 | | |
| <i>Lytrosis permagnaria</i> | A geometrid moth | G3G4 | S2 | | |
| <i>Meropleon cosmion</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Meropleon titan</i> | A noctuid moth | G2G4 | S1S3 | | |
| <i>Metarranthis</i> sp. 1 | A geometrid moth | G3 | S1S3 | | |
| <i>Metria amella</i> | A noctuid moth | G5 | S1S2 | | |

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| Moths (continued) | | | | | |
| <i>Nemoria elfa</i> | Elfin emerald | G? | S1S3 | | |
| <i>Nemoria tuscarora</i> | Tuscarora emerald | GU | S1S3 | | |
| <i>Odontotia elegans</i> | Elegant prominent | G5 | S1S3 | | |
| <i>Oxycilla mitographa</i> | A noctuid moth | G4 | SH | | |
| <i>Paectes abrostolella</i> | A noctuid moth | G4 | S1S2 | | |
| <i>Papaipema araliae</i> | Aralia shoot borer moth | G3G4 | S2S3 | | |
| <i>Papaipema astuta</i> | Yellow stoneroot borer moth | G2G3 | S1S3 | | |
| <i>Papaipema duovata</i> | Seaside goldenrod borer moth | G4 | S2S3 | | |
| <i>Papaipema duplicatus</i> | Dark stoneroot borer moth | G2G4 | S2 | | |
| <i>Papaipema necopina</i> | Sunflower borer moth | G4? | S1S3 | | |
| <i>Papaipema speciosissima</i> | Osmunda borer moth | G4 | S1S3 | | |
| <i>Papaipema stenocelis</i> | Chain fern borer moth | G4 | S1S3 | | |
| <i>Papaipema</i> sp. 3 | Southeastern cane borer moth | G4 | S2S3 | | |
| <i>Properigea costa</i> | A noctuid moth | G4 | S2 | | |
| <i>Protodeltote</i> sp. 1 | A noctuid moth | G1G3 | S1S2 | | |
| <i>Psectrotarsia hebardii</i> = <i>Erythroecia hebardii</i> | Hebard's noctuid moth | GU | SH | | |
| <i>Ptichodis bistrigata</i> | Southern Ptichodis moth | G3 | S1S3 | | |
| <i>Pygarctia abdominalis</i> | Yellow-edged Pygarctia moth | G3 | S1S2 | | |
| <i>Pyrrhia aurantiago</i> = <i>Rhodoecia aurantiago</i> | Aureolaria seed borer moth | G4 | S1S3 | | |
| <i>Schinia siren</i> = <i>Schinia inclara</i> | A flower moth | G? | S1S2 | | |
| <i>Schizura apicalis</i> | Plain Schizura moth | G3G4 | S1S3 | | |
| <i>Semiothisa distribuararia</i> | A geometrid moth | G4 | S1S2 | | |
| <i>Speranza exonerata</i> | Barrens Speranza moth | G3G4 | S1S3 | | |
| <i>Speranza ribearia</i> = <i>Itame ribearia</i> | Currant spanworm moth | G4 | S2S3 | | |
| <i>Sphinx franckii</i> | Franck's sphinx | G4 | S2S3 | | |
| <i>Sympistis perscripta</i> = <i>Lepipolys perscripta</i> | Scribbled sallow moth | G4 | S1S3 | | |
| <i>Synanthedon castaneae</i> | Chestnut clearwing moth | G3G5 | SH | | |
| <i>Synggrapha rectangula</i> | Salt-and-pepper looper moth | G5 | S2 | | |
| <i>Tischeria perplexa</i> | Chestnut leaf-mining moth | GHQ | SH | | |
| <i>Tricholita notata</i> | Marked Tricholita moth | G5 | SH | | |
| <i>Xanthorhoe iduata</i> | A geometrid moth | G4 | S1S3 | | |
| <i>Zale curema</i> | A noctuid moth | G3G4 | S1S3 | | |
| <i>Zale lunifera</i> | Pine barrens Zale moth | G3G4 | S2 | | |
| <i>Zale</i> sp. 2 near <i>squamularis</i> | A Zale moth | G4Q | S1S3 | | |
| <i>Zale</i> sp. 3 near <i>buchholzi</i> | Maritime Zale moth | G3G4 | S2 | | |
| <i>Zanclognatha theralis</i> = <i>Zanclognatha gypsalis</i> | A noctuid moth | G4 | S1S3 | | |
| DIPTERA (TRUE FLIES) | | | | | |
| <i>Basilisa boardmani</i> | Southeastern myotis bat fly | G3 | S1S2 | | |
| <i>Fletcherimyia fletcheri</i> | Pitcher plant fly | G5 | S1S2 | | |
| <i>Metriocnemus knabi</i> | Pitcher plant midge | G5 | S2 | | |
| <i>Spelobia tenebrarum</i> | A cave fly | G5 | S1 | | |
| <i>Wyeomyia smithii</i> = <i>Wyeomyia haynei</i> | Pitcher plant mosquito | G5 | S2 | | |

APPENDIX 1. FEDERALLY ENDANGERED AND THREATENED VERTEBRATE ANIMALS OF VIRGINIA

(exclusive of extirpated species, see Appendix 3)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK* | FEDERAL STATUS | STATE STATUS |
|--|-----------------------------------|-------------|-------------|----------------|--------------|
| VERTEBRATES | | | | | |
| FISH | | | | | |
| <i>Acipenser brevirostrum</i> | Shortnose sturgeon | G3 | SHB/S1N | LE | LE |
| <i>Erimonax monachus</i> = <i>Cyprinella monacha</i> , <i>Hybopsis monacha</i> | Spotfin chub (= turquoise shiner) | G2 | S1 | LT | LT |
| <i>Erimystax cahni</i> = <i>Hybopsis cahni</i> | Slender chub | G1 | S1 | LT | LT |
| <i>Etheostoma percunurum</i> | Duskytail darter | G1 | S1 | LE | LE |
| <i>Noturus flavipinnis</i> | Yellowfin madtom | G1 | S1 | LT | LT |
| <i>Percina rex</i> | Roanoke logperch | G1G2 | S1S2 | LE | LE |
| <i>Phoxinus cumberlandensis</i> | Blackside dace | G2 | S1 | LT | |
| AMPHIBIANS | | | | | |
| <i>Plethodon shenandoah</i> | Shenandoah salamander | G1 | S1 | LE | LE |
| REPTILES | | | | | |
| <i>Caretta caretta</i> | Loggerhead (sea turtle) | G3 | S1B/S1N | LT/PE | LT |
| <i>Chelonia mydas</i> | Green turtle | G3 | SAB/SZN | LT | LT |
| <i>Dermochelys coriacea</i> | Leatherback (sea turtle) | G2 | SZN | LE | LE |
| <i>Eretmochelys imbricata</i> | Atlantic hawksbill (sea turtle) | G3 | SA | LE | LE |
| <i>Glyptemys muhlenbergii</i> = <i>Clemmys muhlenbergii</i> | Bog turtle | G3 | S2 | LT/SA | LE |
| <i>Lepidochelys kempii</i> | Kemp's ridley (sea turtle) | G1 | S1N | LE | LE |
| BIRDS | | | | | |
| <i>Charadrius melodus</i> | Piping Plover | G3 | S2B/S1N | LT | LT |
| <i>Dendroica kirtlandii</i> | Kirtland's Warbler | G1 | SZN | LE | LE |
| <i>Picoides borealis</i> | Red-cockaded Woodpecker | G3 | S1 | LE | LE |
| <i>Sterna dougallii</i> | Roseate Tern | G4 | SHB | LE | LE |
| MAMMALS | | | | | |
| <i>Balaenoptera borealis</i> | Sei whale | G3 | SN? | LE | LE |
| <i>Balaenoptera musculus</i> | Blue whale | G3G4 | SN? | LE | LE |
| <i>Balaenoptera physalus</i> | Fin whale | G3G4 | SZN | LE | LE |
| <i>Corynorhinus townsendii virginianus</i> = <i>Plecotus townsendii virginianus</i> | Virginia big-eared bat | G4T2 | S1 | LE | LE |
| <i>Eubalaena glacialis</i> = <i>Balaena glacialis</i> | Northern right whale | G1 | SZN | LE | LE |
| <i>Glaucomys sabrinus coloratus</i> | Carolina northern flying squirrel | G5T1 | S1 | LE | LE |
| <i>Megaptera novaeangliae</i> | Humpback whale | G3 | S1N | LE | LE |
| <i>Myotis grisescens</i> | Gray myotis (bat) | G3 | S1 | LE | LE |
| <i>Myotis sodalis</i> | Indiana bat (= social myotis) | G2 | S1 | LE | LE |
| <i>Physeter macrocephalus</i> = <i>Physeter catodon</i> | Sperm whale | G3G4 | SA | LE | LE |
| <i>Sciurus niger cinereus</i> | Delmarva Peninsula fox squirrel | G5T3 | S1 | LE | LE |
| <i>Trichechus manatus</i> | West Indian manatee | G2 | SA | LE | LE |

*State ranks applicable only to species on this page (all other ranks were previously defined on page 3):

SA State accidental; not a regular member of the Virginia fauna but recorded in the state at least once.

SAB State accidental breeder; a species that does not normally breed in Virginia, but for which there is at least one confirmed breeding record in the state.

SN? Long distance migrant that has been recorded north and south of Virginia's offshore waters and should eventually be found along the coast of Virginia.

SZN Long distance migrant that occurs in Virginia or its offshore waters for a variable length of time outside of the breeding season; these species do not breed in Virginia and their non-breeding occurrences are not monitored by the Division of Natural Heritage.

