

**RULES  
OF  
TENNESSEE WILDLIFE RESOURCES AGENCY  
BIODIVERSITY**

**CHAPTER 1660-01-32  
RULES AND REGULATIONS FOR IN NEED OF MANAGEMENT, THREATENED, AND  
ENDANGERED SPECIES**

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**1660-01-32-.01 ADOPTION OF FEDERAL ENDANGERED SPECIES ACT.**

- (1) The Tennessee Wildlife Resources Agency hereby adopts by reference the species and subspecies protected by the Federal Endangered Species Act of 1973, as amended, 16 USCA, Ch. 35. A list of Tennessee’s Federally threatened and endangered species under the Endangered Species Act may be found at 50 C.F.R. § 17.11.

**Authority:** T.C.A. §§ 70-1-206, 70-8-104, 70-8-106, and 70-8-107. **Administrative History:** Original rules filed February 1, 2018; to have been effective May 2, 2018. However, the Government Operations Committee filed a 45-day stay on April 19, 2018; new effective date to have been June 16, 2018. On May 23, 2018, TWRA filed a 75-day stay; new effective date August 30, 2018.

**1660-01-32-.02 THREATENED AND ENDANGERED SPECIES LISTS AND RULES.**

- (1) The following species or subspecies are listed as state endangered.
- (a) Crayfish

Common Name	Scientific Name
Big South Fork Crayfish	<i>Cambarus bouchardi</i>
Mountain Crayfish	<i>Cambarus conasaugaensis</i>
Conasauga Blue Burrower	<i>Cambarus cymatilis</i>
Valley Flame Crayfish	<i>Cambarus deweesae</i>
Chickamauga Crayfish	<i>Cambarus extraneus</i>
Obey Crayfish	<i>Cambarus obeyensis</i>
Pristine Crayfish	<i>Cambarus pristinus</i>
Speckled Crayfish	<i>Cambarus lentiginosus</i>
Hatchie Burrowing Crayfish	<i>Creaserinus hortonii</i>
Blood River Crayfish	<i>Faxonius burri</i>
Flint River Crayfish	<i>Faxonius cooperi</i>
Tennessee Cave Crayfish	<i>Orconectes incomptus</i>
Hardin Crayfish	<i>Faxonius wrighti</i>

- (b) Fish

(Rule 1660-01-32-.02, continued)

<b>Common Name</b>	<b>Scientific Name</b>
Lake Sturgeon	<i>Acipenser fulvescens</i>
Ashy Darter	<i>Etheostoma cinereum</i>
Crown Darter	<i>Etheostoma corona</i>
Barrens Darter	<i>Etheostoma forbesi</i>
Tuckasegee Darter	<i>Etheostoma gutselli</i>
Egg-mimic Darter	<i>Etheostoma pseudovulatum</i>
Barrens Topminnow	<i>Fundulus julisia</i>
Coosa Chub	<i>Macrhybopsis sp. 1</i>
Silverjaw minnow	<i>Notropis buccatus</i>

(c) Amphibians

<b>Common Name</b>	<b>Scientific Name</b>
Streamside Salamander	<i>Ambystoma barbouri</i>
Hellbender	<i>Cryptobranchus alleganiensis</i>

(d) Birds

<b>Common Name</b>	<b>Scientific Name</b>
Bachman's Sparrow	<i>Peucaea aestivalis</i>

(2) The following species or subspecies are listed as state threatened.

(a) Crayfish

<b>Common Name</b>	<b>Scientific Name</b>
Tennessee Bottlebrush Crayfish	<i>Barbicambarus simmonsii</i>
Hiwassee Crayfish	<i>Cambarus hiwasseeensis</i>
Greensaddle Crayfish	<i>Cambarus manningi</i>
Cocoa Crayfish	<i>Cambarus stockeri</i>
Brawleys Fork Crayfish	<i>Cambarus williamsi</i>
Crescent Crayfish	<i>Faxonius taylori</i>

(b) Fish

(Rule 1660-01-32-.02, continued)

