

A Guide to the Rare Animals of Tennessee



Photo courtesy Dr. Ken Catania

Star-nosed Mole, *Condylura cristata*, In Need of Management



Division of Natural Areas, Tennessee Department of Environment & Conservation

Tennessee Natural Heritage Program

Rare Animals List

September 2016



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**NATURAL HERITAGE RESOURCES OF TENNESSEE:
RARE ANIMAL SPECIES
September 2016**

INTRODUCTION

The Tennessee Department of Environment and Conservation's Division of Natural Areas (DNA) is dedicated to restoration and protection of plants, animals, and natural communities that represent the natural biological diversity of Tennessee. The DNA seeks to conserve our state's natural environments by identifying and protecting significant natural communities and rare species, and by promoting understanding and application of ecological principles. Within the DNA the Tennessee Natural Heritage Program's (TNHP) responsibilities include five focal areas:

- Identification of sites for inclusion in the State Natural Areas Program or other land conservation initiatives
- Regulation of the state's ginseng trade
- Field surveys for certain federally listed species, especially plants
- Environmental reviews for public agencies and non-governmental organizations
- Location, identification, and documentation of rare plants¹ and animals in Tennessee

The TNHP was established in 1974 with the assistance and direction of The Nature Conservancy (TNC), and was one of the first state Natural Heritage programs in the U.S. The TNHP relies on the use of computerized databases to record and report important information regarding the state's rare, threatened, and endangered plants, animals, and natural communities. In 2001, the data management arm of TNC was reorganized as a separate entity, NatureServe, which continues to provide centralized support to heritage programs, and coordinates the greater Natural Heritage Network, of which the TNHP is a member.

Lists produced from the program's [Biotics](#) database help to accomplish the goals of conservation and protection of rare species. Federal, state, and private agencies, organizations, and individuals use species lists produced by the TNHP in their environmental review processes. In this edition, 525 invertebrate and 187 vertebrate species are actively tracked, meaning that the TNHP has electronic occurrence information for these organisms, or that the program intends to acquire such data. Additionally, the TNHP maintains 186 invertebrates and 64 vertebrates on a watch list- species for which information is accumulated passively and not presented in Biotics or online TDEC resources. Some of these animals may warrant active tracking at a later time. Species on the watch list include possibly extirpated animals, formerly tracked species determined to

¹ T.C.A. 70-8-301 through 70-8-314, [Rare Plant Protection and Conservation Act of 1985](#)

be more abundant than originally speculated, and certain obscure species for which too little information exists to warrant active tracking.

If you do not have a list that has been revised in the past year, please visit our [website](#) to download the latest version. **Note that legal federal and/or state status may change before succeeding editions of this list.**

We encourage knowledgeable individuals to assist the TNHP staff in determining accurate rare animal list contents and ranking information. Please submit comments and justification to david.withers@tn.gov for consideration. Your assistance is appreciated.

The legally defined federal and state status is indicated for each species on this list. Federally listed species are protected by the Endangered Species Act of 1973, as amended. The U.S. Fish and Wildlife Service (FWS) administers the act and assigns federal status designations to species that are threatened with extinction (endangered) and those which may become endangered in the foreseeable future (threatened). The state status of vertebrates and certain invertebrates (mollusks & crustaceans) is determined by the Tennessee Wildlife Resources Agency (TWRA)². Generally, the TWRA designation will be at the same level (or higher) as the federal status. However, many species may be listed by the TWRA that do not have a federal status at present. Likewise, some federal species (including insects and arachnids) are not listed by the TWRA. Many rare invertebrates are not currently afforded state or federal protection, but are tracked by the TNHP.

Those species presented in the TNHP list with neither a state nor federal designation are considered rare based on available information. Data are collected on these species in order to minimize the necessity of their listing as endangered or threatened. Inclusion of unlisted species is for information only and is not intended to imply a legal obligation to protect them beyond that afforded by relevant state or federal regulations.

The nominations of new species or revision of statuses for currently listed species may change for the following reasons:

- New information about the distribution of the species in Tennessee and/or throughout its range
- Changes in the number of known populations in Tennessee
- Viability of these populations
- Habitat specificity
- Known or perceived threats to the species and its habitats
- Number of protected populations

² T.C.A. 70-1-101(41) and 70-8-101 through 70-8-112, [Tennessee Nongame and Endangered or Threatened Wildlife Species Conservation Act of 1974](#)

- Difficulty of adequately protecting or managing habitats for the species' survival
- Biological factors which influence their ability to reproduce or respond to disturbance
- Dependence on other species that also may be in jeopardy

Status and ranking are subject to change during the year, so periodically check our website to make certain you have the most recent information. Additional detail about species listed by the TWRA and FWS may be found at <http://www.tn.gov/twra/topic/species-list> and www.fws.gov/endangered/ respectively.

Rationale

Tennessee is one of the most biodiverse states in the nation, boasting over 300 species of fish, at least 80 mammal and 60 reptile species, approximately 70 different amphibians (including over 40 salamander species), and over 340 species of birds.

The invertebrates are no less impressive, with over 225 kinds of land snails, 100 aquatic snail species, at least 120 mussel and 80 crayfish species, and thousands of insects. Many of our rarer species are invertebrates, and some cave specialists (such as certain beetles, springtails, & pseudoscorpions) may be limited to just one or a very few sites.

With so many species, subspecies, and forms, and in part thanks to our geography, geology, and climate, the number of habitat specialists is remarkable. Endemism is high, with at least 90 animal species known only from Tennessee. Many other species exist on the periphery of their range in Tennessee (where evolutionary processes may act most quickly) or may range little outside of Tennessee.

It is the hope of the TNHP that this list provides not only the nuts and bolts (the legal statuses) of rare species, but also that it instructs the reader as to the great diversity we all have inherited. Truly, its remarkable biodiversity makes Tennessee an outstanding state in which to live.

List Structure

Species included in this list are presented by major taxonomic grouping, then alphabetically by scientific name, and contain the following fields: scientific name, taxonomic authority, common (vernacular) name if assigned, the physiographic regions from which we have mapped records, habitat, federal status, state status, and global and state ranks (as assigned by NatureServe and TNHP, respectively).

Scientific Name

Within this list, each species' scientific name is generally that accepted by the [International Commission on Zoological Nomenclature](#) and recorded by NatureServe. The scientific name is followed by the taxonomic authority for the species. If the species has at some point been reassigned to a different genus, the name of the original authority appears in parentheses. Each scientific name is linked to the corresponding page in NatureServe *Explorer* where detailed species information may be found. The scientific name field includes a link to search for the species on the [NatureServe Explorer](#) website.

Common or Vernacular Name

It is a common misconception that vernacular names change more frequently than scientific names. That is not necessarily the case. What is true is that many more common names may exist simultaneously than the scientific parlance. This list presents common names generally adopted by the scientific community and presented in the corresponding authoritative publications. Many cave invertebrate species possess no assigned common names.

Physiographic Province

The physiographic provinces of Tennessee are presented graphically on page xii, following designations adapted from The Geologic History of Tennessee: Department of Environment and Conservation, Division of Geology Bulletin 74 (R. A. Miller, 1974). From west to east they include the Mississippi Floodplain (MF), Coastal Plain (CP), West Tennessee Uplands (WU), Western Highland Rim (WR), Central Basin (CB), Eastern Highland Rim (EH), Cumberland Plateau (CU), Sequatchie Valley (SV), Cumberland Mountains (CM), Ridge & Valley (RV), and Blue Ridge Mountains (BR).

Habitat

General habitat requirements for each species are noted, including physiographic or watershed restrictions if known. As other habitats may exist for poorly studied or obscure species, these habitat comments may not describe every possible location for the species in question. More comprehensive habitat listings for each species may be found on the [NatureServe Explorer](#) website.

Federal Status

Federally listed animals are protected by the Endangered Species Act of 1973 (as amended), and the list is maintained by the FWS. In Tennessee, listing and recovery responsibilities are divided between a number of FWS offices. The FWS Cookeville Field Office has direct responsibility for a majority of these species. Please visit <https://www.fws.gov/cookeville/> for additional information about FWS activities in Tennessee.

Applicable federal statuses are defined as follows, based on nomenclature adopted by NatureServe and the TNHP:

LE	Listed Endangered	Threatened by extinction throughout all or a significant portion of its range
SAE	Endangered by Similarity of Appearance	Treated as an endangered species because it may not be easily distinguished from a listed species
LT	Listed Threatened	Likely to become an endangered species in the foreseeable future
SAT	Threatened by Similarity of Appearance	Treated as a threatened species because it may not be easily distinguished from a listed species
PE	Proposed Endangered	Proposed for listing as endangered
PT	Proposed Threatened	Proposed for listing as threatened
C	Candidate species ³	USFWS has sufficient information to support proposals to list the species as threatened or endangered, and for which the Service anticipates a listing proposal
(status, XN)	Nonessential experimental population in portion of range	Introduced or re-introduced in an area from which it has been extirpated, and for which certain provisions of the Act may not apply
PXN	Proposed nonessential experimental population	Proposed as a nonessential experimental population

(Modified from Federal Register, 50 CFR Part 17.11 {31 December 1999})

One matter of key import is the “XN” designation for “Nonessential experimental population.” This attribute for certain federal species indicates that the FWS is aware of at least one such population for that species in Tennessee. It does *not* mean that all known populations in Tennessee are considered “XN.” Please consult the FWS for guidance regarding specific sites and populations. FWS documentation refers to this status as “nonessential experimental population” (NEP). A live link to FWS information is provided for each federally listed species via its [Federal Status](#) listing.

³ Animals listed as candidates may be added to the list of Endangered and Threatened species, and as such, consideration wisely is given to them in environmental planning. Species listed as LE, LT, PE, and PT must be given consideration in environmental planning involving federal funds, lands, or permits, and consideration likewise is advisable for non-federal activities. For further information, please contact the Tennessee Field Office of the FWS, 446 Neal Street, Cookeville, TN 38501; (931) 528-6481.

State Status

In Tennessee, only vertebrates, mollusks and crustaceans may be formally listed by the TWRA as Endangered, Threatened, or “Deemed in Need of Management” ([T.C.A. 70-8-104](#), [70-8-105](#), [70-8-107](#)). This means that invertebrate groups including insects and arachnids cannot be listed by the TWRA, but may be listed by the FWS.

E	Endangered	Any species or subspecies of wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely to become so within the foreseeable future
T	Threatened	Any species or subspecies of wildlife that is likely to become an endangered species within the foreseeable future
D	In Need of Management	Any species or subspecies of wildlife that needs specific management to prevent it from becoming a threatened species within the state in the foreseeable future

A TWRA Nongame Primer may be found here:

https://admincms.tn.gov/assets/entities/environment/attachments/na_twra-nongame-primer.pdf

State Wildlife Action Plan

In 2005, TWRA and TNC developed the first State Wildlife Action Plan (SWAP) for Tennessee, from which was produced a detailed list of species of Greatest Conservation Need (GCN). The original SWAP was comprehensively updated in 2015. Recognizing the role the TWRA plays in the conservation of habitats- including those containing species that cannot be listed legally at the state level- the SWAP includes numerous insects, arachnids, millipedes, and other invertebrates not legally defined as wildlife. Details about the 2015 SWAP and GCN species may be found at www.tnswap.com. Numerous GCN species are represented in the current rare animals list.

Global and State Ranks

As a guide in setting conservation priorities, TNC developed a ranking system for estimating the abundance of plants and animals tracked by Natural Heritage programs. The Global Rank ([GRANK](#)) is assigned by NatureServe Central Zoology staff based on the best range-wide (global) abundance information for each species. A five-tier system (G1-G5) is used to describe rarity, from G1 (extremely rare) to G5 (widespread). The same system is applied by the TNHP to assign the State Rank (SRANK), which describes the species' abundance within our state's borders. Numerous land management agencies, including the Cherokee National Forest, use GRANK to help determine sensitive species that occur on their properties.

SRANK and GRANK are based primarily upon the number of occurrences of the element (species) within the state and range-wide, respectively. For obscure or under-studied species, ranks are based on the best available information, and consideration may be given to other factors influencing the rarity of each species, including threats, abundance, population trends, and distribution.

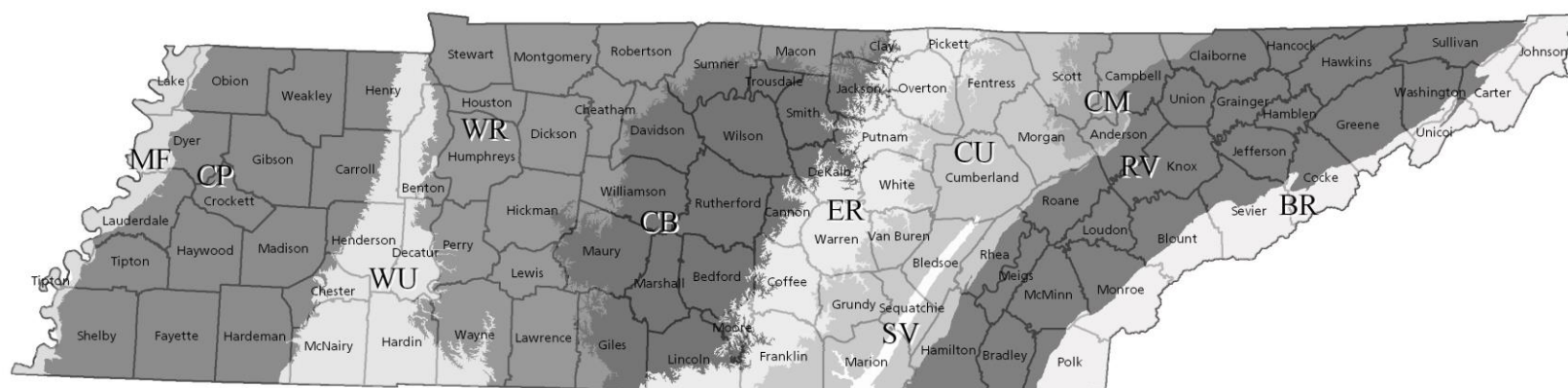
[SRANKs](#) used in this list are defined below. GRANKs are similarly defined, except that ranking criteria apply range-wide (e.g. an S1 species is “critically imperiled” in the state, and a G1 species is “critically imperiled” range-wide).

S1	Critically Imperiled —Critically imperiled in Tennessee because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from Tennessee.
S2	Imperiled —Imperiled in Tennessee because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation.
S3	Vulnerable —Vulnerable in Tennessee due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation.
S4	Apparently Secure —Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S5	Secure —Common, widespread, and abundant in Tennessee.
SH	Possibly Extirpated —Known only from historical records but still some hope of rediscovery. There is evidence that the species or ecosystem may no longer be present in Tennessee, but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; (2) that a species or ecosystem has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in Tennessee.
SX	Presumed Extirpated —Species or ecosystem is believed to be extirpated from Tennessee. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.
S#S#	Range Rank — A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).
S?, S_?	Range Rank — A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).
_N	Nonbreeding —Conservation status refers to the non-breeding population of the species in Tennessee (mostly applies to vertebrates).

_B	Breeding —Conservation status refers to the breeding population of the species in Tennessee (mostly applies to vertebrates).
_Q	Questionable taxonomy that may reduce conservation priority —(GRANKs only).
_T#	Intraspecific Taxonomic Unit (trinomial)—The status of a subspecies (GRANKs only).
_NR	Unranked — Conservation status not yet assessed.
_U	Unrankable —Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

Updates to NatureServe Conservation Status and ranking methodology may be found on the [NatureServe](#) website.

Physiographic Provinces of Tennessee



MF	Mississippi Flood Plain
CP	Coastal Plain
WU	West Tennessee Uplands
WR	Western Highland Rim
CB	Central Basin
ER	Eastern Highland Rim

CU	Cumberland Plateau
CM	Cumberland Mountains
SV	Sequatchie Valley
RV	Ridge and Valley
BR	Blue Ridge Mountains

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
ARACHNIDA (SPIDERS & PSEUDOSCORPIONS)	Arachnids				
Anthrobia mammothia	Tellkamp, 1844			Mammoth Cave spider	
Terrestrial cave obligate; reported from a handful of caves in the middle Cumberlands; Bl edsoe, Grundy, & Van Buren counties.		ER, SV		S1	G5
Appaleptoneta sp. 1				A Leptonetid Spider From Ghost River Cave	
Terrestrial cave obligate; reported from the northern Cumberlands.		ER		S1	G1
Chitrella archeri	Malcolm & Chamberlin, 1960			A Cave Obligate Pseudoscorpion	
Terrestrial cave obligate; associated with bat guano in caves of eastern middle Tennessee.		ER		S1S2	G1G2
Cybaeopsis pantopla	(Bishop and Crosby, 1935)			An Amaurobiid Spider	
Terrestrial cave obligate; reported from northern Cumberlands.				S2	G3
Fumontana deprehendor	Shear, 1977			A Harvestman	
Within well-decayed hemlock logs, under rocks or leaf litter; rich woods with moderate slopes; southern Appalachians.				S1	G1G2
Hesperochernes mirabilis	(Banks, 1895)			Southeastern Cave Pseudoscorpion	
Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.		ER, RV, SV, CU		S3	G5
Kleptochthonius affinis	Muchmore, 1976			A Cave Obligate Pseudoscorpion	
Terrestrial cave obligate; Ridge & Valley.		RV		S1S2	G1G2
Kleptochthonius barri	Muchmore, 1965			A Cave Obligate Pseudoscorpion	
Terrestrial cave obligate; southern Cumberlands.		ER, CU		S1S2	G1G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
ARACHNIDA (SPIDERS & PSEUDOSCORPIONS)	Arachnids				
Kleptochthonius charon	Muchmore, 1965		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Sequatchie Valley.	SV, CU			S1S2	G1G2
Kleptochthonius daemonius	Muchmore, 1965		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Cumberland Plateau.	ER, CU			S1S2	G1G2
Kleptochthonius infernalis	Malcolm & Chamberlin, 1961		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Grassy Cove; Cumberland County.	CU			S1	G1
Kleptochthonius magnus	Muchmore, 1966		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; southern Cumberlands.	CU			S1	G1
Kleptochthonius myopius	Malcolm & Chamberlin, 1961		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Eastern Highland Rim.	CB			S1	G1
Kleptochthonius pluto	Muchmore, 1965		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Eastern Highland Rim.	ER, CU			S1	G1
Kleptochthonius rex	Malcolm & Chamberlin, 1961		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Eastern Highland Rim.	ER			S1	G1
Kleptochthonius stygius	Muchmore, 1965		A Cave Obligate Pseudoscorpion		
Terrestrial cave obligate; Eastern Highland Rim.	CB			S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
ARACHNIDA (SPIDERS & PSEUDOSCORPIONS)	Arachnids				
Kleptochthonius tantalus	Muchmore, 1966			A Cave Obligate Pseudoscorpion	
Terrestrial cave obligate; southern Cumberlands.	CU			S1	G1
Liocranoides archeri	Platnick, 1999			Archer's Two-clawed Spider	
Terrestrial cave obligate; reported from a handful of caves in mid and S Cumberlands; Franklin, Grundy, Marion, & Warren counties.				S2	G2
Liocranoides tennesseensis	Platnick, 1999			Tennessee Two-clawed Spider	
Terrestrial cave associate; reported from a handful of caves in mid and N Cumberlands; Cumberland, Putnam, & Warren counties.				S1	G1
Microcreagris nickajackensis	Muchmore, 1966			A Cave Obligate Pseudoscorpion	
Terrestrial cave obligate; known from only one cave in S Cumberlands; Marion County.				S1	G1G2
Microhexura montivaga	Crosby and Bishop, 1925			Spruce-fir Moss Spider	
Moss mats in high-elevation spruce-fir forests; Southern Appalachian.	BR		LE	S1	G1
Nesticus barri	Gertsch, 1984			A Cave Obligate Spider	
Terrestrial cave obligate; southern Cumberlands; reported from Franklin & Marion counties.	CU			S3	G3
Nesticus barrowsi	Gertsch, 1984			A Cave Obligate Spider	
Terrestrial cave obligate; Appalachian Mountains.	BR			S1S2	G1G2
Nesticus dilutus	Gertsch, 1984			Grassy Creek Cave Spider	
Terrestrial cave obligate; Rhea County.	RV			S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
ARACHNIDA (SPIDERS & PSEUDOSCORPIONS)	Arachnids				
Nesticus furtivus	Gertsch, 1984			Crystal Caverns Cave Spider	
Terrestrial cave obligate; S Cumberlands; Hamilton County; known only from the type locality.	RV			S1	G1
Nesticus paynei	Gertsch, 1984			A Cave Spider	
Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.	RV, BR			S3	G3G4
Nesticus pecki	Hedin and Dellinger, 2005			Monteagle Cave Spider	
Terrestrial cave associate and possibly obligate; known from one cave in S. Cumberlands; Marion County.				S1	GNR
Nesticus stygius	Gertsch, 1984			A Cave Obligate Spider	
Terrestrial cave obligate; reported from wet caves; northern Cumberlands.	ER, CU			S1S2	G1G2
Nesticus tennesseensis	(Petrunkevich, 1925)			Tennessee cave spider	
Terrestrial cave associate or possibly obligate; east Tennessee.	ER, RV			S2S4	G3G4
Phalangodes appalachius	(Goodnight and Goodnight, 1942)			A Cave Obligate Harvestman	
Terrestrial cave obligate; Cumberland Plateau.	ER, CU			S3	G3G4
Poecilophysis weyerensis	(Packard)			A Cave Mite	
Terrestrial cave obligate; east Tennessee.				S2S3	G3?
Porhomma cavernicola	(Keyserling, 1886)			Appalachian Cave Spider	
Terrestrial cave obligate; eastern half of Tennessee; sporadic.	ER, CB, CU			S1?	G5