APPENDIX 2. FEDERALLY ENDANGERED AND THREATENED INVERTEBRATE ANIMALS OF VIRGINIA
(exclusive of extirpated species, see Appendix 3)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|---|-------------|------------|----------------|--------------|
| INVERTEBRATES | | | | | |
| GASTROPODA (SNAILS) | | | | | |
| <i>Polygyriscus virginianus</i> | Virginia coil (= Virginia fringed mountain snail) | G1 | S1 | LE | LE |
| BIVALVIA (MUSSELS) | | | | | |
| <i>Alasmidonta heterodon</i> | Dwarf wedgemussel | G1G2 | S1 | LE | LE |
| <i>Cyprogenia stegaria</i> = <i>Cyprogenia irrorata</i> | Fanshell | G1 | S1 | LE | LE |
| <i>Dromus dromas</i> | Dromedary pearlymussel | G1 | S1 | LE | LE |
| <i>Epioblasma brevidens</i> | Cumberland combshell | G1 | S1 | LE | LE |
| <i>Epioblasma capsaeformis</i> | Oyster mussel | G1 | S1 | LE | LE |
| <i>Epioblasma florentina walkeri</i> | Tan riffleshell | G1T1 | S1 | LE | LE |
| <i>Fusconaia cor</i> = <i>Fusconaia edgariana</i> | Shiny pigtoe | G1 | S1 | LE | LE |
| <i>Fusconaia cuneolus</i> | Fine-rayed pigtoe | G1 | S1 | LE | LE |
| <i>Hemistena lata</i> = <i>Lastena lata</i> | Cracking pearlymussel | G1 | S1 | LE | LE |
| <i>Lemiox rimosus</i> = <i>Conradilla caelata</i> | Birdwing pearlymussel | G1 | S1 | LE | LE |
| <i>Pegias fabula</i> | Little-winged pearlymussel | G1 | S1 | LE | LE |
| <i>Pleurobema collina</i> | James spinymussel | G1 | S1 | LE | LE |
| <i>Pleurobema plenum</i> | Rough pigtoe | G1 | SH | LE | LE |
| <i>Quadrula cylindrica strigillata</i> | Rough rabbits foot | G3G4T2 | S2 | LE | LE |
| <i>Quadrula intermedia</i> | Cumberland monkeyface | G1 | S1 | LE | LE |
| <i>Quadrula sparsa</i> | Appalachian monkeyface | G1 | S1 | LE | LE |
| <i>Villosa perpurpurea</i> | Purple bean | G1 | S1 | LE | LE |
| CRUSTRACEA (AMPHIPODS, ISOPODS & DECAPODS) | | | | | |
| <i>Antrolana lira</i> | Madison Cave isopod | G2G4 | S2 | LT | LT |
| <i>Lirceus usdagalun</i> | Lee County cave isopod | G2G3 | S1 | LE | LE |
| ARACHNIDA (SPIDERS, PSEUDOSCORPIONS & RELATIVES) | | | | | |
| <i>Microhexura montivaga</i> | Spruce-fir moss spider | G1 | S1 | LE | |
| INSECTA (INSECTS) | | | | | |
| Beetles | | | | | |
| <i>Cicindela dorsalis dorsalis</i> | Northeastern beach tiger beetle | G4T2 | S2 | LT | LT |
| <i>Nicrophorus americanus</i> | American burying beetle | G2G3 | SH | LE | |
| Butterflies | | | | | |
| <i>Neonympha mitchellii</i> | Mitchell's satyr | G1G2 | S1 | LE | LE |

APPENDIX 3. EXTINCT AND EXTIRPATED ANIMALS OF VIRGINIA

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|--|-------------|------------|----------------|--------------|
| VERTEBRATES | | | | | |
| FISH | | | | | |
| <i>Moxostoma lacerum</i> = <i>Lagochila lacera</i> | Harelip sucker | GX | SX | | |
| <i>Percina maculata</i> | Blackside darter | G5 | SX | | |
| <i>Percopsis omiscomaycus</i> | Trout-perch | G5 | SX | | |
| BIRDS | | | | | |
| <i>Conuropsis carolinensis</i> | Carolina parakeet | GX | SX | | |
| <i>Cygnus buccinator</i> | Trumpeter swan | G4 | SXN | | |
| <i>Ectopistes migratorius</i> | Passenger pigeon | GX | SX | | |
| <i>Vermivora bachmanii</i> | Bachman's warbler | GH | SX | LE | LE |
| MAMMALS | | | | | |
| <i>Bos bison</i> = <i>Bison bison</i> | American bison | G4 | SX | | |
| <i>Canis lupus</i> | Gray wolf | G4 | SX | LE | LE |
| <i>Canis rufus</i> | Red wolf | G1 | SX | LE | |
| <i>Cervus canadensis</i> = <i>Cervus elaphus</i> | Wapiti or elk | G5 | SX | | |
| <i>Erethizon dorsatum</i> | North American porcupine | G5 | SX | | |
| <i>Puma concolor cougar</i> = <i>Felis concolor cougar</i> | Eastern cougar (= mountain lion, puma) | G5THQ | SX | LE | LE |
| INVERTEBRATES | | | | | |
| BIVALVIA (MUSSELS) | | | | | |
| <i>Epioblasma haysiana</i> | Acornshell | GX | SX | | |
| <i>Epioblasma lenior</i> | Narrow catspaw | GX | SX | | |
| <i>Epioblasma torulosa gubernaculum</i> | Green-blossom pearlymussel | G2TX | SX | LE | LE |
| <i>Lampsilis abrupta</i> | Pink mucket | G2 | SX | LE | LE |
| <i>Villosa fabalis</i> | Rayed bean | G1G2 | SX | | |
| <i>Villosa trabalis</i> | Cumberland bean | G1 | SX | LE | LE |

APPENDIX 4. NATURAL HERITAGE VERTEBRATE WATCH LIST

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|----------------------------------|-------------|------------|----------------|--------------|
| FISH | | | | | |
| <i>Ambloplites cavifrons</i> | Roanoke bass | G3 | S3 | | SC |
| <i>Chologaster cornuta</i> | Swampfish | G5 | S3 | | |
| <i>Enneacanthus obesus</i> | Banded sunfish | G5 | S3 | | |
| <i>Erimystax dissimilis</i> = <i>Hybopsis dissimilis</i> | Streamline chub | G4 | S3 | | |
| <i>Erimystax insignis</i> = <i>Hybopsis insignis</i> | Blotched chub | G4 | S3 | | |
| <i>Etheostoma kanawhae</i> | Kanawha darter | G4 | S3 | | |
| <i>Etheostoma zonale</i> | Banded darter | G5 | S3 | | |
| <i>Fundulus catenatus</i> | Northern studfish | G5 | S3 | | |
| <i>Lampetra aepyptera</i> | Least brook lamprey | G5 | S3 | | |
| <i>Lampetra appendix</i> | American brook lamprey | G4 | S3 | | |
| <i>Margariscus margarita</i> = <i>Semotilus margarita</i> | Pearl dace | G5 | S3 | | |
| <i>Moxostoma duquesnei</i> | Black redhorse | G5 | S3 | | |
| <i>Notropis chalybaeus</i> | Ironcolor shiner | G4 | S3 | | |
| <i>Notropis chiliticus</i> | Redlip shiner | G4 | S3 | | |
| <i>Notropis</i> sp. 4 | Sawfin shiner | G4 | S3 | | |
| <i>Percina caprodes</i> | Logperch | G5 | S3 | | |
| <i>Percina gymnocephala</i> | Appalachia darter | G4 | S3 | | |
| <i>Percina oxyrhynchus</i> | Sharpnose darter | G4 | S3 | | |
| <i>Phenacobius uranops</i> | Stargazing minnow | G4 | S3 | | |
| <i>Scartomyzon ariommus</i> = <i>Moxostoma ariommum</i> | Bigeye jumprock | G4 | S3 | | |
| AMPHIBIANS | | | | | |
| <i>Aneides aeneus</i> | Green salamander | G3G4 | S3 | | |
| <i>Desmognathus orestes</i> | Blue Ridge dusky salamander | G4 | S3 | | |
| <i>Plethodon kentucki</i> | Cumberland Plateau salamander | G4 | S3 | | |
| <i>Plethodon montanus</i> | Northern Gray-cheeked salamander | G3 | S3 | | |
| <i>Plethodon yonahlossee</i> | Yonahlossee salamander | G4 | S3 | | |
| <i>Pseudacris nigrata</i> | Southern chorus frog | G5 | S3 | | |
| <i>Pseudacris ocularis</i> = <i>Limnaoedus ocularis</i> | Little grass frog | G5 | S3 | | |
| <i>Rana virgatipes</i> = <i>Lithobates virgatipes</i> | Carpenter frog | G5 | S3 | | SC |
| <i>Siren lacertina</i> | Greater siren | G5 | S3 | | |
| <i>Stereochilus marginatus</i> | Many-lined salamander | G5 | S3 | | |
| REPTILES | | | | | |
| <i>Farancia erythrogramma</i> | Rainbow snake | G4 | S3 | | |
| <i>Graptemys geographica</i> | Northern map turtle | G5 | S3 | | |
| <i>Lampropeltis elapsoides</i> = <i>Lampropeltis triangulum elapsoides</i> | Scarlet kingsnake | G5 | S2S4 | | |
| <i>Malaclemys terrapin</i> | Diamond-backed terrapin | G4 | S4 | | |
| <i>Opheodrys vernalis</i> = <i>Liochlorophis vernalis</i> | Smooth greensnake | G5 | S3 | | |