<b>Common Name</b>	<b>Scientific Name</b>
Western Sand Darter	<i>Ammocrypta clara</i>
Blue sucker	<i>Cycleptus elongatus</i>
Coppercheek Darter	<i>Etheostoma aquali</i>
Holiday Darter	<i>Etheostoma brevirostrum</i>
Coldwater Darter	<i>Etheostoma ditrema</i>
Redlips Darter	<i>Etheostoma maydeni</i>
Striated Darter	<i>Etheostoma striatulum</i>
Trispot Darter	<i>Etheostoma trisella</i>
Saddled Madtom	<i>Noturus fasciatus</i>
Frecklebelly Madtom	<i>Noturus munitus</i>
Longhead Darter	<i>Percina macrocephala</i>
Sickle Darter	<i>Percina williamsi</i>

(c) Amphibians

<b>Common Name</b>	<b>Scientific Name</b>
Berry Cave Salamander	<i>Gyrinophilus gulolineatus</i>
Tennessee Cave Salamander	<i>Gyrinophilus palleucus</i>
Pale Salamander	<i>Gyrinophilus palleucus palleucus</i>
Big Mouth Cave Salamander	<i>Gyrinophilus palleucus necturoides</i>

(d) Reptiles

<b>Common Name</b>	<b>Scientific Name</b>
Alligator Snapping Turtle	<i>Macrolemys temminckii</i>
Northern Pine Snake	<i>Pituophis melanoleucus</i>
Western Pigmy Rattlesnake	<i>Sistrurus miliarius streckeri</i>

(e) Birds

<b>Common Name</b>	<b>Scientific Name</b>
Henslow's Sparrow	<i>Ammodramus henslowii</i>
Golden-winged Warbler	<i>Vermivora chrysoptera</i>

(f) Mammals

(Rule 1660-01-32-.02, continued)

Common Name	Scientific Name
Little Brown Bat	<i>Myotis lucifugus</i>
Tri-colored Bat	<i>Perimyotis subflavus</i>

**Authority:** T.C.A. §§ 70-1-206, 70-8-104, 70-8-106, and 70-8-107. **Administrative History:** Original rules filed February 1, 2018; to have been effective May 2, 2018. However, the Government Operations Committee filed a 45-day stay on April 19, 2018; new effective date to have been June 16, 2018. On May 23, 2018, TWRA filed a 75-day stay; new effective date August 30, 2018.

**1660-01-32-.03 WILDLIFE IN NEED OF MANAGEMENT LIST AND RULES.**

(1) The following species or subspecies are listed as state wildlife in need of management

(a) Crayfish

Common Name	Scientific Name
Bottlebrush Crayfish	<i>Barbicambarus cornutus</i>
Short Mountain Crayfish	<i>Cambarus clivosus</i>
Prickly Cave Crayfish	<i>Cambarus hamulatus</i>
Spiny Scale Crayfish	<i>Cambarus jezerinaci</i>
Florence Crayfish	<i>Cambarus andersoni</i>
Alabama Crayfish	<i>Faxonius alabamensis</i>
Barren River Crayfish	<i>Faxonius barrenensis</i>
Cumberland Plateau Cave	<i>Orconectes barri</i>
Mammoth Cave Crayfish	<i>Orconectes pellucidus</i>

(b) Fish

Common Name	Scientific Name
Naked Sand Darter	<i>Ammocrypta beanii</i>
Scaly Sand Darter	<i>Ammocrypta vivax</i>
American Eel	<i>Anguilla rostrata</i>
Alligator Gar	<i>Atractosteus spatula</i>
Highfin Carpsucker	<i>Carpionodes velifer</i>
Tennessee Dace	<i>Chrosomus tennesseensis</i>
Rugby Dace	<i>Chrosomus sp 1</i>
Smoky Dace	<i>Clinostomus funduloides ssp. 1</i>
Emerald Darter	<i>Etheostoma baileyi</i>
Teardrop Darter	<i>Etheostoma barbouri</i>
Splendid Darter	<i>Etheostoma barrenense</i>
Orangefin Darter	<i>Etheostoma bellum</i>
Chickasaw Darter	<i>Etheostoma cervus</i>
Golden Darter	<i>Etheostoma denoncourti</i>

(Rule 1660-01-32-.03, continued)