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
ARACHNIDA (SPIDERS & PSEUDOSCORPIONS)	Arachnids					
Theromaster sp. 1	A Harvestman From Cummings Cove Cave					
Terrestrial cave associate; known from one cave in the Cumberland Plateau; Van Buren County.		CU			S1	G1
Tyrannochthonius fiskei	Muchmore, 1996					A Cave Obligate Pseudoscorpion
Terrestrial cave obligate; reported from one cave in the S Cumberlands; Franklin County.		CU			S1	G1
Tyrannochthonius halopotamus	Muchmore, 1996					A Cave Obligate Pseudoscorpion
Terrestrial cave obligate; known from one cave in the S Cumberlands; Franklin County.					S1	G1
Tyrannochthonius steevesi	Muchmore, 1996					A Cave Obligate Pseudoscorpion
Terrestrial cave obligate; northernmost Eastern Highland Rim; known from one cave in Pickett County.		ER			S1	G1
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans					
Acanthocyclops parasensitivus	J. W. Reid, 1997					A Copepod
Aquatic cave associate; reported from one cave in the S Cumberlands; Grundy County.					S2	G2
Amerigoniscus nicholasi	(Vandel, 1965)					A Cave Obligate Isopod
Terrestrial cave obligate; known from two caves; Western Highland Rim and Ridge & Valley.		WR, RV			S1S2	G1G2
Amerigoniscus paynei	(Muchmore, 1970)					A Cave Obligate Isopod
Terrestrial cave obligate; northern Ridge & Valley; Anderson, Hancock, & Union counties.					S1S2	G1G2
Batrachus angulus	Koenemann and Hol singer, 2001					Cumberland Gap Cave Amphipod
Aquatic cave obligate; Cumberland Gap area.		RV			S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
<i>Barbicambarus cornutus</i>	(Faxon, 1884)			Bottle Brush Crayfish	
Under slabrock in medium-large tributaries of Barren River watershed; Sumner, Macon, Clay counties.	WR			S2	G4
<i>Barbicambarus simmonsii</i>	Taylor and Schuster, 2010			Tennessee Bottlebrush Crayfish	
Under slabrock in medium-large tributaries of Tennessee River; Shoal Creek watershed, Lawrence County. Reported from two locations in Tennessee.	WR			S2?	G1G2
<i>Caecidotea bicrenata whitei</i>	Lewis and Bowman, 1981			A Cave Obligate Isopod	
Aquatic cave obligate; middle Tennessee.				S1?	G3G4T3T ⁴
<i>Caecidotea circulus</i>	(Steeves, 1968)			A Cave Obligate Isopod	
Aquatic cave obligate; Cumberland Plateau.	SV, CU			S1	G1G2
<i>Caecidotea incurva</i>	(Steeves, 1968)			Incurved Cave Isopod	
Aquatic cave obligate; known from two wet caves in east Tennessee.	RV, BR			S1	G2G4
<i>Caecidotea nickajackensis</i>	(Cope and Packard, 1881)			Nickajack Cave Isopod	
Aquatic cave obligate; Nickajack Cave (historically); probably extirpated by impoundment.	CU			S1	GH
<i>Caecidotea nortoni</i>	(Steeves, 1966)			A Cave Obligate Isopod	
Aquatic cave obligate; eastern Ridge & Valley.	RV			S1S2	G2G3
<i>Caecidotea recurvata</i>	(Steeves, 1963)			Southwestern Virginia Cave Isopod	
Aquatic cave obligate; northernmost Ridge & Valley; reported from Campbell, Claiborne, & Hancock counties.				S2	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Caecidotea scyphus	(Steeves and Hol singer, 1968)			A Cave Obligate Isopod	
Aquatic cave obligate; Grassy Cove; Cumberland County.	CU			S1	G1G2
Cambarus bouchardi	Hobbs, 1970			Big South Fork Crayfish	
Small to medium sized streams under rock cover; Roaring Paunch Creek & tributaries (Big South Fork watershed); tertiary burrower.	CM, CU	E		S1	G2
Cambarus clivosus	Taylor, Soucek, and Organ, 2006			Short Mountain Crayfish	
Occurs in spring- or seep-fed tributaries of Caney Fork & Stones rivers; escarpment of E Highland Rim in Cannon & DeKalb counties.	ER, CB			S2	G2
Cambarus conasaugaensis	Hobbs and Hobbs III, 1962			Mountain Crayfish	
Mountain seeps & small to medium sized streams in Appalachians; Hiwassee River watershed, Polk County.	BR			S1	G3
Cambarus cymatilis	Hobbs, 1970			Conasauga Blue Burrower	
Primary burrower; seeps & wet grassy areas including homesites; Conasauga R watershed and adjacent portion of Hiwassee R basin.	RV	E		S1	G1
Cambarus deweesae	Bouchard and Etnier, 1979			Valley Flame Crayfish	
Primary burrower; open areas with high water tables; northern Ridge & Valley.	RV, CM, CU	E		S1	G4
Cambarus extraneus	Hagen, 1870			Chickamauga Crayfish	
Springs & small to medium sized streams under rocks or in vegetation; South Chickamauga Creek watershed, Hamilton County.	RV	T		S1S2	G2
Cambarus hamulatus	(Cope, 1881)			Prickly Cave Crayfish	
Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.	SV, CU			S3	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Cambarus hiwasseensis	Hobbs, 1981				Hiwassee Crayfish
Under rocks in clear, swift flowing tributaries of the upper Hiwassee River, Polk County.	BR			S1	G3G4
Cambarus obeyensis	Hobbs and Shoup, 1947				Obey Crayfish
Under cover in small-medium sized streams; headwaters of East Fork Obey River; northern Cumberlands; tertiary burrower.	CU	T		S2	G1
Cambarus pristinus	Hobbs, 1965				Pristine Crayfish
Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	CU	E		S2	G2
Cambarus sp. 1					Emory River Crayfish
Under rock cover in Emory River & larger tributaries, Morgan County.	CU			S1	G1
Cambarus stockeri	Thoma, 2011				Cocoa Crayfish
Primary burrower; seeps & wet grassy areas incl homesites; Conasauga R watershed and adj Hiwassee R basin; Bradley County.	RV			S1S2	GNR
Cambarus williamsi	Bouchard and Bouchard, 1995				Brawleys Fork Crayfish
East Fork Stones River, its gravel-bottomed tributaries, and karst springs; makes short burrows in cobble; Cannon County.	ER, CB	E		S2	G2
Dactylocythere steevesi	(Hart and Hobbs 1961)				A Cave Obligate Shrimp
Aquatic cave obligate; crayfish commensal; Cumberland Plateau & Eastern Highland Rim generally.	ER, CU			S2S3	G4
Diacyclops indianensis	Reid, 2004				Indiana Groundwater Copepod
Aquatic cave obligate from stream gravels & flood pools; Highland Rim escarpment to the Cumberland Plateau.				S1	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Diacyclops yeatmani	J. W. Reid, 1988			Yeatman's Groundwater Copepod	
Aquatic cave obligate; central & southern Cumberlands generally; possibly part of a species complex.	ER, CU			S1	G2G3
Donnaldsoncythere tuberosa	(Klie, 1931)			A Cave Obligate Shrimp	
Aquatic cave obligate; Eastern Highland Rim; Putnam & Overton counties; crayfish commensal.	ER			S2?	G2G3
Fallicambarus horton	Hobbs and Fitzpatrick, 1970			Hatchie Burrowing Crayfish	
Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.	CP, WU	E			S1 G1
Ligidium elrodii hancockensis	Schultz, 1970			A Cave Obligate Isopod	
Terrestrial cave obligate; in wet organic debris; northern Ridge & Valley.	RV			S1?	G4G5T1T2
Megacyclops donnaldsoni	(Chappuis, 1929)			A Copepod	
Aquatic cave obligate; known from one cave in S Cumberlands; Grundy County.					S1 G3G4
Miktoniscus barri	Vandel, 1965			A Cave Obligate Isopod	
Terrestrial cave obligate from leaf litter; reported from Western Highland Rim & northern Cumberlands; spotty distribution.	ER, WR			S2?	G2G4
Orconectes alabamensis	(Faxon, 1884)			Alabama Crayfish	
Small-medium sized streams, in pools under rocks; Tennessee River tributaries from Shoal Creek downstream to the Buffalo River.	WR, WU	D			S2 G5
Orconectes australis	(Rhoades, 1941)			Southern Cave Crayfish	
Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	ER, CU			S3	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Orconectes barri	Buhay and Crandall, 2008			Cumberland Plateau Cave Crayfish	
Aquatic cave obligate; subterranean streams and pools; Cumberland Plateau escarpment abutting KY border; Pickett & Fentress counties.				S1S2	G2
Orconectes burri	Taylor and Sabaj, 1998			Blood River Crayfish	
In woody debris or leaf piles, small-medium sized streams with sand-gravel substrates; Blood River drainage (TN River), Henry County.				CP, WU	S1 G2
Orconectes cooperi	Cooper and Hobbs, 1980			Flint River Crayfish	
Among leaf litter in medium-sized streams; headwaters of Flint River watershed; Lincoln County.				ER	S1 G1
Orconectes incomptus	Hobbs and Barr, 1972			Tennessee Cave Crayfish	
Aquatic cave obligate; subterranean streams & shallow pools; lower-elevation caves of Highland Rim escarp; Cumb River watershed.				CB	E S1 G2
Orconectes pellucidus	(Tollkampf, 1844)			Mammoth Cave Crayfish	
Aquatic cave obligate; subterranean streams & pools of Penneroyal Plain; Montgomery & Robertson counties.				WR	S3 G4
Orconectes shoupi	Hobbs, 1948			Nashville Crayfish	
1st-order & larger streams, generally with bedrock bottom, under slabrock; endemic to Mill Creek watershed; Davidson & Williamcos.				CB	E LE S1S2 G1G2
Orconectes taylori	Schuster, 2008			Crescent crayfish	
Found among woody debris & tree roots; small-med size tribs of N Fork Obion River with slow-med current; Henry County.				CP	S2 G2
Orconectes wrighti	Hobbs, 1948			Hardin Crayfish	
Small-medium sized streams with cobble-sand substrates, under rocks or in leaf litter; western tribs of the Tennessee River in Hardin & McNairy counties.				WU	E S2 G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Pseudocandona jeanneli	(Klie, 1931)			Jeannel's Cave Ostracod	
Aquatic cave obligate; reported from six caves along the western escarpment of the Cumberland Plateau.				S1S2	G2
Sagittocythere barri	(Hart and Hobbs, 1961)			Ectocommensal Ostracod	
Aquatic cave obligate; crayfish commensal.		ER, CB, CU		S3	G5
Stygobromus barryi	Hol singer, 1978			A Cave Obligate Amphipod	
Aquatic cave obligate; northern Blue Ridge mountains; Unicoi County.		BR		S1	G2G3
Stygobromus dicksoni	Hol singer, 1978			A Cave Obligate Amphipod	
Aquatic cave obligate from drip pools; Lookout Mountain; Hamilton County.				S1S2	G5
Stygobromus fecundus	Hol singer, 1978			A Cave Amphipod	
Aquatic cave obligate, from rimstone pools; Cades Cove; Great Smoky Mountains National Park.		BR		S1	G1G2
Stygobromus finleyi	Hol singer, 1978			Finley's Cave Amphipod	
Aquatic cave obligate, from shallow pools; northern Ridge & Valley; Claiborne County.		RV		S1	G3G4
Stygobromus mackini	Hubricht, 1943			Southwestern Virginia Cave Amphipod	
Aquatic cave obligate; reported from six counties in northern Ridge & Valley.				S2	G5
Stygobromus nortoni	(Hol singer, 1969)			Norton's Cave Amphipod	
Aquatic cave obligate, from pools; Eastern Highland Rim and Ridge & Valley.		ER, RV		SH	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
CRUSTACEA (AMPHIPODS, ISOPODS & DECAPODS)	Crustaceans				
Stygobromus sp. 24					Cave Amphipod (Overton Co., TN)
Aquatic cave obligate; wet caves in the escarpment of the Cumberland Plateau; Overton County.	ER, CU			S1	G1
Stygobromus sp. 30					Bosnak's Cave Amphipod
Aquatic cave obligate; reported from a handful of caves in the middle Cumberlands; White and Van Buren counties.				S2	G2
Stygobromus sp. 33					A Cave Amphipod from Rutherford County
Aquatic cave obligate; known from a single cave in the Central Basin of Rutherford Co.				S1	G1
Stygobromus sp. 34	Hol si nger				A Cave Amphipod from Dickson County
Aquatic cave obligate; known from a single cave in the Western Highland Rim of Dickson County.	WR			S1S2	G1G2
Stygobromus sparsus	Hol si nger, 1978				A Cave Obligate Amphipod
Aquatic cave obligate, from drip pools; Cades Cove; Great Smoky Mountains National Park.	BR			S1S2	G4
Stygobromus vitreus	Cope, 1872				An Amphipod
Aquatic cave obligate; pools in wet caves; northernmost Highland Rim and southernmost Cumberlands.	WR, ER, CU			S2	G4
COLEOPTERA (BEETLES)	Insects				
Aloconota diversiseta	Kl i maszewski and Peck, 1986				A Rove Beetle
Terrestrial cave obligate; Cumberland Plateau.	CU			S1	G1
Anillinus sp. 5					Flag Trail Cave Beetle
Terrestrial cave obligate; northern Cumberlands.	CU			S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
Arianops stygia	Park, 1960				Cave Ant Beetle
Terrestrial cave obligate; known from one cave in the middle Cumberlands; Warren County.				S1	G1
Atheta lucifuga	Klimaszewski and Peck, 1986				Light Shunning Rove Beetle
Terrestrial cave associate; reported from two caves in the Cumberland Plateau; Van Buren County.				S2	G4
Batriasymmodes greeveri	Park 1965				A Cave Obligate Beetle
Terrestrial cave obligate; northern Ridge & Valley.				S1S2	G1G2
Batriasymmodes quisnamus	(Park, 1951)				A Cave Obligate Beetle
Terrestrial cave obligate; middle Tennessee.				S3	G3
Batriasymmodes spelaeus	(Park, 1951)				A Cave Obligate Beetle
Terrestrial cave obligate; northern Cumberlands and northern Ridge & Valley.				S2?	G3G4
Batriisodes barri	Park, 1958				A Cave Obligate Beetle
Terrestrial cave obligate; Western Highland Rim; Dickson County.				S1S2	G1G2
Batriisodes clypeospecus	Park, 1951				A Cave Obligate Beetle
Terrestrial cave obligate; northern Cumberlands.				S1S2	G1G2
Batriisodes ferulifer	Park, 1960				A Cave Obligate Beetle
Terrestrial cave obligate; middle Tennessee; Central Basin; reported from Maury County.				S1	G1

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)	Insects					
Batrisodes gemmoides	Park, 1960				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim; reported from Dickson County.		WR			S1	G1
Batrisodes gemmus	Park, 1956				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim; reported from Dickson County.		WR			S1	G1
Batrisodes pannosus	Park, 1960				A Cave Obligate Beetle	
Terrestrial cave obligate; Eastern Highland Rim.		ER			S1	G1
Batrisodes valentinei	Park, 1951					A Beetle
Terrestrial cave obligate; southern Cumberlandands.					S1?	G2G4
Cicindela patruela	Dejean, 1825				Northern Barrens Tiger Beetle	
Prefers sandy/coarse gravel or eroding sandstone throughout range; dry woodlands; historic records from N Cumberlandands & GSMNP.					S2	G3
Darlingtonia kentuckensis	Valentine, 1952				A Ground Beetle	
Terrestrial cave obligate; northern Cumberlandands.					S1?	G3G4
Nelsonites walteri	Valentine, 1952				A Cave Obligate Beetle	
Terrestrial cave obligate, northern Cumberlandands.		ER, CU			S3	G3
Nicrophorus americanus	Olivier 1890				American Burying Beetle	
Grassland, old field shrubland, and hardwood forests; poss. west TN; carrion feeder; may be extirpated from Tennessee.				LE	SH	G2G3

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)		Insects				
Pseudanophthalmus acherontis	Barr, 1959				Echo Cave Beetle	
Terrestrial cave obligate; Central Basin; reported from Wilson & Rutherford counties.		CB			S1	G1
Pseudanophthalmus bendermani	Barr, 1959				Benderman's Cave Beetle	
Terrestrial cave obligate; Central Basin.		CB			S1S2	G1G2
Pseudanophthalmus catherinae	Barr, 1959				Catherine's Cave Beetle	
Terrestrial cave obligate; Central Basin.		CB			S1	G1
Pseudanophthalmus ciliaris ciliaris	Valentine, 1937				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim.					S1S2	G3G4T1T2
Pseudanophthalmus ciliaris orlindae	Barr, 1959				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim.					S1S2	G3G4T1T2
Pseudanophthalmus colemanensis	Barr, 1959				Coleman Cave Beetle	
Terrestrial cave obligate; Western Highland Rim.		WR			S1	G1
Pseudanophthalmus cumberlandus	Valentine, 1937				A Cave Obligate Beetle	
Terrestrial cave obligate; outer Central Basin.					S1S2	G1G2
Pseudanophthalmus digitus	Valentine, 1932				A Cave Obligate Beetle	
Terrestrial cave obligate; southern Cumberlands; reported from W Hamilton County.					S1	G1G2