NATURAL HERITAGE VERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|--|--|-------------|------------|----------------|--------------|
| BIRDS | | | | | |
| <i>Accipiter cooperii</i> | Cooper's Hawk | G5 | S3B/S3N | | |
| <i>Ardea herodias</i> | Great Blue Heron | G5 | S3B/S5N | | |
| <i>Calidris canutus rufa</i> | Red Knot | G4T2 | S2N | C | |
| <i>Certhia americana</i> | Brown Creeper | G5 | S3B/S5N | | SC |
| <i>Dendroica cerulea</i> | Cerulean Warbler | G4 | S3S4B | | |
| <i>Empidonax minimus</i> | Least Flycatcher | G5 | S3S4B | | |
| <i>Haematopus palliatus</i> | American Oystercatcher | G5 | S3B/S3N | | |
| <i>Ixobrychus exilis</i> | Least Bittern | G5 | S3B/S3N | | |
| <i>Nycticorax nycticorax</i> | Black-crowned Night-heron | G5 | S3B/S4N | | |
| <i>Passerculus sandwichensis</i> | Savannah Sparrow | G5 | S3S4B/S4N | | |
| <i>Petrochelidon pyrrhonota</i> | Cliff Swallow | G5 | S3S4B | | |
| <i>Phalacrocorax auritus</i> | Double-crested Cormorant | G5 | S2B/S4S5N | | |
| <i>Riparia riparia</i> | Bank Swallow | G5 | S3B | | |
| <i>Sitta pusilla</i> | Brown-headed Nuthatch | G5 | S3S4 | | |
| <i>Spiza americana</i> | Dickcissel | G5 | S2S3B | | SC |
| <i>Sterna forsteri</i> | Forster's Tern | G5 | S3B/S3N | | SC |
| <i>Sterna hirundo</i> | Common Tern | G5 | S3B | | |
| <i>Tyto alba</i> | Barn Owl | G5 | S3B/S3N | | SC |
| <i>Vermivora chrysoptera</i> | Golden-winged Warbler | G4 | S3B | | SC |
| <i>Vermivora pinus</i> | Blue-winged Warbler | G5 | S3B | | |
| <i>Wilsonia canadensis</i> | Canada Warbler | G5 | S3S4B | | |
| MAMMALS | | | | | |
| <i>Blarina brevicauda telmalestes</i> | Dismal Swamp short-tailed shrew | G5T3 | S3 | | |
| <i>Lasionycteris noctivagans</i> | Silver-haired bat | G5 | SUB/S4N | | |
| <i>Lasiurus cinereus</i> | Hoary bat | G5 | SUB/S3N | | |
| <i>Lontra canadensis</i> = <i>Lutra canadensis</i> | Northern river otter | G5 | S4 | | SC |
| <i>Mustela nivalis</i> | Least weasel | G5 | S3 | | |
| <i>Neotoma magister</i> | Allegheny (or Appalachian) woodrat | G3G4 | S3 | | |
| <i>Peromyscus gossypinus</i> | Cotton mouse | G5 | S3 | | |
| <i>Peromyscus leucopus easti</i> | Pungo mouse | G5T1 | S1? | | |
| <i>Sciurus niger niger</i> | Southeastern fox squirrel | G5T5 | S3 | | |
| <i>Sorex dispar</i> | Long-tailed or rock shrew | G4 | S3 | | |
| <i>Spilogale putorius</i> | Eastern spotted skunk | G5 | S3S4 | | |
| <i>Sylvilagus floridanus hitchensi</i> | Smith Island cottontail | G5THQ | SH | | |
| <i>Sylvilagus palustris</i> | Marsh rabbit | G5 | S3 | | SC |
| <i>Sylvilagus transitionalis</i> = <i>Sylvilagus obscurus</i> | New England cottontail (Appalachian cottontail) | G4 | S4? | | |
| <i>Synaptomys cooperi helaletes</i> | Dismal Swamp bog lemming | G5T3 | S3 | | |