Redband Darter	<i>Etheostoma luteovinctum</i>
Smallscale Darter	<i>Etheostoma microlepidum</i>
Lollypop Darter	<i>Etheostoma neopteron</i>
Sooty Darter	<i>Etheostoma olivaceum</i>
Firebelly Darter	<i>Etheostoma pyrrhogaster</i>
Arrow Darter	<i>Etheostoma sagitta</i>
Tippecanoe Darter	<i>Etheostoma tippecanoe</i>
Tuscumbia Darter	<i>Etheostoma tuscumbia</i>
Wounded Darter	<i>Etheostoma vulneratum</i>
Golden Topminnow	<i>Fundulus chrysotus</i>
Flame Chub	<i>Hemitemia flammea</i>
Plains Minnow	<i>Hybognathus placitus</i>
Lined Chub	<i>Hybopsis lineapunctata</i>
Southern Brook Lamprey	<i>Ichthyomyzon gagei</i>
Silver Lamprey	<i>Ichthyomyzon unicuspis</i>
Sturgeon Chub	<i>Macrhybopsis gelida</i>
Sicklefin Chub	<i>Macrhybopsis meeki</i>
Rainbow Shiner	<i>Notropis chrosomus</i>
Bigmouth Shiner	<i>Notropis dorsalis</i>
Bedrock Shiner	<i>Notropis rupestris</i>
Piebald Madtom	<i>Noturus gladiator</i>
Tangerine Darter	<i>Percina aurantiaca</i>
Blotchside Logperch	<i>Percina burtoni</i>
Slenderhead Darter	<i>Percina phoxocephala</i>
Olive Darter	<i>Percina squamata</i>
Frecklebelly Darter	<i>Percina stictogaster</i>
Riffle Minnow	<i>Phenacobius catostomus</i>
Blackfin Sucker	<i>Thoburnia atripinnis</i>
Southern Cavefish	<i>Typhlichthys subterraneus</i>

(c) Amphibians

<b>Common Name</b>	<b>Scientific Name</b>
Cumberland Dusky Salamander	<i>Desmognathus abditus</i>
Seepage Salamander	<i>Desmognathus aeneus</i>
Black Mountain Salamander	<i>Desmognathus welteri</i>
Pygmy Salamander	<i>Desmognathus wrighti</i>
Junaluska Salamander	<i>Eurycea junaluska</i>
Four-toed Salamander	<i>Hemidactylium scutatum</i>
Wehrle's Salamander	<i>Plethodon wehrlei</i>
Weller's Salamander	<i>Plethodon welleri</i>

(Rule 1660-01-32-.03, continued)

(d) Reptiles

Common Name	Scientific Name
Mississippi Green Water Snake	<i>Nerodia cyclopion</i>
Eastern Slender Glass Lizard	<i>Ophisaurus attenuatus longicaudus</i>
Coal Skink	<i>Plestiodon anthracinus</i>

(e) Birds

Common Name	Scientific Name
Golden Eagle	<i>Aquila chrysaetos</i>
Little Blue Heron	<i>Egretta caerulea</i>
Wood Thrush	<i>Hylocichla mustelina</i>
Least Bittern	<i>Ixobrychus exilis</i>
Loggerhead Shrike	<i>Lanius ludovicianus</i>
Swainson's Warbler	<i>Limnothlypis swainsonii</i>
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>
King Rail	<i>Rallus elegans</i>
Cerulean Warbler	<i>Setophaga cerulea</i>
Bewick's Wren	<i>Thryomanes bewickii</i>

(f) Mammals

Common Name	Scientific Name
Star-nosed Mole	<i>Condylura cristata</i>
Rafinesque's Big-eared Bat	<i>Corynorhinus rafinesquii</i>
Southern Rock Vole	<i>Microtus chrotorrhinus carolinensis</i>
Eastern Small-footed Bat	<i>Myotis leibii</i>
Southern Appalachian Woodrat	<i>Neotoma floridana haematoreaia</i>
Eastern Woodrat	<i>Neotoma floridana illinoensis</i>
Allegheny Woodrat	<i>Neotoma magister</i>
Hairy-tailed Mole	<i>Parascalops breweri</i>
Long-tailed Shrew	<i>Sorex dispar</i>
American Water Shrew	<i>Sorex palustris</i>
Southern Bog Lemming	<i>Synaptomys cooperi</i>

**Authority:** T.C.A. §§ 70-1-206, 70-8-104, 70-8-106, and 70-8-107. **Administrative History:** Original rules filed February 1, 2018; to have been effective May 2, 2018. However, the Government Operations Committee filed a 45-day stay on April 19, 2018; new effective date to have been June 16, 2018. On May 23, 2018, TWRA filed a 75-day stay; new effective date August 30, 2018.