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)	Insects					
Pseudanophthalmus engelhardti	(Barber, 1928)				Engelhart's Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S1	G1
Pseudanophthalmus farrelli	(Barr, 1959)				A Cave Obligate Beetle	
Terrestrial cave obligate; eastern Highland Rim escarpment.		CB			S1S2	G1G2
Pseudanophthalmus fowlerae	Barr, 1980				Fowler's Cave Beetle	
Terrestrial cave obligate; eastern Highland Rim.		ER			S1	G1
Pseudanophthalmus fulleri	Valentine, 1932				A Cave Obligate Ground Beetle	
Terrestrial cave obligate; southern Cumberlandands.					S2S3	G2G3
Pseudanophthalmus hesperus	Barr, 1959				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim.		WR			S1	G1
Pseudanophthalmus hirsutus	Valentine, 1931				Cumberland Gap Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.					S1	G1G2
Pseudanophthalmus humeralis	Valentine, 1931				A Ground Beetle	
Terrestrial cave obligate; southern Cumberlandands.		ER, CU			S2	G2
Pseudanophthalmus inquisitor	Barr, 1980				Inquirer Cave Beetle	
Terrestrial cave obligate; Eastern Highland Rim escarpment.		ER			S1	G1

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)	Insects					
Pseudanophthalmus insularis	Barr, 1959				Baker Station Cave Beetle	
Terrestrial cave obligate; northern Central Basin; known from single historical record in Davidson County.		WR			S1	GH
Pseudanophthalmus intermedius	(Valentine, 1931)				Intermediate Cave Beetle	
Terrestrial cave obligate; S Cumberlands; Franklin & Grundy counties.					S2	G2
Pseudanophthalmus jonesi	Valentine, 1945				Grassy Cove Cave Beetle	
Terrestrial cave obligate; Grassy Cove; Cumberland County.		CU			S1S2	G1G2
Pseudanophthalmus loganensis	Barr, 1959				A Cave Obligate Beetle	
Terrestrial cave obligate; Western Highland Rim.		WR			S1S2	G2G3
Pseudanophthalmus longiceps	Barr, 1981				Long-headed Cave Beetle	
Terrestrial cave obligate; Ridge & Valley.		RV			S1	G1G2
Pseudanophthalmus macradei	Valentine, 1948				A Cave Obligate Beetle	
Terrestrial cave obligate; middle Cumberlands.		ER			S1S2	G1G2
Pseudanophthalmus nickajackensis	Barr, 1981				Nickajack Cave Beetle	
Terrestrial cave obligate; Nickajack Cave; Marion County.		CU			S1	G1
Pseudanophthalmus nortoni	Barr, 1981				Norton's Cave Beetle	
Terrestrial cave obligate; Ridge & Valley.		RV			S1	G1

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)		Insects				
Pseudanophthalmus occidentalis	Barr, 1959				Western Cave Beetle	
Terrestrial cave obligate; Western Highland Rim.		WR			S1	G1G2
Pseudanophthalmus pallidus	Barr, 1981				Pale Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S1S2	G1G2
Pseudanophthalmus paradoxus	Barr, 1981				Ridgetop Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S1	G1
Pseudanophthalmus paulus	Barr, 1981				Nobleetts Cave Beetle	
Terrestrial cave obligate; southern Ridge & Valley; reported from one historical location in Monroe County.		RV			S1	GH
Pseudanophthalmus paynei	Barr, 1981				Payne's Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley; reported from Anderson County.		RV			S1	G1
Pseudanophthalmus princeps	Barr, 1979				A Cave Obligate Beetle	
Terrestrial cave obligate; Barren River watershed.					S1S2	G1G2
Pseudanophthalmus pusillus	Barr, 1981				Tiny Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S1	G1
Pseudanophthalmus rotundatus	Valentine, 1932				A Ground Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S2	G2

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)	Insects					
Pseudanophthalmus scutillus	Barr, 1981				A Cave Obligate Beetle	
Terrestrial cave obligate; Cumberland and Mountains.		CM			S1	G1
Pseudanophthalmus sidus	Barr, 1965				Meredith Cave Beetle	
Terrestrial cave obligate; northern Ridge & Valley.		RV			S1	G1
Pseudanophthalmus simplex	Barr, 1980				Simple Cave Beetle	
Terrestrial cave obligate; northern Eastern Highland Rim.		CB			S1S2	G1G2
Pseudanophthalmus sp. 27					Rumbling Falls Cave Beetle	
Terrestrial cave obligate; middle Cumberlands; Van Buren & White counties.		ER, CU			S1	G1
Pseudanophthalmus sp. 28					Sells Cave Ground Beetle	
Terrestrial cave obligate; Fentress County.					S1	G1
Pseudanophthalmus sp. 29					Falling Springs Cave Beetle	
Terrestrial cave obligate; Overton County.		CU			S1	G1
Pseudanophthalmus sp. 30					Ace in the Hole Cave Beetle	
Terrestrial cave obligate; Fentress County.		CU			S1	G1
Pseudanophthalmus sp. 36	(T. C. Barr, Jr.)				Millers Cave Beetle	
Terrestrial cave obligate; escarpment to Short Mountain; Cannon County; known from one cave in Collins R watershed.		ER			S1?	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
Pseudanophthalmus sp. 37				Caney Hollow Cave Ground Beetle	
Terrestrial cave obligate; Eastern Highland Rim; known from one cave in Franklin County.				S1	G1
Pseudanophthalmus sp. 38				Aaron Tolletts Cave Beetle	
Terrestrial cave obligate; upper Sequatchie Valley; known from one cave in Bledsoe County.				S1	G1
Pseudanophthalmus sp. 39				Baker Cave Beetle	
Terrestrial cave obligate; known from one cave near Crab Orchard; Cumberland County.				S1	G1
Pseudanophthalmus sp. 40				Keyhole Cave Beetle	
Terrestrial cave obligate; known from two caves in the Sequatchie Valley of Sequatchie County.				S1	G1
Pseudanophthalmus sp. 41				Wilmoth Cave Beetle	
Terrestrial cave obligate; reported from one cave in the Sequatchie Valley of Sequatchie County.				S1	G1
Pseudanophthalmus templetoni	Valentine, 1948			A Cave Obligate Beetle	
Terrestrial cave obligate; Collins River basin.	ER, CU			S1	G1
Pseudanophthalmus tennesseensis	Valentine, 1937			A Cave Obligate Beetle	
Terrestrial cave obligate; Ridge & Valley.				S2	G3
Pseudanophthalmus tiresias	Barr, 1959			Indian Grave Point Cave Beetle	
Terrestrial cave obligate; Eastern Highland Rim; DeKalb County.	CB			S1	G1

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
COLEOPTERA (BEETLES)	Insects					
Pseudanophthalmus tullahoma	Barr, 1959				Duck River Cave Beetle	
Terrestrial cave obligate; Central Basin; Duck River drainage.		CB			S1	G1G2
Pseudanophthalmus unionis	Barr, 1981				Union County Cave Beetle	
Terrestrial cave obligate; Ridge & Valley; Union County.		RV			S1	G1G2
Pseudanophthalmus valentinei	Jeannel, 1949				A Cave Obligate Beetle	
Terrestrial cave obligate; northern Eastern Highland Rim; Putnam & Overton counties.		ER, CU			S2S3	G3G4
Pseudanophthalmus vanburenensis	Barr, 1959				A Cave Obligate Beetle	
Terrestrial cave obligate; middle Cumberland.		ER			S1	G1
Pseudanophthalmus ventus	Barr, 1981				Blowing Cave Beetle	
Terrestrial cave obligate; lower Sequatchie Valley.		SV			S1	G1
Pseudanophthalmus wallacei	Barr, 1981				Wallace's Cave Beetle	
Terrestrial cave obligate; Ridge & Valley; Anderson County.		RV			S1	G1
Ptomaphagus barri	Peck 1973				A Cave Obligate Beetle	
Terrestrial cave obligate; Cannon County.		CB			S1S2	G2G3
Ptomaphagus chromolithus	Peck, 1984				A Cave Obligate Beetle	
Terrestrial cave obligate; Paint Rock River drainage; Franklin County.		CU			S1	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
Ptomaphagus fecundus	Barr 1963			A Cave Obligate Beetle	
Terrestrial cave obligate; Franklin County; Highland Rim escarpment.	CB			S1	G1
Ptomaphagus hubrichti	Barr 1959			A Cave Obligate Beetle	
Terrestrial cave obligate; Eastern Highland Rim escarpment.				S2	G2G3
Subterrochus ferus	(Park, 1951)			A Cave Obligate Beetle	
Terrestrial cave obligate; reported from two caves in S Cumberlands; Franklin & Grundy counties.				S1S2	G1G2
Trechus bowlingi	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from spruce-fir forests at high elevations in the Great Smoky Mountains; 4900-6600 ft elevation.				S2S3	GNR
Trechus caliginis	Barr, 1985			A Carabid Beetle	
Terrestrial; known only from summit of Camp Creek Bald; Blue Ridge mountains; Greene County.	BR			S1	GNR
Trechus cumberlandus	Barr, 1962			Cumberland Ground Beetle	
Terrestrial associate of caves, springs, sinkholes; escarpment of the Cumberland Plateau, generally.	ER, CU			S2	G2
Trechus haoe	Barr, 1979			A Carabid Beetle	
Terrestrial; found beneath moss carpets; summits of Unicoi Mountains; Blue Ridge; Monroe County.				S2	GNR
Trechus hydropicus beutenmuelleri	Jeannel, 1931			A Carabid Beetle	
Terrestrial; under moss, rocks in ravines, under and inside rotting logs, or in spruce and fir needle duff above 5000 ft; Blue Ridge.	BR			S2S3	GNR TNR

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
Trechus inexpectatus	Barr, 1985			A Carabid Beetle	
Terrestrial; known only from summit of Camp Creek Bald; Blue Ridge mountains; Greene County.	BR			S1	GNR
Trechus luculentus luculentus	Barr, 1962			A Carabid Beetle	
Terrestrial; found under rocks or debris beside seeps & springs or near water in little ravines; Great Smoky Mountains; Sevier County.				S1	GHTH
Trechus luculentus unicolor	Barr, 1979			A Carabid Beetle	
Terrestrial; found under rocks or debris beside seeps & springs or near water in little ravines; Unicoi Mtns; Blue Ridge; Monroe County.				S1	GHTH
Trechus nebulosus	Barr, 1962			A Carabid Beetle	
Terrestrial; moss carpets or mossy boulders at higher elevations; north portion of the central Great Smoky Mountains; Sevier County.				S3	GNR
Trechus novaculosus	Barr, 1962			A Carabid Beetle	
Terrestrial; found under wet scree piles at high elevations in spruce-fir forests of central Great Smoky Mountains; Sevier County.				S1	GH
Trechus roanicus	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from the summit of Roan Mountain (Roan High Knob); Cherokee National Forest; Carter County.	BR			S1	GH
Trechus stupkai	Barr, 1979			A Carabid Beetle	
Terrestrial; mossy rocks at edge of Ramsey Prong upst Ramsay Cascades; Gt Smoky Mtns Natl Pk; Sevier Co; only known location.				S1	GNR
Trechus talequah	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from the Unicoi Mountains near Haw Knob between 4800-5000 ft; Monroe County.	BR			S1	GNR

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
<i>Trechus tennesseensis tauricus</i>	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from sink around entrance to Bull Cave; Great Smoky Mountains National Park; Blount County.				S1	GNRTNR
<i>Trechus tennesseensis tennesseensis</i>	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from Berry Cave entrance/sink; Ridge & Valley; Roane County.				S1	GNRTNR
<i>Trechus tonitru</i>	Barr, 1962			A Carabid Beetle	
Terrestrial; known only from summit of Thunderhead; high elevation; Great Smoky Mountains National Park; Blount County.				S1	GNR
<i>Trechus tuckaleechee</i>	Barr, 1962			A Carabid Beetle	
Terrestrial cave associate; known only from two cave entrances in Tuckaleechee Cove; base of Smoky Mountains; Blount County.				S2	GNR
<i>Trechus uncifer</i>	Barr, 1962			A Carabid Beetle	
Terrestrial; known from a few sites in central and eastern Gt Smoky Mountains National Park above 5500 ft; Sevier & Cocke counties.				S3	GNR
<i>Trechus valentinei</i>	Barr, 1979			A Carabid Beetle	
Terrestrial; high elev spruce-fir forests under rocks adj streams/springs; shallow ravines; central Gt Smoky Mts Ntl Park; Sevier Co.				S2S3	GNR
<i>Trechus vandykei</i>	(Jeannel, 1927)			A Carabid Beetle	
Terrestrial; found in leafmold or under moss mats; Camp Creek Bald & Unaka Mountain; Blue Ridge; Greene & Unicoi counties.				S3?	GNR
<i>Trechus verus</i>	Barr, 1962			A Carabid Beetle	
Terrestrial; confined to eastern end of Smoky Mountains, summit & upper slopes of Mt. Sterling; Cocke County.				S2S3	GNR