APPENDIX 5. NATURAL HERITAGE INVERTEBRATE WATCH LIST

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|--------------------------------|-------------|------------|----------------|--------------|
| GASTROPODA (SNAILS) | | | | | |
| <i>Elimia catenaria</i> | Gravel Elimia | G4 | S3 | | |
| <i>Ferrissia fragilis</i> | Fragile ancyloid | G5 | SU | | |
| <i>Ferrissia parallelus</i> | Oblong ancyloid | G5 | SU | | |
| <i>Fontigens orolibas</i> | Blue Ridge springsnail | G3 | S3 | | |
| <i>Fossaria dalli</i> | Dusky Fossaria | G5 | SU | | |
| <i>Gastrocopta holzingeri</i> | Lambda snaggletooth | G5 | S3 | | |
| <i>Gyraulus deflectus</i> | Flexed Gyro | G5 | SU | | |
| <i>Hendersonia occulta</i> | Cherrystone Drop | G4 | S3 | | |
| <i>Lobosculum pustuloides</i> | Tiny Liptooth | G4 | S2S4 | | |
| <i>Mesomphix rugeli</i> | Wrinkled button | G4 | S3 | | |
| <i>Paravitrea grimmi</i> | Buff Supercoil | G1G3Q | SU | | |
| <i>Patera laevior</i> | Smooth Bladetooth | G4 | S2S4 | | |
| <i>Philomycus virginicus</i> | Virginia mantleslug | G3 | S3 | | |
| <i>Pleurocera gradata</i> | Bottle hornsnailed | G3 | S3? | | |
| <i>Pleurocera uncialis</i> | Pagoda hornsnailed | G4 | S3? | | |
| <i>Promenetus exacuouus</i> | Sharp Sprite | G5 | SU | | |
| <i>Somatogyrus pennsylvanicus</i> | Shale pebblesnailed | G3 | SU | | |
| <i>Triodopsis burchi</i> | Pittsylvania three-tooth | G3 | S3 | | |
| <i>Triodopsis fraudulentula</i> | Baffled three-tooth | G4 | S3 | | |
| <i>Triodopsis tennesseensis</i> | Budded three-tooth | G4 | S3 | | |
| <i>Valvata bicarinata</i> | Two-ridge Valvata | G5 | SU | | |
| <i>Valvata tricarinata</i> | Three-ridge Valvata | G5 | SU | | |
| <i>Ventridens arcellus</i> | Golden dome | G4 | S3 | | |
| <i>Ventridens lasmodon</i> | Hollow dome | G4 | S3 | | |
| <i>Vertigo parvula</i> | Smallmouth Vertigo | G3 | SU | | |
| BIVALVIA (MUSSELS & CLAMS) | | | | | |
| Mussels | | | | | |
| <i>Alasmidonta undulata</i> | Triangle floater | G4 | S3S4 | | |
| <i>Anodonta implicata</i> | Alewife floater | G5 | S3? | | |
| <i>Fusconaia subrotunda</i> | Longsolid | G3 | S3 | | |
| <i>Leptodea ochracea</i> = <i>Ligumia ochracea</i> | Tidewater mucket | G3G4 | S3 | | |
| <i>Ligumia nasuta</i> | Eastern pondmussel | G4 | S3 | | |
| <i>Medionidus conradicus</i> | Cumberland moccasinsnailed | G3G4 | S3S4 | | |
| <i>Strophitus undulatus</i> | Creeper | G5 | S3S4 | | |
| <i>Villosa constricta</i> | Notched rainbow | G3 | S3 | | |
| <i>Villosa vanuxemensis</i> | Mountain creekshell | G4 | S3S4 | | |
| ARACHNIDA (SPIDERS, PSEUDOSCORPIONS & RELATIVES) | | | | | |
| Spiders | | | | | |
| <i>Gasteracantha cancriformis</i> | Spinybacked orbweaver | G5 | S3 | | |
| <i>Gnaphosa fontinalis</i> | A gnaphosid spider | G4? | S3 | | |
| <i>Hypochilus gertschi</i> | Gertsch's lampshade-web spider | G3 | S3 | | |
| <i>Lycosa lenta</i> | A wolf spider | G4 | S3 | | |
| <i>Sphodros atlanticus</i> | Atlantic purse-web spider | G4 | S3 | | |
| <i>Sphodros coylei</i> | Coyle's purse-web spider | G4? | S3 | | |
| <i>Sphodros niger</i> | Black purse-web spider | G4G5 | S3 | | |
| <i>Sphodros rufipes</i> | Red-legged purse-web spider | G4 | SU | | |
| Pseudoscorpions | | | | | |
| <i>Chitrella cavicola</i> | A cave pseudoscorpion | G3 | S3 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|-----------------------------------|-------------|------------|----------------|--------------|
| CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS) | | | | | |
| Amphipods | | | | | |
| <i>Crangonyx antennatus</i> | Appalachian Valley cave amphipod | G5 | S3 | | SC |
| <i>Gammarus pseudolimnaeus</i> | Northern spring amphipod | G5 | S3 | | |
| <i>Stygobromus araeus</i> | Tidewater interstitial amphipod | G3 | S3 | | SC |
| <i>Stygobromus estesi</i> | Craig County cave amphipod | G4 | S3 | | |
| <i>Stygobromus indentatus</i> | Tidewater amphipod | G3 | S3 | | SC |
| <i>Stygobromus spinosus</i> | Blue Ridge spring amphipod | G3 | S3 | | |
| Isopods | | | | | |
| <i>Caecidotea holsingeri</i> | Greenbrier Valley cave isopod | G5 | S3 | | |
| <i>Caecidotea pricei</i> | Price's cave isopod | G5 | S3 | | |
| <i>Caecidotea recurvata</i> | Southwestern Virginia cave isopod | G5 | S3 | | |
| <i>Caecidotea richardsonae</i> | Tennessee Valley cave isopod | G5 | S3 | | |
| Decapods | | | | | |
| <i>Cambarus angularis</i> | Clinch River crayfish | G3 | S3 | | |
| <i>Cambarus chasmodactylus</i> | New River riffle crayfish | G4 | S3 | | |
| <i>Cambarus diogenes</i> | Devil crawfish | G5 | S3 | | |
| <i>Cambarus longirostris</i> | A crayfish | G5 | S3 | | |
| <i>Fallicambarus fodiens</i> = <i>Fallicambarus uhleri</i> | A crayfish | G5 | S3 | | |
| <i>Orconectes cristavarius</i> | Spiny stream crayfish | G5 | S3 | | |
| <i>Orconectes forceps</i> | A crayfish | G4 | S3 | | |
| <i>Orconectes obscurus</i> | Allegheny crayfish | G5 | S3 | | |
| Branchiopods | | | | | |
| <i>Eulimnadia</i> sp. 1 | A clam shrimp | G? | SU | | |
| Ostracods | | | | | |
| <i>Ascetocythere cosmata</i> | Grayson crayfish ostracod | G? | SU | | |
| DIPLOPODA (MILLIPEDES) | | | | | |
| <i>Abacion tessellatum</i> | A millipede | G5 | S3 | | |
| <i>Andrognathus corticarius</i> | A millipede | G5 | S3 | | |
| <i>Apheloria montana</i> | A millipede | G5 | S3 | | |
| <i>Apheloria tigana</i> | A millipede | G5 | S3 | | |
| <i>Brachycybe lecontii</i> | A millipede | G5 | S3 | | |
| <i>Buotus carolinus</i> | A millipede | G3 | S3 | | |
| <i>Cambala hubrichti</i> | A millipede | G5 | S3 | | |
| <i>Cambala minor</i> | A millipede | G5 | S3 | | |
| <i>Conotyla melinda</i> | Melinda millipede | G3 | S3 | | |
| <i>Nannaria ericacea</i> | McGraw Gap xystodesmid millipede | G3 | S3 | | |
| <i>Nannaria morrisoni</i> | A millipede | G3 | S3 | | |
| <i>Nannaria wilsoni</i> | A millipede | G3 | S3 | | |
| <i>Rudiloria kleinpeteri</i> | A millipede | G3 | S3 | | |
| <i>Zygonopus packardi</i> = <i>Trichopetalum packardi</i> | Packard's blind cave millipede | G4 | S3 | | |
| COLLEMBOLA (SPRINGTAILS) | | | | | |
| <i>Pseudosinella orba</i> | A cave springtail | G3G4 | S3 | | |
| <i>Sinella barri</i> | Barr's cave springtail | G5 | S3 | | |
| <i>Sinella hoffmani</i> | Hoffman's cave springtail | G5 | S3 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|--|----------------------------------|-------------|------------|----------------|--------------|
| ODONATA (DAMSELFLIES & DRAGONFLIES) | | | | | |
| Damselflies | | | | | |
| <i>Argia bipunctulata</i> | Seepage dancer | G4 | S3 | | |
| <i>Calopteryx dimidiata</i> | Sparkling jewelwing | G5 | S3 | | |
| <i>Enallagma daeckii</i> | Attenuated bluet | G4 | S3 | | |
| <i>Enallagma doubledayi</i> | Atlantic bluet | G5 | S3 | | |
| <i>Enallagma dubium</i> | Burgundy bluet | G5 | S3 | | |
| <i>Enallagma hageni</i> | Hagen's bluet | G5 | S3 | | |
| <i>Hetaerina titia</i> | Smoky rubyspot | G5 | S3 | | |
| <i>Ischnura prognata</i> | Furtive forktail | G4 | S3 | | |
| <i>Lestes congener</i> | Spotted spreadwing | G5 | S3 | | |
| <i>Lestes eurinus</i> | Amber-winged spreadwing | G4 | S3 | | |
| <i>Lestes forcipatus</i> | Sweetflag spreadwing | G5 | S3 | | |
| <i>Nehalennia integricollis</i> | Southern sprite | G5 | S3 | | |
| <i>Telebasis byersi</i> | Duckweed firetail | G5 | S3 | | |
| Dragonflies | | | | | |
| <i>Anax longipes</i> | Comet darner | G5 | S3 | | |
| <i>Brachymesia gravida</i> | Four-spotted pennant | G5 | S3 | | |
| <i>Celithemis verna</i> | Double-ringed pennant | G5 | S3 | | |
| <i>Cordulegaster erronea</i> | Tiger spiketail | G4 | S3 | | |
| <i>Cordulia shurtleffii</i> | American emerald | G5 | S3 | | |
| <i>Dythemis velox</i> | Swift setwing | G5 | S2S4 | | |
| <i>Epiptera costalis</i> = <i>Tetragoneuria costalis</i> | Stripe-winged baskettail | G5 | S2S4 | | |
| <i>Gomphaeschna antilope</i> | Taper-tailed darner | G4 | S3 | | |
| <i>Gomphus abbreviatus</i> | Spine-crowned clubtail | G3G4 | S3 | | |
| <i>Gomphus rogersi</i> | Sable clubtail | G4 | S3 | | |
| <i>Leucorrhinia intacta</i> | Dot-tailed whiteface | G5 | S3 | | |
| <i>Libellula flavida</i> | Yellow-sided skimmer | G5 | S3 | | |
| <i>Macromia taeniolata</i> | Royal river cruiser | G5 | S3 | | |
| ORTHOPTERA (GRASSHOPPERS, KATYDIDS, CRICKETS & RELATIVES) | | | | | |
| <i>Melanoplus celatus</i> | A spur-throat grasshopper | GU | SU | | |
| <i>Melanoplus devius</i> | A spur-throat grasshopper | GU | SU | | |
| <i>Melanoplus impudicus</i> | Immodest spur-throat grasshopper | G4G5 | SU | | |
| <i>Scudderia septentrionalis</i> | Northern bush katydid | G3? | S3 | | |
| HETEROPTERA (TRUE BUGS) | | | | | |
| <i>Corixidea major</i> | A true bug | GU | SU | | |
| <i>Glyptocombus saltator</i> | A true bug | G? | SU | | |
| <i>Isocytus chapmani</i> | Chapman's shore bug | G? | SU | | |
| <i>Ligyrocoris depictus</i> | A seed bug | G4? | SU | | |
| <i>Nannocoris arenarius</i> | A true bug | GU | SU | | |
| <i>Neolygus crataegi</i> | Hawthorn plant bug | G? | S1S3 | | |
| <i>Nepa apiculata</i> | A water scorpion | G? | S2S4 | | |
| <i>Phytocoris hoffmani</i> | Spruce plant bug | G? | S1S3 | | |
| <i>Plagiognathus repetitus</i> | Pine barrens plant bug | G? | SU | | |
| <i>Pnirotonis languida</i> | An assassin bug | G4 | S2S4 | | |
| <i>Ranatra australis</i> | Southern water scorpion | G5 | S3 | | |
| <i>Tominotus communis</i> | A burrower bug | G5 | S2S4 | | |
| HOMOPTERA (CICADAS, LEAFHOPPERS & RELATIVES) | | | | | |
| <i>Trialeurodes phlogis</i> | Phlox whitefly | GU | SU | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|----------------------------------|-------------|------------|----------------|--------------|
| COLEOPTERA (BEETLES) | | | | | |
| <i>Cicindela dorsalis media</i> | White tiger beetle | G4T4 | S3 | | |
| <i>Cicindela purpurea</i> | Purple tiger beetle | G5 | S3 | | |
| <i>Cicindela splendida</i> | Splendid tiger beetle | G5 | S3 | | |
| <i>Diabrotica cristata</i> | A leaf beetle | G? | SU | | |
| <i>Helops sulcipennis</i> | A flightless darkling beetle | G3? | S1S3 | | |
| <i>Hoperius planatus</i> | A predaceous diving beetle | G? | SU | | |
| <i>Hydrobiomorpha casta</i> | A water scavenger beetle | G? | SU | | |
| <i>Megacephala carolina</i> = <i>Tetracha carolina</i> | Carolina big-headed tiger beetle | G5 | S3 | | |
| <i>Nicrophorus defodiens</i> | A burying beetle | G4 | S3 | | |
| <i>Paralichas trivittis</i> = <i>Odontonyx trivittis</i> | A beetle | G? | SU | | |
| <i>Phloeoena signata</i> | A ground beetle | G3? | S3 | | |
| <i>Rybaxis</i> sp. 1 | A pselaphid beetle | GU | SU | | |
| <i>Urographis triangulifer</i> = <i>Graphisurus triangulifer</i> | A longhorned beetle | G4? | SU | | |
| TRICHOPTERA (CADDISFLIES) | | | | | |
| <i>Agapetus hessi</i> | A glossosomatid caddisfly | G4G5 | S2S4 | | |
| <i>Agapetus iridis</i> | A glossosomatid caddisfly | G5 | S2S4 | | |
| <i>Agapetus pinatus</i> | A glossosomatid caddisfly | G5 | S2S4 | | |
| <i>Agarodes libalis</i> | A sericostomatid caddisfly | G4 | S2S4 | | |
| <i>Brachycentrus solomoni</i> | A brachycentrid caddisfly | G4 | S2S4 | | |
| <i>Brachycentrus spinae</i> | A brachycentrid caddisfly | G4 | S2S4 | | |
| <i>Ceraclea ophioderus</i> | A leptocerid caddisfly | G5 | S2S4 | | |
| <i>Ceratopsyche alhedra</i> | A hydropsychid caddisfly | G5 | S2S4 | | |
| <i>Cheumatopsyche gracilis</i> | A hydropsychid caddisfly | G5 | S2S4 | | |
| <i>Cheumatopsyche gyra</i> | A hydropsychid caddisfly | G4G5 | S2S4 | | |
| <i>Cheumatopsyche halima</i> | A hydropsychid caddisfly | G5 | S2S4 | | |
| <i>Cheumatopsyche parentum</i> | A hydropsychid caddisfly | G3 | S3 | | |
| <i>Chimarra augusta</i> | A philopotamid caddisfly | G3G4 | S2S4 | | |
| <i>Culoptila cantha</i> | A glossosomatid caddisfly | G5 | S1S3 | | |
| <i>Frenesia difficilis</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Frenesia missa</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Glossosoma intermedium</i> | A glossosomatid caddisfly | G5 | S2S4 | | |
| <i>Homoplectra doringa</i> | A hydropsychid caddisfly | G5 | S2S4 | | |
| <i>Hydropsyche brunneipennis</i> | A hydropsychid caddisfly | G3G4 | S1S3 | | |
| <i>Hydropsyche catawba</i> | A hydropsychid caddisfly | G3 | S3 | | |
| <i>Hydropsyche franclemonti</i> | A hydropsychid caddisfly | G5 | S2S4 | | |
| <i>Hydropsyche hoffmani</i> | A hydropsychid caddisfly | G3G4 | S3 | | |
| <i>Hydropsyche ophthalmica</i> | A hydropsychid caddisfly | G3 | S3 | | |
| <i>Hydroptila ajax</i> | A microcaddisfly | G5 | S1S3 | | |
| <i>Hydroptila amoena</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Hydroptila fiskei</i> | A microcaddisfly | G3G4 | S2S4 | | |
| <i>Hydroptila lennoxii</i> | A microcaddisfly | G2G4 | SU | | |
| <i>Hydroptila talladega</i> | A microcaddisfly | G4 | S1S3 | | |
| <i>Hydroptila vala</i> | A microcaddisfly | G4 | S2S4 | | |
| <i>Hydroptila virgata</i> | A microcaddisfly | G5 | S1S3 | | |
| <i>Ironoquia parvula</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Ithytrichia clavata</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Lepidostoma modestum</i> | A lepidostomatid caddisfly | G3G4 | S2S4 | | |
| <i>Lepidostoma pictile</i> | A lepidostomatid caddisfly | G5 | S2S4 | | |
| <i>Leptocerus americanus</i> | A leptocerid caddisfly | G5 | S2S4 | | |
| <i>Limnephilus indivisus</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Limnephilus moestus</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Macrostemum transversum</i> | A hydropsychid caddisfly | G3G5 | S2S4 | | |
| <i>Mayatrichia ayama</i> | A microcaddisfly | G5 | S2S4 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|------------------------------------|---|-------------|------------|----------------|--------------|
| Caddisflies (continued) | | | | | |
| <i>Micrasema burksi</i> | A brachycentrid caddisfly | G5 | S2S4 | | |
| <i>Micrasema scotti</i> | A brachycentrid caddisfly | G3G4 | S3 | | |
| <i>Neophylax ornatus</i> | A uenoid caddisfly | G4G5 | S2S4 | | |
| <i>Neophylax wigginsi</i> | A uenoid caddisfly | G3G4 | S2S4 | | |
| <i>Neotrichia vibrans</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Ochrotrichia arva</i> | A microcaddisfly | G4G5 | S1S3 | | |
| <i>Ochrotrichia tarsalis</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Ochrotrichia wojcickyi</i> | A microcaddisfly | G4G5 | S1S3 | | |
| <i>Orthotrichia cristata</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Oxyethira janella</i> | Little-entrance Oxyethiran microcaddisfly | G5 | S2S4 | | |
| <i>Oxyethira michiganensis</i> | A microcaddisfly | G5 | S2S4 | | |
| <i>Oxyethira rivicola</i> | A microcaddisfly | G5 | S1S3 | | |
| <i>Paranyctiophylax denningi</i> | A polycentropodid caddisfly | G4G5 | S1S3 | | |
| <i>Paranyctiophylax serratus</i> | A polycentropodid caddisfly | G4 | S1S3 | | |
| <i>Polycentropus interruptus</i> | A polycentropodid caddisfly | G5 | S1S3 | | |
| <i>Polycentropus nascotius</i> | A polycentropodid caddisfly | G5 | S1S3 | | |
| <i>Polycentropus pentus</i> | A polycentropodid caddisfly | G5 | S1S3 | | |
| <i>Polycentropus rickeri</i> | A polycentropodid caddisfly | G3G4 | S2S4 | | |
| <i>Pseudostenophylax sparsus</i> | A limnephilid caddisfly | G5 | S2S4 | | |
| <i>Psilotreta rossi</i> | An odontocerid caddisfly | G3 | S3? | | |
| <i>Ptilostomis semifasciata</i> | A phryganeid caddisfly | G5 | S2S4 | | |
| <i>Pycnopsyche conspersa</i> | A limnephilid caddisfly | G3G4 | S2S4 | | |
| <i>Pycnopsyche flavata</i> | A limnephilid caddisfly | G4 | S2S4 | | |
| <i>Rhyacophila acutiloba</i> | A rhyacophilid caddisfly | G5 | S2S4 | | |
| <i>Rhyacophila formosa</i> | A rhyacophilid caddisfly | G5 | S2S4 | | |
| <i>Rhyacophila invaria</i> | A rhyacophilid caddisfly | G5 | S2S4 | | |
| <i>Rhyacophila manistee</i> | A rhyacophilid caddisfly | G5 | S2S4 | | |
| <i>Rhyacophila otica</i> | A rhyacophilid caddisfly | G3G4Q | S1S3 | | |
| <i>Rhyacophila shenandoahensis</i> | Shenandoah rhyacophilid caddisfly | G3 | S3 | | |
| <i>Rhyacophila vibox</i> | A rhyacophilid caddisfly | G5 | S2S4 | | |
| <i>Stactobiella martynovi</i> | A microcaddisfly | G4 | S1S3 | | |
| <i>Wormaldia shawnee</i> | A philopotamid caddisfly | G4G5 | S2S4 | | |