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLEOPTERA (BEETLES)	Insects				
Tychobythinus strinatii	Besuchet, 1982			A Cave Obligate Beetle	
Terrestrial cave obligate; middle Cumberlands.	ER			S1S2	G1G2
COLLEMBOLA (SPRINGTAILS)					
Arrhopalites marshalli	Christiansen and Bellinger, 1996			A Cave Springtail	
Terrestrial cave obligate; reported from four caves in the Cumberland Escarpment; Grundy & Overton counties.				S2	G3
Arrhopalites pavo	Christiansen and Bellinger, 1996			A Cave Springtail	
Terrestrial cave obligate; reported from three caves in the Cumberland Escarpment; Grundy & Overton counties.				S1S2	G3?
Arrhopalites sp. 4				A Cave Springtail (species 1)	
Terrestrial cave obligate; middle Cumberlands.	ER			S1	G1
Folsomia sp. 2 nr. macrochaeta				A Springtail From Indian Cave	
Terrestrial cave obligate; middle Cumberlands; White County.	ER			S1	G1
Hypogastrura sp. 1				A Viatica Group Springtail	
Terrestrial cave obligate; Van Buren County; known from one cave in the Cumberland Plateau.	CU			S1	G1
Neanura sp. 1				A Cave Obligate Springtail From TN	
Terrestrial cave obligate; Rumbling Falls area, Van Buren Co; known from a single cave.	ER			S1	G1
Onychiurus sp. 2				A Cave Obligate Springtail From TN	
Terrestrial cave obligate, middle Cumberlands; reported from a single cave in Van Buren County.	ER			S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLLEMBOLA (SPRINGTAILS)	Insects				
Pseudosinella christianseni	Salmon, 1964			A Cave Obligate Springtail	
Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	ER, CB, SV, CU			S2	G5
Pseudosinella orba	Christiansen, 1961			A Cave Springtail	
Terrestrial cave obligate; reported from two caves in northern Cumberlands; Fentress & Pickett counties.	ER, CU			S2	G3G4
Pseudosinella pecki	Christiansen and Bonet, 1980			Peck's Cave Springtail	
Terrestrial cave obligate; reported from three caves in S Cumberlands, Grassy Cove, & Crab Orchard.				S2	G2G3
Pseudosinella sp. 5				A Cave Springtail From Swamp River Cave	
Terrestrial cave obligate; middle Cumberlands.	ER, CU			S1	G1
Pseudosinella sp. 6				A Springtail From Indian Cave	
Terrestrial cave obligate; White County. Reported from a single cave.	ER			S1	G1
Pseudosinella sp. 7 nr. nata				A Springtail From Upper Cummings Cove Cave	
Terrestrial cave obligate; Van Buren Co.	CU			S1	G1
Pseudosinella spinosa	(Delmare DeBoutteville, 1949)			A Cave Obligate Springtail	
Terrestrial cave obligate; middle and southern Cumberlands.	ER, CU			S2	G5
Sinella basidens	Bonet, 1934			A Cave Obligate Springtail	
Terrestrial cave obligate; Eastern Highland Rim.				S2	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
COLLEMBOLA (SPRINGTAILS)	Insects				
Tomocerus missus	Mills, 1949			Relict cave springtail	
Terrestrial cave obligate; unusual distribution including one cave S Cumberlands & one cave N Eastern Highland Rim.				S2	G4
Triacanthella copelandi	(Wray, 1963)			Copeland's Springtail	
Terrestrial cave associate; middle Cumberlands; also reported from Great Smoky Mtns.				S1	G1
DIPLURA (DIPLURANS)					
Litocampa jonesi	Conde, 1949			A Bristletail	
Terrestrial cave obligate, Western Highland Rim.				S1?	G2G3
Litocampa sp. 5				A Cave Dipluran From TN	
Terrestrial cave obligate, Cumberland Plateau escarpment.				S1	G2
Litocampa sp. 6				Buffalo Cove Cave Dipluran	
Terrestrial cave obligate, northern Cumberlands; possibly endemic to Buffalo Cove, Fentress County.				S1	G1
Litocampa sp. 7				Mill Hollow Cave Dipluran	
Terrestrial cave obligate, northern Cumberlands.				S1	G1
Litocampa sp. 8				Mountain Eye Cave Dipluran	
Terrestrial cave obligate, northern Cumberlands.				S1	G1
Litocampa valentinei	Conde, 1949			A Cave Obligate Bristletail	
Terrestrial cave obligate, southern Cumberlands.				S2	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
DIPLURA (DIPLURANS)		Insects			
Podocampa sp. 1					A Dipluran
Terrestrial cave associate and poss obligate; S Cumberlands; known from one cave in Franklin County.				S1	G1
EPHEMEROPTERA (MAYFLIES)					
Epeorus subpallidus	(Traver, 1937)				A Mayfly
Streams; Great Smoky Mountains National Park; upper Tennessee River watershed.				S1	G1Q
Habrophlebiodes celeteria	Berner, 1975				A Mayfly
Blue Ridge mountain streams; Tennessee River watershed; reported from Monroe & Unicoi counties.				S2	G2G4
Heterocloeon grande	(Wi ersema and Long, 2000)				A Mayfly
Larvae in first-fourth order streams in clumps of submerged grass along margins or in shallow run habitats; middle Tennessee.				S2	G2G3
Maccaffertium sinclairi	(Lewi s, 1979)				A Mayfly
Small, cool, high quality, soft-water streams in slow to moderate current; Sequatchie Valley; also recorded from Blount Co., GSMNP.				S2	G2G3
Paraleptophlebia kirchneri	Kondrati eff and Durfee, 1994				A Mayfly
Probably restricted to small, cool streams; reported from Williamson & Trousdale counties.				S1	G1G3
Plauditus veteris	(McDunnough, 1924)				A Mayfly
Probably found in small, cold streams; reported from Overton County.				S2	G3G4
LEPIDOPTERA (BUTTERFLIES & MOTHS)					
Amblyscirtes belli	Freeman, 1941				Bell's Roadside Skipper
Open riparian areas in moist, rich woodlands; may visit home gardens; hosts include Indian wood-oats (Chasmanthium latifolium).				S2S3	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
LEPIDOPTERA (BUTTERFLIES & MOTHS)	Insects				
Amblyscirtes linda	H. A. Freeman, 1943			Linda's Roadside-skipper	
Found near woodland streams with Chasmanthium latifolia; west Tennessee; reported from Madison County.				S2	G2G3
Amblyscirtes reversa	F. Jones, 1973			Reversed Roadside-Skipper	
Found in swampy or wet woods near slow streams with cane undergrowth; SE TN; reported from Hamilton County.				S2	G3G4
Autochton cellus	(Boisduval and Le Conte, [1837])			Golden-banded Skipper	
Damp wooded ravines along streams or other wet areas; may be observed nectaring along sunny slopes; host is hog peanut.				S3	G4
Callophrys irus	(Godart, [1824])			Frosted Elfin	
Open roadsides, woodland edges, scrub or brushy fields w/ yellow wild indigo (Baptisia tinctoria) or other poss. Fabaceae hosts.				S1?	G3
Celastrina nigra	(W. Forbes, 1960)			Dusky Azure	
Moist deciduous forests, esp. shaded northern slopes, where its host, Aruncus dioicus (goat's beard), occurs; S. Apps & N. Cumb.		CU		S2	G4
Erora laeta	(Edwards, 1862)			Early Hairstreak	
Beech or beech-oak-hazelnut forests, mostly in canopy; may visit unpaved roads/trails; hosts incl. beech and hazelnut; S. Appalachian.				S2	GU
Euchloe olympia	(W. H. Edwards, 1871)			Olympia Marble	
Inhabits open woods, shale barrens, & very dry meadows; reported from far NE TN.				S2	G4G5
Lycaena hyllus	(Cramer, 1775)			Bronze Copper	
Marshes, sedge meadows, moist to wet grassy meadows, ditches, fens, streamside or pondshore wetlands, or roads and right of ways through marshlands. West TN.		MF		S3	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
LEPIDOPTERA (BUTTERFLIES & MOTHS)		Insects			
Mesapamea trigona	(J. B. Smith, 1902)			A Noctuid Moth	
Stands of giant cane, typically in riparian or other forested bottomland habitats; range uncertain; reported from Smith Co.				SH	GU
Phyciodes batesii	(Reakirt, [1866])			Tawny Crescent	
Dry rocky ridges or hillsides, glades, open woods; east TN; may be extirpated from state.				S1S2	G4
Speyeria diana	(Cramer, 1777)			Diana Fritillary	
Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.		RV, BR, CU		S3	G3G4
ODONATA (DRAGONFLIES & DAMSELFLIES)					
Gomphus consanguis	(Selys, 1879)			Cherokee Clubtail	
Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.		RV, CM		S1	G3
Gomphus sandrius	Tennessen, 1983			Tennessee Clubtail	
Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.		CB		S1	G1
Macromia margarita	Westfall, 1947			Mountain River Cruiser	
Typically small mountain streams, usually rocky but with silt deposits; reported from Campbell & Blount counties.		BR		S2S3	G3
Ophiogomphus acuminatus	Carle, 1981			Acuminate Snaketail	
Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.		WR, WU		S2	G3
Ophiogomphus alleghaniensis	Carle, 1982			Allegheny Snaketail	
Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.		RV, CU, BR		S1	G3T2T3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
ODONATA (DRAGONFLIES & DAMSELFLIES)		Insects			
Ophiogomphus edmundo	Needham, 1851			Edmund's Snaketail	
Clear, moderately flowing mountain streams and rivers; reported from Conasauga River watershed; Cherokee National Forest.		RV, BR		S1	G1G2
Ophiogomphus howei	Bromley, 1924			Pygmy Snaketail	
Clear rivers with strong current over coarse cobbles and with periodic rapids; possible in Southern Appalachians.		CP, WU		S3?	G3
Somatochlora elongata	(Scudder, 1866)			Ski-tipped Emerald	
Shaded forest pools and ponds above 2000 ft elevation; Blue Ridge.		BR		S2	G5
Stylurus notatus	(Rambur, 1842)			Elusive Clubtail	
Clear rivers with moderate current and gravel or sandy benthos; probable northern middle Tennessee.				S2	G3
Stylurus townesi	Gloyd, 1936			Townes' Clubtail	
Sand-bottomed forest streams and rivers; adults forage on streamside trees. Tennessee range uncertain.				S3?	G3
ORTHOPTERA (GRASSHOPPERS & CRICKETS)					
Hadenoeus jonesi	Hubbell, 1978			Jone's Cave Cricket	
Terrestrial cave associate; reported from a handful of caves in S Cumberlands; Franklin & Marion counties.				S2	GNR
Leptysma marginicollis	(Serville, 1838)			Cattail Toothpick Grasshopper	
Wetlands with emergent vegetation, esp. cattails; may exist as disjunct population in Barrens of Warren & Coffee counties.				S2	G5
Melanoplus ingrami	Hill, 2010			A Spur-throat Grasshopper	
Found in gravel zone of cedar glades of Central Basin characterized by shallow gravel-covered soil with little canopy and patchy herbaceous cover.				S1S3	G1G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
PLECOPTERA (STONEFLIES)	Insects				
Allocapnia brooksi	Ross, 1964				Sevier Snowfly
Small -medium size creeks; northern Ridge & Valley and adj. Blue Ridge; upper Tennessee River watershed.	RV			S2	G2
Allocapnia cunninghami	Ross and Ricker, 1971				Karst Snowfly
Small -medium size creeks; northern Highland Rim; Barren River watershed.	WR			S1	G1G2
Allocapnia fumosa	Ross, 1964				Smokies Snowfly
Benthic; high-elevation springs in GSMNP; Sevier County; S Blue Ridge Mountains.				S2	G2
Allocapnia perplexa	Ross and Ricker, 1971				Perplexing Snowfly
Low-mod gradient streams with limestone bedrock & interspersed rubble; Elk Bledsoe Creek, Cumberland R watershed; Sumner Co.	CB			S1	G1
Allocapnia sequatchie	Kondratieff and Kirchner, 2000				A Stonefly
Found in Sequatchie River & larger tributaries; Sequatchie Valley.				S2?	G3G4
Allocapnia unzickeri	Ross and Yamamoto, 1966				Cumberland Snowfly
Eastern edge of the Cumberland Plateau and immediate adjacent regions; in small, rapid, gravelly or rocky streams.				S2S3	G3
Amphinemura mockfordi	(Ricker, 1952)				Tennessee Forestfly
Benthic; reported from streams near Monteagle, Grundy County; S Cumberland Plateau.				S2	G2
Beloneuria georgiana	(Banks, 1914)				Georgia Stone
High elevation spring-fed brooks; reported from Great Smoky Mtns National Park.				S1	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
PLECOPTERA (STONEFLIES)	Insects				
Hydroperla rickeri	(Stark, 1984)			Tennessee Springfly	
Small to mid-sized streams; northern Central Basin; Cumberland River watershed; Trousdale County.	CB			S2	G2
Leuctra monticola	Hanson, 1941			Mountain Needlefly	
Benthic; reported from fewer than 5 streams in GSMNP; S Blue Ridge Mountains; also from far NE Alabama near TN line.				S1	G1Q
Leuctra nephophila	Hanson, 1941			Clouded Needlefly	
Benthic; high-elevation seeps and springs in GSMNP; S Blue Ridge Mountains.				S2	G3
Megaleuctra williamsae	Hanson, 1941			Smokies Needlefly	
Higher elevation springs, seeps, and creeks in portions of Great Smoky Mountains Natl Park.				S1S2	G2
Neoperla coosa	Smith and Stark, 1998			Coosa Stone	
Benthic; distribution unclear, but includes protected lands in Blount, Hardin, Morgan, and Rutherford counties.				S2	G2
Oconoperla innubila	(Needham and Claassen, 1925)			Hairy Springfly	
Benthic; high-elevation seeps and springs in GSMNP; Sevier County; S Blue Ridge Mountains.				S2	G2
Perlesta adena	Stark, 1989			Adena Stone	
Streams or small rivers of the Barren, Cumberland, and Harpeth river watersheds; Sumner, Trousdale, & Williamson counties.				S2?	G3G4
Perlesta etnieri	Kondratieff and Ki rchner, 2002			A Stonefly	
Streams or small rivers of the Duck and Harpeth river watersheds; Central Basin; Maury & Williamson counties.				S1S2	G1G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
PLECOPTERA (STONEFLIES)	Insects				
Perlesta frisoni	Banks, 1948				Blueridge Stone
Generally restricted to higher elevation pristine streams; S Apps & Cumb Plateau; reported from Blount, Cocke, & Cumberland cos.				S2?	G3
Perlesta lagoi	Stark, 1989				Gulf Stone
Streams or small rivers of the Sequatchie & Obed river watersheds; Cumberland and Bledsoe counties.				S2?	G3
Soyedina alexandria	Grubbs, 2006				A Stonefly
Benthic; tributaries of the Harpeth & Cumberland rivers; Cheatham, Williamson, & Sumner counties.				S1S2	G1G2
Zapada chila	(Ricker, 1952)				Smokies Forestfly
Unpolluted springs/spring brooks & high elevation headwaters; GSMNP; known from a short stretch of one stream near Newfound Gap.				S1	G2
TRICHOPTERA (CADDISFLIES)					
Agapetus diacanthus	Edwards, 1956				A Caddisfly
Springs of the southern Cumberland escarpment; reported from Franklin, Marion, & Sequatchie counties; possibly endemic.				S1S2	G1G2
Agapetus spinosus	Etnier and Way, 1973				A Caddisfly
Spotty distribution from streams of the Cumberland Plateau including Cumberland, Franklin, Scott, and Sequatchie counties.				S2	G2
Agarodes stannardi	(Ross, 1962)				Stannard's Agarodes Caddisfly
Larvae reported from cool, sandy springs/streams; records include two streams in Hardin County, Tennessee River watershed.				S2S3	G2G3
Brachycentrus etowahensis	Wallace, 1971				A Caddisfly
Benthic; a riverine species reported from Polk & Loudon counties; Ridge & Valley; lower Hiwassee but poss. extirp. from Little TN R.				S2	G3

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
TRICHOPTERA (CADDISFLIES)		Insects				
Cheumatopsyche helma	Ross, 1939				Helma's Net-spinning Caddisfly	
Streams of montane origin; east Tennessee; Tennessee River watershed.		BR			S1S3	G3
Glyphopsyche sequatchie	Etnier and Hix, 1999				Sequatchie Caddisfly	
Spring runs emerging from caves; Lower Sequatchie River & Battle Creek watersheds; Marion County.		SV			S1	G1
Homoplectra flinti	Weaver, 1985				A Caddisfly	
Benthic; reported from streams in the mid- and S Cumberlands; Franklin & White counties.					S2	G2
Hydropsyche bassi	Flint, Voshell and Parker, 1979				A Caddisfly	
Benthic; reported from two streams in Knox & Meigs counties; Ridge & Valley.					S2	G2
Hydropsyche etnieri	(Schuster and Talak, 1977)				Buffalo Springs Caddisfly	
Spring-fed creeks; northern Ridge & Valley; upper Tennessee River watershed.		RV			S2	G2
Hydropsyche rotosa	Ross, 1947				A Caddisfly	
Benthic; uses vertical limestone ledges of small-medium creeks; northern Ridge & Valley.					S2	G2G3
Hydroptila chattanooga	Frazer and Harris, 1991				A Caddisfly	
Benthic; reported solely from one stream in GSMNP; S Blue Ridge Mountains.					S2	G2
Hydroptila decia	Etnier and Way, 1973				Knoxville Hydroptilan Micro Caddisfly	
Small, clear, spring-fed streams with lush growths of watercress; W Knox County; TN River watershed; also one county in VA.					S1S2	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
TRICHOPTERA (CADDISFLIES)	Insects				
Hydroptila mcgregori	Harris and Huryn, 2000				A Caddisfly
Benthic; reported from a single spring in Knox County; Ridge & Valley.				S2	G2G3
Hydroptila oneili	Harris, 1985				A Caddisfly
Benthic; reported from one creek in Polk County; S Blue Ridge Mountains.				S2	G2G3
Hydroptila paramoena	Harris, 1985				A Caddisfly
Benthic; reported from streams in Polk County (S Appalachians) and Cumberland, Morgan, & Scott counties (N Cumberlands).				S2	G2G3
Hydroptila patriciae	Harris, 1985				A Caddisfly
Inhabits springs/spring-fed creeks in S Cumberlands; known from one large spring in Marion County.				S1	G1
Lepidostoma compressum	Etnier and Way, 1973				A Caddisfly
High quality streams of the northern Cumberlands; reported from Cumberland, Morgan, & Rhea counties.				S1S2	G1G2
Lepidostoma etnieri	Weaver, 1988				A Caddisfly
Reported from creeks in Grainger, Roane, and Knox counties; Ridge & Valley.				S1S2	G1G2Q
Lepidostoma excavatum	Flint and Wiggins, 1961				A Caddisfly
Reported from high quality montane streams of Blue Ridge Mountains; Great Smoky Mountains NP.				S2	G2G3
Lepidostoma lobatum	Wallace and Sherberger, 1972				A Caddisfly
Reported from high quality streams of the Blue Ridge Mountains; Great Smoky Mtns SP; Sevier County.				S2	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
TRICHOPTERA (CADDISFLIES)	Insects				
Lepidostoma stylifer	Flint and Wiggins, 1961				A Caddisfly
Reported from high quality streams of the Blue Ridge Mountains; Great Smoky Mtns SP.				S2	G2G3
Manophylax butleri	Schuster, 1997				A Caddisfly
Pseudo-terrestrial larvae reported from damp vertical rock faces of the northern Cumberlands; Big South Fork watershed; Scott County.				S2	G2
Neophylax kolodskii	Parker, 2000				A Caddisfly
High-quality streams of Great Smoky Mts National Park; may be endemic to Tennessee.				S1	G1
Neophylax securis	Vineyard and Wiggins, 1987				A Caddisfly
Occurs in small headwater streams of Cumberland Plateau; reported from Marion & White counties.				S1S2	G1G2
Ochrotrichia elongiralla	Harris, 1986				A Caddisfly
Benthic, stream dweller; reported from a single creek in Knox County; Ridge & Valley.				S1	G1G2
Pseudogoera singularis	Carpenter, 1933				A Caddisfly
Benthic; found in seepage areas in Blount, Cocke, & Sevier counties; S Blue Ridge Mountains.				S2	G2G3
Rhyacophila amicus	Ross, 1956				A Caddisfly
High-quality streams of the S Appalachians; reported from Blount, Monroe, & Sevier counties.				S2	G2
Wormaldia mohri	(Ross, 1948)				A Caddisfly
Benthic; reported from streams in Greene & Sevier counties; S Blue Ridge Mountains.				S2	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
TRICHOPTERA (CADDISFLIES)	Insects				
Wormaldia thyrta	Dennig, 1950				A Caddisfly
Streams of the northern Cumberlands; reported from Fentress & Cumberland cos.; also possibly coll. in Sevier County (S Appal.).				S2	G3
BIVALVIA (MUSSELS)	Molluscs				
Alasmodonta atropurpurea	(Rafinesque, 1831)				Cumberland Elktoe
Small creeks to medium-sized rivers with slow current, sand substrates, and large cobble; upper Cumberland River watershed.	ER, CM, CU	E	LE	S1S2	G1G2
Alasmodonta raveneliana	(I. Lea, 1834)				Appalachian Elktoe
Large creeks/small rivers with stable coarse sand and gravel substrates with cobble & boulders; upper Tennessee River watershed.	RV, BR	E	LE	S1	G1
Cumberlandia monodonta	(Say, 1829)				Spectaclecase
Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.	WR, CB, RV, WU, SV		LE	S2S3	G3
Cyprogenia stegaria	(Rafinesque, 1820)				Fanshell
Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.	RV, CB, WU	E	LE, XN	S1	G1Q
Dromus dromas	(I. Lea, 1834)				Dromedary Pearlymussel
Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	ER, RV, CB, SV	E	LE, XN	S1	G1
Elliptio arca	(Conrad, 1834)				Alabama Spike
Shallow riffles or slow-moving water with substrates of fine gravel, sand, & silt; Conasauga River; Polk & Bradley cos.; Ridge & Valley.				S2	G2G3Q
Elliptio arctata	(Conrad, 1834)				Delicate Spike
In substrates of coarse sand, gravel, and cobble; prefers strong current; Conasauga River; Polk & Bradley counties; Ridge & Valley.	BR			S2	G2G3Q

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
Epioblasma ahlstedti	Jones and Neves, 2010			Duck River Dartersnapper	
Gravel shoals in medium to large rivers; restricted to Duck River upstream of Columbia; Maury and Marshall counties; Central Basin.	CB	E	LE	S1	G1
Epioblasma brevidens	(I. Lea, 1831)			Cumberlandian Combshell	
Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.	RV, CB, CU	E	LE, XN	S1	G1
Epioblasma capsaeformis	(I. Lea, 1834)			Oyster Mussel	
Shallow riffles in mod-swi ft current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems excluding the Duck River.	RV, CB, SV	E	LE, XN	S1	G1
Epioblasma florentina walkeri	(Wilson and H. W. Clark, 1914)			Tan Riffleshell	
Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.	WR, CB, RV, BR, CU	E	LE	S1	G1T1
Epioblasma metastrata	(Conrad, 1838)			Upland Combshell	
Sand & gravel substrates in riffle sections of small-medium size rivers; Conasauga River; Polk County.	RV	E	LE	SH	GH
Epioblasma obliquata obliquata	(Rafinesque, 1820)			Catspaw	
Medium-large rivers, in sand and gravel substrates in runs and riffles; Tennessee & Cumberland river systems.	CB	E	LE	S1	G1T1
Epioblasma othcaloogensis	(I. Lea, 1857)			Southern Acornshell	
Medium size rivers with moderate current and fine gravel substrates; Consasauga River; Polk County.		E	LE	SH	GHQ
Epioblasma triquetra	(Rafinesque, 1820)			Snuffbox	
Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.	RV, CB		LE	S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
Fusconaia cor	(Conrad, 1834)				Shiny Pigtoe
Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	ER, RV, CB	E	LE, XN	S1	G1
Fusconaia cuneolus	(I. Lea, 1840)				Finerayed Pigtoe
Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	RV, CB, SV, CU	E	LE, XN	S1	G1
Hamiota altilis	(Conrad, 1834)				Finelined Pocketbook
Creeks/small rivers with substrates of sand, mud, & gravel, & mod current; Conasauga River & Coahulla Ck; Polk & Bradley counties.	RV, BR	T	LT	S1S2	G2G3
Hemistena lata	(Rafinesque, 1820)				Cracking Pearlymussel
Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.	WR, RV, CB, WU	E	LE, XN	S1	G1
Lampsilis abrupta	(Say, 1831)				Pink Mucket
Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	ER, WR, RV, CB, WU, SV	E	LE	S2	G2
Lampsilis ornata	(Conrad, 1835)				Southern Pocketbook
Creeks/small rivers with substrates of sand, mud, & gravel, & mod current; Conasauga River; Polk & Bradley cos.; Ridge & Valley.				S2S3	G5
Lampsilis siliquioidea	(Barnes, 1823)				Fatmucket
Slackwater with mud subst; Wolf R (Miss R trib); west TN; may occur at Reelfoot Lk; also rept Drakes Ck (Cumb R), Sumner Co.	CP, MF			S2	G5
Lampsilis virescens	(I. Lea, 1858)				Alabama Lampmussel
Found in sand and gravel substrates in shoal areas of small-medium size rivers; middle and upper TN R system; recently rediscovered in Emory River.	RV, CU	E	LE	S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
Lasmigona holstonia	(I. Lea, 1838)			Tennessee Heelsplitter	
Spring runs, creeks, & small rivers, in subst of sand & mud; upper Tenn & Conasauga river watersheds; Blue Ridge & Ridge & Valley.	ER, RV, BR			S2	G3
Lasmigona sp. 1 cf. holstonia				Barrens Toesplitter	
Streams of Barrens Plateau, in soft sediments near bank or in bank below waterline; upper Duck & Caney Fk R; E Highland Rim.				S1	GNR
Lasmigona subviridis	(Conrad, 1835)			Green Floater	
Quiet waters; smaller streams in pools and eddies with gravelly and sandy bottoms; Watauga River upst of Watauga Lake; Blue Ridge.				S2	G3
Lemiox rimosus	(Rafinesque, 1831)			Birdwing Pearlymussel	
Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.	WR, CB, RV	E	LE, XN	S1	G1
Medionidus acutissimus	(I. Lea, 1831)			Alabama Moccasinshell	
Small-large rivers in gravel & cobble shoals in shallow water with mod strong current; Conasauga River; Polk County.	RV	T	LT	S1	G2
Medionidus parvulus	(I. Lea, 1860)			Coosa Moccasinshell	
Highly oxygenated streams & small rivers with moderate to strong flow, in sand and gravel; Conasauga River, Polk County.	RV	E	LE	S1	G1Q
Obovaria jacksoniana	(Frierson, 1912)			Southern Hickorynut	
Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.	CP			S1	G2
Obovaria olivaria	(Rafinesque, 1820)			Hickorynut	
Uses sand or gravel substrates in deep water, lower Cumb & TN R; extremely rare; may be extirp from TN R; lake sturgeon is host sp.				S2?	G4

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
BIVALVIA (MUSSELS)	Molluscs					
Obovaria retusa	(Lamarck, 1819)					Ring Pink
Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.		WR, CB, RV, WU	E	LE, XN	S1	G1
Obovaria subrotunda	(Rafinesque, 1820)					Round Hickorynut
Medium-large rivers in sand and gravel subst with moderate flow; TN & Cumb rivers; also Red River in Robertson Co., W Highland Rim.		WR, CB, RV, SV			S2S3	G4
Pegias fabula	(I. Lea, 1838)					Littlewing Pearlymussel
Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.		ER, WR, RV, CB, CU	E	LE	S1	G1
Plethobasus cicatricosus	(Say, 1829)					White Wartyback
Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.		RV, CB, WU	E	LE, XN	S1	G1
Plethobasus cooperianus	(I. Lea, 1834)					Orangefoot Pimpleback
Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.		WR, CB, RV, WU	E	LE, XN	S1	G1
Plethobasus cyphus	(Rafinesque, 1820)					Sheepnose
Large to medium-sized rivers, in riffles and coarse sand/gravel subst; TN & Cumb river systems incl KY Reservoir; W Uplands & Rim.		RV, CB, WU		LE	S2S3	G3
Pleurobema chattanoogaense	(I. Lea, 1858)					Painted Clubshell
Inhabits riffle areas with substrates of coarse sand and gravel; Conasauga River; Bradley & Polk counties.		RV			S1?	G1Q
Pleurobema clava	(Lamarck, 1819)					Clubshell
Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.		WR, CB, WU	E	LE	SH	G1G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
Pleurobema georgianum	(I. Lea, 1841)				Southern Pigtoe
High quality small rivers & large streams; shoals and runs with stable sandy-gravel substrates; Conasauga River; Polk & Bradley cos.	RV, BR	E	LE	S1	G1
Pleurobema hanleyianum	(I. Lea, 1852)				Georgia Pigtoe
Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.	BR		LE	S1	G1
Pleurobema johannis	(I. Lea, 1859)				Alabama Pigtoe
Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Polk County.				SX	GX
Pleurobema oviforme	(Conrad, 1834)				Tennessee Clubshell
Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	WR, ER, CB, RV, CU, BR			S2S3	G2G3
Pleurobema perovatum	(Conrad, 1834)				Ovate Clubshell
Sand/gravel shoals and runs of small rivers and large streams with moderate current; Conasauga River; Polk County.	RV	E	LE	SH	G1
Pleurobema plenum	(I. Lea, 1840)				Rough Pigtoe
Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.	WR, CB, RV, WU	E	LE, XN	S1	G1
Pleurobema rubrum	(Rafinesque, 1820)				Pyramid Pigtoe
Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.	RV, CB, WU			S1S2	G2G3
Pleurobema troschelianum	(I. Lea, 1852)				Alabama Clubshell
Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.				S1	G1Q

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
Pleuroaia dolabelloides	(I. Lea, 1840)			Slabside Pearlymussel	
Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	WR, ER, CB, RV, SV, BR		LE	S2	G2
Pleuroaia gibberum	(I. Lea, 1838)			Cumberland Pigtoe	
Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.	ER, CB	E	LE	S1	G1
Ptychobranchnus foremanianus	(I. Lea, 1842)			Rayed Kidneyshell (= Triangular Kidneyshell)	
Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.	RV, BR	E	LE	S1	G1
Ptychobranchnus subtentum	(Say, 1825)			Fluted Kidneyshell	
Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	ER, RV, CB		LE	S2	G2
Quadrula cylindrica cylindrica	(Say, 1817)			Rabbitsfoot	
Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	WR, CB, RV, WU		LT	S3	G3G4T3
Quadrula cylindrica strigillata	(Wright, 1898)			Rough Rabbitsfoot	
Small-medium sized rivers, in clear, shallow riffles with sand-gravel substrates; Tenn. & Cumb. river systems; upland form.	RV	E	LE	S2	G3G4T2
Quadrula fragosa	(Conrad, 1835)			Winged Mapleleaf	
Medium-large size rivers, in riffles with mud, sand, and gravel; lower Tenn & Cumb river systems; Central Basin, W Uplands & W Rim.		E	LE	S1	G1
Quadrula intermedia	(Conrad, 1836)			Cumberland Monkeyface	
Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	RV, CB	E	LE, XN	S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
BIVALVIA (MUSSELS)	Molluscs				
<i>Quadrula sparsa</i>	(I. Lea, 1841)			Appalachian Monkeyface	
Headwater sections of rivers in shallow riffles/runs with sand-gravel substrate & moderate current; upper Tennessee River drainage.	RV, CB	E	LE, XN	S1	G1
<i>Simpsonaias ambigua</i>	(Say, 1825)			Salamander Mussel	
In sand or silt under large, flat stones in areas of swift current; occurred historically in Elk Stones R; 2005 obs in lower Duck R.	WR, ER, CB			S1	G3
<i>Strophitus connasaugaensis</i>	(I. Lea, 1858)			Alabama Creekmussel	
Small-medium sized rivers, in shallow areas with current and substrates of fine gravel, sand, & silt; Conasauga River; Polk County.	RV, BR			S1	G3
<i>Toxolasma cylindrellus</i>	(I. Lea, 1868)			Pale Lilliput	
Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; Lower Tenn. River system.	ER, WR, CB, SV, CU	E	LE	S1	G1
<i>Toxolasma lividus</i>	(Rafinesque, 1831)			Purple Lilliput	
Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.	ER, CB, RV, CU			S1S2	G3Q
<i>Uniomerus declivis</i>	(Say, 1831)			Tapered Pondhorn	
Typically found buried in a substrate of fine sand and mud in shallow sloughs and ditches; reported only from Hatchie R system.	CP			S2	G5Q
<i>Villosa fabalis</i>	(I. Lea, 1831)			Rayed Bean	
Riffles of medium-small rivers & creeks, in gravel & sand substrates associated with <i>Justicia americana</i> ; Tennessee River watershed.	CB, RV		LE	S1	G2
<i>Villosa nebulosa</i>	(Conrad, 1834)			Alabama Rainbow	
Creeks-medium size rivers in sand/gravel riffles in mod current; assoc. with <i>Justicia americana</i> ; Conasauga R system; Ridge & Valley.	BR			S2	G3

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal						
BIVALVIA (MUSSELS)		Molluscs				
Villosa perpurpurea	(I. Lea, 1861)				Purple Bean	
Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.		RV, CU	E	LE	S1	G1
Villosa trabalis	(Conrad, 1834)				Cumberland Bean	
Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.		ER, CB, RV, BR, CU	E	LE, XN	S1	G1
Villosa vanuxemensis umbrans	(I. Lea, 1857)				Coosa Creekshell	
Riffles of headwater creeks/small rivers in gravel/sand subst.; often assoc. with Justicia amer.; Conasauga R drainage; Ridge & Valley.		BR			S2	G2
Villosa vibex	(Conrad, 1834)				Southern Rainbow	
Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.		RV, CP, BR			S2	G5Q
GASTROPODA (AQUATIC SNAILS)		Molluscs				
Athearnia anthonyi	(Redfield, 1854)				Anthony Riversnail	
Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.		RV, SV, CU	E	LE, XN	S1	G1
Elimia acuta	(I. Lea, 1831)				Acute Elimia	
Bedrock and slabs in moderate to fast current; tributaries of lower Tennessee River; southern Tennessee.					S1	G2
Elimia arachnoidea	(Anthony, 1854)				Spider Elimia	
Small streams of the Ridge & Valley; east Tennessee; reported from Knox & Monroe counties; Tennessee River basin.					S2	G2G3
Elimia aterina	(I. Lea, 1863)				Coal Elimia	
In gravel/cobble of springs & small shallow streams of upper Tennessee River system; Claiborne & Hancock counties.					S1	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (AQUATIC SNAILS)	Molluscs				
Elimia christyi	(I. Lea, 1862)			A Freshwater Snail	
Found in the Hiwassee River and tributaries; southeast Tennessee.	RV, BR			S2	G2
Elimia interrupta	(Haldeman, 1840)			Knotty Elimia	
Limited distribution in streams of Nashville basin, Cumberland River watershed.				S1	G1
Elimia interveniens	(I. Lea, 1862)			Slowwater Elimia	
Restricted to tributaries of the lower Tennessee River in northern Alabama and also reported from Shoal Creek, Lawrence County, TN.				S1	G2
Elimia porrecta	(I. Lea, 1863)			Nymph Elimia	
Springs and streams of Claiborne County & NW Ridge & Valley; Tennessee River watershed.				S2	G2
Elimia striatula	(I. Lea, 1842)			File Elimia	
Reported from springs in Monroe County & a reservoir in Bradley County; Tennessee River watershed; distribution unclear.				S2	G2
Elimia strigosa	(I. Lea, 1841)			Brook Elimia	
Streams of the Clinch and Powell River basins, northern Ridge & Valley; may be synonymous with E. porrecta.				S2	G2
Elimia teres	(I. Lea, 1841)			Elegant Elimia	
Small streams of Walden Ridge, flowing eastward; Ridge & Valley; Tennessee River watershed; may be synonymous with E. strigosa.				S1	G1
Elimia troostiana	(I. Lea, 1838)			Mossy Elimia	
Tributaries of the Tennessee River, Jefferson & Knox counties; Ridge & Valley; may be synonymous with E. arachnoidea.				S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (AQUATIC SNAILS)	Molluscs				
Lio fluvialis	(Say, 1825)				Spiny Riversnail
Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	RV, SV, CU			S2	G2
Leptoxis umbilicata	(Wetherby, 1876)				Umbilicate Rocksnail
Medium sized rivers & large creeks in portions of lower Cumb. and Tenn. river systems; Stones River; possibly a form or morph.	ER, CB			S1	G1Q
Leptoxis virgata	(I. Lea, 1841)				Smooth Mudalia
Medium to large rivers, on shoals; portions of upper TN River and some larger tribs; Hiwassee River.	SV, BR			S1	G2
Lithasia armigera	(Say, 1821)				Armored Rocksnail
Partially buried logs, gravel, and preferably submerged rock outcrops; lower Cumberland River & larger tributaries; Obey River.	ER, CB, SV			S1S2	G3G4
Lithasia duttoniana	(I. Lea, 1841)				Helmet Rocksnail
Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	WR, ER, CB			S2	G2Q
Lithasia geniculata	Hal deman, 1840				Ornate Rocksnail
Big river form of L. geniculata; lower Cumberland River & large tributaries to lower Tennessee River.	WR, ER, CB, RV, WU, CU			S2	G3Q
Lithasia geniculata fuliginosa	(Lea, 1841)				Geniculate River Snail
Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	WR, ER, CB			S2	G3T3Q
Lithasia geniculata pinguis	(Lea, 1852)				Small Geniculate River Snail
Headwater form of L. geniculata, in small rivers and large streams, on gravel substrates; upper Duck & Caney Fork systems.	ER, CB			S2	G3T3Q

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (AQUATIC SNAILS)	Molluscs				
Lithasia lima	(Conrad, 1834)				Warty Rocksnail
Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).	ER, CB, SV			S2	G2Q
Lithasia salebrosa	(Conrad, 1834)				Muddy Rocksnail
Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.	WR, CB, WU			S2	G2G3Q
Lithasia spicula	Minton, Savarese, and Campbell, 2005				Sharp-tongued Rocksnail
Shoals, algae covered rocks, & gravel in a short segment of the Harpeth River (Cumberland River trib); Davidson & Cheatham counties.				S1	G1Q
Lithasia verrucosa	(Rafinesque, 1820)				Varicose Rocksnail
Rocky shoals/riffles in mod current @ depths to several feet; relict populations in some larger upper Tennessee River tributaries.	WR, RV, CB, WU, SV, BR, CU			S3	G4Q
Marstonia ogmorhaphes	(F. G. Thompson, 1977)				Royal Springsnail
Known from shallow littoral zone of two cave spring runs, on mixed substrate of mud, sand, & detritus; lower Seq. R.; Marion County.	SV	E	LE	S1	G1
Pleurocera alveare	(Conrad, 1834)				Rugged Hornsnail
Reported from lower Cumberland River and its larger tributaries.				S2	G3
Pleurocera corpulenta	Anthony, 1854				Corpulent Hornsnail
Extremely limited distribution in Tennessee River from Battle Creek at Ketchall (Kimball), Marion County, Tennessee, downstream.	SV			S1	G1
Pleurocera curta	(Haldeman, 1841)				Shortspire Hornsnail
Upper Tennessee River & larger tributaries; east Tennessee; status uncertain.				S2	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (AQUATIC SNAILS)	Molluscs				
Pleurocera gradata	(Anthony, 1854)			Bottle Hornsnail	
Reported from upper Holston River (Tennessee River watershed); Ridge & Valley; NE Tennessee.				S2?	G1G2
Pleurocera nobilis	(L. Lea, 1845)			Noble Hornsnail	
Reported from Lower Sequatchie River and Little Sequatchie River (Tennessee R system); Marion County.				S1	G2
Pleurocera trochiformis	(Conrad, 1834)			Sulcate Hornsnail	
Reported from Lower Tennessee River watershed, including Duck & Elk rivers & Shoal Creek; habitat poorly known.				S2	G2
Pleurocera walkeri	Goodrich, 1928			Telescope Hornsnail	
Reported from Sequatchie & Little Sequatchie rivers & some tributaries (Tennessee River watershed); Marion County.				S2	G3
Rhodacme elatior	(Anthony, 1855)			Domed Ancyloid	
Moderate to fast current under slabs and boulders; Tennessee River watershed; distribution poorly known.				S1	G1
Rhodacme hinkleyi	(Walker, 1908)			Knobby Ancyloid	
Tennessee River watershed; habitat & distribution poorly known.				S2S3	G2G3
Somatogyrus aureus	Tryon, 1865			Golden Pebblesnail	
Reported from Tennessee River system; habitat and distribution poorly understood; one contemporary record in Marion Co.		SV		S1	G1
Somatogyrus parvulus	Tryon, 1865			Sparrow Pebblesnail	
Upper Tennessee River system; probably on rocks in fast moving water; reported from Powell & Holston rivers historically.				S1?	G1G2Q