LEPIDOPTERA (BUTTERFLIES, SKIPPERS & MOTHS)

Butterflies

| | | | | | |
|------------------------------------|-------------------------------|------|------|--|--|
| <i>Atlides halesus</i> | Great purple hairstreak | G5 | S3 | | |
| <i>Celastrina lucia</i> | Northern spring azure | G5 | S2S4 | | |
| = <i>Celastrina ladon lucia</i> | | | | | |
| <i>Celastrina nigra</i> | Dusky azure | G4 | S3S4 | | |
| = <i>Celastrina ebenina</i> | | | | | |
| <i>Celastrina serotina</i> | Cherry gall azure | G5 | S2S4 | | |
| <i>Enodia creola</i> | Creole pearly eye | G3G4 | S3S4 | | |
| <i>Euphydryas phaeton</i> | Baltimore checkerspot | G4 | SU | | |
| <i>Papilio appalachiensis</i> | Appalachian tiger swallowtail | G4 | S3S4 | | |
| = <i>Pterourus appalachiensis</i> | | | | | |
| <i>Pieris virginiensis</i> | West Virginia white | G3G4 | S3 | | |
| <i>Satyrrium caryaevorus</i> | Hickory hairstreak | G4 | S2S4 | | |
| <i>Satyrrium edwardsii</i> | Edwards' hairstreak | G4 | S3S4 | | |
| <i>Satyrrium favonius ontario</i> | Northern oak hairstreak | G4T4 | S3 | | |
| = <i>Fixsenia favonius ontario</i> | | | | | |
| <i>Speyeria diana</i> | Diana fritillary | G3G4 | S3 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|------------------------------|-------------|------------|----------------|--------------|
| Skippers | | | | | |
| <i>Amblyscirtes aesculapias</i> | Lace-winged roadside skipper | G4 | S3 | | |
| <i>Amblyscirtes carolina</i> | Carolina roadside skipper | G3G4 | S3S4 | | |
| <i>Amblyscirtes reversa</i> | Reversed roadside skipper | G3G4 | S3 | | |
| <i>Autochton cellus</i> | Golden-banded skipper | G4 | S3? | | |
| <i>Hesperia leonardus</i> | Leonard's skipper | G4 | S3? | | |
| <i>Poanes aaroni</i> | Aaron's skipper | G4 | S3 | | |
| <i>Poanes yehl</i> | Yehl skipper | G4 | S3 | | |
| <i>Thorybes confusus</i> | Confused cloudywing | G4 | S2S4 | | |
| Moths | | | | | |
| <i>Abrostola ovalis</i> | A noctuid moth | G4 | S2S4 | | |
| <i>Acronicta dactylina</i> | Fingered dagger moth | G5 | SU | | |
| <i>Acronicta haesitata</i> | Hesitant dagger moth | G5 | S2S4 | | |
| <i>Acronicta radcliffei</i> | Radcliffe's dagger moth | G5 | S2S4 | | |
| <i>Acronicta subochrea</i> | Puzzling dagger moth | G4? | S1S4 | | |
| <i>Acronicta tristis</i> | A dagger moth | G? | S1S3 | | |
| <i>Anaplectoides prasina</i> | Green arches | G5 | S1S3 | | |
| <i>Apamea cariosa</i> | A noctuid moth | G4 | S1S3 | | |
| <i>Apamea lignicolora</i> | Wood-colored Apamea moth | G5 | S2S4 | | |
| <i>Apamea plutonia</i> | A noctuid moth | G4 | S2S4 | | |
| <i>Apamea sordens</i> = <i>Apamea finitima</i> | Bordered Apamea moth | G? | S1S3 | | |
| Apameini new genus 2, sp. 1 | A cane moth | G? | S1S3 | | |
| Apameini new genus 2, sp. 2 | A cane moth | G? | S1S3 | | |
| Apameini new genus 2, sp. 3 | A cane moth | G? | S1S3 | | |
| <i>Apodrepanulatrix liberaria</i> | New Jersey tea inchworm moth | G4 | S2S4 | | |
| <i>Argyrostroma quadrifilaris</i> | Four-lined chocolate moth | G4 | S1S3 | | |
| <i>Autographa ampla</i> | Large looper moth | G5 | S1S3 | | |
| <i>Bellura brehmei</i> | A wetland borer moth | G? | S2S4 | | |
| <i>Bellura vulnifica</i> = <i>Bellura melanopyga</i> | A wetland borer moth | G? | S1S4 | | |
| <i>Cabera quadrifasciaria</i> | Four-lined Cabera moth | G? | S1S3 | | |
| <i>Callopietria granitosa</i> | Granitosa fern moth | G4 | S1S3 | | |
| <i>Capsula subflava</i> = <i>Archanara subflava</i> | A sedge borer moth | G4 | S1S3 | | |
| <i>Catocala angusi</i> | Angus' underwing | G4 | S2S4 | | |
| <i>Catocala antinympa</i> | Sweetfern underwing | G5 | S1S4 | | |
| <i>Catocala concumbens</i> | Sleepy underwing | G5 | S1S3 | | |
| <i>Catocala crataegi</i> | Hawthorn underwing | G5 | S2S4 | | |
| <i>Catocala insolabilis</i> | Inconsolable underwing | G5 | S1S3 | | |
| <i>Catocala miranda</i> | Miranda underwing | G4 | S2S4 | | |
| <i>Catocala parta</i> | Mother underwing | G5 | S2S4 | | |
| <i>Catocala robinsoni</i> | Robinson's underwing | G4 | S3 | | |
| <i>Catocala sappho</i> | Sappho underwing | G4 | S1S3 | | |
| <i>Catocala serena</i> | Serene underwing | G5 | S2S4 | | |
| <i>Crambidia casta</i> | Pearly-winged lichen moth | G4 | S1S4 | | |
| <i>Crambidia pura</i> | Pure lichen moth | G4 | S1S3 | | |
| <i>Ctenucha virginica</i> | Virginia Ctenucha moth | G5 | S3 | | |
| <i>Cucullia alfarata</i> | A noctuid moth | G4 | S1S4 | | |
| <i>Cucullia florea</i> | A noctuid moth | G? | S2S4 | | |
| <i>Cutina aluticolor</i> | A cypress moth | G4 | S3 | | |
| <i>Darapsa versicolor</i> | Hydrangea sphinx | G4 | S2S4 | | |
| <i>Dasychira pinicola</i> | Pine tussock moth | G4 | S1S3 | | |
| <i>Dasychira plagiata</i> | A tussock moth | G? | S2S4 | | |
| <i>Derrima stellata</i> | Pink star moth | G4 | S1S3 | | |
| <i>Diachrysia balluca</i> | A noctuid moth | G? | S1S3 | | |
| <i>Dysstroma truncata</i> | Marbled carpet | G? | S2S4 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|---|---------------------------------|-------------|------------|----------------|--------------|
| Moths (continued) | | | | | |
| <i>Erastria cruentaria</i> | Thin-lined Erastria moth | G4 | S2S4 | | |
| <i>Eueretagrotis attentata</i> | Attentive dart moth | G4 | S1S3 | | |
| <i>Eueretagrotis perattentata</i> | Two-spot dart moth | G5 | S1S3 | | |
| <i>Eueretagrotis sigmoides</i> | Sigmoid dart moth | G5 | S3 | | |
| <i>Eulithis molliculata</i> | Dimorphic Eulithis moth | G4 | S3 | | |
| <i>Eupithecia peckorum</i> | Peck's Eupithecia moth | G4 | S1S4 | | |
| <i>Euxoa bostoniensis</i> | Boston dart moth | G? | S2S4 | | |
| <i>Euxoa declarata</i> | A dart moth | G4G5 | S1S3 | | |
| <i>Euxoa messoria</i> | A dart moth | G? | S2S4 | | |
| <i>Euxoa obeliscoides</i> | A dart moth | G? | S2S4 | | |
| <i>Euxoa redimicula</i> | Fillet dart moth | G? | S2S4 | | |
| <i>Euxoa scholastica</i> | Scholastic dart moth | G? | S2S4 | | |
| <i>Euxoa violaris</i> | Violet dart moth | G4 | S1S3 | | |
| <i>Feralia comstocki</i> | Comstock's sawfly | G4 | S1S3 | | |
| <i>Glena cognataria</i> | Blueberry Gray | G4 | S1S4 | | |
| <i>Haploa colona</i> | Colona moth | G4G5 | S2S4 | | |
| <i>Heliomata infulata</i> | Rare spring moth | G2G4 | S2S4 | | |
| <i>Homochlodes disconventa</i> | Dark Homochlodes moth | G4 | S2S4 | | |
| <i>Hydraecia stramentosa</i> | Figwort borer moth | G4 | S2S4 | | |
| <i>Hydriomena bistriolata</i> | A geometrid moth | G? | S2S4 | | |
| <i>Hydriomena divisaria</i> | Black-dashed Hydriomena moth | G? | S1S4 | | |
| <i>Hypena sordidula</i> = <i>Bomolocha sordidula</i> | Sordid Hypena moth | G4 | S2S4 | | |
| <i>Idia majoralis</i> | Major Idia moth | G? | S1S3 | | |
| <i>Iridopsis pergracilis</i> = <i>Anacamptodes pergracilis</i> | A geometrid moth | G? | S1S3 | | |
| <i>Isoparce cupressi</i> | Cypress sphinx | G4 | S3 | | |
| <i>Lacinipolia lustralis</i> | A noctuid moth | G? | SU | | |
| <i>Leucania commoides</i> | A noctuid moth | G5 | S1S4 | | |
| <i>Lintneria eremitus</i> = <i>Sphinx eremitus</i> | Hermit sphinx | G4 | S1S3 | | |
| <i>Lithophane innominata</i> | Nameless pinion moth | G5 | S1S4 | | |
| <i>Lithophane petulca</i> | A noctuid moth | G5 | S1S3 | | |
| <i>Lithophane querquera</i> | Shivering pinion moth | G? | S2S4 | | |
| <i>Lophocampa maculata</i> | Spotted Tussock Moth | G5 | S1S3 | | |
| <i>Melanchra assimilis</i> | Black arches | G5 | SU | | |
| <i>Melipotis jucunda</i> | Merry Melipotis moth | G5 | S1S3 | | |
| <i>Mesoleuca ruficillata</i> | White-ribboned carpet | G4 | S2S4 | | |
| <i>Metanema inatomaria</i> | Pale Metanema moth | G? | S1S3 | | |
| <i>Morrisonia triangula</i> | Triangle-barred Morrisonia moth | G3G4 | S2S4 | | |
| <i>Neadysgonia smithii</i> | Smith's darkwing moth | G4 | S1S3 | | |
| <i>Neoligia crytora</i> = <i>Oligia crytora</i> | A noctuid moth | G? | S2S4 | | |
| <i>Neoligia exhausta</i> = <i>Oligia exhausta</i> | A noctuid moth | G? | S1S3 | | |
| <i>Orthofidonia exornata</i> | A geometrid moth | G? | S1S4 | | |
| <i>Orthosia revicta</i> | Subdued Quaker moth | G? | S2S4 | | |
| <i>Panopoda repanda</i> | Orange Panopoda moth | G5 | S3 | | |
| <i>Panthea acronyctoides</i> | Black zipzag | G5 | S2S4 | | |
| <i>Papaipema impecuniosa</i> | Aster borer moth | G5 | S2S4 | | |
| <i>Papaipema nelita</i> | Coneflower borer moth | G4 | S1S4 | | |
| <i>Papaipema nepheleptena</i> | Turtlehead borer moth | G4 | S2S4 | | |
| <i>Papaipema polymniae</i> | Leafcup borer moth | G4 | S2S4 | | |
| <i>Papaipema pterisii</i> | Bracken fern borer moth | G5 | S3 | | |
| <i>Papaipema unimoda</i> | Meadow rue borer moth | G5 | S2S4 | | |
| <i>Pero zalissaria</i> | A geometrid moth | G4 | S3 | | |
| <i>Petrophora subaequaria</i> | Northern Petrophora moth | G? | S1S3 | | |
| <i>Polychrysis morigera</i> | A noctuid moth | G4 | S3 | | |

NATURAL HERITAGE INVERTEBRATE WATCH LIST (continued)

| SCIENTIFIC NAME | COMMON NAME | GLOBAL RANK | STATE RANK | FEDERAL STATUS | STATE STATUS |
|--|-------------------------------|-------------|------------|----------------|--------------|
| Moths (continued) | | | | | |
| <i>Protapamea danieli</i> | A cane moth | G? | S1S3 | | |
| <i>Protodeltote albidula</i> = <i>Lithacodia albidula</i> | A noctuid moth | G5 | S1S3 | | |
| <i>Psaphida grandis</i> = <i>Eutolype grandis</i> | Gray sallow | G4 | S1S3 | | |
| <i>Psaphida thaxterianus</i> | A noctuid moth | G4 | S2S4 | | |
| <i>Pseudohermonassa tenuicula</i> = <i>Xestia tenuicula</i> | A dart moth | G4 | S1S3 | | |
| <i>Rheumaptera hastata</i> | Spear-marked black moth | G5 | S3 | | |
| <i>Schinia bina</i> | Bina flower moth | G4 | S1S4 | | |
| <i>Schinia florida</i> | Primrose moth | G5 | S2S4 | | |
| <i>Schinia nubila</i> | A flower moth | G? | S2S4 | | |
| <i>Schinia saturata</i> | Brown flower moth | G4 | S2S4 | | |
| <i>Sideridis congermana</i> | German cousin moth | G? | S1S3 | | |
| <i>Speranza abruptata</i> = <i>Itame abruptata</i> | A geometrid moth | G4 | S2S4 | | |
| <i>Speranza evagaria</i> = <i>Itame evagaria</i> | A geometrid moth | G? | S1S3 | | |
| <i>Speranza exauspicata</i> = <i>Itame exauspicata</i> | A geometrid moth | G? | S1S3 | | |
| <i>Speranza subcessaria</i> = <i>Itame subcessaria</i> | Barred Itame moth | G4 | S2S4 | | |
| <i>Sphinx chersis</i> | Great ash sphinx | G4G5 | S2S4 | | |
| <i>Sphinx drupiferarum</i> | Wild cherry sphinx | G4 | S1S3 | | |
| <i>Spragueia dama</i> | Southern Spragueia moth | G5 | S2S4 | | |
| <i>Sympistis badistriga</i> = <i>Homohadena badistriga</i> | Brown-lined sallow moth | G4 | S1S4 | | |
| <i>Tarache delecta</i> = <i>Acontia delecta</i> | Delightful Bird-dropping moth | G4? | S1S4 | | |
| <i>Venusia cambrica</i> | Welsh wave moth | G5 | S1S4 | | |
| <i>Xanthorhoe labradorensis</i> | Labrador carpet | G4 | S2S4 | | |
| <i>Zale calycanthata</i> | Double-banded Zale moth | G4 | S2S4 | | |
| <i>Zale submediana</i> | A noctuid moth | G4 | S2S4 | | |
| <i>Zanclognatha</i> sp. 1 | A noctuid moth | G3G4 | S2S4 | | |

APPENDIX 6. LIST OF SYNONYMS

| Synonym | Name used in lists above | Common name | Page |
|--|----------------------------------|-----------------------------------|------|
| <i>Acipenser oxyrhynchus</i> | <i>Acipenser oxyrinchus</i> | Atlantic sturgeon | 7 |
| <i>Acontia delecta</i> | <i>Tarache delecta</i> | Delightful Bird-dropping moth | 41 |
| <i>Aeshna mutata</i> | <i>Rhionaeschna mutata</i> | Spatterdock damer | 21 |
| <i>Alasmidonta minor</i> | <i>Alasmidonta viridis</i> | Slippershell mussel | 14 |
| <i>Anacamptodes pergracilis</i> | <i>Iridopsis pergracilis</i> | A geometrid moth | 40 |
| <i>Anaxyrus quercicus</i> | <i>Bufo quercicus</i> | Oak toad | 9 |
| <i>Anculosa subglobosa</i> | <i>Leptoxis praerosa</i> | Onyx rocksnail | 12 |
| <i>Anguispira alternata jessica</i> | <i>Anguispira jessica</i> | Mountain disc | 12 |
| <i>Anthrobia mammothia</i> | <i>Anthrobia monmouthia</i> | A cave spider | 15 |
| <i>Apamea finitima</i> | <i>Apamea sordens</i> | Bordered Apamea moth | 39 |
| <i>Archanara subflava</i> | <i>Capsula subflava</i> | A sedge borer moth | 39 |
| <i>Arugisa watsoni</i> | <i>Arugisa latiorella</i> | A noctuid moth | 27 |
| <i>Balaena glacialis</i> | <i>Eubalaena glacialis</i> | Northern right whale | 29 |
| <i>Bellura melanopyga</i> | <i>Bellura vulnifica</i> | A wetland borer moth | 39 |
| <i>Bison bison</i> | <i>Bos bison</i> | Bison | 31 |
| <i>Bomolocha sordidula</i> | <i>Hypena sordidula</i> | Sordid Hypena moth | 40 |
| <i>Carunculina glans</i> | <i>Toxolasma lividus</i> | Purple liliput | 15 |
| <i>Carunculina lividus</i> | <i>Toxolasma lividus</i> | Purple liliput | 15 |
| <i>Casmerodius albus</i> | <i>Ardea alba</i> | Great Egret | 10 |
| <i>Celastrina ebenina</i> | <i>Celastrina nigra</i> | Dusky azure | 38 |
| <i>Celastrina ladon lucia</i> | <i>Celastrina lucia</i> | Northern spring azure | 38 |
| <i>Cervus elaphus</i> | <i>Cervus canadensis</i> | Wapiti or elk | 31 |
| <i>Clemmys insculpta</i> | <i>Glyptemys insculpta</i> | Wood turtle | 9 |
| <i>Clemmys muhlenbergii</i> | <i>Glyptemys muhlenbergii</i> | Bog turtle | 9 |
| <i>Conradilla caelata</i> | <i>Lemiox rimosus</i> | Birdwing pearlymussel | 14 |
| <i>Cyprinella monacha</i> | <i>Erimonax monachus</i> | Spotfin chub (= turquoise shiner) | 7 |
| <i>Cyprogenia irrorata</i> | <i>Cyprogenia stegaria</i> | Fanshell | 14 |
| <i>Deciduphagus irus</i> | <i>Callophrys irus</i> | Frosted elfin | 26 |
| <i>Deciduphagus polios</i> | <i>Callophrys polios</i> | Hoary elfin | 26 |
| <i>Dixioria coronata</i> | <i>Dixioria pela coronata</i> | A millipede | 18 |
| <i>Enallagma cyathigerum</i> | <i>Enallagma annexum</i> | Northern bluet | 20 |
| <i>Erythroecia hebardei</i> | <i>Psectrotarsia hebardei</i> | Hebard's noctuid moth | 28 |
| <i>Etheostoma clarum</i> | <i>Ammocrypta clara</i> | Western sand darter | 7 |
| <i>Etheostoma stigmaeum jessiae</i> | <i>Etheostoma jessiae</i> | Blueside darter | 7 |
| <i>Etheostoma stigmaeum meadiae</i> | <i>Etheostoma meadiae</i> | Bluespar darter | 7 |
| <i>Etheostoma tippicanoe</i> (in part) | <i>Etheostoma denoncourti</i> | Golden darter | 7 |
| <i>Eumeces anthracinus</i> | <i>Plestiodon anthracinus</i> | Coal skink | 9 |
| <i>Eutolype grandis</i> | <i>Psaphida grandis</i> | Gray sawfly | 41 |
| <i>Fallicambarus uhleri</i> | <i>Fallicambarus fodiens</i> | A crayfish | 35 |
| <i>Felis concolor cougar</i> | <i>Puma concolor cougar</i> | Eastern cougar | 11 |
| <i>Fixsenia favonius ontario</i> | <i>Satyrium favonius ontario</i> | Northern oak hairstreak | 38 |
| <i>Fusconaia edgariana</i> | <i>Fusconaia cor</i> | Shiny pigtoe | 14 |
| <i>Gastrocopta armifera clappi</i> | <i>Gastrocopta clappi</i> | Bluegrass snaggletooth | 12 |
| <i>Gastrocopta interna fonticula</i> | <i>Gastrodonta fonticula</i> | Appalachia bellytooth | 12 |
| <i>Gomphus brevis</i> | <i>Gomphus adelphus</i> | Moustached clubtail | 20 |
| <i>Goniobasis arachnoidea</i> | <i>Elimia arachnoidea</i> | Spider Elimia | 12 |
| <i>Graphisurus triangulifer</i> | <i>Urographis triangulifer</i> | A longhorned beetle | 37 |
| <i>Heterocloeon rubrolaterale</i> | <i>Iswaeon rubrolaterale</i> | A mayfly | 19 |
| <i>Homohadena badistriga</i> | <i>Sympistis badistriga</i> | Brown-lined sawfly | 41 |
| <i>Hybopsis cahni</i> | <i>Erimystax cahni</i> | Slender chub | 7 |
| <i>Hybopsis dissimilis</i> | <i>Erimystax dissimilis</i> | Streamline chub | 32 |
| <i>Hybopsis insignis</i> | <i>Erimystax insignis</i> | Blotched chub | 32 |
| <i>Hybopsis labrosa</i> | <i>Cyprinella labrosa</i> | Thicklip chub | 7 |
| <i>Hybopsis monacha</i> | <i>Erimonax monachus</i> | Spotfin chub (= turquoise shiner) | 7 |
| <i>Incisalia irus</i> | <i>Callophrys irus</i> | Frosted elfin | 26 |
| <i>Incisalia polios</i> | <i>Callophrys polios</i> | Hoary elfin | 26 |
| <i>Itame abruptata</i> | <i>Speranza abruptata</i> | A geometrid moth | 41 |
| <i>Itame evagaria</i> | <i>Speranza evagaria</i> | A geometrid moth | 41 |
| <i>Itame exauspicata</i> | <i>Speranza exauspicata</i> | A geometrid moth | 41 |
| <i>Itame ribearia</i> | <i>Speranza ribearia</i> | Currant spanworm moth | 28 |
| <i>Itame subcessaria</i> | <i>Speranza subcessaria</i> | Barred Itame moth | 41 |