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (AQUATIC SNAILS)	Molluscs				
Somatogyrus sp. 2				Hiwassee Pebblesnail	
Known from the "dewatered" section of the Hiwassee River upstream of the Appalachia Powerhouse; on rocks in free-flowing water.	BR			S1	G1Q
Somatogyrus tennesseensis	Walker, 1906			Opaque Pebblesnail	
Known only from Shoal Creek (Tennessee River tributary); Tennessee report may be erroneous; species may be extirpated.				S1	G1
GASTROPODA (LAND SNAILS)					
Anguispira alabama	(G. H. Clapp, 1920)			Alabama Tigersnail	
A calciphile; limestone outcrops and cliff faces of karstic woods; southern Cumberlands.	ER, SV, CU			S2	G2
Anguispira jessica	Kutchka, 1938			Mountain Disc	
Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood; Roan Mountain & Mt. Le Conte.	RV, BR			S3	G3G4
Anguispira knoxensis	(Pilsbry, 1899)			Rustic Tigersnail	
Rich woods of the Blue Ridge Mountains and adj. Ridge & Valley; Blount, Knox, & Monroe counties.				S1S2	G1G2
Anguispira kochi	(Pfeiffer, 1821)			Banded Tigersnail	
Rotting leaves & decaying logs in rich woods; river bluffs; northwest Tennessee.				S2?	G5
Anguispira picta	(G. H. Clapp, 1920)			Painted Tigersnail	
A calciphile; limestone outcrops and cliff faces of karstic woods; S Cumberlands; Sherwood community of upper Crow Creek valley.	CU	E	LT	S1	G1
Carychium stygium	Call, 1897			Cave Thorn	
Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.	WR, ER, CU			S2	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Daedalochila auriformis	(Bl and, 1859)			Rockpile Liptooth	
Wet, grassy habitats, generally in full sun; barrens & remnant prairies; Coffee & Warren counties; disjunct from central Alabama.	ER			S1	G4
Discus bryanti	(Harper, 1881)			Sawtooth Disc	
Leaf litter in rocky upland woods, under rotting logs; northeast Tennessee; Blue Ridge.	BR			S1S2	G3
Discus clappi	(Pilsbry, 1924)			Channelled Disc	
A calciphile; leaf litter on rocky wooded hillsides & karst woods; southern Cumberlands; Franklin County.	ER			S1	G1
Euchemotrema fraternum montanum	(Archer, 1939)			A Terrestrial Snail	
On logs, in leaf litter, or under stones on mountainsides & in ravines; oak-hickory forests of the S Blue Ridge; far southeast Tenn.	BR			S2	G5T2
Fumonelix archeri	(Pilsbry, 1940)			Ocoee Covert	
In leaf litter or under rock ledges; rich woods north and south of Ocoee River, Cherokee National Forest, Polk County.	BR			S1	G1
Fumonelix christyi	(Bl and, 1860)			Glossy Covert	
Leaf litter in upland oak woods; central and southernmost Blue Ridge; southeast Tennessee.	BR			S2	G3
Fumonelix jonesiana	(Archer, 1938)			Big-tooth Covert	
In leaf litter or talus of birch-beech woods at higher elevations; central Appalachians; Great Smoky Mountains National Park.				S1	G1
Fumonelix wetherbyi	(Bl and, 1873)			Clifty Covert	
Under logs & moist leaf litter of wooded hillsides & ravines; northern Cumberlands, Cumberland Mountains & adj. Ridge & Valley.	ER			S2S3	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Fumonelix wheatleyi	(Blount, 1860)			Cinnamon Covert	
Leaf litter, logs, talus in mixed woodlands, coves @ mid-upper elevations of Blue Ridge; Blount, Carter, Cocke, Monroe, & Sevier cos.	BR			S3	G4
Fumonelix wheatleyi clingmanicus	(Pilsbry, 1904)			Clingman Covert	
Mid-upper elevation forests under rocks, logs, leaf litter; Blue Ridge; Carter, Cocke, Sevier, Unicoi counties.				S2	G4T2T3
Glyphyalinia junaluska	(Clench and Banks, 1932)			Dark Glyph	
Moist leaf litter in deciduous woods on mountainsides; southern Blue Ridge; Monroe County.				S2	G2
Glyphyalinia ocoae	Hubricht, 1978			Blue-gray Glyph	
Leaf litter on wooded hillsides & ravines; southernmost Blue Ridge; Polk County.	BR			S1	G1
Glyphyalinia pentadelphia	(Pilsbry, 1900)			Pink Glyph	
Pockets of moist leaves in rich upland woods; mid-elevations of Blue Ridge; southeast Tennessee.	BR			S2	G2G3
Glyphyalinia rimula	Hubricht, 1968			Tongued Glyph	
Moist leaf litter on wooded hillsides & ravines; sometimes a cave assoc.; karst areas of the E portion of northern middle Tennessee.				S2S3	G3
Haplotrema kendeighi	Webb, 1951			Blue-footed Lancetooth	
Leaf litter above 2,000 ft; S Blue Ridge; Blount, Sevier, and Monroe counties.				S2	G2
Helicodiscus aldrichianus	(G. H. Clapp, 1907)			Burrowing Coil	
A burrowing species found under stones, in chert rubble, or deep pockets of leaf litter; reported from Marion & Franklin counties.				S2S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Helicodiscus bonamicus	Hubricht, 1978				Spiral Coil
Found in leaf litter on wooded hillsides; southern Blue Ridge mountains; SE Tennessee.				S1	G1
Helicodiscus fimbriatus	Wetherby, 1881				Fringed Coil
In leaf litter or under rocks on wooded hillsides; southern Blue Ridge; southeast Tennessee.				BR	S3 G4
Helicodiscus hadenoecus	Hubricht, 1962				Cricket Coil
Cave obligate; feeds on cricket guano; Eastern Highland Rim & Cumberland Plateau.				ER, CU	S3 G3
Helicodiscus hexodon	Hubricht, 1966				Toothy Coil
In leaf litter of forested hillsides; escarpment to Walden Ridge from Sequatchie Valley; Cumberland Plateau; Blount County.				CU	S1 G1
Helicodiscus notius specus	Hubricht, 1962				A Terrestrial Snail
Cave obligate; feeds on cricket guano; Ridge & Valley and Eastern Highland Rim (tentatively).				ER, RV	S1? G5T2
Helicodiscus punctatellus	Morrison, 1942				Punctate Coil
Limestone talus deposits, Eastern Highland Rim; Jackson County; known from Pleistocene fossil specimens; may not be extant in TN.				ER	S1 G1
Inflectarius ferrissi	(Pilsbry, 1897)				Smoky Mountain Covert
Under rock ledges, rock piles, or logs at mid-elevations and higher; Blue Ridge; Great Smoky Mountains National Park.				BR	S2 G2
Inflectarius smithi	(G. H. Clapp, 1905)				Alabama Shagreen
A calciphile; karst woods, hillsides, ravines; under logs and rocks; southern Cumberlands; Franklin County.				CU	S2 G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Inflectarius subpalliatius	(Pilsbry, 1893)			Velvet Covert	
Leaf litter, rotting logs, talus in mixed woodland; may be arboreal; mid to upper elevations of Blue Ridge; Carter & Unicoi counties.	BR			S2	G2
Megapallifera wetherbyi	(W. G. Binney, 1874)			Blotchy Mantleslug	
Terrestrial; on rocks and trunks of smooth-barked trees; river bluffs and ravines; Cumberland Plateau.				S2	G2G3
Mesodon altivagus	(Pilsbry, 1900)			Wandering Globe	
Found on the ground in high-elevation spruce-fir forests; GSMNP; S Blue Ridge Mountains.				S2	G2G3
Mesodon andrewsae	W. G. Binney, 1879			Balsam Globe	
Found crawling on the ground at high elevations in S Appalachians; reported above 4500 ft in mixed forests of Roan Mountain.				S2S3	G3
Mesodon mitchellianus	(I. Lea, 1839)			Sealed Globelet	
Meadows, roadsides, floodplains; northern Ridge & Valley; reported from Knox County.				S2	G4
Mesodon sanus	(Clench and Archer, 1933)			Squat Globelet	
A calciphile; in leaf litter of karst woods, hillsides, ravines; southern Cumberlands; Franklin & Marion counties.	CU			S2S3	G3
Mesomphix rugeli	(W. G. Binney, 1879)			Wrinkled Button	
Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.	BR			S3	G4
Oxyloma salleanum	(Pfeiffer, 1849)			Louisiana Ambersnail	
Uses low, wet habitats in marshes or pond margins; found crawling on mud or on emergent plants such as cattails; Mississippi River corridor; W Tennessee.				S2S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Pallifera hemphilli	(W. G. Binney, 1885)			Black Mantleslug	
Spruce-fir forests above 5,000 ft; S Blue Ridge; Carter, Cocke, & Sevier counties.	BR			S2S3	G4
Paravitrea alethia	Hubricht, 1978			Goddess Supercoil	
In leaf litter of forested ravines; Ridge & Valley; reported from Roane County.				S1	G1
Paravitrea andrewsae	(W. G. Binney, 1879)			High Mountain Supercoil	
Moist leaf litter on forested mountainsides; northern Blue Ridge; Carter & Unicoi counties.				S2	G2
Paravitrea calcicola	H. B. Baker, 1931			Pearl Supercoil	
A calciphile; under moist leaf litter of rocky karst woods, hillsides, ravines; near springs; Franklin & Marion counties.				S1	G1
Paravitrea clappi	(Pilsbry, 1898)			Mirey Ridge Supercoil	
In moist leaf litter generally above 5,000 ft; Blue Ridge; Blount & Sevier counties; Great Smoky Mountains NP.	BR			S2S3	G2G3
Paravitrea lamellidens	(Pilsbry, 1898)			Lamellate Supercoil	
Deep, moist leaf litter below boulder slopes, bluffs; boggy seeps; forested hillsides & ravines; central & southern Blue Ridge.	BR			S2	G2
Paravitrea lapilla	Hubricht, 1965			Gem Supercoil	
Under moist leaf litter on forested hillsides & ravines, bluffs; northern Central Basin.				S2	G2
Paravitrea pilsbryana	(G. H. Clapp, 1919)			Translucent Supercoil	
A calciphile, found under moist leaf litter on rocky wooded hillsides & ravines in karst; reported from Franklin & Marion counties.				S2	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Paravitrea reesei	Morri son, 1937			Round Supercoil	
Under moist leaf litter or rocks on river bluffs or ravines; Blue Ridge of far northeast Tennessee; Johnson County.				S1S2	G3
Paravitrea significans	(Bl and, 1866)			Domed Supercoil	
Under moist leaf litter on wooded hillsides & ravines; vicinity of Mississippi River; reported from Shelby County.				S1S2	G3
Paravitrea subtilis	Hubri cht, 1978			Slender Supercoil	
Found in leaf litter on wooded hillsides & in ravines; northern Highland Rim & Cumberlands; reported from Macon & Fentress counties.				S2	G2
Paravitrea ternaria	Hubri cht, 1978			Sculpted Supercoil	
Under moist leaf litter of forested hillsides & ravines; Blue Ridge; Unicoi County.				S1S2	G1G2
Paravitrea tridens	Pi lsbry, 1946			White-foot Supercoil	
Moist leaf litter on wooded hillsides; northeast Tennessee; Ridge & Valley and Blue Ridge.		RV, BR		S2	G2
Paravitrea umbilicaris	(Ancey, 1887)			Open Supercoil	
In pockets of deep, moist leaf litter on forested hillsides & ravines; Blue Ridge; southeast Tennessee.		RV, BR		S2?	G2
Paravitrea variabilis	H. B. Baker, 1929			Variable Supercoil	
In pockets of deep, moist leaf litter on forested hillsides & ravines; escarpment of Cumb. Plateau in Sequatchie Valley & Franklin Co.		CU		S2S3	G2G3
Paravitrea varidens	Hubri cht, 1978			Roan Supercoil	
In leaf litter of forested mountainsides; brambles @ high elevation; northern Blue Ridge; Carter County.				S1S2	G1G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Philomycus sellatus	Hubricht, 1972			Alabama Mantleslug	
Wooded hillsides and ravines, under loose bark of logs, on trunks of smooth-barked trees; southernmost Cumberlands.				S2	G2G3
Philomycus virginicus	Hubricht, 1953			Virginia Mantleslug	
Upland species found in wooded hillsides and ravines, under exfoliating bark of hardwood trees; also arboreal; reported from far NE Tennessee.				S2	G3
Pilsbryna aurea	H. B. Baker, 1929			Ornate Bud	
Deep, wet leaves of karstic forests & hills, near streams; assoc. with limestone/dolomite outcrops; Unicoi, Washington, & Blount cos.				BR	S1 G1
Pilsbryna castanea	H. B. Baker, 1931			Prominent Bud	
Wooded hillsides in deep leaf litter at base of limestone exposures; Sequatchie Valley & S. Cumberlands; Bledsoe & Marion cos.				S2	G2
Pilsbryna nodopalma	Slapcinsky and Colles, 2004			Oar Tooth Bud	
On wooded, rocky hillsides in moist leaf-litter or on relatively dry rock outcrops; Blue Ridge mountains; NE TN border with NC.				S1	G1G2
Pilsbryna quadrilamellata	Slapcinsky and Colles, 2004			Four Blade Bud	
In leaf litter associated with sandstone talus slope adjacent Nolichucky River; reported only from Unaka Springs, Unicoi County.				S1	G1
Pilsbryna vanattai	(Walker and Pilsbry, 1902)			Honey Glyph	
Moist leaf litter in ravines, wooded mountainsides, adjacent seeps, springs, small streams; northern Blue Ridge; northeast Tennessee.				BR	S2S3 G2G3
Praticolella lawae	(J. Lewis, 1874)			Appalachian Shrubsnail	
Favors open pine woods, clearings, and glades, usually on sandy soil; reported from far SE Tennessee.				S2	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Stenotrema altispira	(Pilsbry, 1894)			Highland Slitmouth	
Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central & N Blue Ridge; northeast Tennessee.	BR			S2?	G3
Stenotrema angellum	Hubricht, 1958			Kentucky Slitmouth	
Found under logs and leaf litter of forested hillsides and ravines; northern Eastern Highland Rim.	ER			S3	G4
Stenotrema barbigerum	(Redfield, 1856)			Fringed Slitmouth	
On logs on forested hillsides & ravines; far SE Tennessee; Blue Ridge and Ridge & Valley.	BR			S3?	G3G4
Stenotrema cohuttense	(G. H. Clapp, 1914)			Cohutta Slitmouth	
In leaf litter of forested hillsides & ravines; far SE Tennessee; S Blue Ridge; Polk County.	RV, BR			S2	G2
Stenotrema depilatum	(Pilsbry, 1895)			Great Smoky Slitmouth	
Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central Blue Ridge; GSMNP.				S2	G2
Stenotrema edgarianum	(I. Lea, 1841)			Sequatchie Slitmouth	
On logs and in leaf litter on forested hillsides; southern Sequatchie Valley extending north to Crab Orchard.	CU			S2S3	G2G3
Stenotrema exodon	(Pilsbry, 1900)			Alabama Slitmouth	
A calciphile; found on and about limestone rocks in hilly karst woods; southernmost Cumberlands.				S2	G2
Stenotrema pilula	(Pilsbry, 1900)			Pygmy Slitmouth	
Found under logs and in leaf litter on dry forested hillsides; Blue Ridge; GSMNP.	BR			S3	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Stenotrema waldense	Archer, 1938			Doaks Creek Slitmouth	
A calciphile; reported in the vicinity of springs of NW Ridge & Valley; Campbell & Claiborne cos; probably uses limestone outcrops.				S2	G2
Striatura exigua	(Stimpson, 1850)			Ribbed Striate	
Moist leaf litter of forested slopes; Blue Ridge; a northern species that apparently follows the spine of the Appalachians south.				BR	S1 G5
Triodopsis anteridon	Pilsbry, 1940			Carter Threetooth	
In leaf litter or on logs on forested slopes and in ravines; Blue Ridge; far northeast Tennessee.				BR	S1S2 G3
Triodopsis claibornensis	Lutz, 1950			Claiborne Threetooth	
In leaf litter of rocky karst woods and on roadsides, NW Ridge & Valley; Claiborne & Campbell counties.				RV	S2 G2
Triodopsis complanata	(Pilsbry, 1898)			Glossy Threetooth	
Cave associate; also found in leaf litter or around logs or talus; northernmost Cumberlands.				ER	S2 G2
Ventridens coelaxis	(Pilsbry, 1899)			Bidentate Dome	
In leaf litter on mountainsides, often at higher elevations; northernmost Blue Ridge and Ridge & Valley.				RV, BR	S2S3 G3
Ventridens decussatus	(Walker and Pilsbry, 1902)			Crossed Dome	
In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.				RV, BR	S2? G3
Ventridens eutropis	Pilsbry, 1946			Carinate Dome	
Under leaf litter or limestone slabs in upland oak woods; middle Tennessee; northern Highland Rim.					S2S3 G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Vertigo bollesiana	(E. S. Morse, 1865)				Delicate Vertigo
In leaf litter of forested hillsides or wet meadows at high elevation; central and northern Blue Ridge of E Tennessee.				S2	G4
Vertigo clappi	Brooks and Hunt, 1936				Cupped Vertigo
In leaf litter and moss on forested hillsides; Blue Ridge; Monroe County.	ER, RV, BR			S1	G1G2
Vertigo parvula	Sterki, 1890				Smallmouth Vertigo
In leaf litter and on logs in upland forests with limestone outcrops or talus; Blue Ridge; Washington & Union counties.	BR			S2S3	G3
Vertigo pygmaea	(Draparnaud, 1801)				Crested Vertigo
A calciphile; generally found in low, grassy habitats; Grassy Cove & Crab Orchard; Cumberland County.	CU			S1	G5
Vertigo rugosula	Sterki, 1890				Striate Vertigo
Grassy roadsides and cedar glades; dry karst habitats; middle Tennessee.				S2	G4
Vertigo teskeyae	Hubricht, 1961				Swamp Vertigo
Wet habitats, pond margins, swamps, muddy bottomlands; tributary creeks of Lower Tennessee River.	WR, WU			S1	G5
Webbhelix multilineata	(Say, 1821)				Striped Whitelip
Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.	CP, MF			S2	G5
Zonitoides lateumbilicatus	(Pilsbry, 1895)				Striate Gloss
A calciphile; found in leaf litter of shady karst woods, ravines; sometimes near springs or seeps; spotty distribution in Cumberlands.	ER, CU			S2?	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
GASTROPODA (LAND SNAILS)	Molluscs				
Zonitoides patuloides	(Pilsbry, 1895)			Appalachian Gloss	
In pockets of deep moist leaf litter on mountainsides, ravines; Blue Ridge; Great Smoky Mtns National Park.				S2	G3
ANNELIDA (SEGMENTED WORMS)	Other Types				
Cambarincola alienus	Holt 1963			A Cave Obligate Worm	
Aquatic cave obligate; isopod parasite; southern Cumberlands.		ER		S1	G1G2
Cambarincola leptadenus	Holt 1973			A Cave Obligate Worm	
Aquatic cave obligate; crayfish parasite (known from Cambarus tenebrosus); Western Highland Rim.		WR		S1	G1G2
Cambarincola marthae	Holt 1973			A Cave Obligate Worm	
Aquatic cave obligate; isopod parasite; northern Central Basin abutting Eastern Highland Rim.		CB		S1	G1G2
Eremidrilus allegheniensis	(Cook, 1971)			A Cave Obligate Worm	
Aquatic cave obligate; rimstone pools & subterranean waters; reported from S Cumberlands; Franklin County.		CU		S1S2	G1G2
DIPLOPODA (MILLIPEDES)					
Brachoria divicuma	Keeton, 1965			A Millipede	
Reported from a mountainside, Cumberland Plateau escarpment west of Jamestown; known only from Fentress County.				S1	G1G3
Brachoria sp. 3				A Xystodesmid Millipede	
Terrestrial; reported only from Cherokee National Forest, Greene County; S Appalachians.				S1	G1
Chaetaspis mollis	(Causey, 1959)			A Cave Millipede	
Terrestrial cave obligate; central Cumberland Plateau; Van Buren County.		ER, CU		S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
DIPLOPODA (MILLIPEDES)	Other Types				
Chaetaspis sp. 1			A Cave Millipede From Thunder Run Cave (TN)		
Terrestrial cave obligate; wet caves of central Cumberland Plateau; Van Buren County; known from a single cave at present.	ER			S1	G1
Delophon holti	Shelley, 1979		A Millipede		
Terrestrial; moist, wooded sinkholes in karst; northern Ridge & Valley; Hamblen County.	RV			S1	GNR
Pseudotremia acheron	Shear, 1972		A Cave Obligate Millipede		
Terrestrial cave obligate; caves of the central Cumberlands; Warren & Van Buren counties.	ER			S1	G1G2
Pseudotremia barri	Lewis, 2005		A Cave Obligate Millipede		
Terrestrial cave obligate; southern Cumberlands; Grundy, Warren, & Franklin counties.				S2	G2
Pseudotremia callae	Lewis, 2009		Baker Cave Millipede		
Terrestrial cave obligate; northern Cumberlands; known from one cave system near Crab Orchard.				S1	G1
Pseudotremia cercops	Shear, 1972		A Cave Obligate Millipede		
Terrestrial cave obligate; Eastern Highland Rim escarpment; reported from Dekalb County.	CB			S1	G1
Pseudotremia deprehendor	Shear, 1972		A Cave Obligate Millipede		
Terrestrial cave obligate; northern Ridge & Valley caves; east Tennessee.	RV			S1?	G2G3
Pseudotremia douglasi	Lewis, 2009		Three Forks Cave Millipede		
Terrestrial cave obligate; northern Eastern Highland Rim; reported from two caves in Overton County.				S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
DIPLOPODA (MILLIPEDES)	Other Types				
Pseudotremia garlandae	Lewis, 2005			Garland's Cave Millipede	
Terrestrial cave obligate; riparian mud banks in caves of the N Cumberland Plateau; Fentress County.	ER, CU			S1	G1
Pseudotremia hollidayi	Lewis, 2005			Holliday's Cave Millipede	
Terrestrial cave obligate; collected from riparian mud banks; known from one cave in the Sequatchie Valley of Sequatchie County.				S1	G1
Pseudotremia lethe	Shear, 1972			A Cave Obligate Millipede	
Terrestrial cave obligate; wet caves of northern Central Basin abutting Eastern Highland Rim; Jackson County.	CB			S1	G1
Pseudotremia lictor	Shear, 1972			A Cave Obligate Millipede	
Terrestrial cave obligate; Eastern Highland Rim; DeKalb County.	CB			S1	G1
Pseudotremia manni	Lewis, 2005			Mann's Cave Millipede	
Terrestrial cave obligate; collected from riparian mud banks in caves of the northern Eastern Highland Rim; Overton County.	ER, CU			S1	G1
Pseudotremia minos	Shear, 1972			A Cave Obligate Millipede	
Terrestrial cave obligate; southern Cumberlands; Franklin & Marion counties.				S1	G1
Pseudotremia nodosa	Loomis, 1939			A Millipede	
Terrestrial cave obligate; lower Powell River drainage; upper Ridge & Valley; Claiborne, Hancock, & Union counties.	RV			S2S3	G4
Pseudotremia rhadamanthus	Shear, 1972			A Cave Obligate Millipede	
Terrestrial cave obligate; southern Cumberland Plateau; Marion County.	CU			S1	G1G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
DIPLOPODA (MILLIPEDES)	Other Types				
Pseudotremia roebuckorum	Lewis, 2005			Roebuck's Cave Millipede	
Terrestrial cave obligate; collected from riparian mud banks in caves of the N Cumberland Escarpment; Fentress County.	ER, CU			S1	G1
Pseudotremia sp. 10				Skylight Cave Millipede	
Terrestrial cave obligate; reported from three caves in the Battle Creek drainage of S Cumberlands; Marion County.				S1	G1
Pseudotremia valga	Loomis, 1943			A Millipede	
Terrestrial cave obligate; northernmost Ridge & Valley; Claiborne County.	RV			S1?	G1G2
Pseudotremia wallaceae	Lewis, 2005			Wallace's Cave Millipede	
Terrestrial cave obligate; collected from riparian mud banks in caves of the northern Eastern Highland Rim; Pickett County.	ER			S1	G1
Pseudotremia withersi	Lewis, 2009			A Cave Millipede from Overton County	
Terrestrial cave obligate; reported from five caves in northern Eastern Highland Rim; Overton County.				S1	G1
Scoterpes copei	(Packard, 1881)			A Cave Obligate Millipede	
Terrestrial cave obligate; wet caves of the N Cumberland escarpment; Fentress County.	ER, CU			S1	G3G4Q
Scoterpes ventus	Shear, 1972			A Cave Obligate Millipede	
Terrestrial cave obligate; wet caves of the Cumberland Plateau & Sequatchie Valley.	ER, SV, CU			S1	G3
Tetracion jonesi	Hoffman, 1956			A Cave Obligate Millipede	
Terrestrial cave obligate; reported from three caves in S Cumberlands; Franklin County.	ER, CU			S1S2	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Invertebrate Animal					
TARDIGRADA (WATER BEARS)	Other Types				
Calohypsibius schusteri				Schuster's Tardigrade	
Beech-maple forests @ high elevations; in mosses on beech trees; Blue Ridge; Carter County.	BR			S1	GNR
Hypsibius roanensis	Nelson and McClinton, 1993				A Tardigrade
Beech-maple forests @ high elevations; in lichen or mosses on beech trees; Roan Mountain; Blue Ridge; Carter County.	BR			S1	GNR
TURBELLARIA (FLATWORMS)					
Sphalloplana buchanani	(Hyman, 1937)				A Cave Obligate Planarian
Aquatic cave obligate; northern Central Basin; Davidson County; taxonomy poorly understood.	CB			S1	G1G2
Sphalloplana chandleri	Kenk, 1977				Chandler's Planarian
Aquatic cave obligate; Central Basin; Davidson County and possibly Cheatham & Rutherford counties.				S1	G1G2
Sphalloplana consimilis	Kenk, 1977				Powell Valley Planarian
Aquatic cave obligate; Powell River Valley; N Ridge & Valley; Claiborne County.	RV			S1	G2G3
AGNATHA & OSTEICHTHYES (FISH)					
Acipenser fulvescens	Rafinesque, 1817				Lake Sturgeon
Bottoms of large, clean rivers and lakes.	WR, CB, RV	E		S1	G3G4
Alosa alabamae	Jordan and Evermann, 1896				Alabama Shad
Large rivers; anadromous.		D		SH	G2G3
Ammocrypta beani	Jordan, 1877				Naked Sand Darter
Shifting sand bottoms & sandy runs; Hatchie & Wolf rivers & their larger tribs.	CP, WU	D		S2	G5

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal						
AGNATHA & OSTEICHTHYES (FISH)						
Ammocrypta clara	Jordan and Meek, 1885				Western Sand Darter	
Usually in slight to moderate current over sandy bottom; Clinch & Powell rivers.		RV	T		S1	G3
Ammocrypta vivax	Hay, 1882				Scaly Sand Darter	
Small to medium rivers with sandy substrate; Hatchie & Buffalo rivers.		WR, CP, WU	D		S2	G5
Atractosteus spatula	(Lacepède, 1803)				Alligator Gar	
Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.		WR, CP, WU, MF	D		S1	G3G4
Carpionodes velifer	(Rafinesque, 1820)				Highfin Carpsucker	
Large rivers, mostly in Tennessee River drainage.		WR, ER, RV, CB, WU, SV, BR	D		S2S3	G4G5
Chrosomus cumberlandensis	(Starnes and Starnes, 1978)				Blackside Dace	
Small upland tributaries with sand, sandstone, and shale substrates in unsilted conditions; upper Cumberland R. watershed.		CM	T	LT	S2	G2
Chrosomus saylori	(Skellon, 2001)				Laurel Dace	
Cool 1st-2nd order streams with slabrock and rubble substrate; Walden Ridge of the Cumberland Plateau; Tennessee River watershed.		CU	E	LE	S1	G1
Chrosomus sp. cf. saylori					Clinch Dace	
Extremely restricted range in few headwater tributaries of Big South Fork Cumberland River and Emory River; Cumberland Plateau; Morgan County.		CU		SC	S1	G1
Chrosomus tennesseensis	(Starnes and Jenkins, 1988)				Tennessee Dace	
First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.		RV, CM, SV, BR, CU	D		S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Clinostomus funduloides ssp. 1					Smoky Dace
Upl and tributaries of Little Tennessee River; east Tennessee.	BR	D		S1S2	G5T3Q
Cottus sp. 5					Holston Sculpin
Clear streams of mod-high gradient containing runs/riffles w/ unsilted gravel, rubble, and boulder substrates; upper Holston R system.				S2	G2
Crystallaria cincotta	Welsh and Wood, 2008				Crystal Darter
Small to medium rivers with expanses of clean sand and gravel; Cumberland River watershed.	CB, CU	D		SX	G1
Cycleptus elongatus	(Lesueur, 1817)				Blue Sucker
Swift waters over firm substrates in big rivers.	WR, RV, CB, CP, WU, MF	T		S2	G3G4
Cyprinella caerulea	(Jordan, 1877)				Blue Shiner
Cool, clear, small to medium-sized rivers over firm substrates.	RV, BR	E	LT	S1	G2
Erimonax monachus	(Cope, 1868)				Spotfin Chub
Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	WR, RV, CU, BR	T	LT, XN	S2	G2
Erimystax cahni	(Hubbs and Crowe, 1956)				Slender Chub
Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.	RV	T	LT, XN	S1	G1
Etheostoma acuticeps	Bailey, 1959				Sharphead Darter
Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	RV, BR			S2S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Etheostoma akatulo	Layman and Mayden, 2009			Bluemask (Jewel) Darter	
Streams with slow to moderate current over clean sand and fine gravel; Caney Fork River system (above Great Falls Reservoir).	ER	E	LE	S1	G1
Etheostoma aquali	Williams and Etnier, 1978			Coppercheek Darter	
Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	ER, WR, CB	T		S2S3	G2G3
Etheostoma baileyi	Page and Burr, 1982			Emerald Darter	
Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	CM, CU	D		S2	G4G5
Etheostoma barbouri	Kuehne and Small, 1971			Teardrop Darter	
Sandy pools in small to medium streams with slabrock cover; Barren River watershed.	WR	D		S2	G4G5
Etheostoma barrenense	Burr and Page, 1982			Splendid Darter	
Locally abundant in rocky pools and adjacent riffles of small to moderate streams; Barren River watershed.	WR	D		S3	G4
Etheostoma bellum	Zorach, 1968			Orangefin Darter	
Locally abundant in small to medium-sized clear streams over gravel substrate; Barren River watershed.	WR	D		S3	G4G5
Etheostoma blennioides sequatchiense	Burr, 1979			Sequatchie Darter	
Swift gravel riffles; Sequatchie River watershed.	SV			S3	G4T3
Etheostoma boschungii	Wall and Williams, 1974			Slackwater Darter	
Gravel-bottomed creeks and small rivers; spawns in seepage water in fields and open woods.	WR, ER, WU	T	LT	S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Etheostoma brevirostrum	Suttkus and Etnier, 1991				Holiday Darter
Bedrock & gravel pools of creeks and small to medium rivers; Conasauga River watershed.	RV, CP, WU, BR	T		S1	G2
Etheostoma cervus	Powers and Mayden, 2003				Chickasaw Darter
Small streams with slow to moderate current and predominantly sandy substrates; Forked Deer River watershed.	CP, WU	D		S2S3	G2G3
Etheostoma cinereum	Storer, 1845				Ashy Darter
Small to medium upland rivers with bedrock or gravel substrate and boulders.	WR, ER, CB, RV, CM, CU, BR	T		S2S3	G2G3
Etheostoma corona	Page and Ceas, 1992				Crown Darter
Rocky pools and adjacent riffles of headwaters, creeks, and small rivers; Cypress Creek watershed.	WR, WU	E		S1S2	G3
Etheostoma denoncourti	Stauffer and van Snik, 1997				Golden Darter
Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	WR, RV, CB, SV			S2	G2
Etheostoma ditrema	Ramsey and Suttkus, 1965				Coldwater Darter
Limestone springs and slow spring runs; Conasauga River watershed.	RV	T		S1	G2
Etheostoma forbesi	Page and Ceas, 1992				Barrens Darter
Headwaters of the Barren Fork & Hickory Creek drainages; Cumberland River watershed.	ER, SV	E		S1	G1G2
Etheostoma gutselli	(Hildebrand, 1932)				Tuckasegee Darter
Swift riffle areas with coarse rubble; Little Tennessee & Pigeon rivers.	BR	E		S1	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Etheostoma kantuckeense	Ceas and Page, 1997			Highland Rim Darter	
Upper Barren River system of the Highland Rim.	WR			S1	G4
Etheostoma lemniscatum	Blanton, 2008			Tuxedo Darter	
Gently flowing, silt-free pools or runs immediately upst of riffles with cobble, boulders, & slabrock; Big South Fork Cumberland River.	CU	E	LE	S1	G1
Etheostoma luteovinctum	Gilbert and Swain, 1887			Redband Darter	
Limestone streams; Nashville Basin & portions of Highland Rim.	WR, ER, CB	D		S4	G4
Etheostoma marmorpinnum	Blanton and Jenkins, 2008			Marbled Darter	
Pools and moderate runs with clean pebbles, cobble, & small boulders; lower Little River (Tennessee River drainage).	RV	E	LE	S1	G1
Etheostoma microlepidum	Raney and Zorach, 1967			Smallscale Darter	
Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	WR, CB, RV	D		S2	G2G3
Etheostoma neopterum	Howell and Dingerkus, 1978			Lollypop Darter	
Small to medium sized, gravelly, cool, spring-fed streams; Shoal Creek watershed.	WR, WU			S1S2	G3
Etheostoma obeyense	Kirsch, 1892			Barcheek Darter	
Small to medium sized, clear upland streams; Eastern Highland Rim; Cumberland River drainage.	ER, CB, CU			S3	G4
Etheostoma olivaceum	Braasch and Page, 1979			Sooty Darter	
Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.	ER, WR, CB	D		S3	G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Etheostoma pseudovulatum	Page and Ceas, 1992				Egg-mimic Darter
Small to medium sized, gravelly, cool, spring-fed streams; lower Duck River watershed.	WR	E		S1	G1
Etheostoma pyrrhogaster	Bailey and Etnier, 1988				Firebelly Darter
Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain in Obion River watershed; west Tennessee.	CP, WU	D		S2	G2G3
Etheostoma sagitta	(Jordan and Swain, 1883)				Cumberland Arrow Darter
Smaller streams of northern Cumberland Plateau & Cumberland Mountains; Cumberland River watershed.	CM, CU, BR	D		S2	G3
Etheostoma sitikuense	Blanton, 2008				Citico Darter
Riffles, runs, & pools with cobble & small boulders; larger creeks to medium size rivers; lower Little Tennessee River watershed.	RV, BR	E	LE, XN	S1	G1
Etheostoma striatulum	Page and Braasch, 1977				Striated Darter
Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	CB	T		S1	G1
Etheostoma susanae	(Jordan and Swain, 1883)				Cumberland Darter
Creeks in the upper Cumberland River watershed of the Cumberland Mountains; extremely rare.	CM	E	LE	S1	G1G2
Etheostoma tippecanoe	Jordan and Evermann, 1890				Tippecanoe Darter
Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.	WR, CB, CU	D		S1S2	G3G4
Etheostoma trisella	Bailey and Richards, 1963				Trispot Darter
Slackwater areas along margins of the Conasauga River & some tributaries; Conasauga River watershed.	RV	T		S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Etheostoma tuscumbia	Gilbert and Swain, 1887			Tuscumbia Darter	
Ponded spring-fed habitats of valley floor springs; lower Tennessee River; probably extirpated from TN.	WU	D		SX	G2
Etheostoma wapiti	Etnier and Williams, 1989			Boulder Darter	
Fast rocky riffles of small to medium rivers & large creeks; Elk River watershed. Reintro. Shoal Ck watershed.	WR, CB	E	LE, XN	S1	G1
Fundulus chrysotus	(G-ünther, 1866)			Golden Topminnow	
Swamps, backwaters, and pools of ditches and slow-moving creeks; Reelfoot Lake & imm. vicinity.	CP, MF	D		S1S2	G5
Fundulus julisia	Williams and Etnier, 1982			Barrens Topminnow	
Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	ER, CB, SV	E		S1	G1
Hemitremia flammea	(Jordan and Gilbert, 1878)			Flame Chub	
Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	WR, ER, CB, RV, WU, SV, BR, CU	D		S3	G3
Hybognathus placitus	Girard, 1856			Plains Minnow	
Clear to highly turbid rivers and creeks with sandy bottoms; Mississippi River & imm. environs.	CP, MF	D		S1	G4
Hybopsis lineapunctata	Clemmer and Suttkus, 1971			Lined Chub	
Small upland creeks with sandy substrates; Conasauga River watershed.	RV	D		S1	G3G4
Ichthyomyzon gagei	Hubbs and Trautman, 1937			Southern Brook Lamprey	
Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	WR, RV, CB, WU, BR	D		S1	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Ichthyomyzon unicuspis	Hubbs and Trautman, 1937				Silver Lamprey
Lakes, reservoirs, & large rivers; lower Cumberland, lower Tennessee, and probably Mississippi river watersheds.	WR, CB	D		S2	G5
Lampetra sp. 1					A brook lamprey - Obion River system
Small-medium sized streams with stable silt/sand substrates; endemic to the Obion River watershed; reported from Henry County.				S2	GNR
Macrhybopsis gelida	(Girard, 1856)				Sturgeon Chub
Large turbid rivers & their larger tributaries; Mississippi River proper.	MF	D		S1	G3
Macrhybopsis meeki	(Jordan and Evermann, 1896)				Sicklefin Chub
Main channel of the Mississippi River in swift currents over sand and gravel substrates.	MF	D		S2	G3
Macrhybopsis sp. 1					Coosa Chub
In swift currents over gravel substrates; Conasauga River.	RV			S1	G3G4
Moxostoma lacerum	Jordan and Brayton, 1877				Harelip Sucker
Medium to large, warm, sluggish streams with relatively low turbidity and silt levels; presumed extinct.	ER, CB	D		SX	GX
Notropis albizonatus	Warren and Burr, 1994				Palezone Shiner
Large upland creeks and small rivers in quiet waters and flowing pools; possibly extirpated from TN.	RV	E	LE	SH	G1
Notropis asperifrons	Suttkus and Raney, 1955				Burrhead Shiner
Rocky and sandy pools and runs of clear creeks and small rivers; Conasauga River watershed.	RV, BR			S2	G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Notropis buccatus	(Cope, 1865)				Silverjaw Minnow
Small creeks & large rivers with moderate current & sandy substrates; upper Cumberland River watershed; poss. introd. Stones River.	CB, CM	T		S1	G5
Notropis chrosomus	(Jordan, 1877)				Rainbow Shiner
Small, clear, often spring-fed streams with sand and gravel substrates; Conasauga River watershed.	RV, BR			S3	G4
Notropis dorsalis	(Agassiz, 1854)				Bigmouth Shiner
Cool, low-gradient creeks over sand or fine gravel substrates; tributaries near confluence of Mississippi River.	MF	D		S1	G5
Notropis rubellus	(Agassiz, 1850)				Rosyface Shiner
Clear, swift, large creeks with bottoms of clean gravel or rubble; tribs to Cumberland River upst Cumberland Falls.	CM	D		S2	G5
Notropis rupestris	Page, 1987				Bedrock Shiner
Bedrock pools of some low-gradient streams of the Nashville Basin.	ER, WR, CB	D		S2	G2
Notropis stilbius	Jordan, 1877				Silverstripe Shiner
Still or gently flowing pool areas in the Conasauga River & larger tributaries.	BR			S3	G4
Noturus baileyi	Taylor, 1969				Smoky Madtom
Clear, cool, rocky riffles, runs, and flowing pools of mountain creeks; lower Little Tennessee River system.	BR	E	LE, XN	S1	G1
Noturus crypticus	Burr, Eisenhour, and Grady, 2005				Chucky Madtom
Stream runs with slow to moderate current over pea gravel, cobble, or slabrock; Little Chucky Creek; Nolichucky River system.	RV	E	LE	S1	G1

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Noturus fasciatus	Burr, Eisenhour, and Grady, 2005				Saddled Madtom
Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	WR, CB, WU	T		S2	G2
Noturus flavipinnis	Taylor, 1969				Yellowfin Madtom
Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	RV, BR	E	LT, XN	S1	G1
Noturus gladiator	Thomas and Burr, 2004				Piebald Madtom
Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	CP, WU, MF	D		S3	G3
Noturus munitus	Suttkus and Taylor, 1965				Frecklebelly Madtom
In moderate-swift currents of main channel of Conasauga River over a variety of substrates.	RV	T		S1	G3
Noturus stanauli	Etnier and Jenkins, 1980				Pygmy Madtom
Medium to large rivers with moderate to strong current over gravel substrates; Tennessee River watershed.	WR, RV, CB	E	LE, XN	S1	G1
Percina antesella	Williams and Etnier, 1977				Amber Darter
Main channel of Conasauga River in flowing pools & deeper runs with clean substrates of sand, gravel, scattered boulders.	RV, BR	E	LE	S1	G1G2
Percina aurantiaca	(Cope, 1868)				Tangerine Darter
Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	RV, CM, BR, CU	D		S3	G4
Percina burtoni	Fowler, 1945				Blotchside Logperch
Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	WR, ER, RV, CB, BR	D		S2	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Percina jenkinsi	Thompson, 1985			Conasauga Logperch	
Deep gravel runs or pools with small stones & sandy bottoms; Conasauga and Jacks rivers; Conasauga River watershed.	RV, BR	E	LE	S1	G1
Percina kathae	Thompson, 1997			Mobile Logperch	
Pool areas, deep riffles, & runs; Conasauga River & its larger tributaries.	BR			S2S3	G4
Percina kusha	Williams and Burkhead, 2007			Bridled Darter	
Small rivers with exceptional water quality, in flowing pools with sand, detritus, boulders; Conasauga River watershed.	BR			S1	G2
Percina macrocephala	(Cope, 1867)			Longhead Darter	
Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	WR, ER, CB	T		S2	G3
Percina phoxocephala	(Nelson, 1876)			Slenderhead Darter	
Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	WR, ER, CB	D		S3	G5
Percina squamata	(Gilbert and Swain, 1887)			Olive Darter	
Small-med rivers; in strong flowing chutes with rubble/boulders in high-gradient streams; portions of upper Tenn & Cumb river systems.	CU, BR	D		S2	G3
Percina stictogaster	Burr and Page, 1993			Frecklebelly Darter	
Small rivers & larger creeks; pool areas with mod-sluggish current & aquatic vegetation; Barren River watershed.	WR	D		S1	G4G5
Percina tanasi	Etnier, 1976			Snail Darter	
Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	RV, CB, SV, BR	T	LT	S2S3	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AGNATHA & OSTEICHTHYES (FISH)					
Percina williamsi	Page and Near, 2007				Sickle Darter
Flowing pools over rocky, sandy, or silty substrates in clear creeks or small rivers; upper Tennessee River system; east TN.	RV, CU, BR	T		S2	G2
Phenacobius catostomus	Jordan, 1877				Riffle Minnow
Gravel and rubble-bottomed runs and riffles of creeks and small to medium rivers; Conasauga River watershed.	BR			S2	G4
Scaphirhynchus albus	(Forbes and Richardson, 1905)				Pallid Sturgeon
Large, turbid, free-flowing riverine habitat, in strong current over firm gravel or sandy substrates; Mississippi River main channel.	MF	E	LE	S1	G2
Thoburnia atripinnis	(Bailey, 1959)				Blackfin Sucker
Larger creeks with quiet or gently flowing pools with scattered slabrocks & undercut banks; Barren River watershed.	WR, CB	D		S2	G3
Typhlichthys subterraneus	Girard, 1859				Southern Cavefish
Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	WR, ER, CB, WU, SV, CU	D		S3	G4
AMPHIBIA (AMPHIBIANS)					
Acris gryllus	(Le Conte, 1825)				Southern Cricket Frog
Grassy margins of swamps, marshes, lakes, ponds, streams, ditches, and nearby temporary pools; far SW Tennessee.	CP, WU			S2S3	G5
Ambystoma barbouri	Kraus and Petranksa, 1989				Streamside Salamander
Seasonally ephemeral karst streams; middle Tennessee.	WR, CB	D		S2	G4
Aneides aeneus	(Cope and Packard, 1881)				Green Salamander
Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	ER, RV, CB, CM, CU			S3S4	G3G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AMPHIBIA (AMPHIBIANS)					
Cryptobranchus alleganiensis	(Daudin, 1803)				Hellbender
Rocky, clear creeks and rivers with large shelter rocks.	WR, ER, CB, RV, WU, SV, BR, CU	D		S3	G3G4
Desmognathus abditus	Anderson and Tilley, 2003				Cumberland Dusky Salamander
Assoc. with streams of Cumberland Plateau; under rocks along small streams or adj. cover; Morgan & Grundy counties.	ER, CB, RV, CU, BR			S2S3	G2G3
Desmognathus aeneus	Brown and Bishop, 1947				Seepage Salamander
Leaf litter in mixed hardwood forests near small creeks, springs and seeps; southern Blue Ridge; SE Tennessee.	RV, BR	D		S1	G3G4
Desmognathus carolinensis	Dunn, 1916				Carolina Mountain Dusky Salamander
Seepage areas, springs, small streams, & wet rock faces; spruce-fir forest floor; Blue Ridge; Cocke, Greene, Unicoi Cos.	BR			S2S3	G4
Desmognathus santeetlah	Tilley, 1981				Yellow Dusky Salamander
Stream headwaters and high elevation seepage areas in a four-county area of the S Appalachians in far east Tennessee.				S2S3	G3G4Q
Desmognathus welteri	Barbour, 1950				Black Mountain Salamander
Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	WR, RV, CM, CU	D		S3	G4
Desmognathus wrighti	King, 1936				Pygmy Salamander
Mature hardwoods & spruce-fir forests under moss, leaf litter, logs, bark, and rocks; high elevations; Blue Ridge.	RV, BR	D		S2S3	G3
Eurycea junaluska	Sever, Dundee, and Sullivan, 1976				Junaluska Salamander
Beneath rocks along medium to large streams; S Blue Ridge; Monroe, Blount, & Sevier counties.	RV, BR	D		S2	G3

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal						
AMPHIBIA (AMPHIBIANS)						
Gyrinophilus gulolineatus	Brandon, 1965				Berry Cave Salamander	
Aquatic cave obligate; Ridge & Valley; formerly included with <i>G. pallescens</i> .		RV	T	C	S1	G1Q
Gyrinophilus pallescens	McCrary, 1954				Tennessee Cave Salamander	
Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.		ER, CB, RV, SV, CU, BR	T		S2	G2G3
Hemidactylium scutatum	(Temminck and Schlegel, 1838)				Four-toed Salamander	
Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.		WR, ER, CB, RV, CP, CM, WU, BR,	D		S3	G5
Hyla gratiosa	LeConte, 1856				Barking Treefrog	
Low wet woods and swamps esp. with ephemeral ponds.		WR, ER, CP, WU, SV, CU, MF	D		S3	G5
Plethodon aureolus	Highton, 1983				Tellico Salamander	
Mountainous & lowland forests of the S Blue Ridge; Monroe & Polk counties.		BR			S2	G2G3
Plethodon kentucki	Mittleman, 1951				Cumberland Plateau Salamander	
Under logs or leaf litter in mature hardwood forests on steep slopes underlain by sandstone or shale; Cumberland Mountains; Scott Co.					S1S2	G4
Plethodon shermani	Stejneger, 1906				Red-legged Salamander	
Mesic forests, often under leaf litter, logs, or mossy rocks; S Blue Ridge; SE Tennessee.					S2	G3
Plethodon wehrlei	Fowler and Dunn, 1917				Wehrle's Salamander	
Sheltered areas in mesic hardwood forests; Cumberland Mountains; Campbell County.		CM	D		S1	G4

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AMPHIBIA (AMPHIBIANS)					
Plethodon welleri	Wal ker, 1931			Weller's Salamander	
Rich woods under downed logs, rocks, leaf litter; spruce-fir, birch-hemlock, and primarily deciduous forests of NE Blue Ridge.	BR	D		S2	G3
Plethodon yonahlossee	Dunn, 1917			Yonahlossee Salamander	
Mature woodl and hillsides and ravines of the Blue Ridge Mountains; far NE Tennessee; esp. Cherokee National Forest.	BR			S2	G4
Rana capito	LeConte, 1855			Carolina Gopher Frog	
Seasonally flooded ponds in the Barrens of Coffee County.	ER			S1	G3
AVES (BIRDS)					
Accipiter striatus	Vi ei l l ot, 1808			Sharp-shinned Hawk	
Forests and open woodl ands.	WR, ER, RV, CP, CM, BR, CU	D		S3B,S4N	G5
Aegolius acadicus	(Gmel i n, 1788)			Northern Saw-whet Owl	
High-el evati on spruce-fi r forests; Blue Ridge Mountai ns.	RV, BR	T		S1	G5
Aimophila aestivalis	(Li chtenstei n, 1823)			Bachman's Sparrow	
Dry open pine or oak woods; nests on the ground in dense cover.	WR, ER, CB, RV, CP, WU, CU, MF	E		S1B	G3
Ammodramus henslowii	(Audubon, 1829)			Henslow's Sparrow	
Damp open fi el ds and meadows wi th grass interspersed wi th weeds or shrubs.	WR, ER	D		S1B	G4
Anhinga anhinga	(Li nnaeus, 1766)			Anhinga	
Swamps, lakes, and sluggish streams at low el evati ons.	WR, WU, MF	D		S1B	G5

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AVES (BIRDS)					
Aquila chrysaetos (Linnaeus, 1758)					Golden Eagle
Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	WR, ER, CB, CU, BR	T		S1	G5
Ardea alba Linnaeus, 1758					Great Egret
Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	WR, RV, CB, CP, BR, MF	D		S2B,S3N	G5
Botaurus lentiginosus (Rackett, 1813)					American Bittern
Lake and pond edges with plentiful vegetation, and wetlands created by impoundments; rare nester.	ER, WR			S1	G4
Chondestes grammacus (Say, 1823)					Lark Sparrow
Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	WR, CB, CP, WU, MF	T		S1B	G5
Circus cyaneus (Linnaeus, 1766)					Northern Harrier
Marshes, meadows, grasslands, and cultivated fields; ground nester.		D		S4N	G5
Contopus cooperi (Nuttall, 1831)					Olive-sided Flycatcher
Forest, woodland, and open habitats with scattered trees, esp. with tall dead snags.	BR	D		S1	G4
Corvus corax Linnaeus, 1758					Common Raven
Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	RV, SV, CU, BR	T		S2	G5
Dendroica cerulea (Wilson, 1810)					Cerulean Warbler
Mature deciduous forest, particularly in floodplains or mesic conditions.	WR, ER, CB, RV, CP, CM, WU, BR,	D		S3B	G4

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal						
AVES (BIRDS)						
Egretta caerulea	(Linnaeus, 1758)					Little Blue Heron
Bodies of calm shallow water; colonial nester.		WR, CP, WU, MF	D		S2B,S3N	G5
Egretta thula	(Molina, 1782)					Snowy Egret
Marshes, lakes, ponds; colonial nester.			D		S2B,S3N	G5
Empidonax alnorum	Brewster, 1895					Alder Flycatcher
Alder thickets adj. balds, forest edge, boggy meadows; higher elevations of Southern Blue Ridge.		BR			S1	G5
Falco peregrinus	Tunstall, 1771					Peregrine Falcon
Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.		RV, CB, CM, BR, CU, MF	E		S1B	G4
Gallinula galeata	(Lichtenstein, 1818)					Common Moorhen
Marshes, quiet rivers, lakes and ponds; nests among marsh plants over water; infrequently flies.		RV, MF	D		S1B	G5
Haliaeetus leucocephalus	(Linnaeus, 1766)					Bald Eagle
Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.		WR, ER, RV, CB, CP, WU, SV, CU,	D		S3	G5
Ictinia mississippiensis	(Wilson, 1811)					Mississippi Kite
Undisturbed stands of lowland and floodplain forests and along major rivers.		CP, MF	D		S2S3	G5
Ixobrychus exilis	(Gmelin, 1789)					Least Bittern
Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.		ER, RV, CB, CP, CU, MF	D		S2B	G5

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal						
AVES (BIRDS)						
Lanius ludovicianus	Linnaeus, 1766					Loggerhead Shrike
Open country with scattered trees and shrubs and occasionally open woodland; extremely rare breeder.		CB, RV, CP, MF	D		S1B,S2N	G4
Limnothlypis swainsonii	(Audubon, 1834)					Swainson's Warbler
Mature, rich, damp, deciduous floodplain and swamp forests.		WR, RV, CP, WU, CM, CU, BR, MF	D		S3	G4
Passerculus sandwichensis	(Gmelin, 1789)					Savannah Sparrow
Grassland habitats, away from cultivated fields and fence lines; reported from Ridge & Valley and Western Highland Rim.		WR, RV			S1B,S4N	G5
Poecile atricapillus	(Linnaeus, 1766)					Black-capped Chickadee
Deciduous and mixed forest and woodland, and tall thickets; Appalachian Mountains.			D		S2B	G5
Pooecetes gramineus	(Gmelin, 1789)					Vesper Sparrow
Balds, old pastures; ground nester.		WR, BR	D		S1B,S4N	G5
Rallus elegans	Audubon, 1834					King Rail
Marshes, upland-wetland marsh edges, flooded farmlands, shrub swamps.		ER, RV	D		S2	G4
Sphyrapicus varius	(Linnaeus, 1766)					Yellow-bellied Sapsucker
Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.		BR	D		S1B,S4N	G5
Sternula antillarum athalassos	(Burleigh and Lowery, 1942)					Interior Least Tern
Mississippi River sand bars & islands, dikes.		CP, MF	E	LE	S2S3B	G4T2Q

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
AVES (BIRDS)					
Thryomanes bewickii	(Audubon, 1827)				Bewick's Wren
Brushy areas, thickets and scrub in open country, open and riparian woodland.	WR, ER, CB, CP, WU, CM, CU, BR,	E		S1	G5
Tyrannus forficatus	(Gmelin, 1789)				Scissor-tailed Flycatcher
Open country, dry grasslands, cultivated lands, scrub; widespread but uncommon breeders in TN.				S2B	G5
Tyto alba	(Scopoli, 1769)				Barn Owl
Open and partly open country, often around human habitation; farms.	ER, WR, CB, RV, CP, BR, MF	D		S3	G5
Vermivora chrysoptera	(Linnaeus, 1766)				Golden-winged Warbler
Early successional habitats in foothill regions of Appalachians.	CM, BR, CU	D		S3B	G4
Vireo bellii	Audubon, 1844				Bell's Vireo
Thickets adjacent to water, bottomlands; west Tennessee and one confirmed location in Western Highland Rim.	CP			S1B	G5
MAMMALIA (MAMMALS)					
Condylura cristata	(Linnaeus, 1758)				Star-nosed Mole
Hydric soils in beech-maple-birch forests at higher elevations in the Appalachians.	BR	D		S2	G5
Corynorhinus rafinesquii	(Lesson, 1827)				Rafinesque's Big-eared Bat
Caves, hollow trees, abandoned buildings; often associated with forested areas.	ER, RV, CB, CP, SV, CM, WU, BR, CU,	D		S3	G3G4
Corynorhinus townsendii virginianus	Handley, 1955				Virginia Big-eared Bat
Caves typically in limestone karst regions dominated by mature hardwood forests. Prefers cool, well-ventilated caves for hibernation. Maternity colonies settle deep within caves.	BR		LE	S1	G3G4T2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
MAMMALIA (MAMMALS)					
Glaucomys sabrinus coloratus	Handley, 1953				Carolina Northern Flying Squirrel
Spruce-fir or mature hardwood forest with snags; in tree cavities or leaf nests; higher elevations of the Appalachians.	BR	E	LE	S1S2	G5T2
Martes pennanti	(Erxleben, 1777)				Fisher
Large, heavily wooded areas w/ mixed hardwoods or conifers; presumably extirpated; reintrod. into the northern Cumberland Plateau.				SU	G5
Microtus chrotorrhinus carolinensis	Komarek, 1932				Southern Rock Vole
Mossy rocks and logs, and cool, moist talus slopes at higher elevations of the Appalachians.	BR	D		S2	G4T3
Mustela nivalis	Linnaeus, 1766				Least Weasel
Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	RV, BR, CU			S2	G5
Myotis austroriparius	(Rhoads, 1897)				Southeastern Myotis
Caves, but especially hollow trees & abandoned buildings, usually near water.	CP, MF			S3	G3G4
Myotis grisescens	A. H. Howell, 1909				Gray Myotis
Cave obligate year-round; frequents forested areas; migratory.	WR, ER, CB, RV, CP, CM, WU, SV,	E	LE	S2	G3
Myotis leibii	(Audubon and Bachman, 1842)				Eastern Small-footed Myotis
Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	WR, ER, RV, CM, BR, CU	D		S2S3	G1G3
Myotis septentrionalis	(Trovessart, 1897)				Northern Myotis
A forest bat whose summer roosts may include caves, mines, live trees and snags; hibernates in caves and mines, often using small cracks and fissures. -á Notably susceptible to White-Nose	WR, CB, BR, CU		LT	S1S2	G2G3

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
MAMMALIA (MAMMALS)					
Myotis sodalis	Miller and Allen, 1928				Indiana Myotis
Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	ER, WR, CB, RV, CM, BR, CU, MF	E	LE	S1	G2
Napaeozapus insignis	(Miller, 1991)				Woodland Jumping Mouse
Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	ER, RV, CM, BR, CU	D		S4	G5
Neotoma floridana haematorea	A. H. Howell, 1934				Southern Appalachian Woodrat
Forests & talus slopes in southern Appalachians of southeastern Tennessee.	BR	D		S2	G5T4Q
Neotoma floridana illinoensis	A. H. Howell, 1910				Eastern Woodrat
Forested areas, caves & outcrops; west Tennessee generally.	CP, MF	D		S3	G5T5
Neotoma magister	Baird, 1858				Allegheny Woodrat
Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	WR, ER, CB, RV, CM, SV, BR, CU	D		S3	G3G4
Parascalops breweri	(Bachman, 1842)				Hairy-tailed Mole
Moist soils in deciduous forests with thick humus; east Tennessee.	RV, CM, BR	D		S3	G5
Sorex cinereus	Kerr, 1792				Cinereus Shrew
Rich woodlands of many types; open fields; middle and east Tennessee.	WR, ER, RV, CP, CM, BR, CU	D		S4	G5
Sorex dispar	Batchelder, 1911				Long-tailed Shrew
Mountainous, forested areas with loose talus; east Tennessee.	RV, BR, CU	D		S2	G4

HABITAT		PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal						
MAMMALIA (MAMMALS)						
Sorex fumeus	Miller, 1895					Smoky Shrew
Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.		ER, CB, RV, CM, BR, CU	D		S4	G5
Sorex hoyi	Baird, 1858					American Pygmy Shrew
Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.		ER, WR, RV, CU, BR			S2	G5
Sorex longirostris	Bachman, 1837					Southeastern Shrew
Various habitats including wet meadows, damp woods, and uplands; statewide.		WR, ER, CB, RV, CP, CM, WU, BR,	D		S4	G5
Sorex palustris	Richardson, 1828					American Water Shrew
Most abundant along small cold streams with thick overhanging riparian growth; Appalachian Mountains.		BR	D		S2	G5
Spilogale putorius	(Linnaeus, 1758)					Eastern Spotted Skunk
Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.		ER, CM, CU, BR			S3	G4
Synaptomys cooperi	Baird, 1858					Southern Bog Lemming
Marshy meadows, wet bays, & rich upland forests.		WR, RV, CP, CM, BR, CU	D		S4	G5
Zapus hudsonius	(Zimmermann, 1780)					Meadow Jumping Mouse
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.		WR, ER, CB, RV, CP, WU, BR, CU,	D		S4	G5
REPTILIA (REPTILES)						
Clonophis kirtlandii	(Kennicott, 1856)					Kirtland's Snake
Typically inhabits wet meadows, wet prairies and associated open and wooded wetlands, seasonal marshes, open swamps, and sparsely wooded hillsides.					S1	G2

HABITAT	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
Vertebrate Animal					
REPTILIA (REPTILES)					
<i>Glyptemys muhlenbergii</i>	(Schoepff, 1801)				Bog Turtle
Muck-bottomed bogs, fens, marshy/sedge-tussock meadows, spring seeps, wet pastures, and shrub swamps; Appalachian.	BR	T	SAT	S1	G3
<i>Macrochelys temminckii</i>	(Troost, in Harlan, 1835)				Alligator Snapping Turtle
Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.	WR, CB, CP, WU, MF	D		S2S3	G3G4
<i>Nerodia cyclopion</i>	(Dumeril, Bibron, and Dumeril, 1854)				Mississippi Green Watersnake
Marshes, swamps, bayous, shallow lakes and ponds, wet prairies, oxbows and floodplain sloughs; far west Tennessee.	CP, MF	D		S2	G5
<i>Nerodia erythrogaster neglecta</i>	(Conant, 1949)				Copperbelly Watersnake
Warm, quiet waters; wooded lakes, streams, sloughs; northern middle Tennessee; lower Cumberland & Tennessee river watersheds.	WR, WU			S2S3	G5T3
<i>Ophisaurus attenuatus longicaudus</i>	McConkey, 1852				Eastern Slender Glass Lizard
Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	ER, WR, RV, CB, CP, WU, CU, BR	D		S3	G5T5
<i>Pituophis melanoleucus melanoleucus</i>	(Daudin, 1803)				Northern Pinesnake
Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachian.	WR, ER, CB, RV, CP, WU, BR, CU	T		S3	G4T4
<i>Plestiodon anthracinus</i>	Baird, 1849 [or 1850]				Coal Skink
Humid wooded areas with abundant leaf litter and loose rocks; vicinity of springs, swamps, and bogs; spotty distribution.	WR, WU, BR	D		S1	G5
<i>Sistrurus miliarius streckeri</i>	Gloyd, 1935				Western Pygmy Rattlesnake
Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	WR, CB, CP, WU	T		S2S3	G5T5