APPENDIX 6 (continued)

| Synonym | Name used in lists above | Common name | Page |
|--|---|------------------------------------|------|
| <i>Lagochila lacera</i> | <i>Moxostoma lacerum</i> | Harelip sucker | 31 |
| <i>Lampropeltis getula nigra</i> | <i>Lampropeltis nigra</i> | Eastern black kingsnake | 9 |
| <i>Lampropeltis triangulum elapsoides</i> | <i>Lampropeltis elapsoides</i> | Scarlet kingsnake | 32 |
| <i>Lampsilis orbiculata</i> | <i>Lampsilis abrupta</i> | Pink mucket | 14 |
| <i>Lastena lata</i> | <i>Hemistena lata</i> | Cracking pearlymussel | 14 |
| <i>Lepipolys perscripta</i> | <i>Sympistis perscripta</i> | Scribbled sallow moth | 28 |
| <i>Lestes disjunctus disjunctus</i> | <i>Lestes disjunctus</i> | Northern spreadwing | 20 |
| <i>Leurognathus marmoratus</i> | <i>Desmognathus marmoratus</i> | Shovel-nosed salamander | 9 |
| <i>Libellula exusta</i> | <i>Ladona exusta</i> | White corporal skimmer | 20 |
| <i>Libellula julia</i> | <i>Ladona julia</i> | Chalk-fronted corporal skimmer | 20 |
| <i>Ligumia ochracea</i> | <i>Leptodea ochracea</i> | Tidewater mucket | 34 |
| <i>Ligumia recta latissima</i> | <i>Ligumia recta</i> | Black sandshell | 14 |
| <i>Limnaeus ocularis</i> | <i>Pseudacris ocularis</i> | Little grass frog | 32 |
| <i>Liochlorophis vernalis</i> | <i>Opheodrys vernalis</i> | Smooth greensnake | 32 |
| <i>Lithacodia albidula</i> | <i>Protodeltote albidula</i> | A noctuid moth | 41 |
| <i>Lithobates virgatipes</i> | <i>Rana virgatipes</i> | Carpenter frog | 32 |
| <i>Lithophane lepida adipel</i> | <i>Lithophane adipel</i> | A pinion moth | 27 |
| <i>Loxagrotis apicalis</i> | <i>Dichagyris grotei</i> | A noctuid moth | 28 |
| <i>Lutra canadensis</i> | <i>Lontra canadensis</i> | River otter | 33 |
| <i>Merolonche dolli</i> | <i>Acronicta dolli</i> | Doll's dagger moth | 27 |
| <i>Mesodon christyi</i> | <i>Fumonelix christyi</i> | Glossy covert | 12 |
| <i>Mesodon clingmanicus</i> | <i>Fumonelix wheatleyi clingmanicus</i> | Clingman covert | 12 |
| <i>Mesodon kalmianus</i> | <i>Inflectarius kalmianus</i> | Brown globelet | 12 |
| <i>Mesodon panselenus</i> | <i>Patera panselenus</i> | Virginia bladetooth | 13 |
| <i>Mitoura hesseli</i> | <i>Callophrys hesseli</i> | Hessel's hairstreak | 26 |
| <i>Moxostoma ariommum</i> | <i>Scartomyzon ariommum</i> | Bigeye jumprock | 32 |
| <i>Moxostoma hamiltoni</i> | <i>Thoburnia hamiltoni</i> | Rustyside sucker | 8 |
| <i>Neonympha areolatus septentrionalis</i> | <i>Neonympha helicta</i> | Helicta satyr | 26 |
| <i>Notropis hypsinotus</i> | <i>Hybopsis hypsinotus</i> | Highback chub | 7 |
| <i>Notropis lirus</i> | <i>Lythrurus lirus</i> | Mountain shiner | 7 |
| <i>Notropis whipplei</i> | <i>Cyprinella whipplei</i> | Steelcolor shiner | 7 |
| <i>Nuttallornis borealis</i> | <i>Contopus cooperi</i> | Olive-sided Flycatcher | 10 |
| <i>Nycticorax violaceus</i> | <i>Nyctanassa violacea</i> | Yellow-crowned Night-heron | 10 |
| <i>Odontonyx trivittis</i> | <i>Paralichas trivittis</i> | A beetle | 37 |
| <i>Oligia crytora</i> | <i>Neoligia crytora</i> | A noctuid moth | 40 |
| <i>Oligia exhausta</i> | <i>Neoligia exhausta</i> | A noctuid moth | 40 |
| <i>Ophiogomphus alleghaniensis</i> | <i>Ophiogomphus incurvatus alleghaniensis</i> | Allegheny snaketail | 21 |
| <i>Phyciodes pascoensis</i> | <i>Phyciodes cocyta</i> | Northern crescent | 26 |
| <i>Phyciodes selenis</i> | <i>Phyciodes cocyta</i> | Northern crescent | 26 |
| <i>Physeter catodon</i> | <i>Physeter macrocephalus</i> | Sperm whale | 29 |
| <i>Plauditus rubrolateralis</i> | <i>Iswaeon rubrolaterale</i> | A mayfly | 19 |
| <i>Plecotus rafinesquii macrotis</i> | <i>Corynorhinus rafinesquii macrotis</i> | Eastern big-eared bat | 11 |
| <i>Plecotus townsendii virginianus</i> | <i>Corynorhinus townsendii virginianus</i> | Virginia big-eared bat | 11 |
| <i>Pleurobema maculatum</i> | <i>Pleurobema oviforme</i> | Tennessee clubshell | 14 |
| <i>Pleurobema pyramidatum</i> | <i>Pleurobema rubrum</i> | Pyramid pigtoe | 14 |
| <i>Polygyra plicata</i> | <i>Millerelix plicata</i> | Cumberland liptooth | 12 |
| <i>Polyzonium rosalbum</i> | <i>Petaserpes rosalbum</i> | A millipede | 18 |
| <i>Pseudaptinus pygmaeus</i> | <i>Thalpius pygmaeus</i> | A ground beetle | 24 |
| <i>Pterourus appalachiensis</i> | <i>Papilio appalachiensis</i> | Appalachian tiger swallowtail | 38 |
| <i>Pyrgus wyandot</i> | <i>Pyrgus centaureae wyandot</i> | Appalachian grizzled skipper | 26 |
| <i>Rhodoecia aurantiago</i> | <i>Pyrrhia aurantiago</i> | Aureolaria seed borer moth | 28 |
| <i>Richia grotei</i> | <i>Dichagyris grotei</i> | A noctuid moth | 27 |
| <i>Schinia inclara</i> | <i>Schinia siren</i> | A flower moth | 28 |
| <i>Semotilus margarita</i> | <i>Margariscus margarita</i> | Pearl dace | 32 |
| <i>Sphaeroderus nitidicollis schaumii</i> | <i>Sphaeroderus schaumii</i> | Schaum's false snail-eating beetle | 24 |
| <i>Sphinx eremitus</i> | <i>Lintneria eremitus</i> | Hermit sphinx | 40 |
| <i>Stenotrema leai alicia</i> | <i>Euchemotrema leai</i> | Lowland pillsnail | 12 |
| <i>Sterna antillarum</i> | <i>Sternula antillarum</i> | Least Tern | 11 |
| <i>Sterna caspia</i> | <i>Hydroprogne caspia</i> | Caspian Tern | 10 |
| <i>Sterna maxima</i> | <i>Thalasseus maximus</i> | Royal Tern | 11 |
| <i>Sterna nilotica</i> | <i>Gelochelidon nilotica</i> | Gull-billed Tern | 10 |

| Synonym | Name used in lists above | Common name | Page |
|---------------------------------|-----------------------------------|------------------------------------|-------------|
| <i>Sterna sandvicensis</i> | <i>Thalasseus sandvicensis</i> | Sandwich Tern | 11 |
| <i>Stizostedion canadense</i> | <i>Sander canadensis</i> | Sauger | 8 |
| <i>Sylvilagus obscurus</i> | <i>Sylvilagus transitionalis</i> | New England cottontail | 33 |
| <i>Tetracha carolina</i> | <i>Megacephala carolina</i> | Carolina big-headed tiger beetle | 37 |
| <i>Tetragoneuria canis</i> | <i>Epitheca canis</i> | Beaverpond baskettail | 20 |
| <i>Tetragoneuria costalis</i> | <i>Epitheca costalis</i> | Stripe-winged baskettail | 36 |
| <i>Tetragoneuria semiaquea</i> | <i>Epitheca semiaquea</i> | Mantled baskettail | 20 |
| <i>Tetragoneuria spinosa</i> | <i>Epitheca spinosa</i> | Robust baskettail | 20 |
| <i>Trichopetalum packardi</i> | <i>Zygonopus packardi</i> | Packard's blind cave millipede | 35 |
| <i>Trichopetalum weyeriense</i> | <i>Zygonopus weyeriense</i> | Grand Caverns blind cave millipede | 18 |
| <i>Trichopetalum whitei</i> | <i>Zygonopus whitei</i> | Luray Caverns blind cave millipede | 18 |
| <i>Trionyx spiniferus</i> | <i>Apalone spinifera</i> | Spiny softshell | 9 |
| <i>Wyeomyia haynei</i> | <i>Wyeomyia smythii</i> | Pitcher plant mosquito | 28 |
| <i>Xestia tenuicula</i> | <i>Pseudohermonassa tenuicula</i> | A dart moth | 41 |
| <i>Zanclognatha gypsalis</i> | <i>Zanclognatha theralis</i> | A noctuid moth | 28 |

APPENDIX 7. RARE SPECIES SIGHTING FORM

Virginia Department of Conservation and Recreation, Division of Natural Heritage
217 Governor Street, Richmond, Virginia 23219
(804) 786-7951

An important component of the natural heritage inventory and protection process involves gathering information from state experts, professionals, and avocational naturalists throughout the state. To facilitate this, the Division of Natural Heritage has developed this rare species sighting form. If you would like to participate in our inventory and protection activities, please take a few moments to complete the attached form for any species from our rare species list. These data will be evaluated for incorporation into the natural heritage database and used exclusively for the protection of the rare species and its habitat. Please send the form to the staff zoologist at the address above. Thank you for your support. The Division of Natural Heritage can only realize the protection of the Commonwealth's natural diversity by working through a network of knowledgeable and concerned individuals.

SPECIES OBSERVED:

DATE OBSERVED:

COUNTY:

USGS QUADRANGLE MAP NAME (if known; mark location on a photocopy of the appropriate map and submit with this form):

LOCATION (Provide a detailed description, including directions from nearest town, road intersection, etc.):

HABITAT DESCRIPTION (Include associated species, elevation, natural features, natural community type, etc.):

POPULATION DATA (Number of individuals observed, age, size, evidence of reproduction, etc.):

LANDOWNER (If know, provide name, address, and phone number):

THREATS TO SPECIES OR EVIDENCE OF HABITAT DISTURBANCE:

REPORTED BY (Include name, address, and phone number):

DATE OF REPORT: