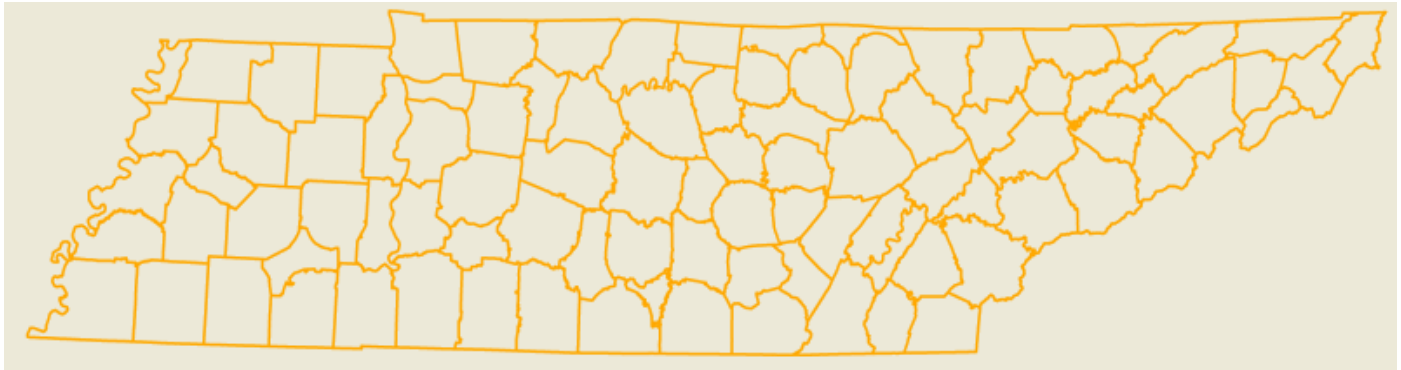




Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



This document provides lists of rare species known to occur within each of Tennessee's counties.

If you are viewing the list in its original digital format and you have an internet connection, you may click the scientific names to search the NatureServe Explorer Encyclopedia of Life for more detailed species information.

The following lists were last updated in July 2009 and are based on rare species observations stored in the Tennessee Natural Heritage Biotics Database maintained by the TDEC Natural Heritage Program. For definitions of ranks and protective status, or for instructions on obtaining a site specific project review, please visit our website:

<http://state.tn.us/environment/na/data.shtml>

If you need assistance using the lists or interpreting data, feel free to contact us:

Natural Heritage Program
Tennessee Department of Environment and Conservation
7th Floor L&C Annex
401 Church Street
Nashville, Tennessee 37243
(615) 532-0431

The lists provided are intended for use as planning tools. Because many areas of the state have not been searched for rare species, the lists should not be used to determine the absence of rare species. The lists are best used in conjunction with field visits to identify the types of rare species habitat that may be present at a given location. For projects that are located near county boundaries or are in areas of the state that have been under-surveyed (particularly in western Tennessee), we recommend that you check rare species lists for adjacent counties or watersheds as well.

In Tennessee, TDEC assumes the role for listing rare plants while the Tennessee Wildlife Resources Agency (TWRA) is responsible for listing rare animal species. Both TDEC and TWRA purchase lands to conserve rare species. TWRA also enforces laws regulating the impacts to rare animals. Land disturbance and water quality permits from federal, state, and some local agencies often include specific requirements protective of both rare plant and animal species. Potential impacts to rare species are also evaluated during the consideration process for state and federal grants. Finally, the US Fish and Wildlife Service is responsible for enforcement of the Endangered Species Act which protects federally listed plants and animals.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Anderson County

Known Species: 73

Invertebrate Animals: 20

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Amergoniscus nicholasi</i>	A Cave Obligate Isopod	S1S2	G1G2	--	--
	Terrestrial cave obligate; known from two caves; Western Highland Rim and Ridge & Valley.				
<i>Athearnia anthonyi</i>	Anthony Riversnail	S1	G1	E	LE,XN
	Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.				
<i>Cambarus deweesae</i>	Valley Flame Crayfish	S1	G4	E	--
	Primary burrower; open areas with high water tables; northern Ridge & Valley.				
<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Fusconaia cor</i>	Shiny Pigtoe	S1	G1	E	LE
	Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Hemistena lata</i>	Cracking Pearlymussel	S1	G1	E	LE
	Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Lampsilis virescens</i>	Alabama Lampmussel	S1	G1	E	LE
	Found in sand and gravel substrates in shoal areas of small-medium size rivers; middle and upper TN R system; poss extirpated in TN.				
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	S1	G1	E	LE
	Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.				
<i>Nesticus paynei</i>	A Cave Spider	S3	G3G4	--	--
	Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.				
<i>Plethobasus cicatricosus</i>	White Wartyback	S1	G1	E	LE
	Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Anderson County . . . Continued

Known Species: 73

Invertebrate Animals: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudanophthalmus paynei</i>	Payne's Cave Beetle Terrestrial cave obligate; northern Ridge & Valley; reported from Anderson County.	S1	G1	--	--
<i>Pseudanophthalmus pusillus</i>	Tiny Cave Beetle Terrestrial cave obligate; northern Ridge & Valley.	S1	G1	--	--
<i>Pseudanophthalmus wallacei</i>	Wallace's Cave Beetle Terrestrial cave obligate; Ridge & Valley; Anderson County.	S1	G1	--	--
Nonvascular Plants: 3		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus Calcareous Or Dolomite Bluffs	S1	G3?	E	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Palamocladium leskeoides</i>	Seepy Limestone Cliffs And Bluffs	S1	G3G5	T	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Delphinium exaltatum</i>	Tall Larkspur Glades And Barrens	S2	G3	E	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Elodea nuttallii</i>	Nuttall's Waterweed Aquatic; Streams And Ponds	S2	G5	S	--
<i>Epilobium ciliatum</i>	Hairy Willow-herb Mountain Balds	S1	G5	T	--
<i>Fothergilla major</i>	Mountain Witch-alder Rocky Slopes And River Banks	S2	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Anderson County . . . Continued

Known Species: 73

Vascular Plants: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Iris fulva</i>	Copper Iris Bottomlands	S2	G5	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Meehanian cordata</i>	Heartleaf Meehanian Wooded Mountain Slopes	S2	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Pycnanthemum torrei</i>	Torrey's Mountain-mint Barrens	S1	G2	S	--
<i>Silphium wasiotense</i>	Kentucky Rosinweed Moist Slopes	S2	G3	E	--
<i>Solidago ptarmicoides</i>	Prairie Goldenrod Barrens	S1S2	G5	E	--
<i>Sullivantia sullivantii</i>	Sullivantia Moist Shaded Cliffs	S1	G4	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--

Vertebrate Animals: 25		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Anderson County . . . Continued

Known Species: 73

Vertebrate Animals: 25 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Erimystax cahni</i>	Slender Chub Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.	S1	G1	T	LT
<i>Etheostoma baileyi</i>	Emerald Darter Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	S2	G4G5	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus flavipinnis</i>	Yellowfin Madtom Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	S1	G1	E	LT,XN
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Anderson County . . . Continued

Known Species: 73

Vertebrate Animals: 25 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Thryomanes bewickii

Bewick's Wren

S1

G5

E

--

Brushy areas, thickets and scrub in open country, open and riparian woodland.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

Vermivora chrysoptera

Golden-winged Warbler

S3B

G4

D

--

Early successional habitats in foothill regions of Appalachians.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Anderson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bedford County

Known Species: 36

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Nashville Basin Limestone Glade</i>	Nashville Basin Limestone Glade, Barrens, and Woodland	SNR	GNR	--	--
Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Dalea foliosa</i> - <i>Mecardonia acuminata</i> - <i>Mitreola petiolata</i> Herbaceous Vegetation	Limestone Glade Streamside Meadow	S2?	G2?	--	--
<i>Eleocharis compressa</i> - <i>Schoenolirion croceum</i> - <i>Carex crawei</i> - <i>Allium cernuum</i> Herbaceous Vegetation	Central Basin Limestone Seep Glade	SNR	G2?	--	--
Invertebrate Animals: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Gomphus sandrius</i>	Tennessee Clubtail Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.	S1	G1	--	--
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of <i>L. geniculata</i> ; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Obovaria subrotunda</i>	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.	S2S3	G4	--	--
Vascular Plants: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Anemone caroliniana</i>	Carolina Anemone Glades And Cedar Woodlands	S1S2	G5	E	--
<i>Arnoglossum plantagineum</i>	Fen Indian-plantain Moist Prairies And Marshes	S2	G4G5	T	--
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bedford County . . . Continued

Known Species: 36

Vascular Plants: 13 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Oenothera macrocarpa</i>	Missouri Primrose Limestone Cedar Glades	S2	G5	T	--
<i>Polygala boykinii</i>	Boykin's Milkwort Glades	S2	G4	T	--
<i>Rosa virginiana</i>	Virginia Rose Limestone Barrens And Swamps	SH	G5	S	--
<i>Schoenolirion croceum</i>	Yellow Sunnysbell Wet Areas In Glades	S3	G4	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Trifolium calcaricum</i>	Running Glade Clover Glades, Cedar Woods, And Thickets	S1	G1	E	--
Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma denoncourti</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Bedford County . . . Continued

Known Species: 36

Vertebrate Animals: 15 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Noturus fasciatus

Saddled Madtom

S2

G2

T

--

Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.

Percina macrocephala

Longhead Darter

S2

G3

T

--

Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.

Percina phoxocephala

Slenderhead Darter

S3

G5

D

--

Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.

-- End of Bedford --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Benton County

Known Species: 18

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lampsilis abrupta

Pink Mucket

S2

G2

E

LE

Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.

Obovaria retusa

Ring Pink

S1

G1

E

LE

Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.

Plethobasus cooperianus

Orangefoot Pimpleback

S1

G1

E

LE

Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Carex reniformis

Reniform Sedge

S1

G4?

S

--

Rich Bottomland Woods

Eryngium integrifolium

Blue-flower Coyote-thistle

S1

G5

T

--

Wet Barrens

Fuirena squarrosa

Hairy Umbrella-sedge

S1

G4G5

S

--

Stream And Lake Margins

Lysimachia fraseri

Fraser's Loosestrife

S2

G3

E

--

Dry Open Woods

Phlox pilosa ssp. ozarkana

Ozark Downy Phlox

S1S2

G5T4?

S

--

Rocky, Dry Open Woods

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Egretta caerulea

Little Blue Heron

S2B,S3N

G5

D

--

Bodies of calm shallow water; colonial nester.

Haliaeetus leucocephalus

Bald Eagle

S3

G5

D

--

Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.

Macrochelys temminckii

Alligator Snapping Turtle

S2S3

G3G4

D

--

Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.

Myotis grisescens

Gray Myotis

S2

G3

E

LE

Cave obligate year-round; frequents forested areas; migratory.

Percina phoxocephala

Slenderhead Darter

S3

G5

D

--

Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.

Pituophis melanoleucus melanoleucus

Northern Pinesnake

S3

G4T4

T

--

Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Benton County . . . Continued

Known Species: 18

Vertebrate Animals: 9 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sistrurus miliarius streckeri

Western Pygmy Rattlesnake

S2S3

G5T5

T

--

Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Benton --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bledsoe County

Known Species: 35

Invertebrate Animals: 6		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anthrobia mammothia</i>	Mammoth Cave spider Terrestrial cave obligate; reported from a handful of caves in the middle Cumberlands; Bledsoe, Grundy, & Van Buren counties.	S1	G5	--	--
<i>Caecidotea circulus</i>	A Cave Obligate Isopod Aquatic cave obligate; Cumberland Plateau.	S1	G1G2	--	--
<i>Cambarus hamulatus</i>	Prickly Cave Crayfish Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.	S3	G3G4	--	--
<i>Cambarus pristinus</i>	Pristine Crayfish Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	S2	G2	E	--
<i>Helicodiscus hexodon</i>	Toothy Coil In leaf litter of forested hillsides; escarpment to Walden Ridge from Sequatchie Valley; Cumberland Plateau; Bledsoe County.	S1	G1	--	--
<i>Kleptochthonius charon</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Sequatchie Valley.	S1S2	G1G2	--	--
Vascular Plants: 22		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Agalinis auriculata</i>	Earleaved False-foxglove Barrens	S2	G3	E	--
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Calopogon oklahomensis</i>	Oklahoma Grass-pink Acidic Wet Barrens	SH	G4?	E-P	--
<i>Drosera capillaris</i>	Pink Sundew Acidic Wetlands	S1	G5	T	--
<i>Epilobium ciliatum</i>	Hairy Willow-herb Mountain Balds	S1	G5	T	--
<i>Fimbristylis puberula</i>	Hairy Fimbristylis Wet Prairies And Woods	S1S2	G5	T	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Listera australis</i>	Southern Twayblade Wet-Mesic Woods	S1S2	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bledsoe County . . . Continued

Known Species: 35

Vascular Plants: 22 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Poa saltuensis</i>	Drooping Bluegrass Rich Oak Woods	S1	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Rhynchospora wrightiana</i>	Wright's Beak-rush Wet Pine Barrens	SH	G5	E-P	--
<i>Scutellaria montana</i>	Large-flowered Skullcap Escarpments, Dry Woods	S2	G3	T	LT
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Viola tripartita</i> var. <i>tripartita</i>	Three-parted Violet Wooded Slopes	S2S3	G5T3	S	--
Vertebrate Animals: 7		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Phoxinus saylori</i>	Laurel Dace Cool 1st-2nd order streams with slabrock and rubble substrate; Walden Ridge of the Cumberland Plateau; Tennessee River watershed.	S1	G1	E	C
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--

-- End of Bledsoe --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Blount County

Known Species: 90

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Appalachian Shale Barrens</i>	Appalachian Shale Barrens	SNR	GNR	--	--
Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Arundinaria gigantea</i> ssp. <i>gigantea</i> Shrubland	Floodplain Canebreak	SNR	G2?	--	--
<i>Pinus echinata</i> / <i>Schizachyrium scoparium</i> Appalachian Woodland	Shortleaf Pine / Little Bluestem Appalachian Woodland	SNR	G2	--	--
Invertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Caecidotea incurva</i>	Incurved Cave Isopod Aquatic cave obligate; known from two wet caves in east Tennessee.	S1	G2G4	--	--
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Macromia margarita</i>	Mountain River Cruiser Typically small mountain streams, usually rocky but with silt deposits; reported from Campbell & Blount counties.	S2S3	G3	--	--
<i>Nesticus barrowsi</i>	A Cave Obligate Spider Terrestrial cave obligate; Appalachian Mountains.	S1S2	G1G2	--	--
<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.	S1	G3T2T3	--	--
<i>Pilsbryna aurea</i>	Ornate Bud Deep, wet leaves of karstic forests & hills, near streams; assoc. with limestone/dolomite outcrops; Unicoi, Washington, & Blount cos.	S1	G1	--	--
<i>Stygobromus fecundus</i>	A Cave Amphipod Aquatic cave obligate, from rimstone pools; Cades Cove; Great Smoky Mountains National Park.	S1	G1G2	--	--
<i>Stygobromus sparsus</i>	A Cave Obligate Amphipod Aquatic cave obligate, from drip pools; Cades Cove; Great Smoky Mountains National Park.	S1	G4	--	--
<i>Trechus tonitru</i>	A Carabid Beetle Terrestrial; known only from summit of Thunderhead; high elevation; Great Smoky Mountains National Park; Blount County.	S1	GNR	--	--
Nonvascular Plants: 7		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Lophocolea appalachiana</i>	A Liverwort Spray Cliffs	S1	G1G2Q	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Blount County . . . Continued

Known Species: 90

Nonvascular Plants: 7 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Mnium carolinianum</i>	Carolina Mnium Rocks & Streambanks In Humid Gorges	S1	G3	S	--
<i>Porella sp. 1</i>	Hot Porella Wet Calcareous Rock	S1	G1	E	--
<i>Porella wataugensis</i>	Watauga Porella Moist Boulders & Cliffs, Phyllite	S1S2	G1G2Q	T	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Sreams	S2	G3	S	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 41		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Agalinis setacea</i>	Thread-leaved Gerardia Barrens, Dry Sandy Soil	SH	G5?	S	--
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Campanula aparinoides</i>	Marsh Bellflower Bogs	S2	G5	S	--
<i>Cardamine flagellifera</i>	Running Bittercress Mountain Stream Banks	S2	G3	T	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Clematis glaucophylla</i>	White-leaved Leatherflower Wooded Stream Banks	S1	G4?	E	--
<i>Crotalaria purshii</i>	Pursh's Rattlebox Open Piney Woods	SH	G5	E-P	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Desmodium ochroleucum</i>	Creamflower Tick-trefoil Sandy Dry Woods	S1	G1G2	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Blount County . . . Continued

Known Species: 90

Vascular Plants: 41 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Helianthemum bicknellii</i>	Plains Frostweed Dry Ridges	SH	G5	E-P	--
<i>Helianthemum canadense</i>	Canada Frostweed Dry Ridges	SH	G5	E-P	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Isoetes tennesseensis</i>	Hiwassee Quillwort Rocky River Banks	S1	G1	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lycopodium annotinum</i>	Stiff Clubmoss High Elevation Acidic/Mesic Woods	SH	G5	E-P	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pilularia americana</i>	American Pillwort Lake Drawdown Zones	S1S2	G5	S	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Poa saltuensis</i>	Drooping Bluegrass Rich Oak Woods	S1	G5	T	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed Lakes And Streams	S1	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Pycnanthemum torrei</i>	Torrey's Mountain-mint Barrens	S1	G2	S	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Sparganium androcladum</i>	Branching Bur-reed Slow Flowing Streams And Rivers, Ponds	S1	G4G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Blount County . . . Continued

Known Species: 90

Vascular Plants: 41 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Stellaria longifolia</i>	Longleaf Stitchwort Bogs	S1	G5	E	--
<i>Tetragonotheca helianthoides</i>	Pineland Squarehead Dry Open Woods	SH	G5	E-P	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Trifolium reflexum</i>	Buffalo Clover Rocky Open Woods	S1	G3G4	E	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--
<i>Xerophyllum asphodeloides</i>	Eastern Turkeybeard Dry Oak Or Piney Woods	S3	G4	T	--
Vertebrate Animals: 29		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Clinostomus funduloides ssp. 1</i>	Smoky Dace Upland tributaries of Little Tennessee River; east Tennessee.	S1S2	G5T3Q	D	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma percnurum</i>	Duskytail Darter Gently flowing pools near riffles; larger creeks and medium size rivers; Tennessee & Cumberland river drainages.	S1	G2	E	LE,XN
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel Spruce-fir or mature hardwood forest with snags; in tree cavities or leaf nests; higher elevations of the Appalachians.	S1S2	G5T1	E	LE
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Blount County . . . Continued

Known Species: 90

Vertebrate Animals: 29 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma floridana haematoreia</i>	Southern Appalachian Woodrat Forests & talus slopes in southern Appalachians of southeastern Tennessee.	S2	G5T4Q	D	--
<i>Noturus baileyi</i>	Smoky Madtom Clear, cool, rocky riffles, runs, and flowing pools of mountain creeks; lower Little Tennessee River system.	S1	G1	E	LE,XN
<i>Noturus flavipinnis</i>	Yellowfin Madtom Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	S1	G1	E	LT,XN
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Rallus elegans</i>	King Rail Marshes, upland-wetland marsh edges, flooded farmlands, shrub swamps.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Blount County . . . Continued

Known Species: 90

Vertebrate Animals: 29 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sphyrapicus varius

Yellow-bellied Sapsucker

S1B,S4N

G5

D

--

Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

-- End of Blount --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bradley County

Known Species: 35

Invertebrate Animals: 12

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cambarus cymatilis</i>	Conasauga Blue Burrower	S1	G1	E	--
	Primary burrower; seeps & wet grassy areas including homesites; Conasauga R watershed and adjacent portion of Hiwassee R basin.				
<i>Cambarus sp. 2</i>	Cocoa Crayfish	S1S2	GNR	--	--
	Primary burrower; seeps & wet grassy areas incl homesites; Conasauga R watershed and adj Hiwassee R basin; Bradley County. 				
<i>Gomphus consanguis</i>	Cherokee Clubtail	S1	G2G3	--	--
	Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.				
<i>Hamiota altilis</i>	Finelined Pocketbook	S1S2	G2	T	LT
	Creeks/small rivers with substrates of sand, mud, & gravel, & mod current; Conasauga River & Coahulla Ck; Polk & Bradley counties.				
<i>Medionidus acutissimus</i>	Alabama Moccasinshell	S1	G2	T	LT
	Small-large rivers in gravel & cobble shoals in shallow water with mod strong current; Conasauga River; Polk County.				
<i>Medionidus parvulus</i>	Coosa Moccasinshell	S1	G1Q	E	LE
	Highly oxygenated streams & small rivers with moderate to strong flow, in sand and gravel; Conasauga River, Polk County.				
<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail	S1	G3T2T3	--	--
	Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.				
<i>Pleurobema georgianum</i>	Southern Pigtoe	S1	G1	E	LE
	High quality small rivers & large streams; shoals and runs with stable sandy-gravel substrates; Conasauga River; Polk & Bradley cos.				
<i>Pleurobema perovatum</i>	Ovate Clubshell	SH	G1	E	LE
	Sand/gravel shoals and runs of small rivers and large streams with moderate current; Conasauga River; Polk County.				
<i>Ptychobranchus greenii</i>	Triangular Kidneyshell	S1	G1Q	E	LE
	Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.				
<i>Strophitus connasaugaensis</i>	Alabama Creekmussel	S1	G3	--	--
	Small-medium sized rivers, in shallow areas with current and substrates of fine gravel, sand, & silt; Conasauga River; Polk County.				
<i>Villosa vibex</i>	Southern Rainbow	S2	G5Q	--	--
	Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.				

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 10

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aureolaria patula</i>	Spreading False-foxglove	S3	G3	S	--
	Oak Woods And Edges				
<i>Eryngium integrifolium</i>	Blue-flower Coyote-thistle	S1	G5	T	--
	Wet Barrens				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Bradley County . . . Continued

Known Species: 35

Vascular Plants: 10 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lysimachia quadriflora</i>	Four-flowered Loosestrife Spring Runs, Fens	S1	G5?	S	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Rhynchospora caduca</i>	Falling Beaked-rush Marshes, Wet Ground	S1	G5	S	--
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Smilax laurifolia</i>	Laurel-leaf Greenbrier Wet Woods And Swamps	S1	G5	S	--
Vertebrate Animals: 12		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cyprinella caerulea</i>	Blue Shiner Cool, clear, small to medium-sized rivers over firm substrates.	S1	G2	E	LT
<i>Etheostoma brevirostrum</i>	Holiday Darter Bedrock & gravel pools of creeks and small to medium rivers; Conasauga River watershed.	S1	G2	T	--
<i>Etheostoma ditrema</i>	Coldwater Darter Limestone springs and slow spring runs; Conasauga River watershed.	S1	G1G2	T	--
<i>Etheostoma trisella</i>	Trispot Darter Slackwater areas along margins of the Conasauga River & some tributaries; Conasauga River watershed.	S1	G1	T	--
<i>Hybopsis lineapunctata</i>	Lined Chub Small upland creeks with sandy substrates; Conasauga River watershed.	S1	G3G4	D	--
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Macrhybopsis sp. 1</i>	Coosa Chub In swift currents over gravel substrates; Conasauga River.	S1	G3G4	--	--
<i>Noturus munitus</i>	Frecklebelly Madtom In moderate-swift currents of main channel of Conasauga River over a variety of substrates.	S1	G3	T	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Bradley County . . . Continued

Known Species: 35

Vertebrate Animals: 12 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Percina antesella

Amber Darter

S1

G1G2

E

LE

Main channel of Conasauga River in flowing pools & deeper runs with clean substrates of sand, gravel, scattered boulders.

Percina jenkinsi

Conasauga Logperch

S1

G1

E

LE

Deep gravel runs or pools with small stones & sandy bottoms; Conasauga and Jacks rivers; Conasauga River watershed.

Phoxinus tennesseensis

Tennessee Dace

S3

G3

D

--

First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.

-- End of Bradley --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Campbell County

Known Species: 66

Invertebrate Animals: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Athearnia anthonyi</i>	Anthony Riversnail	S1	G1	E	LE,XN
	Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.				
<i>Cambarus deweesae</i>	Valley Flame Crayfish	S1	G4	E	--
	Primary burrower; open areas with high water tables; northern Ridge & Valley.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Gomphus consanguis</i>	Cherokee Clubtail	S1	G2G3	--	--
	Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Nesticus paynei</i>	A Cave Spider	S3	G3G4	--	--
	Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.				
<i>Pseudanophthalmus scutillus</i>	A Cave Obligate Beetle	S1	G1	--	--
	Terrestrial cave obligate; Cumberland Mountains.				
<i>Pseudanophthalmus sidus</i>	Meredith Cave Beetle	S1	G1	--	--
	Terrestrial cave obligate; northern Ridge & Valley.				

Nonvascular Plants: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Bryoxiphium norvegicum</i>	Sword Moss	S1	G5?	T	--
	Sandstone Rockhouses And Shaded Outcroppings				
<i>Drepanolejeunea appalachiana</i>	A Liverwort	S1	G2?	S	--
	Tree Bark, 2000-4500 Ft.				
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus	S1	G3?	E	--
	Calcareous Or Dolomite Bluffs				
<i>Jungermannia fossombronioides</i>		S1	G4	S	--
	Low Elevation Rocky Streams				
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort	S1S2	G1G2	S	--
	Mid Elev. Gorges On Rock Or Bark				
<i>Metzgeria uncigera</i>	Metzgeria	S1	G3	S	--
	Bark Of American Holly				
<i>Palamocladium leskeoides</i>		S1	G3G5	T	--
	Seepy Limestone Cliffs And Bluffs				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
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Vascular Plants: 20

St. Rank

Global Rank

St. Prot.

Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Campbell County . . . Continued

Known Species: 66

Vascular Plants: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Corydalis sempervirens</i>	Pale Corydalis Dry Or Rocky Woods	S1S2	G4G5	E	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Eleocharis intermedia</i>	Matted Spike-rush Wet Areas	S1	G5	E	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Meehanian cordata</i>	Heartleaf Meehanian Wooded Mountain Slopes	S2	G5	T	--
<i>Melanthium woodii</i>	Ozark Bunchflower Rich Wooded Slopes	S1	G5	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Rhamnus alnifolia</i>	Alderleaf Buckthorn Swamps, Low Woods	S1	G5	E	--
<i>Rhynchospora capillacea</i>	Horned Beakrush Limestone Creek Banks	SH	G4	E-P	--
<i>Silphium wasiotense</i>	Kentucky Rosinweed Moist Slopes	S2	G3	E	--
<i>Sullivantia sullivantii</i>	Sullivantia Moist Shaded Cliffs	S1	G4	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Campbell County . . . Continued

Known Species: 66

Vertebrate Animals: 30		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Etheostoma baileyi</i>	Emerald Darter Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	S2	G4G5	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma sagitta</i>	Arrow Darter Smaller streams of northern Cumberland Plateau & Cumberland Mountains; Cumberland River watershed.	S2	G3G4	D	--
<i>Etheostoma susanae</i>	Cumberland Darter Creeks in the upper Cumberland River watershed of the Cumberland Mountains; extremely rare.	S1	G1G2	E	C
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Campbell County . . . Continued

Known Species: 66

Vertebrate Animals: 30 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Notropis albizonatus</i>	Palezone Shiner Large upland creeks and small rivers in quiet waters and flowing pools; possibly extirpated from TN.	SH	G1	E	LE
<i>Notropis buccatus</i>	Silverjaw Minnow Small creeks & large rivers with moderate current & sandy substrates; upper Cumberland River watershed; poss. introd. Stones River.	S1	G5	T	--
<i>Notropis rubellus</i>	Rosyface Shiner Clear, swift, large creeks with bottoms of clean gravel or rubble; tribs to Cumberland River upst Cumberland Falls.	S2	G5	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Phoxinus cumberlandensis</i>	Blackside Dace Small upland tributaries with sand, sandstone, and shale substrates in unsilted conditions; upper Cumberland R. watershed.	S2	G2	T	LT
<i>Plethodon wehrlei</i>	Wehrle's Salamander Sheltered areas in mesic hardwood forests; Cumberland Mountains; Campbell County.	S1	G4	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Vermivora chrysoptera</i>	Golden-winged Warbler Early successional habitats in foothill regions of Appalachians.	S3B	G4	D	--

-- End of Campbell --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cannon County

Known Species: 30

Invertebrate Animals: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cambarus clivosus</i>	Short Mountain Crayfish	S2	G2	--	--
	Occurs in spring- or seep-fed tributaries of Caney Fork & Stones rivers; escarpment of E Highland Rim in Cannon & DeKalb counties.				
<i>Cambarus williami</i>	Brawleys Fork Crayfish	S2	G2	E	--
	East Fork Stones River, its gravel-bottomed tributaries, and karst springs; makes short burrows in cobble; Cannon County.				
<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail	S1	G1Q	--	--
	Medium sized rivers & large creeks in portions of lower Cumb. and Tenn. river systems; Stones River; possibly a form or morph.				
<i>Pseudanophthalmus sp. 36</i>	Millers Cave Beetle	S1?	GNR	--	--
	Terrestrial cave obligate; escarpment to Short Mountain; Cannon County; known from one cave in Collins R watershed.				
<i>Ptomaphagus barri</i>	A Cave Obligate Beetle	S1S2	G2G3	--	--
	Terrestrial cave obligate; Cannon County.				

Vascular Plants: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Allium burdickii</i>	Narrow-leaf Ramps	S1S2	G4G5	T-CE	--
	Rich Woods				
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh	S1	G4G5Q	T	--
	Rich Woods				
<i>Cypripedium acaule</i>	Pink Lady's-slipper	S4	G5	S-CE	--
	Piney Woods				
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry	S3	G5	T	--
	Barrens				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Lilium canadense</i>	Canada Lily	S3	G5	T	--
	Rich Woods And Seeps				
<i>Panax quinquefolius</i>	American Ginseng	S3S4	G3G4	S-CE	--
	Rich Woods				
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus	S3	G3	S	--
	Calcareous Seeps				
<i>Xyris laxifolia var. iridifolia</i>	Wide-leaved Yellow-eyed Grass	S2	G4G5T4T5	T	--
	Pond Margins And Marshes				

Vertebrate Animals: 15

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Aneides aeneus</i>	Green Salamander	S3S4	G3G4	--	--
	Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cannon County . . . Continued

Known Species: 30

Vertebrate Animals: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Etheostoma forbesi</i>	Barrens Darter Headwaters of the Barren Fork & Hickory Creek drainages; Cumberland River watershed.	S1	G1G2	E	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma microlepidum</i>	Smallscale Darter Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	S2	G2G3	D	--
<i>Etheostoma olivaceum</i>	Sooty Darter Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.	S3	G3	D	--
<i>Fundulus julisia</i>	Barrens Topminnow Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	S1	G1	E	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Sorex hoyi</i>	American Pygmy Shrew Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.	S2	G5	--	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Cannon --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carroll County

Known Species: 20

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 11

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Agalinis auriculata

Earleaved False-foxglove
Barrens

S2

G3

E

--

Aristida ramosissima

Branched Three-awn Grass
Roadsides And Dry Openings

SH

G5

E-P

--

Carex gravida

Heavy Sedge
Rocky River Bluffs

S1

G5

S

--

Ceratophyllum echinatum

Prickly Hornwort
Slow Moving Streams

S1

G4?

S

--

Chelone obliqua

Red Turtlehead
Alluvial Swamps, Wet Woods

S1

G4

S

--

Juglans cinerea

Butternut
Rich Woods And Hollows

S3

G4

T

--

Magnolia virginiana

Sweetbay Magnolia
Forested Acidic Wetlands

S2

G5

T

--

Panax quinquefolius

American Ginseng
Rich Woods

S3S4

G3G4

S-CE

--

Polygonum arifolium

Halberd-leaf Tearthumb
Wetlands And Marshes

S1

G5

T

--

Silphium laciniatum

Compass Plant
Barrens

S2

G5

T

--

Symplocos tinctoria

Horse-sugar
Floodplains And Moist Ravines

S2

G5

S

--

Vertebrate Animals: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Etheostoma pyrrhogaster

Firebelly Darter
Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.

S2

G2G3

D

--

Hyla gratiosa

Barking Treefrog
Low wet woods and swamps esp. with ephemeral ponds.

S3

G5

D

--

Nerodia erythrogaster neglecta

Copperbelly Watersnake
Warm, quiet waters; wooded lakes, streams, sloughs; northern middle Tennessee; lower Cumberland & Tennessee river watersheds.

S2S3

G5T3

--

No Status

Noturus gladiator

Piebald Madtom
Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

S3

G3

D

--

Sorex cinereus

Cinereus Shrew
Rich woodlands of many types; open fields; middle and east Tennessee.

S4

G5

D

--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Carroll County . . . Continued

Known Species: 20

Vertebrate Animals: 8 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Sphyrapicus varius

Yellow-bellied Sapsucker

S1B,S4N

G5

D

--

Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Carroll --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County

Known Species: 158

Funguss: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Gymnoderma lineare

Rock Gnome Lichen

S1

G2

S

LE

Mid To High Elev. Cliffs & Rocky Streams

Ecological Systems: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

*Central and Southern
Appalachian Spruce-Fir Forest*

Red Spruce - Fraser Fir Forest

SNR

GNR

--

--

*Southern and Central
Appalachian Bog and Fen*

Southern and Central Appalachian
Bog and Fen

S2

GNR

--

--

*Southern Appalachian Grass and
Shrub Bald*

Southern Appalachian Grass and
Shrub Bald

SNR

GNR

--

--

Ecological Systems: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Diphylleia cymosa - *Saxifraga
micranthidifolia* - *Laportea
canadensis* Herbaceous
Vegetation

Rich Montane Seep (Cove Type)

S2S3

G3

--

--

Tilia americana var. *heterophylla*
- *Fraxinus americana* - (*Ulmus
rubra*) / *Sanguinaria canadensis* -
(*Aquilegia canadensis*, *Asplenium
rhizophyllum*) Forest

Southern Appalachian Cove Forest
(Rich Foothill Type)

S2S3

G2G3

--

--

Invertebrate Animals: 20

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Caecidotea nortoni

A Cave Obligate Isopod

S1S2

G2G3

--

--

Aquatic cave obligate; eastern Ridge & Valley.

Calohypsibius schusteri

Schuster's Tardigrade

S1

GNR

--

--

Beech-maple forests @ high elevations; in mosses on beech trees; Blue Ridge; Carter County.

Discus bryanti

Sawtooth Disc

S1S2

G3

--

--

Leaf litter in rocky upland woods, under rotting logs; northeast Tennessee; Blue Ridge.

Fumonelix wheatleyi

Cinnamon Covert

S3

G4

--

--

Leaf litter, logs, talus in mixed woodlands, coves @ mid-upper elevations of Blue Ridge; Blount, Carter, Cocke, Monroe, & Sevier cos.

Hypsibius roanensis

A Tardigrade

S1

GNR

--

--

Beech-maple forests @ high elevations; in lichen or mosses on beech trees; Roan Mountain; Blue Ridge; Carter County.

Inflectarius subpalliatu

Velvet Covert

S2

G2

--

--

Leaf litter, rotting logs, talus in mixed woodland; may be arboreal; mid to upper elevations of Blue Ridge; Carter & Unicoi counties.

Mesomphix rugeli

Wrinkled Button

S3

G4

--

--

Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.

Microhexura montivaga

Spruce-fir Moss Spider

S1

G1

--

LE

Moss mats in high-elevation spruce-fir forests; Southern Appalachians.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Invertebrate Animals: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Nesticus paynei</i>	A Cave Spider Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.	S3	G3G4	--	--
<i>Paravitrea lamellidens</i>	Lamellate Supercoil Deep, moist leaf litter below boulder slopes, bluffs; boggy seeps; forested hillsides & ravines; central & southern Blue Ridge.	S2	G2	--	--
<i>Paravitrea tridens</i>	White-foot Supercoil Moist leaf litter on wooded hillsides; northeast Tennessee; Ridge & Valley and Blue Ridge.	S2	G2	--	--
<i>Pilsbryna vanattai</i>	Honey Glyph Moist leaf litter in ravines, wooded mountainsides, adj. seeps, springs, small streams; northern Blue Ridge; northeast Tennessee.	S2S3	G2G3	--	--
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Stenotrema altispira</i>	Highland Slitmouth Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central & N Blue Ridge; northeast Tennessee.	S2?	G3	--	--
<i>Striatura exigua</i>	Ribbed Striate Moist leaf litter of forested slopes; Blue Ridge; a northern species that apparently follows the spine of the Appalachians south.	S1	G5	--	--
<i>Trechus roanicus</i>	A Carabid Beetle Terrestrial; known only from the summit of Roan Mountain (Roan High Knob); Cherokee National Forest; Carter County.	S1	GH	--	--
<i>Triodopsis anteridon</i>	Carter Threetooth In leaf litter or on logs on forested slopes and in ravines; Blue Ridge; far northeast Tennessee.	S1S2	G3	--	--
<i>Ventridens coelaxis</i>	Bidentate Dome In leaf litter on mountainsides, often at higher elevations; northernmost Blue Ridge and Ridge & Valley.	S2S3	G3	--	--
<i>Ventridens decussatus</i>	Crossed Dome In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.	S2?	G3	--	--
<i>Vertigo clappi</i>	Cupped Vertigo In leaf litter and moss on forested hillsides; Blue Ridge; Monroe County.	S1	G1G2	--	--
Nonvascular Plants: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anastrophyllum saxicola</i>	A Liverwort High Elev. Rocky Peat; Heath & Wet Rocks	S1	G3G4	S	--
<i>Bazzania nudicaulis</i>	A Liverwort Bark Of Mature Fraser Fir	S2	G2G3	T	--
<i>Plagiochila exigua</i>	A Liverwort Bark Of Mature Fraser Fir And Mountain Ash	S1S2	G4?	S	--
<i>Sphenolobopsis pearsoni</i>	Sphenolobopsis Mainly Bark Of Mature Fraser Fir	S1	G2?	E	--

Vascular Plants: 101		St. Rank	Global Rank	St. Prot.	Fed. Prot.
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Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Abies fraseri</i>	Fraser Fir Forests Above 5500 Ft	S1S2	G2	T	--
<i>Aconitum reclinatum</i>	Trailing Wolfsbane Rich Mountain Woods	S1	G3	E	--
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Agastache scrophulariifolia</i>	Purple Giant Hyssop Rich Mountain Woods	S1S2	G4	T	--
<i>Agrostis mertensii</i>	Arctic Bentgrass Mountain Balds And Moist Ravines	SH	G5	S	--
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Alnus viridis ssp. crispa</i>	Green Alder Mountain Balds And Thickets	S1	G5T5	S	--
<i>Athyrium filix-femina ssp. angustum</i>	Northern Lady Fern Mountain Woods And Openings	S2	G5T5	S	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Botrychium simplex</i>	Least Grape-fern High Elevation Mesic Forests	S1	G5	S	--
<i>Brachyelytrum erectum var. septentrionale</i>	Northern Shorthusk Moist High Elev. Forests	S2	G4G5	S	--
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--
<i>Caltha palustris</i>	Marsh Marigold Bogs	S1	G5	E	--
<i>Campanula aparinoides</i>	Marsh Bellflower Bogs	S2	G5	S	--
<i>Cardamine clematitis</i>	Mountain Bittercress High Elevation Seeps	S2	G3	T	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Carex bromoides ssp. montana</i>	Blue Ridge Brome Sedge Mountain Bogs & Seeps	S1	G5T3?	T	--
<i>Carex echinata ssp. echinata</i>	Little Prickly Sedge Swamps And Bogs	S1?	G5T5	S	--
<i>Carex hitchcockiana</i>	Hitchcock's Sedge Rich Moist Woods	S1	G5	T	--
<i>Carex manhartii</i>	Manhart's Sedge Mountain Slopes And Stream Banks	S2	G3G4	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex misera</i>	Wretched Sedge Mountain Ledges And Balds	S2	G3	T	--
<i>Carex roanensis</i>	Roan Mountain Sedge Mid-Elevation Woodlands	S2	G3	E	--
<i>Carex ruthii</i>	Ruth's Sedge Mountain Forests And Wet Areas	S2	G3	T	--
<i>Carex x aestivaliformis</i>	A Hybrid Sedge Wet Woods & Meadows	S1	GNA	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--
<i>Clintonia borealis</i>	Clinton's Lily High Elevation Mesic Forests	S2S3	G5	S	--
<i>Coeloglossum viride var. virescens</i>	Long-bracted Green Orchis Wet Woods And Seeps	S1	G5T5	E	--
<i>Corallorhiza maculata</i>	Spotted Coralroot Shady, Moist Woods	S1	G5	T	--
<i>Coreopsis latifolia</i>	Broad-leaved Tickseed Streamheads	S1S2	G3	E	--
<i>Corydalis sempervirens</i>	Pale Corydalis Dry Or Rocky Woods	S1S2	G4G5	E	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Didiplis diandra</i>	Water-purslane Swamps	S1	G5	T	--
<i>Drosera rotundifolia</i>	Roundleaf Sundew Bogs & Seeps	S1	G5	T	--
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern Bogs	S1	G5	T	--
<i>Dryopteris cristata</i>	Crested Shield-fern Bogs	S2	G5	T	--
<i>Epilobium angustifolium</i>	Fireweed High Elevation Disturbed Woods	S1	G5	T	--
<i>Epilobium ciliatum</i>	Hairy Willow-herb Mountain Balds	S1	G5	T	--
<i>Epilobium leptophyllum</i>	Linear-leaved Willow-herb Mountain Bogs And Marshes	S1	G5	T	--
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Geum geniculatum</i>	Bent Avens Northern Hardwood Forests And Mountain Balds	S1	G1G2	E	--
<i>Geum laciniatum</i>	Rough Avens Lake Margins	S1	G5	S	--
<i>Geum radiatum</i>	Spreading Avens High Elevation Outcrops And Balds	S1	G2	E	LE
<i>Goodyera repens</i>	Dwarf Rattlesnake-plantain Moist Conifer/Rhododendron Woods	S1	G5	S	--
<i>Hedyotis purpurea</i> var. <i>montana</i>	Roan Mountain Bluet High Elevation Outcrops & Gravel Talus	S1	G5T2	E	LE
<i>Helianthus glaucophyllus</i>	White-leaved Sunflower Dry Open Woods	S1	G3	T	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Hieracium scabrum</i>	Rough Hawkweed Dry Open Woods And Pastures	S2	G5	T	--
<i>Huperzia appalachiana</i>	Appalachian Fir Clubmoss Spruce-Fir Forest	S1	G4G5	T	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hypericum ellipticum</i>	Pale St. John's-wort Bogs	S1	G5	E	--
<i>Hypericum graveolens</i>	Mountain St. John's-wort Boggy Woods And River Banks	S3	G3	E	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Isotria medeoloides</i>	Small Whorled Pogonia Mid-Elevation Dry Woods	S1	G2	E	LT
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium grayi</i>	Gray's Lily Balds And High Elevation Seeps	S1	G3	E	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lonicera canadensis</i>	American Fly-honeysuckle Mountain Woods And Streams	S1	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Meehania cordata</i>	Heartleaf Meehania Wooded Mountain Slopes	S2	G5	T	--
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Minuartia godfreyi</i>	Godfrey's Stitchwort Wet Meadows And Marshes	S1	G1	E	--
<i>Minuartia groenlandica</i>	Mountain Sandwort Dry, High Elevation Outcrops	S1	G5	E	--
<i>Packera schweinitziana</i>	Schweinitz's ragwort High Elevation Balds	S1	G5?	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid Wet Meadows And Open Woods	S2	G5	E	--
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--
<i>Poa palustris</i>	Fowl Bluegrass Wet Balds	S1	G5	E	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potentilla tridentata</i>	Three-toothed Cinquefoil High Elevation Openings	S1S2	G5	S	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Pycnanthemum beadlei</i>	Beadle's Mountain Mint Mountain Woods	S1S2	G2G4	E	--
<i>Pyrola americana</i>	American Wintergreen Moist Woods And Bogs	S2	G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sanguisorba canadensis</i>	Canada Burnet Bogs, Seeps, And Wet Meadows	S1	G5	E	--
<i>Saxifraga caroliniana</i>	Carolina Saxifrage Seepage Slopes And Wet Cliffs	S1S2	G3	E	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Silene caroliniana ssp. pennsylvanica</i>	Carolina Pink Rocky Bluffs	S1S2	G5T4T5	T	--
<i>Solidago spithamea</i>	Blue Ridge Goldenrod High Elevation Outcrops	S1	G1	E	LT
<i>Sparganium androcladum</i>	Branching Bur-reed Slow Flowing Streams And Rivers, Ponds	S1	G4G5	E	--
<i>Spiraea alba</i>	Narrow-leaved Meadow-sweet Bogs	S1	G5	E	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Stellaria alsine</i>	Trailing Stitchwort Bogs And Wet Areas	S1	G5	E	--
<i>Stellaria longifolia</i>	Longleaf Stitchwort Bogs	S1	G5	E	--
<i>Streptopus amplexifolius</i>	White Mandarin Wet Cliffs And Mountain Woods	S1	G5	T	--
<i>Streptopus roseus</i>	Rosy Twisted-stalk Rich, Moist Mountain Woods	S2	G5	S	--
<i>Symplocarpus foetidus</i>	Skunk-cabbage Swamps And Bogs	S1	G5	E	--
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trichophorum cespitosum</i>	Tufted Club-rush Mountain Bogs	S1	G5	E	--
<i>Trientalis borealis</i>	Northern Starflower Mountain Hardwood Forests	S1	G5	T	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Tsuga caroliniana</i>	Carolina Hemlock Dry Ridges	S3	G3	T	--
<i>Veronica americana</i>	American Speedwell Marshes And Bogs	S1	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vascular Plants: 101 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Woodsia scopulina ssp. appalachiana</i>	Alleghany Cliff-fern Mountain Cliffs	S1S2	G4T4	S	--
Vertebrate Animals: 27		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aegolius acadicus</i>	Northern Saw-whet Owl High-elevation spruce-fir forests; Blue Ridge Mountains.	S1	G5	T	--
<i>Condylura cristata</i>	Star-nosed Mole Hydric soils in beech-maple-birch forests at higher elevations in the Appalachians.	S2	G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Desmognathus wrighti</i>	Pygmy Salamander Mature hardwoods & spruce-fir forests under moss, leaf litter, logs, bark, and rocks; high elevations; Blue Ridge.	S2S3	G3G4	D	--
<i>Empidonax alnorum</i>	Alder Flycatcher Alder thickets adj. balds, forest edge, boggy meadows; higher elevations of Southern Blue Ridge.	S1	G5	--	--
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel Spruce-fir or mature hardwood forest with snags; in tree cavities or leaf nests; higher elevations of the Appalachians.	S1S2	G5T1	E	LE
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Carter County . . . Continued

Known Species: 158

Vertebrate Animals: 27 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Plethodon welleri</i>	Weller's Salamander Rich woods under downed logs, rocks, leaf litter; spruce-fir, birch-hemlock, and primarily deciduous forests of NE Blue Ridge.	S2	G3	D	--
<i>Poocetes gramineus</i>	Vesper Sparrow Balds, old pastures; ground nester.	S1B,S4N	G5	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Vermivora chrysoptera</i>	Golden-winged Warbler Early successional habitats in foothill regions of Appalachians.	S3B	G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Carter --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cheatham County

Known Species: 27

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lithasia geniculata fuliginosa

Geniculate River Snail

S2

G3T3Q

--

--

Medium-sized river form of *L. geniculata*; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.

Vascular Plants: 16

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Amsonia tabernaemontana var.
gattingeri

Limestone Blue Star

S3

G5T3Q

S

--

Glades, Barrens, And Rocky River Bars

Apios priceana

Price's Potato-bean

S2

G2

E

LT

Openings In Rich Woods

Carex davisii

Davis' Sedge

S1

G4

S

--

Bottomlands, Riparian Soils

Carex gravida

Heavy Sedge

S1

G5

S

--

Rocky River Bluffs

Carex oxylepis var. *pubescens*

Hairy Sharp-scaled Sedge

S1

G5?T3

S

--

Wooded Bluffs, Floodplains

Diervilla lonicera

Northern Bush-honeysuckle

S2

G5

T

--

Rocky Woodlands And Bluffs

Hasteola suaveolens

Sweet-scented Indian-plantain

S2

G4

T

--

Alluvial Woods, Moist Slopes

Helianthus eggertii

Eggert's Sunflower

S3

G3

S

DM

Barrens And Roadsides

Juglans cinerea

Butternut

S3

G4

T

--

Rich Woods And Hollows

Juncus brachycephalus

Small-headed Rush

S2

G5

S

--

Seeps And Wet Bluffs

Lesquerella densipila

Duck River Bladderpod

S3

G3

T

--

Cultivated Fields

Lesquerella globosa

Short's Bladderpod

S2

G2

E

C

Limestone Talus Slopes And Cliffs

Lilium canadense

Canada Lily

S3

G5

T

--

Rich Woods And Seeps

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Parnassia grandifolia

Large-leaved Grass-of-parnassus

S3

G3

S

--

Calcareous Seeps

Stellaria fontinalis

Water Stitchwort

S3

G3

T

--

Seeps And Limestone Creek Beds

Vertebrate Animals: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Cheatham County . . . Continued

Known Species: 27

Vertebrate Animals: 10 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma microlepidum</i>	Smallscale Darter Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	S2	G2G3	D	--
<i>Etheostoma tippecanoe</i>	Tippecanoe Darter Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.	S1S2	G3G4	D	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Cheatham --



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Chester County

Known Species: 5

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Fallicambarus horton

Hatchie Burrowing Crayfish

S1

G1

E

--

Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.

Vascular Plants: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Helianthus verticillatus

Whorled Sunflower

S1

G1Q

E

C

Edge Of Creeks And Fields

Vertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Chondestes grammacus

Lark Sparrow

S1B

G5

T

--

Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.

Etheostoma pyrrhogaster

Firebelly Darter

S2

G2G3

D

--

Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.

Hyla gratiosa

Barking Treefrog

S3

G5

D

--

Low wet woods and swamps esp. with ephemeral ponds.

-- End of Chester --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Claiborne County

Known Species: 80

Invertebrate Animals: 30

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Bactrurus angulus</i>	Cumberland Gap Cave Amphipod Aquatic cave obligate; Cumberland Gap area.	S1	G1	--	--
<i>Cumberlandia monodonta</i>	Spectaclecase Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.	S2S3	G3	--	C
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Epioblasma brevidens</i>	Cumberlandian Combshell Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma capsaeformis</i>	Oyster Mussel Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma triquetra</i>	Snuffbox Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.	S3	G3	--	--
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Hemistena lata</i>	Cracking Pearlymussel Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.	S1	G1	E	LE
<i>Io fluvialis</i>	Spiny Riversnail Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	S2	G2	--	--
<i>Kleptochthonius affinis</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Ridge & Valley.	S1S2	G1G2	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Lemiox rimosus</i>	Birdwing Pearlymussel Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.	S1	G1	E	LE
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Plethobasus cicatricosus</i>	White Wartyback Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.	S1	G1	E	LE
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.	S1	G1	E	LE
<i>Plethobasus cyphus</i>	Sheepnose Large to medium-sized rivers, in riffles and coarse sand/gravel subst; TN & Cumb river systems incl KY Reservoir; W Uplands & Rim.	S2S3	G3	--	C



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Claiborne County . . . Continued

Known Species: 80

Invertebrate Animals: 30 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pseudanophthalmus engelhardti</i>	Engelhart's Cave Beetle Terrestrial cave obligate; northern Ridge & Valley.	S1	G1	--	--
<i>Pseudanophthalmus pallidus</i>	Pale Cave Beetle Terrestrial cave obligate; northern Ridge & Valley.	S1S2	G1G2	--	--
<i>Pseudanophthalmus rotundatus</i>	A Ground Beetle Terrestrial cave obligate; northern Ridge & Valley.	S2	G2G3	--	--
<i>Pseudotremia nodosa</i>	A Millipede Terrestrial cave obligate; lower Powell River drainage; upper Ridge & Valley; Claiborne, Hancock, & Union counties.	S2S3	G4	--	--
<i>Pseudotremia valga</i>	A Millipede Terrestrial cave obligate; northernmost Ridge & Valley; Claiborne County.	S1?	G1G2	--	--
<i>Ptychobranhus subtentum</i>	Fluted Kidneyshell Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	S2	G2	--	C
<i>Quadrula cylindrica strigillata</i>	Rough Rabbitsfoot Small-medium sized rivers, in clear, shallow riffles with sand-gravel substrates; Tenn. & Cumb. river systems; upland form.	S2	G3G4T2	E	LE
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Quadrula sparsa</i>	Appalachian Monkeyface Headwater sections of rivers in shallow riffles/runs with sand-gravel substrate & moderate current; upper Tennessee River drainage.	S1	G1	E	LE
<i>Sphalloplana consimilis</i>	Powell Valley Planarian Aquatic cave obligate; Powell River Valley; N Ridge & Valley; Claiborne County.	S1	G2G3	--	--
<i>Stygobromus finleyi</i>	Finley's Cave Amphipod Aquatic cave obligate, from shallow pools; northern Ridge & Valley; Claiborne County.	S1	G3G4	--	--
<i>Triodopsis claibornensis</i>	Claiborne Threetooth In leaf litter of rocky karst woods and on roadsides, NW Ridge & Valley; Claiborne & Campbell counties.	S2	G2	--	--
Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus Calcareous Or Dolomite Bluffs	S1	G3?	E	--
Vascular Plants: 25		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Claiborne County . . . Continued

Known Species: 80

Vascular Plants: 25 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Calamagrostis porteri</i>	Porter's Reedgrass Rich Mountain Woods	S1	G4	E	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Chrysogonum virginianum</i>	Green-and-gold Dry Woods And Openings	S2	G5	T	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Cypripedium reginae</i>	Showy Lady's-slipper Calcareous Rocky Slopes	S1	G4	E	--
<i>Eleocharis intermedia</i>	Matted Spike-rush Wet Areas	S1	G5	E	--
<i>Heuchera longiflora</i> var. <i>aceroides</i>	Maple-leaf Alumroot Moist Ravines	S2	G4T2Q	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Meehania cordata</i>	Heartleaf Meehania Wooded Mountain Slopes	S2	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Rhamnus alnifolia</i>	Alderleaf Buckthorn Swamps, Low Woods	S1	G5	E	--
<i>Ruellia purshiana</i>	Pursh's Wild-petunia Dry Woods	S1S2	G3	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Claiborne County . . . Continued

Known Species: 80

Vascular Plants: 25 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
Vertebrate Animals: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aegolius acadicus</i>	Northern Saw-whet Owl High-elevation spruce-fir forests; Blue Ridge Mountains.	S1	G5	T	--
<i>Ammocrypta clara</i>	Western Sand Darter Usually in slight to moderate current over sandy bottom; Clinch & Powell rivers.	S1	G3	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Erimystax cahni</i>	Slender Chub Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.	S1	G1	T	LT
<i>Etheostoma baileyi</i>	Emerald Darter Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	S2	G4G5	D	--
<i>Etheostoma sagitta</i>	Arrow Darter Smaller streams of northern Cumberland Plateau & Cumberland Mountains; Cumberland River watershed.	S2	G3G4	D	--
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Notropis buccatus</i>	Silverjaw Minnow Small creeks & large rivers with moderate current & sandy substrates; upper Cumberland River watershed; poss. introd. Stones River.	S1	G5	T	--
<i>Notropis rubellus</i>	Rosyface Shiner Clear, swift, large creeks with bottoms of clean gravel or rubble; tribs to Cumberland River upst Cumberland Falls.	S2	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Claiborne County . . . Continued

Known Species: 80

Vertebrate Animals: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Noturus flavipinnis</i>	Yellowfin Madtom Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	S1	G1	E	LT,XN
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Phoxinus cumberlandensis</i>	Blackside Dace Small upland tributaries with sand, sandstone, and shale substrates in unsilted conditions; upper Cumberland R. watershed.	S2	G2	T	LT
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Claiborne --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Clay County

Known Species: 27

Invertebrate Animals: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Barbicambarus cornutus</i>	Bottle Brush Crayfish	S2	G4	--	--
	Under slabrock in medium-large tributaries of Barren River watershed; Sumner, Macon, Clay counties.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Lithasia armigera</i>	Armored Rocksnail	S1S2	G3G4	--	--
	Partially buried logs, gravel, and preferably submerged rock outcrops; lower Cumberland River & larger tributaries; Obey River. 				
<i>Pseudanophthalmus fowlerae</i>	Fowler's Cave Beetle	S1	G1	--	C
	Terrestrial cave obligate; eastern Highland Rim.				
<i>Pseudanophthalmus inquisitor</i>	Inquirer Cave Beetle	S1	G1	--	C
	Terrestrial cave obligate; Eastern Highland Rim escarpment.				
<i>Stygobromus nortoni</i>	Norton's Cave Amphipod	SH	G2G3	--	--
	Aquatic cave obligate, from pools; Eastern Highland Rim and Ridge & Valley.				
<i>Villosa trabalis</i>	Cumberland Bean	S1	G1	E	LE
	Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.				

Vascular Plants: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Carex gravida</i>	Heavy Sedge	S1	G5	S	--
	Rocky River Bluffs				
<i>Carex ouachitana</i>	Ouachita Sedge	S1	G4	S	--
	Rocky Woods				
<i>Collinsia verna</i>	Spring Blue-eyed Mary	S1	G5	E	--
	Rich Wet-Mesic Woods				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Melanthium woodii</i>	Ozark Bunchflower	S1	G5	E	--
	Rich Wooded Slopes				
<i>Prenanthes crepidinea</i>	Nodding Rattlesnake-root	S2	G4	E	--
	Rich Bottomlands				

Vertebrate Animals: 12

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Aneides aeneus</i>	Green Salamander	S3S4	G3G4	--	--
	Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Clay County . . . Continued

Known Species: 27

Vertebrate Animals: 12 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Crystallaria asprella</i>	Crystal Darter Small to medium rivers with expanses of clean sand and gravel; Cumberland River watershed.	SX	G3	D	--
<i>Etheostoma barbouri</i>	Teardrop Darter Sandy pools in small to medium streams with slabrock cover; Barren River watershed.	S2	G4G5	D	--
<i>Etheostoma barrenense</i>	Splendid Darter Locally abundant in rocky pools and adjacent riffles of small to moderate streams; Barren River watershed.	S3	G4	D	--
<i>Etheostoma bellum</i>	Orangefin Darter Locally abundant in small to medium-sized clear streams over gravel substrate; Barren River watershed.	S3	G4G5	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Moxostoma atripinne</i>	Blackfin Sucker Larger creeks with quiet or gently flowing pools with scattered slabrocks & undercut banks; Barren River watershed.	S1	G2	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Notropis rubellus</i>	Rosyface Shiner Clear, swift, large creeks with bottoms of clean gravel or rubble; tribs to Cumberland River upst Cumberland Falls.	S2	G5	D	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--

-- End of Clay --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cocke County

Known Species: 55

Invertebrate Animals: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Anguispira jessica</i>	Mountain Disc	S3	G3G4	--	--
	Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood; Roan Mountain & Mt. Le Conte.				
<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Fumonelix wheatleyi</i>	Cinnamon Covert	S3	G4	--	--
	Leaf litter, logs, talus in mixed woodlands, coves @ mid-upper elevations of Blue Ridge; Blount, Carter, Cocke, Monroe, & Sevier cos.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Mesomphix rugeli</i>	Wrinkled Button	S3	G4	--	--
	Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.				
<i>Speyeria diana</i>	Diana Fritillary	S3	G3G4	--	--
	Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.				
<i>Ventridens decussatus</i>	Crossed Dome	S2?	G3	--	--
	In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.				

Nonvascular Plants: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Grimmia olneyi</i>	Grimmia Moss	SH	G3G5	S	--
	High Elev. Dry Rocks And Cliffs				
<i>Megaceros aenigmaticus</i>	Megaceros	S2S3	G2G3	S	--
	Mid-Elev. Streams On Wet Shaded Rocks				

Vascular Plants: 26

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Acer leucoderme</i>	Chalk Maple	S3	G5	S	--
	Circumneutral Rocky Woods				
<i>Adlumia fungosa</i>	Climbing Fumitory	S2	G4	T	--
	Rich Mesic Woods				
<i>Buckleya distichophylla</i>	Piratebush	S2	G2	T	--
	Rocky Mountain Woods W/ Hemlock				
<i>Carex ruthii</i>	Ruth's Sedge	S2	G3	T	--
	Mountain Forests And Wet Areas				
<i>Clintonia borealis</i>	Clinton's Lily	S2S3	G5	S	--
	High Elevation Mesic Forests				
<i>Corallorhiza maculata</i>	Spotted Coralroot	S1	G5	T	--
	Shady, Moist Woods				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cocke County . . . Continued

Known Species: 55

Vascular Plants: 26 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Heuchera longiflora</i> var. <i>aceroides</i>	Maple-leaf Alumroot Moist Ravines	S2	G4T2Q	S	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Leucothoe racemosa</i>	Fetter-bush Acidic Wetlands And Swamps	S2	G5	T	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Rugelia nudicaulis</i>	Rugel's Ragwort High Elevation Open Woods	S2	G3	E	--
<i>Saxifraga caroliniana</i>	Carolina Saxifrage Seepage Slopes And Wet Cliffs	S1S2	G3	E	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Solidago lancifolia</i>	Broadleaf Goldenrod Mountain Woods	S1	G3G4Q	E	--
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Stellaria alsine</i>	Trailing Stitchwort Bogs And Wet Areas	S1	G5	E	--
<i>Thaspium pinnatifidum</i>	Cutleaf Meadow-parsnip Calcareous Forests And Woodlands	S1	G2G3	E	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cocke County . . . Continued

Known Species: 55

Vertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchius alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Etheostoma acuticeps</i>	Sharphead Darter Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	S2S3	G3	--	--
<i>Etheostoma gitselli</i>	Tuckasegee Darter Swift riffle areas with coarse rubble; Little Tennessee & Pigeon rivers.	S1	G4	E	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole Mossy rocks and logs, and cool, moist talus slopes at higher elevations of the Appalachians.	S2	G4T3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma floridana haematoreia</i>	Southern Appalachian Woodrat Forests & talus slopes in southern Appalachians of southeastern Tennessee.	S2	G5T4Q	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Poocetes gramineus</i>	Vesper Sparrow Balds, old pastures; ground nester.	S1B,S4N	G5	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Cocke County . . . Continued Known Species: 55

Vertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Cocke --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Coffee County

Known Species: 130

Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Central Interior Highlands and Appalachian Sinkhole and Depression Pond</i>	Highland Rim Sinkhole and Depression Pond	S2S3	GNR	--	--
<i>Eastern Highland Rim Prairie and Barrens</i>	Eastern Highland Rim Prairie and Barrens	SNR	GNR	--	--
Ecological Systems: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Panicum hemitomom - Dulichium arundinaceum Herbaceous Vegetation</i>	Highland Rim Maidencane Pond	S1	G1	--	--
<i>Quercus (falcata, stellata) / Quercus marilandica / Gaylussacia (baccata, dumosa) Woodland</i>	Highland Rim Blackjack Oak Barrens	S2S3	G2G3	--	--
<i>Quercus phellos - Quercus alba / Vaccinium fuscatum - (Viburnum nudum) / Carex (barrattii, intumescens) Forest</i>	Barrens Depression Willow Oak Forest	SNR	G2	--	--
<i>Quercus stellata - (Quercus coccinea) / Quercus marilandica / Vaccinium pallidum - (Vaccinium stamineum) Woodland</i>	Highland Rim Post Oak - Blackjack Oak Woodland	S2	G2G3	--	--
Invertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carychium stygium</i>	Cave Thorn Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.	S2	G3	--	--
<i>Daedalochila auriformis</i>	Rockpile Liptooth Wet, grassy habitats, generally in full sun; barrens & remnant prairies; Coffee & Warren counties; disjunct from central Alabama.	S1	G4	--	--
<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail Medium sized rivers & large creeks in portions of lower Cumb. and Tenn. river systems; Stones River; possibly a form or morph.	S1	G1Q	--	--
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Lithasia geniculata pinguis</i>	Small Geniculate River Snail Headwater form of L. geniculata, in small rivers and large streams, on gravel substrates; upper Duck & Caney Fork systems.	S2	G3T3Q	--	--
<i>Lithasia lima</i>	Warty Rocksnail Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).	S2	G2Q	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Coffee County ... Continued

Known Species: 130

Invertebrate Animals: 15 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Litocampa valentinei</i>	A Cave Obligate Bristletail Terrestrial cave obligate, southern Cumberlands.	S2	G5	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Phalangodes appalachius</i>	A Cave Obligate Harvestman Terrestrial cave obligate; Cumberland Plateau.	S3	G3G4	--	--
<i>Pleurobema gibberum</i>	Cumberland Pigtoe Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.	S1	G1	E	LE
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pseudanophthalmus tullahoma</i>	Duck River Cave Beetle Terrestrial cave obligate; Central Basin; Duck River drainage.	S1	G1G2	--	--
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
Nonvascular Plants: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Frullania obcordata</i>	Swamp Frullania Swamps, On Tree Bark	S1	G4G5	S	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Pellia appalachiana</i>	 Wet Soil, Barrens	S2	G4	S	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Sreams	S2	G3	S	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 79		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Agalinis oligophylla</i>	Ridge-stem False-foxglove Barrens	S1	G4	E	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Campanula aparinoides</i>	Marsh Bellflower Bogs	S2	G5	S	--
<i>Carex barrattii</i>	Barratt's Sedge Wet Woods And Oak Barrens	S2	G4	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vascular Plants: 79 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex buxbaumii</i>	Brown Bog Sedge Swamps	S1	G5	T	--
<i>Carex hirtifolia</i>	Pubescent Sedge Lowland Forests	S1S2	G5	S	--
<i>Carex pellita</i>	Woolly Sedge Alluvial Forests And Upland Pastures	S1	G5	E	--
<i>Clematis glaucophylla</i>	White-leaved Leatherflower Wooded Stream Banks	S1	G4?	E	--
<i>Clethra alnifolia</i>	Coastal Sweet Pepper-bush Acidic Wetlands And Swamps	S1	G5	E	--
<i>Cotinus obovatus</i>	American Smoketree Dry, Circumneutral Soil	S2	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Dichanthelium aciculare</i>	Needleleaf Witchgrass Sandy Pine Woods And Barrens	S1	G5	E	--
<i>Dichanthelium acuminatum ssp. leucothrix</i>	Roughish Witchgrass Moist Pine Barrens	S1	G4?Q	S	--
<i>Dichanthelium acuminatum ssp. spretum</i>	Eaton's Witchgrass Sandy Peaty Pine Barrens	S1	G5	E	--
<i>Dichanthelium ensifolium ssp. ensifolium</i>	Small-leaved Panicgrass Moist Pine Barrens	S2	GNR	S	--
<i>Drosera brevifolia</i>	Dwarf Sundew Wet Barrens And Ecotones	S2	G5	T	--
<i>Echinacea pallida</i>	Pale-purple Coneflower Barrens And Dry Openings	S1	G4	T	--
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--
<i>Eryngium integrifolium</i>	Blue-flower Coyote-thistle Wet Barrens	S1	G5	T	--
<i>Eupatorium leucolepis</i>	White-bracted Thoroughwort Wet Barrens	S1	G5	E	--
<i>Festuca paradoxa</i>	Cluster Fescue Wet Woods And Prairies	S1	G5	S	--
<i>Fimbristylis puberula</i>	Hairy Fimbristylis Wet Prairies And Woods	S1S2	G5	T	--
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry Barrens	S3	G5	T	--
<i>Gentiana puberulenta</i>	Downy Gentian Barrens	S1	G4G5	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vascular Plants: 79 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Gymnopogon brevifolius</i>	Broad-leaved Beardgrass Barrens	S1S2	G5	S	--
<i>Helianthemum propinquum</i>	Low Frostweed Barrens	S1S2	G4	E	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hypericum adpressum</i>	Creeping St. John's-wort Edges Of Ponds And Lakes	S1	G3	E	--
<i>Iris prismatica</i>	Slender Blue Flag Wet Barrens	S2S3	G4G5	T	--
<i>Isoetes melanopoda</i>	Blackfoot Quillwort Wet Fields	S1S2	G5	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lachnanthes caroliana</i>	Carolina Redroot Acidic Wetlands And Barrens	S1	G4	E	--
<i>Lathyrus palustris</i>	Marsh Pea Wet Woods & Marshes	S1	G5	S	--
<i>Lechea pulchella</i>	Leggett's Pinweed Barrens	S1	G5	E	--
<i>Lespedeza angustifolia</i>	Narrowleaf Bushclover Barrens	S2	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Listera australis</i>	Southern Twayblade Wet-Mesic Woods	S1S2	G4	E	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Ludwigia sphaerocarpa</i>	Globe-fruited False-loosestrife Swamps And Shallow Pools	S1	G5	T	--
<i>Lycopodiella alopecuroides</i>	Foxtail Clubmoss Wet Acidic Barrens	S2	G5	T	--
<i>Lysimachia terrestris</i>	Swamp Loosestrife Wet Prairies And Swamps	S1	G5	E	--
<i>Marshallia trinervia</i>	Broad-leaved Barbara's-buttons Rocky Ravines	S2S3	G3	T	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vascular Plants: 79 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Muhlenbergia torreyana</i>	Torrey's Dropseed Oak Barren Bogs	S1	G3	E	--
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil Acidic Wetland And Ponds	S1	G5	T	--
<i>Nestronia umbellula</i>	Nestronia Upland Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Panicum hemitomom</i>	Maidencane Ponds In Barrens	S2	G5?	S	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera integra</i>	Yellow Fringeless Orchid Wet Barrens	S1	G3G4	E	--
<i>Platanthera nivea</i>	Snowy Orchid Wet Barrens	S1	G5	E	--
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Polygala nuttallii</i>	Nuttall's Milkwort Prairies	S1	G5	E	--
<i>Prenanthes aspera</i>	Rough Rattlesnake-root Barrens And Roadsides	S1	G4?	E	--
<i>Prunus pumila</i>	Sand Cherry Barrens	S1	G5	E	--
<i>Rhynchospora caduca</i>	Falling Beaked-rush Marshes, Wet Ground	S1	G5	S	--
<i>Rhynchospora chalarocephala</i>	Loose-headed Beakrush Wet Barrens	S1	G5	T	--
<i>Rhynchospora perplexa</i>	Obscure Beak-rush Marshes, Wet Barrens	S2	G5	T	--
<i>Sagittaria graminea</i>	Grassleaf Arrowhead Ponds And Stream Margins	S1	G5	T	--
<i>Scleria verticillata</i>	Low Nutrush Wet Prairies And Fens	S2	G5	S	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vascular Plants: 79 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Solidago stricta</i> var. <i>gracillima</i>	Virginia goldenrod Wet Barrens And Fields	S1	G4?	S	--
<i>Symphytotrichum pratense</i>	Barrens Silky Aster Barrens	S1	G4?	E	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Triantha racemosa</i>	Coastal False-asphodel Wet Barrens	S1	G5	E	--
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
<i>Utricularia cornuta</i>	Horned Bladderwort Wet Prairies, Pond Margins	S1	G5	E	--
<i>Utricularia subulata</i>	Zigzag Bladderwort Wet Barrens, Ecotones	S1	G5	T	--
<i>Vaccinium elliotii</i>	Mayberry Open Flat Woods And Dry Slopes	S1	G5	E	--
<i>Vaccinium macrocarpon</i>	Cranberry Bogs	S2	G4	T	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--
<i>Xyris fimbriata</i>	Fringed Yellow-eyed Grass Acidic Ponds	S1	G5	E	--
<i>Xyris laxifolia</i> var. <i>iridifolia</i>	Wide-leaved Yellow-eyed Grass Pond Margins And Marshes	S2	G4G5T4T5	T	--
<i>Zigadenus leimanthoides</i>	Death-camas Acidic Wetlands	S2	G4Q	T	--

Vertebrate Animals: 25		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammodramus henslowii</i>	Henslow's Sparrow Damp open fields and meadows with grass interspersed with weeds or shrubs.	S1B	G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vertebrate Animals: 25 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Etheostoma forbesi</i>	Barrens Darter Headwaters of the Barren Fork & Hickory Creek drainages; Cumberland River watershed.	S1	G1G2	E	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Fundulus julisia</i>	Barrens Topminnow Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	S1	G1	E	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Rana capito</i>	Carolina Gopher Frog Seasonally flooded ponds in the Barrens of Coffee County.	S1	G3	--	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Coffee County . . . Continued

Known Species: 130

Vertebrate Animals: 25 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Coffee --

Crockett County

Known Species: 3

Vascular Plants: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Carex reniformis

Reniform Sedge

S1

G4?

S

--

Rich Bottomland Woods

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Vertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Limnothlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

-- End of Crockett --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cumberland County

Known Species: 66

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer rubrum</i> var. <i>trilobum</i> - <i>Nyssa sylvatica</i> / <i>Osmunda</i> <i>cinnamomea</i> - <i>Chasmanthium</i> <i>laxum</i> - <i>Carex intumescens</i> / <i>Sphagnum lescurii</i> Forest	Cumberland Forested Acidic Seep	S2S3	G3?	--	--
Invertebrate Animals: 11		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Caecidotea circulus</i>	A Cave Obligate Isopod Aquatic cave obligate; Cumberland Plateau.	S1	G1G2	--	--
<i>Caecidotea scyphus</i>	A Cave Obligate Isopod Aquatic cave obligate; Grassy Cove; Cumberland County.	S1	G1G2	--	--
<i>Cambarus hamulatus</i>	Prickly Cave Crayfish Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.	S3	G3G4	--	--
<i>Cambarus pristinus</i>	Pristine Crayfish Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	S2	G2	E	--
<i>Kleptochthonius infernalis</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Grassy Cove; Cumberland County.	S1	G1	--	--
<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.	S1	G3T2T3	--	--
<i>Pseudanophthalmus jonesi</i>	Grassy Cove Cave Beetle Terrestrial cave obligate; Grassy Cove; Cumberland County.	S1S2	G1G2	--	--
<i>Stenotrema edgarianum</i>	Sequatchie Slitmouth On logs and in leaf litter on forested hillsides; southern Sequatchie Valley extending north to Crab Orchard.	S2S3	G2G3	--	--
<i>Vertigo pygmaea</i>	Crested Vertigo A calciphile; generally found in low, grassy habitats; Grassy Cove & Crab Orchard; Cumberland County.	S1	G5	--	--
<i>Villosa perpurpurea</i>	Purple Bean Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.	S1	G1	E	LE
<i>Villosa trabalis</i>	Cumberland Bean Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.	S1	G1	E	LE
Vascular Plants: 39		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Calamovilfa arcuata</i>	Cumberland Sandgrass Rocky And Sandy River Bars	S2	G2	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Cumberland County . . . Continued

Known Species: 66

Vascular Plants: 39 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Campanula aparinoides</i>	Marsh Bellflower Bogs	S2	G5	S	--
<i>Carex buxbaumii</i>	Brown Bog Sedge Swamps	S1	G5	T	--
<i>Conradina verticillata</i>	Cumberland Rosemary Sandy, Rocky River Banks And Bars	S3	G3	T	LT
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Danthonia epilis</i>	Bog Oat-grass Acidic Seeps	S1S2	G3G4	S	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Dichanthelium ensifolium ssp. ensifolium</i>	Small-leaved Panicgrass Moist Pine Barrens	S2	GNR	S	--
<i>Drosera capillaris</i>	Pink Sundew Acidic Wetlands	S1	G5	T	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lachnocaulon anceps</i>	Bog-buttons Acidic Open Wetlands	SH	G5	E-P	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Marshallia grandiflora</i>	Large-fl. Barbara's-buttons Rocky River Bars	S2	G2	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cumberland County . . . Continued

Known Species: 66

Vascular Plants: 39 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Poa saltuensis</i>	Drooping Bluegrass Rich Oak Woods	S1	G5	T	--
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed Lakes And Streams	S1	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Ribes curvatum</i>	Granite Gooseberry Rocky Woods	S1	G4	T	--
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead Swamps, Emergent	S2S3	G5	S	--
<i>Sarracenia oreophila</i>	Green Pitcher Plant Open, Wet Streambanks	SX	G2	E-P	LE
<i>Schoenoplectus subterminalis</i>	Water Bulrush Ponds And Stream Margins	S1	G4G5	S	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Spiranthes ochroleuca</i>	Yellow Nodding Ladies'-tresses Moist Mountain Woods	SH	G4	E-P	--
<i>Symphyotrichum pratense</i>	Barrens Silky Aster Barrens	S1	G4?	E	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
<i>Utricularia resupinata</i>	Resupinate Bladderwort Ponds, Lake Margins	S1	G4	S	--
<i>Utricularia subulata</i>	Zigzag Bladderwort Wet Barrens, Ecotones	S1	G5	T	--

Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Cumberland County . . . Continued

Known Species: 66

Vertebrate Animals: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--

-- End of Cumberland --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Davidson County

Known Species: 74

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Nashville Basin Limestone Glade

Nashville Basin Limestone Glade,
Barrens, and Woodland

SNR

GNR

--

--

Ecological Systems: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Dalea foliosa - *Mecardonia*
acuminata - *Mitreola petiolata*
Herbaceous Vegetation

Limestone Glade Streamside
Meadow

S2?

G2?

--

--

Quercus stellata / *Viburnum*
rufidulum / *Schizachyrium*
scoparium - (*Sorghastrum nutans*,
Helianthus eggertii) Woodland

Western Highland Rim Escarpment
Post Oak Barrens

S2

G2G3

--

--

Invertebrate Animals: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Epioblasma brevidens

Cumberlandian Combshell

S1

G1

E

LE

Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks;
Tennessee & Cumberland river systems.

Epioblasma florentina walkeri

Tan Riffleshell

S1

G1T1

E

LE

Found in river headwaters, in riffles and shoals in sand and gravel substrates;
Tennessee & Cumberland river systems.

Lithasia duttoniana

Helmet Rocksnail

S2

G2Q

--

--

Rocky substrates in riffle systems; bedrock in flowing water below main section of
riffles; Duck River (TN River system).

Orconectes shoupi

Nashville Crayfish

S1S2

G1G2

E

LE

1st-order & larger streams, generally with bedrock bottom, under slabrock; endemic to
Mill Creek watershed; Davidson & William. cos.

Pseudanophthalmus insularis

Baker Station Cave Beetle

S1

GH

--

C

Terrestrial cave obligate; northern Central Basin; known from single historical record in
Davidson County.

Simpsonaias ambigua

Salamander Mussel

S1

G3

--

--

In sand or silt under large, flat stones in areas of swift current; occurred historically in
E Fk Stones R; 2005 obs in lower Duck R.

Sphalloplana buchanani

A Cave Obligate Planarian

S1

G1G2

--

--

Aquatic cave obligate; northern Central Basin; Davidson County; taxonomy poorly
understood.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 45

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Allium stellatum

Glade Onion

S1

G5

E

--

Glades

Ammoselinum popei

Pope's Sand-parsley

S2

G4

T

--

Glades



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Davidson County ... Continued

Known Species: 74

Vascular Plants: 45 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Anemone caroliniana</i>	Carolina Anemone Glades And Cedar Woodlands	S1S2	G5	E	--
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Arabis perstellata</i>	Braun's Rockcress Limestone Bluffs	S1	G2	E	LE
<i>Arabis shortii</i>	Short's Rock-cress Wooded Bluffs & Floodplains	S1S2	G5	S	--
<i>Astragalus bibullatus</i>	Pyne's Ground-plum Ordovician Limestone Glades	S1	G1	E	LE
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Carex davisii</i>	Davis' Sedge Bottomlands, Riparian Soils	S1	G4	S	--
<i>Carex hirtifolia</i>	Pubescent Sedge Lowland Forests	S1S2	G5	S	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Crataegus harbisonii</i>	Harbison's Hawthorn Dry Rocky Calcareous Woods	S1	G1	E	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Dalea purpurea</i>	Purple Prairie-clover Barrens	S1	G5	E	--
<i>Echinacea tennesseensis</i>	Tennessee Coneflower Ordovician Limestone Glades	S2	G2	E	LE
<i>Elymus svensonii</i>	Svenson's Wild-rye Rocky Bluffs	S2	G3	E	--
<i>Erysimum capitatum</i>	Western Wallflower Rocky Bluffs	S1S2	G5	E	--
<i>Evolvulus nuttallianus</i>	Evolvulus Glades	S3	G5	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Davidson County . . . Continued

Known Species: 74

Vascular Plants: 45 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrocotyle americana</i>	American Water-pennywort Wet Soils And Pools	S1	G5	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Lesquerella globosa</i>	Short's Bladderpod Limestone Talus Slopes And Cliffs	S2	G2	E	C
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Lonicera flava</i>	Yellow Honeysuckle Rocky Woods And Thickets	S1	G5?	T	--
<i>Mirabilis albida</i>	Pale Umbrella-wort Glades	S2	G5	T	--
<i>Onosmodium hispidissimum</i>	Shaggy False Gromwell Dry Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Perideridia americana</i>	Thicket Parsley Cedar Barrens	S2	G4	E	--
<i>Phlox bifida</i> ssp. <i>stellaria</i>	Glade Cleft Phlox Glades	S3	G5?T3	T	--
<i>Polytaenia nuttallii</i>	Prairie Parsley Prairies And Open Dry Areas	S1	G5	T	--
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	White Water-buttercup Ponds And Streams	S1	G5T5	E	--
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Symphyotrichum praealtum</i>	Willow Aster Moist Prairies And Marshes	S1	G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Davidson County . . . Continued

Known Species: 74

Vascular Plants: 45 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--
Vertebrate Animals: 18		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Ambystoma barbouri</i>	Streamside Salamander Seasonally ephemeral karst streams; middle Tennessee.	S2	G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma microlepidum</i>	Smallscale Darter Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	S2	G2G3	D	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.	S2S3	G3G4	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Davidson County . . . Continued

Known Species: 74

Vertebrate Animals: 18 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Percina phoxocephala

Slenderhead Darter

S3

G5

D

--

Small-large rivers with moderate gradient in shoal areas with moderate-swift currents;
portions of Tenn & Cumb river watersheds.

Thryomanes bewickii

Bewick's Wren

S1

G5

E

--

Brushy areas, thickets and scrub in open country, open and riparian woodland.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Davidson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Decatur County

Known Species: 37

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Juniperus virginiana /
Schizachyrium scoparium -
(*Andropogon gerardii*,
Sorghastrum nutans) - *Silphium*
(*trifoliatum*, *terebinthinaceum*)
Wooded Herbaceous Vegetation

Western Tennessee Valley Limestone
Hill Barrens

SNR

G2

--

--

Invertebrate Animals: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cumberlandia monodonta

Spectaclecase

S2S3

G3

--

C

Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.

Cyprogenia stegaria

Fanshell

S1

G1Q

E

LE

Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.

Lampsilis abrupta

Pink Mucket

S2

G2

E

LE

Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.

Lithasia salebrosa

Muddy Rocksnail

S2

G3G4Q

--

--

Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.

Obovaria retusa

Ring Pink

S1

G1

E

LE

Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.

Plethobasus cooperianus

Orangefoot Pimpleback

S1

G1

E

LE

Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.

Vertigo teskeyae

Swamp Vertigo

S1

G5

--

--

Wet habitats, pond margins, swamps, muddy bottomlands; tributary creeks of lower Tennessee River.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 19

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acalypha deamii

Deam's Copperleaf

S1

G4?

S

--

Mesic Woods-Sandbars

Arabis glabra

Tower-mustard

S1

G5

S

--

Barrens And Open Floodplains

Arabis hirsuta

Western Hairy Rockcress

S1

G5

T

--

Glades And Limestone Bluffs

Cypripedium kentuckiense

Southern Lady's-slipper

S2

G3

E

--

Riparian Forests

Draba cuneifolia

Wedge-leaved Whitlow-grass

S1S2

G5

S

--

Barrens And Glades



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Decatur County . . . Continued

Known Species: 37

Vascular Plants: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Eleocharis compressa</i>	Flat-stemmed Spike-rush Wet Limestone Glades	S1	G4	S	--
<i>Fimbristylis puberula</i>	Hairy Fimbristylis Wet Prairies And Woods	S1S2	G5	T	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	Western False Gromwell Glades	S1S2	G4G5T4?	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Prenanthes aspera</i>	Rough Rattlesnake-root Barrens And Roadsides	S1	G4?	E	--
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root Barrens And Dry Woodlands	S2	G3	S	--
<i>Salvia azurea</i> var. <i>grandiflora</i>	Blue Sage Barrens	S3	G4G5T4?	S	--
<i>Spiranthes magnicamporum</i>	Great Plains Ladies'-tresses Glades	S1	G4	S	--
<i>Symphotrichum pratense</i>	Barrens Silky Aster Barrens	S1	G4?	E	--

Vertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ichthyomyzon unicuspis</i>	Silver Lamprey Lakes, reservoirs, & large rivers; lower Cumberland, lower Tennessee, and probably Mississippi river watersheds.	S2	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Decatur County . . . Continued

Known Species: 37

Vertebrate Animals: 9 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S3	G4	D	--
Mature, rich, damp, deciduous floodplain and swamp forests.					
<i>Myotis grisescens</i>	Gray Myotis	S2	G3	E	LE
Cave obligate year-round; frequents forested areas; migratory.					
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake	S2S3	G5T5	T	--
Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.					
<i>Sorex longirostris</i>	Southeastern Shrew	S4	G5	D	--
Various habitats including wet meadows, damp woods, and uplands; statewide.					
<i>Typhlichthys subterraneus</i>	Southern Cavefish	S3	G3G4	D	--
Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.					

-- End of Decatur --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



DeKalb County

Known Species: 43

Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex lurida</i> - <i>Carex leptalea</i> - <i>Parnassia grandifolia</i> - <i>Juncus brachycephalus</i> - (<i>Xyris tennesseensis</i>) Herbaceous Vegetation	Highland Rim Parnassia Seepage Fen	SNR	G1	--	--
<i>Scirpus cyperinus</i> - <i>Panicum rigidulum</i> - <i>Rhynchospora corniculata</i> - (<i>Dulichium arundinaceum</i>) Herbaceous Vegetation	Highland Rim Pond (Threeway Sedge Subtype)	S2	G2G3	--	--
Invertebrate Animals: 16		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cambarus clivosus</i>	Short Mountain Crayfish	S2	G2	--	--
	Occurs in spring- or seep-fed tributaries of Caney Fork & Stones rivers; escarpment of E Highland Rim in Cannon & DeKalb counties.				
<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Kleptochthonius myopius</i>	A Cave Obligate Pseudoscorpion	S1	G1	--	--
	Terrestrial cave obligate; Eastern Highland Rim.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Plethobasus cicatricosus</i>	White Wartyback	S1	G1	E	LE
	Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.				
<i>Pleurobema clava</i>	Clubshell	SH	G2	E	LE
	Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.				
<i>Pseudanopthalmus farrelli</i>	A Cave Obligate Beetle	S1S2	G2G3	--	--
	Terrestrial cave obligate; eastern Highland Rim escarpment.				
<i>Pseudanopthalmus tiresias</i>	Indian Grave Point Cave Beetle	S1	G1	--	C
	Terrestrial cave obligate; Eastern Highland Rim; DeKalb County.				
<i>Pseudotremia cercops</i>	A Cave Obligate Millipede	S1	G1	--	--
	Terrestrial cave obligate; Eastern Highland Rim escarpment; reported from DeKalb County.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



DeKalb County . . . Continued

Known Species: 43

Invertebrate Animals: 16 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudotremia lictor</i>	A Cave Obligate Millipede Terrestrial cave obligate; Eastern Highland Rim; DeKalb County.	S1	G1	--	--
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3	G3G4T3	--	--
<i>Villosa trabalis</i>	Cumberland Bean Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.	S1	G1	E	LE
Vascular Plants: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acalypha deamii</i>	Deam's Copperleaf Mesic Woods-Sandbars	S1	G4?	S	--
<i>Allium burdickii</i>	Narrow-leaf Ramps Rich Woods	S1S2	G4G5	T-CE	--
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh Rich Woods	S1	G4G5Q	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Elymus svensonii</i>	Svenson's Wild-rye Rocky Bluffs	S2	G3	E	--
<i>Eriogonum longifolium</i> var. <i>harperi</i>	Harper's Umbrella-plant Rocky Bluffs	S1	G4T2	E	--
<i>Erysimum capitatum</i>	Western Wallflower Rocky Bluffs	S1S2	G5	E	--
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



DeKalb County . . . Continued

Known Species: 43

Vascular Plants: 17 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Prenanthes crepidinea</i>	Nodding Rattlesnake-root Rich Bottomlands	S2	G4	E	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
Vertebrate Animals: 8		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma olivaceum</i>	Sooty Darter Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.	S3	G3	D	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--

-- End of DeKalb --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Dickson County

Known Species: 25

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Amergoniscus nicholasi</i>	A Cave Obligate Isopod	S1S2	G1G2	--	--
	Terrestrial cave obligate; known from two caves; Western Highland Rim and Ridge & Valley.				
<i>Batrisesodes barri</i>	A Cave Obligate Beetle	S1S2	G1G2	--	--
	Terrestrial cave obligate; Western Highland Rim; Dickson County.				
<i>Batrisesodes gemmoides</i>	A Cave Obligate Beetle	S1	G1	--	--
	Terrestrial cave obligate; Western Highland Rim; reported from Dickson County.				
<i>Batrisesodes gemmus</i>	A Cave Obligate Beetle	S1	G1	--	--
	Terrestrial cave obligate; Western Highland Rim; reported from Dickson County.				
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail	S2	G3T3Q	--	--
	Medium-sized river form of <i>L. geniculata</i> ; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.				
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail	S2	G3	--	--
	Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.				

Vascular Plants: 13

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Agalinis oligophylla</i>	Ridge-stem False-foxglove	S1	G4	E	--
	Barrens				
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain	S2	G4	T	--
	Alluvial Woods, Moist Slopes				
<i>Helianthus eggertii</i>	Eggert's Sunflower	S3	G3	S	DM
	Barrens And Roadsides				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Lesquerella densipila</i>	Duck River Bladderpod	S3	G3	T	--
	Cultivated Fields				
<i>Lesquerella globosa</i>	Short's Bladderpod	S2	G2	E	C
	Limestone Talus Slopes And Cliffs				
<i>Lilium michiganense</i>	Michigan Lily	S3	G5	T	--
	Swamps And Open Wet Woods				
<i>Melanthium latifolium</i>	Broadleaf Bunchflower	S1S2	G5	E	--
	Oak Forest				
<i>Panax quinquefolius</i>	American Ginseng	S3S4	G3G4	S-CE	--
	Rich Woods				
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root	S2	G3	S	--
	Barrens And Dry Woodlands				
<i>Sagittaria graminea</i>	Grassleaf Arrowhead	S1	G5	T	--
	Ponds And Stream Margins				



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Dickson County ... Continued

Known Species: 25

Vascular Plants: 13 ... Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Spiranthes ochroleuca

Yellow Nodding Ladies'-tresses

SH

G4

E-P

--

Moist Mountain Woods

Vertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Etheostoma pseudovulatum

Egg-mimic Darter

S1

G1

E

--

Small to medium sized, gravelly, cool, spring-fed streams; lower Duck River watershed.

Haliaeetus leucocephalus

Bald Eagle

S3

G5

D

--

Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.

Hemidactylium scutatum

Four-toed Salamander

S3

G5

D

--

Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.

Pituophis melanoleucus melanoleucus

Northern Pinesnake

S3

G4T4

T

--

Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

-- End of Dickson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Dyer County

Known Species: 17

Invertebrate Animals: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Fallicambarus horton

Hatchie Burrowing Crayfish

S1

G1

E

--

Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.

Webbhelix multilineata

Striped Whitelip

S2

G5

--

--

Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Carex hyalina

Tissue Sedge

S1

G4

S

--

Forested Bottomland Swamps

Carex lacustris

Lake-bank Sedge

S1

G5

T

--

Alluvial Woods

Didiplis diandra

Water-purslane

S1

G5

T

--

Swamps

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Zanthoxylum americanum

Northern Prickly-ash

S2

G5

S

--

Cedar Thickets

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Ardea alba

Great Egret

S2B,S3N

G5

D

--

Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.

Atractosteus spatula

Alligator Gar

S1

G3G4

D

--

Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.

Corynorhinus rafinesquii

Rafinesque's Big-eared Bat

S3

G3G4

D

--

Caves, hollow trees, abandoned buildings; often associated with forested areas.

Cycleptus elongatus

Blue Sucker

S2

G3G4

T

--

Swift waters over firm substrates in big rivers.

Egretta caerulea

Little Blue Heron

S2B,S3N

G5

D

--

Bodies of calm shallow water; colonial nester.

Ictinia mississippiensis

Mississippi Kite

S2S3

G5

D

--

Undisturbed stands of lowland and floodplain forests and along major rivers.

Limnithlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

Scaphirhynchus albus

Pallid Sturgeon

S1

G2

E

LE

Large, turbid, free-flowing riverine habitat, in strong current over firm gravel or sandy substrates; Mississippi River main channel.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Dyer County . . . Continued

Known Species: 17

Vertebrate Animals: 9 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sterna antillarum athalassos

Interior Least Tern

S2S3B

G4T2Q

E

LE

Mississippi River sand bars & islands, dikes.

-- End of Dyer --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Fayette County

Known Species: 16

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lampsilis siliquoidea

Fatmucket

S2

G5

--

--

Slackwater with mud subst; Wolf R (Miss R trib); west TN; may occur at Reelfoot Lk; also rept Drakes Ck (Cumb R), Sumner Co.

Obovaria jacksoniana

Southern Hickorynut

S1

G2

--

--

Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.

Villosa vibex

Southern Rainbow

S2

G5Q

--

--

Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.

Vascular Plants: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Bulbostylis ciliatifolia var.
coarctata

Capillary Hairsedge

SH

G5T3T5

E-P

--

Upland Pine-Oak Woods

Carex gravida

Heavy Sedge

S1

G5

S

--

Rocky River Bluffs

Festuca paradoxa

Cluster Fescue

S1

G5

S

--

Wet Woods And Prairies

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Listera australis

Southern Twayblade

S1S2

G4

E

--

Wet-Mesic Woods

Penstemon tubiflorus

Small-flowered Beardtongue

S1

G5

S

--

Moist Woods

Quercus margarettiae

Sand Post Oak

S1

G5

S

--

Sandy Hills

Vertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Aimophila aestivalis

Bachman's Sparrow

S1B

G3

E

--

Dry open pine or oak woods; nests on the ground in dense cover.

Hyla gratiosa

Barking Treefrog

S3

G5

D

--

Low wet woods and swamps esp. with ephemeral ponds.

Noturus gladiator

Piebald Madtom

S3

G3

D

--

Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Fayette --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Fentress County Known Species: 81

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heuchera parviflora</i> var. <i>parviflora</i> - <i>Trichomanes boschianum</i> - <i>Thalictrum mirabile</i> - (<i>Ageratina luciae-brauniae</i> , <i>Solidago albopilosa</i>) Herbaceous Vegetation	Cumberland Plateau Sandstone Rockhouse	SNR	G2	--	--
Invertebrate Animals: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Alasmidonta atropurpurea</i>	Cumberland Elktoe Small creeks to medium-sized rivers with slow current, sand substrates, and large cobble; upper Cumberland River watershed.	S1S2	G1G2	E	LE
<i>Anillinus</i> sp. 5	Flag Trail Cave Beetle Terrestrial cave obligate; northern Cumberlands.	S1	G1	--	--
<i>Appaleptoneta</i> sp. 1	A Leptonetid Spider From Ghost River Cave Terrestrial cave obligate; reported from the northern Cumberlands.	S1	G1	--	--
<i>Batrisesodes clypeospecus</i>	A Cave Obligate Beetle Terrestrial cave obligate; northern Cumberlands.	S1S2	G1G2	--	--
<i>Cambarus obeyensis</i>	Obey Crayfish Under cover in small-medium sized streams; headwaters of East Fork Obey River; northern Cumberlands; tertiary burrower.	S2	G2	T	--
<i>Fumonelix wetherbyi</i>	Clifty Covert Under logs & moist leaf litter of wooded hillsides & ravines; northern Cumberlands, Cumberland Mountains & adj. Ridge & Valley.	S2S3	G2G3	--	--
<i>Hesperochnes mirabilis</i>	Southeastern Cave Pseudoscorpion Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.	S3	G5	--	--
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Litocampa</i> sp. 6	Buffalo Cove Cave Dipluran Terrestrial cave obligate, northern Cumberlands; possibly endemic to Buffalo Cove, Fentress County.	S1	G1	--	--
<i>Litocampa</i> sp. 8	Mountain Eye Cave Dipluran Terrestrial cave obligate, northern Cumberlands.	S1	G1	--	--
<i>Miktoniscus barri</i>	A Cave Obligate Isopod Terrestrial cave obligate from leaf litter; reported from Western Highland Rim & northern Cumberlands; spotty distribution.	S2?	G2G4	--	--
<i>Nelsonites walteri</i>	A Cave Obligate Beetle Terrestrial cave obligate, northern Cumberlands.	S3	G3G4	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pseudanophthalmus</i> sp. 30	Ace in the Hole Cave Beetle Terrestrial cave obligate; Fentress County.	S1	G1	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Fentress County . . . Continued

Known Species: 81

Invertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudosinella orba</i>	A Cave Springtail Terrestrial cave obligate; reported from two caves in northern Cumberlands; Fentress & Pickett counties.	S2	G3G4	--	--
<i>Pseudotremia garlandae</i>	Garland's Cave Millipede Terrestrial cave obligate; riparian mud banks in caves of the N Cumberland Plateau; Fentress County.	S1	G1	--	--
<i>Pseudotremia roebuckorum</i>	Roebuck's Cave Millipede Terrestrial cave obligate; collected from riparian mud banks in caves of the N Cumberland Escarpment; Fentress County.	S1	G1	--	--
<i>Scoterpes copei</i>	A Cave Obligate Millipede Terrestrial cave obligate; wet caves of the N Cumberland escarpment; Fentress County.	S1	G1	--	--
<i>Stenotrema angellum</i>	Kentucky Slitmouth Found under logs and leaf litter of forested hillsides and ravines; northern Eastern Highland Rim.	S3	G4	--	--
<i>Triodopsis complanata</i>	Glossy Threetooth Cave associate; also found in leaf litter or around logs or talus; northernmost Cumberlands.	S2	G2	--	--

Nonvascular Plants: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Bryoxiphium norvegicum</i>	Sword Moss Sandstone Rockhouses And Shaded Outcroppings	S1	G5?	T	--
<i>Lophocolea appalachiana</i>	A Liverwort Spray Cliffs	S1	G1G2Q	S	--
<i>Microlejeunea globosa</i>	Cardot's Lejeunea Creekside Edge Of Rockhouse	S1	G3?	S	--
<i>Scopelophila cataractae</i>	Agoyan Cataract Moss Rock Houses, Copper-Rich Soils	S1	G3	S	--
<i>Tetradontium brownianum</i>	Little Georgia Montaine Rocky Seeps And Falls	S1	G3G4	S	--

Vascular Plants: 33		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Ageratina luciae-brauniae</i>	Lucy Braun's White Snakeroot Rockhouses	S3	G3	T	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--
<i>Campanula aparinoides</i>	Marsh Bellflower Bogs	S2	G5	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Fentress County . . . Continued

Known Species: 81

Vascular Plants: 33 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex hirtifolia</i>	Pubescent Sedge Lowland Forests	S1S2	G5	S	--
<i>Carex sterilis</i>	Sterile Sedge Wet Calcareous Woods	SH	G4	E-P	--
<i>Conradina verticillata</i>	Cumberland Rosemary Sandy, Rocky River Banks And Bars	S3	G3	T	LT
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--
<i>Dichanthelium ensifolium ssp. curtifolium</i>	Short-leaved Panic Grass Boggy Areas	S1	G3?	E	--
<i>Dichanthelium ensifolium ssp. ensifolium</i>	Small-leaved Panicgrass Moist Pine Barrens	S2	GNR	S	--
<i>Drosera rotundifolia</i>	Roundleaf Sundew Bogs & Seeps	S1	G5	T	--
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush Pond Edges And Open Wetlands	S1	G4	E	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Helenium brevifolium</i>	Shortleaf Sneezeweed Rocky, Sandy Streamsides	S1	G4	E	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hymenophyllum tayloriae</i>	Taylor's Filmy Fern Moist Rockhouses	S2	G2	S	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Lycopodiella alopecuroides</i>	Foxtail Clubmoss Wet Acidic Barrens	S2	G5	T	--
<i>Minuartia cumberlandensis</i>	Cumberland Sandwort Rockhouses	S2	G2G3	E	LE
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Fentress County . . . Continued

Known Species: 81

Vascular Plants: 33 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Pycnanthemum verticillatum</i>	Whorled Mountain-mint Upland Woods, Thickets	SH	G5	E-P	--
<i>Sagittaria graminea</i>	Grassleaf Arrowhead Ponds And Stream Margins	S1	G5	T	--
<i>Sarracenia oreophila</i>	Green Pitcher Plant Open, Wet Streambanks	SX	G2	E-P	LE
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--
<i>Utricularia subulata</i>	Zigzag Bladderwort Wet Barrens, Ecotones	S1	G5	T	--
Vertebrate Animals: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Fentress County . . . Continued

Known Species: 81

Vertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina squamata</i>	Olive Darter Small-med rivers; in strong flowing chutes with rubble/boulders in high-gradient streams; portions of upper Tenn & Cumb river systems. 	S2	G3	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex hoyi</i>	American Pygmy Shrew Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.	S2	G5	--	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.	S3	G5	--	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of Fentress --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County

Known Species: 129

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Central Interior Highlands and Appalachian Sinkhole and Depression Pond</i>	Highland Rim Sinkhole and Depression Pond	S2S3	GNR	--	--
Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer rubrum</i> var. <i>trilobum</i> - <i>Nyssa sylvatica</i> / <i>Osmunda cinnamomea</i> - <i>Chasmanthium laxum</i> - <i>Carex intumescens</i> / <i>Sphagnum lescurii</i> Forest	Cumberland Forested Acidic Seep	S2S3	G3?	--	--
Invertebrate Animals: 35		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anguispira picta</i>	Painted Tigersnail A calciphile; limestone outcrops and cliff faces of karstic woods; S Cumberlands; Sherwood community of upper Crow Creek valley.	S1	G1	E	LT
<i>Cambarincola alienus</i>	A Cave Obligate Worm Aquatic cave obligate; isopod parasite; southern Cumberlands.	S1	G1G2	--	--
<i>Cambarus hamulatus</i>	Prickly Cave Crayfish Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.	S3	G3G4	--	--
<i>Carychium stygium</i>	Cave Thorn Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.	S2	G3	--	--
<i>Dactylocythere steevesi</i>	A Cave Obligate Shrimp Aquatic cave obligate; crayfish commensal; Cumberland Plateau & Eastern Highland Rim generally.	S2S3	G4	--	--
<i>Discus clappi</i>	Channelled Disc A calciphile; leaf litter on rocky wooded hillsides & karst woods; southern Cumberlands; Franklin County.	S1	G1	--	--
<i>Eremidrilus allegheniensis</i>	A Cave Obligate Worm Aquatic cave obligate; rimstone pools & subterranean waters; reported from S Cumberlands; Franklin County.	S1S2	G1G2	--	--
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Inflectarius smithi</i>	Alabama Shagreen A calciphile; karst woods, hillsides, ravines; under logs and rocks; southern Cumberlands; Franklin County.	S2	G2	--	--
<i>Kleptochthonius magnus</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; southern Cumberlands.	S1	G1	--	--
<i>Kleptochthonius tantalus</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; southern Cumberlands.	S1	G1	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Invertebrate Animals: 35 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lampsilis virescens</i>	Alabama Lampmussel Found in sand and gravel substrates in shoal areas of small-medium size rivers; middle and upper TN R system; poss extirpated in TN.	S1	G1	E	LE
<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail Medium sized rivers & large creeks in portions of lower Cumb. and Tenn. river systems; Stones River; possibly a form or morph.	S1	G1Q	--	--
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Lithasia lima</i>	Warty Rocksnail Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).	S2	G2Q	--	--
<i>Litocampa sp. 5</i>	A Cave Dipluran From TN Terrestrial cave obligate, Cumberland Plateau escarpment.	S1	G2	--	--
<i>Litocampa valentinei</i>	A Cave Obligate Bristletail Terrestrial cave obligate, southern Cumberlands.	S2	G5	--	--
<i>Mesodon sanus</i>	Squat Globelet A calciphile; in leaf litter of karst woods, hillsides, ravines; southern Cumberlands; Franklin & Marion counties.	S2S3	G3	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Pegias fabula</i>	Littlewing Pearlymussel Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.	S1	G1	E	LE
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Porhomma cavernicola</i>	Appalachian Cave Spider Terrestrial cave obligate; eastern half of Tennessee; sporadic.	S1?	G5	--	--
<i>Pseudanophthalmus humeralis</i>	A Ground Beetle Terrestrial cave obligate; southern Cumberlands.	S2	G2	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
<i>Ptomaphagus fecundus</i>	A Cave Obligate Beetle Terrestrial cave obligate; Franklin County; Highland Rim escarpment.	S1	G1	--	--
<i>Ptychobranthus subtentum</i>	Fluted Kidneyshell Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	S2	G2	--	C
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Invertebrate Animals: 35 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Stygobromus vitreus</i>	An Amphipod Aquatic cave obligate; pools in wet caves; northernmost Highland Rim and southernmost Cumberlands.	S2	G4	--	--
<i>Tetracion jonesi</i>	A Cave Obligate Millipede Terrestrial cave obligate; reported from three caves in S Cumberlands; Franklin County.	S1S2	G3G4	--	--
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
<i>Toxolasma lividus</i>	Purple Lilliput Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.	S1S2	G2	--	--
<i>Tyrannochthonius fiskei</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; reported from one cave in the S Cumberlands; Franklin County.	S1	G1	--	--
<i>Zonitoides lateumbilicatus</i>	Striate Gloss A calciphile; found in leaf litter of shady karst woods, ravines; sometimes near springs or seeps; spotty distribution in Cumberlands.	S2?	G3G4	--	--
Nonvascular Plants: 3		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Microlejeunea globosa</i>	Cardot's Lejeunea Creekside Edge Of Rockhouse	S1	G3?	S	--
<i>Pellia appalachiana</i>	 Wet Soil, Barrens	S2	G4	S	--
Vascular Plants: 63		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Agalinis oligophylla</i>	Ridge-stem False-foxglove Barrens	S1	G4	E	--
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Amsonia tabernaemontana</i> var. <i>gattereri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Carex vestita</i>	Velvety Sedge Dry To Moist Woods	SH	G5	E-P	--
<i>Clematis glaucophylla</i>	White-leaved Leatherflower Wooded Stream Banks	S1	G4?	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Vascular Plants: 63 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Clematis morefieldii</i>	Morefield's Leather-flower Seeps/Springs In Rocky Limestone Woods	S1	G2	E	LE
<i>Cotinus obovatus</i>	American Smoketree Dry, Circumneutral Soil	S2	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Cypripedium kentuckiense</i>	Southern Lady's-slipper Riparian Forests	S2	G3	E	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Dichanthelium ensifolium ssp. curtifolium</i>	Short-leaved Panic Grass Boggy Areas	S1	G3?	E	--
<i>Drosera brevifolia</i>	Dwarf Sundew Wet Barrens And Ecotones	S2	G5	T	--
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush Pond Edges And Open Wetlands	S1	G4	E	--
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Festuca paradoxa</i>	Cluster Fescue Wet Woods And Prairies	S1	G5	S	--
<i>Fimbristylis perpusilla</i>	Harper's Fimbristylis Depressions In Low Woods	S1	G2	E	--
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry Barrens	S3	G5	T	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Gratiola floridana</i>	Florida Hedge-hyssop Wooded Swamps	S1	G4	E	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrolea ovata</i>	Ovate Fiddleleaf Ponds And Swamps	S1	G5	S	--
<i>Iris prismatica</i>	Slender Blue Flag Wet Barrens	S2S3	G4G5	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Vascular Plants: 63 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Lonicera flava</i>	Yellow Honeysuckle Rocky Woods And Thickets	S1	G5?	T	--
<i>Ludwigia sphaerocarpa</i>	Globe-fruited False-loosestrife Swamps And Shallow Pools	S1	G5	T	--
<i>Marshallia trinervia</i>	Broad-leaved Barbara's-buttons Rocky Ravines	S2S3	G3	T	--
<i>Melanthium woodii</i>	Ozark Bunchflower Rich Wooded Slopes	S1	G5	E	--
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil Acidic Wetland And Ponds	S1	G5	T	--
<i>Neviusia alabamensis</i>	Alabama Snow-wreath Upland Woods	S2	G2	T	--
<i>Onosmodium molle ssp. subsetosum</i>	Smooth False Gromwell Limestone Woods	S1	G4G5T4?	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Plantago cordata</i>	Heart-leaved Plantain Limestone Creek Beds	S1	G4	E	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Ponthieva racemosa</i>	Shadow-witch Wet Woods	S1	G4G5	E	--
<i>Prenanthes aspera</i>	Rough Rattlesnake-root Barrens And Roadsides	S1	G4?	E	--
<i>Prunus pumila</i>	Sand Cherry Barrens	S1	G5	E	--
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot Ponds And Marshes	S2	G5	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Vascular Plants: 63 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Rhynchospora perplexa</i>	Obscure Beak-rush Marshes, Wet Barrens	S2	G5	T	--
<i>Silphium brachiatum</i>	Cumberland Rosinweed Rich Rocky Woods	S2	G2G3	E	--
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Solidago auriculata</i>	Eared Goldenrod Dry Woods	S1	G4	T	--
<i>Solidago ptarmicoides</i>	Prairie Goldenrod Barrens	S1S2	G5	E	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Talinum teretifolium</i>	Roundleaf Fameflower Dry Sandy Rock Outcrops	S2	G4	T	--
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
<i>Viburnum bracteatum</i>	Limerock Arrowwood Rocky Rich Woods	S1	G1G2	E	--
<i>Viola tripartita</i> var. <i>tripartita</i>	Three-parted Violet Wooded Slopes	S2S3	G5T3	S	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--
<i>Xyris laxifolia</i> var. <i>iridifolia</i>	Wide-leaved Yellow-eyed Grass Pond Margins And Marshes	S2	G4G5T4T5	T	--
<i>Zigadenus leimanthoides</i>	Death-camas Acidic Wetlands	S2	G4Q	T	--

Vertebrate Animals: 26		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Vertebrate Animals: 26 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Moxostoma lacerum</i>	Harelip Sucker Medium to large, warm, sluggish streams with relatively low turbidity and silt levels; presumed extinct.	SX	GX	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Franklin County . . . Continued

Known Species: 129

Vertebrate Animals: 26 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex hoyi</i>	American Pygmy Shrew Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.	S2	G5	--	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.	S3	G5	--	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Franklin --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Gibson County

Known Species: 14

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Fallicambarus horton

Hatchie Burrowing Crayfish

S1

G1

E

--

Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Carex reniformis

Reniform Sedge

S1

G4?

S

--

Rich Bottomland Woods

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Silphium laciniatum

Compass Plant

S2

G5

T

--

Barrens

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Accipiter striatus

Sharp-shinned Hawk

S3B,S4N

G5

D

No Status

Forests and open woodlands.

Corynorhinus rafinesquii

Rafinesque's Big-eared Bat

S3

G3G4

D

--

Caves, hollow trees, abandoned buildings; often associated with forested areas.

Ictinia mississippiensis

Mississippi Kite

S2S3

G5

D

--

Undisturbed stands of lowland and floodplain forests and along major rivers.

Ixobrychus exilis

Least Bittern

S2B

G5

D

--

Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.

Limnothlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

Sorex cinereus

Cinereus Shrew

S4

G5

D

--

Rich woodlands of many types; open fields; middle and east Tennessee.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Gibson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Giles County

Known Species: 28

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cyprogenia stegaria

Fanshell

S1

G1Q

E

LE

Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.

Dromus dromas

Dromedary Pearlymussel

S1

G1

E

LE

Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.

Hemistena lata

Cracking Pearlymussel

S1

G1

E

LE

Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.

Lemiox rimosus

Birdwing Pearlymussel

S1

G1

E

LE

Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.

Lithasia lima

Warty Rocksnail

S2

G2Q

--

--

Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).

Toxolasma lividus

Purple Lilliput

S1S2

G2

--

--

Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.

Vascular Plants: 14

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Allium burdickii

Narrow-leaf Ramps

S1S2

G4G5

T-CE

--

Rich Woods

Apios priceana

Price's Potato-bean

S2

G2

E

LT

Openings In Rich Woods

Arenaria lanuginosa

Wooly Sandwort

S1

G5

E

--

Bluffs

Cimicifuga rubifolia

Appalachian Bugbane

S3

G3

T

--

Rich Woods

Helianthus eggertii

Eggert's Sunflower

S3

G3

S

DM

Barrens And Roadsides

Hydrastis canadensis

Goldenseal

S3

G4

S-CE

--

Rich Woods

Juglans cinerea

Butternut

S3

G4

T

--

Rich Woods And Hollows

Leavenworthia exigua var. *exigua*

Glade-cress

S3

G4T3

S

--

Glades

Lesquerella densipila

Duck River Bladderpod

S3

G3

T

--

Cultivated Fields

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Perideridia americana

Thicket Parsley

S2

G4

E

--

Cedar Barrens



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Giles County . . . Continued

Known Species: 28

Vascular Plants: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
Vertebrate Animals: 8		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma wapiti</i>	Boulder Darter Fast rocky riffles of small to medium rivers & large creeks; Elk River watershed.	S1	G1	E	LE, XN
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Moxostoma lacerum</i>	Harelip Sucker Medium to large, warm, sluggish streams with relatively low turbidity and silt levels; presumed extinct.	SX	GX	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Giles --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Grainger County Known Species: 33

Invertebrate Animals: 12		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cumberlandia monodonta</i>	Spectaclecase Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.	S2S3	G3	--	C
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Hemistena lata</i>	Cracking Pearlymussel Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.	S1	G1	E	LE
<i>Io fluvialis</i>	Spiny Riversnail Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	S2	G2	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Lemiox rimosus</i>	Birdwing Pearlymussel Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.	S1	G1	E	LE
<i>Nesticus tennesseensis</i>	Tennessee cave spider Terrestrial cave associate or possibly obligate; east Tennessee.	S2S4	G3G4	--	--
<i>Plethobasus cicatricosus</i>	White Wartyback Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.	S1	G1	E	LE
<i>Pseudotremia deprehendor</i>	A Cave Obligate Millipede Terrestrial cave obligate; northern Ridge & Valley caves; east Tennessee.	S1?	G2G3	--	--
<i>Ptychobranthus subtentum</i>	Fluted Kidneyshell Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	S2	G2	--	C

Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Grimmia olneyi</i>	Grimmia Moss High Elev. Dry Rocks And Cliffs	SH	G3G5	S	--

Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
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Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Grainger County . . . Continued

Known Species: 33

Vascular Plants: 13 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Botrychium jenmanii</i>	Alabama Grapefern Pine Woods	S1	G3G4	T	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Corydalis sempervirens</i>	Pale Corydalis Dry Or Rocky Woods	S1S2	G4G5	E	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Eleocharis intermedia</i>	Matted Spike-rush Wet Areas	S1	G5	E	--
<i>Eurybia schreberi</i>	Schreber's Aster Mesic Woods & Seepage Slopes	S1	G4	S	--
<i>Fothergilla major</i>	Mountain Witch-alder Rocky Slopes And River Banks	S2	G3	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Phlox subulata</i>	Moss Phlox Shaley Slopes	S1	G5	T	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Ruellia purshiana</i>	Pursh's Wild-petunia Dry Woods	S1S2	G3	S	--
Vertebrate Animals: 6		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Grainger County . . . Continued Known Species: 33

Vertebrate Animals: 6 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sorex longirostris</i>	Southeastern Shrew	S4	G5	D	--
Various habitats including wet meadows, damp woods, and uplands; statewide.					

-- End of Grainger --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Greene County

Known Species: 70

Invertebrate Animals: 17

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Caecidotea nortoni</i>	A Cave Obligate Isopod Aquatic cave obligate; eastern Ridge & Valley.	S1S2	G2G3	--	--
<i>Cumberlandia monodonta</i>	Spectaclecase Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.	S2S3	G3	--	C
<i>Epioblasma triquetra</i>	Snuffbox Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.	S3	G3	--	--
<i>Fumonelix wheatleyi</i>	Cinnamon Covert Leaf litter, logs, talus in mixed woodlands, coves @ mid-upper elevations of Blue Ridge; Blount, Carter, Cocke, Monroe, & Sevier cos.	S3	G4	--	--
<i>Io fluvialis</i>	Spiny Riversnail Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	S2	G2	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Paravitrea lamellidens</i>	Lamellate Supercoil Deep, moist leaf litter below boulder slopes, bluffs; boggy seeps; forested hillsides & ravines; central & southern Blue Ridge.	S2	G2	--	--
<i>Quadrula cylindrica strigillata</i>	Rough Rabbitsfoot Small-medium sized rivers, in clear, shallow riffles with sand-gravel substrates; Tenn. & Cumb. river systems; upland form.	S2	G3G4T2	E	LE
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Stenotrema altispira</i>	Highland Slitmouth Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central & N Blue Ridge; northeast Tennessee.	S2?	G3	--	--
<i>Trechus caliginis</i>	A Carabid Beetle Terrestrial; known only from summit of Camp Creek Bald; Blue Ridge mountains; Greene County.	S1	GNR	--	--
<i>Trechus hydropicus beutenmuelleri</i>	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.	S2S3	GNRTNR	--	--
<i>Trechus inexpectatus</i>	A Carabid Beetle Terrestrial; known only from summit of Camp Creek Bald; Blue Ridge mountains; Greene County.	S1	GNR	--	--
<i>Trechus vandykei</i>	A Carabid Beetle Terrestrial; found in leafmold or under moss mats; Camp Creek Bald & Unaka Mountain; Blue Ridge; Greene & Unicoi counties.	S3?	GNR	--	--
<i>Villosa fabalis</i>	Rayed Bean Riffles of medium-small rivers & creeks, in gravel & sand substrates associated with <i>Justicia americana</i> ; Tennessee River watershed.	S1	G2	--	C



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Greene County . . . Continued

Known Species: 70

Invertebrate Animals: 17 . . . Continued

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Villosa trabalis</i>	Cumberland Bean	S1	G1	E	LE

Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 37

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Adlumia fungosa</i>	Climbing Fumitory	S2	G4	T	--

Rich Mesic Woods

<i>Asclepias purpurascens</i>	Purple Milkweed	S1	G5?	S	--
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Barrens

<i>Berberis canadensis</i>	American Barberry	S2	G3	S	--
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Rocky Woods And River Bars

<i>Buckleya distichophylla</i>	Piratebush	S2	G2	T	--
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Rocky Mountain Woods W/ Hemlock

<i>Caltha palustris</i>	Marsh Marigold	S1	G5	E	--
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Bogs

<i>Campanula aparinoides</i>	Marsh Bellflower	S2	G5	S	--
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Bogs

<i>Cardamine flagellifera</i>	Running Bittercress	S2	G3	T	--
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Mountain Stream Banks

<i>Caulophyllum giganteum</i>	Giant Blue Cohosh	S1	G4G5Q	T	--
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Rich Woods

<i>Chrysogonum virginianum</i>	Green-and-gold	S2	G5	T	--
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Dry Woods And Openings

<i>Clintonia borealis</i>	Clinton's Lily	S2S3	G5	S	--
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High Elevation Mesic Forests

<i>Coreopsis latifolia</i>	Broad-leaved Tickseed	S1S2	G3	E	--
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Streamheads

<i>Cypripedium acaule</i>	Pink Lady's-slipper	S4	G5	S-CE	--
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Piney Woods

<i>Draba ramosissima</i>	Branching Whitlow-grass	S2	G4	S	--
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Calcareous Bluffs

<i>Epilobium ciliatum</i>	Hairy Willow-herb	S1	G5	T	--
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Mountain Balds

<i>Fothergilla major</i>	Mountain Witch-alder	S2	G3	T	--
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Rocky Slopes And River Banks



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Greene County . . . Continued

Known Species: 70

Vascular Plants: 37 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--
<i>Helianthus glaucophyllus</i>	White-leaved Sunflower Dry Open Woods	S1	G3	T	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Heuchera longiflora</i> var. <i>aceroides</i>	Maple-leaf Alumroot Moist Ravines	S2	G4T2Q	S	--
<i>Hydrocotyle americana</i>	American Water-pennywort Wet Soils And Pools	S1	G5	E	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid Wet Meadows And Open Woods	S2	G5	E	--
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--
<i>Poa palustris</i>	Fowl Bluegrass Wet Balds	S1	G5	E	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Thaspium pinnatifidum</i>	Cutleaf Meadow-parsnip Calcareous Forests And Woodlands	S1	G2G3	E	--
<i>Thermopsis fraxinifolia</i>	Ash-leaved Bush-pea Roadsides And Dry Open Woods	S3	G3?	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Greene County . . . Continued

Known Species: 70

Vascular Plants: 37 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Trientalis borealis</i>	Northern Starflower Mountain Hardwood Forests	S1	G5	T	--
<i>Xerophyllum asphodeloides</i>	Eastern Turkeybeard Dry Oak Or Piney Woods	S3	G4	T	--
Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Desmognathus wrighti</i>	Pygmy Salamander Mature hardwoods & spruce-fir forests under moss, leaf litter, logs, bark, and rocks; high elevations; Blue Ridge.	S2S3	G3G4	D	--
<i>Etheostoma acuticeps</i>	Sharphead Darter Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	S2S3	G3	--	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Noturus crypticus</i>	Chunky Madtom Stream runs with slow to moderate current over pea gravel, cobble, or slabrock; Little Chunky Creek; Nolichucky River system.	S1	G1	E	C
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Greene --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Grundy County

Known Species: 79

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Panicum hemitomom - *Dulichium arundinaceum* Herbaceous Vegetation

Highland Rim Maidencane Pond

S1

G1

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Invertebrate Animals: 21

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Alasmidonta atropurpurea

Cumberland Elktoe

S1S2

G1G2

E

LE

Small creeks to medium-sized rivers with slow current, sand substrates, and large cobble; upper Cumberland River watershed.

Anguispira alabama

Alabama Tigersnail

S2

G2

--

--

A calciphile; limestone outcrops and cliff faces of karstic woods; southern Cumberlands.

Anthrobia mammothia

Mammoth Cave spider

S1

G5

--

--

Terrestrial cave obligate; reported from a handful of caves in the middle Cumberlands; Bledsoe, Grundy, & Van Buren counties.

Carychium stygium

Cave Thorn

S2

G3

--

--

Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.

Chitrella archeri

A Cave Obligate Pseudoscorpion

S1S2

G1G2

--

--

Terrestrial cave obligate; associated with bat guano in caves of eastern middle Tennessee.

Diacyclops yeatmani

Yeatman's Groundwater Copepod

S1

G2G3

--

--

Aquatic cave obligate; central & southern Cumberlands generally; possibly part of a species complex.

Helicodiscus notius specus

A Terrestrial Snail

S1?

G5T2

--

--

Cave obligate; feeds on cricket guano; Ridge & Valley and Eastern Highland Rim (tentatively).

Hesperocharnes mirabilis

Southeastern Cave Pseudoscorpion

S3

G5

--

--

Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.

Kleptochthonius barri

A Cave Obligate Pseudoscorpion

S1S2

G1G2

--

--

Terrestrial cave obligate; southern Cumberlands.

Litocampa sp. 5

A Cave Dipluran From TN

S1

G2

--

--

Terrestrial cave obligate, Cumberland Plateau escarpment.

Litocampa valentinei

A Cave Obligate Bristletail

S2

G5

--

--

Terrestrial cave obligate, southern Cumberlands.

Orconectes australis

Southern Cave Crayfish

S3

G5

--

--

Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.

Pleurobema gibberum

Cumberland Pigtoe

S1

G1

E

LE

Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.

Porhomma cavernicola

Appalachian Cave Spider

S1?

G5

--

--

Terrestrial cave obligate; eastern half of Tennessee; sporadic.

Pseudanophthalmus humeralis

A Ground Beetle

S2

G2

--

--

Terrestrial cave obligate; southern Cumberlands.



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Grundy County . . . Continued

Known Species: 79

Invertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudanophthalmus macradei</i>	A Cave Obligate Beetle Terrestrial cave obligate; middle Cumberlands.	S1S2	G1G2	--	--
<i>Pseudanophthalmus templetoni</i>	A Cave Obligate Beetle Terrestrial cave obligate; Collins River basin.	S1	G1	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
<i>Pseudosinella spinosa</i>	A Cave Obligate Springtail Terrestrial cave obligate; middle and southern Cumberlands.	S2	G5	--	--
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
<i>Toxolasma lividus</i>	Purple Lilliput Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.	S1S2	G2	--	--
Nonvascular Plants: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cololejeunea ornata</i>	Ornate Cololejeunea Sinks & High Humidity Areas On Limestone	S1	G2G4	T	--
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Sreams	S2	G3	S	--
Vascular Plants: 33		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Carex echinata ssp. echinata</i>	Little Prickly Sedge Swamps And Bogs	S1?	G5T5	S	--
<i>Carex hitchcockiana</i>	Hitchcock's Sedge Rich Moist Woods	S1	G5	T	--
<i>Cotinus obovatus</i>	American Smoketree Dry, Circumneutral Soil	S2	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Grundy County . . . Continued

Known Species: 79

Vascular Plants: 33 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry Barrens	S3	G5	T	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Marshallia trinervia</i>	Broad-leaved Barbara's-buttons Rocky Ravines	S2S3	G3	T	--
<i>Melanthium woodii</i>	Ozark Bunchflower Rich Wooded Slopes	S1	G5	E	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Nebeckia aquatica</i>	Lake Cress Gum Or Cypress Swamps	S2	G4?	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Panicum hemitomon</i>	Maidencane Ponds In Barrens	S2	G5?	S	--
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Poa saltuensis</i>	Drooping Bluegrass Rich Oak Woods	S1	G5	T	--
<i>Sparganium androcladum</i>	Branching Bur-reed Slow Flowing Streams And Rivers, Ponds	S1	G4G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Grundy County . . . Continued

Known Species: 79

Vascular Plants: 33 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Talinum teretifolium</i>	Roundleaf Fameflower Dry Sandy Rock Outcrops	S2	G4	T	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Vaccinium macrocarpon</i>	Cranberry Bogs	S2	G4	T	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--
<i>Zigadenus leimanthoides</i>	Death-camas Acidic Wetlands	S2	G4Q	T	--
Vertebrate Animals: 20		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Botaurus lentiginosus</i>	American Bittern Lake and pond edges with plentiful vegetation, and wetlands created by impoundments; rare nester.	S1	G4	--	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma sp. D</i>	Bluemask (Jewel) Darter Streams with slow to moderate current over clean sand and fine gravel; Caney Fork River system (above Great Falls Reservoir).	S1	G1	E	LE
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Fundulus julisia</i>	Barrens Topminnow Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	S1	G1	E	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Grundy County . . . Continued

Known Species: 79

Vertebrate Animals: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Rallus elegans</i>	King Rail Marshes, upland-wetland marsh edges, flooded farmlands, shrub swamps.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex hoyi</i>	American Pygmy Shrew Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.	S2	G5	--	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of Grundy --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hamblen County

Known Species: 14

Invertebrate Animals: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Delophon holti</i>	A Millipede	S1	GNR	--	--
	Terrestrial; moist, wooded sinkholes in karst; northern Ridge & Valley; Hamblen County.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Ventridens coelaxis</i>	Bidentate Dome	S2S3	G3	--	--
	In leaf litter on mountainsides, often at higher elevations; northernmost Blue Ridge and Ridge & Valley.				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
----------------------	---------------	-----	-----	----	----

Vascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Botrychium jenmanii</i>	Alabama Grapefern	S1	G3G4	T	--
	Pine Woods				
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane	S3	G3	T	--
	Rich Woods				
<i>Phlox subulata</i>	Moss Phlox	S1	G5	T	--
	Shaley Slopes				

Vertebrate Animals: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Carpionodes velifer</i>	Highfin Carpsucker	S2S3	G4G5	D	--
	Large rivers, mostly in Tennessee River drainage.				
<i>Erimystax cahni</i>	Slender Chub	S1	G1	T	LT
	Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.				
<i>Etheostoma acuticeps</i>	Sharphead Darter	S2S3	G3	--	--
	Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.				
<i>Percina tanasi</i>	Snail Darter	S2S3	G2G3	T	LT
	Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.				
<i>Synaptomys cooperi</i>	Southern Bog Lemming	S4	G5	D	--
	Marshy meadows, wet balds, & rich upland forests.				

-- End of Hamblen --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hamilton County

Known Species: 69

Invertebrate Animals: 7

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cambarus extraneus</i>	Chickamauga Crayfish Springs & small to medium sized streams under rocks or in vegetation; South Chickamauga Creek watershed, Hamilton County.	S1S2	G2	T	--
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Nesticus furtivus</i>	Crystal Caverns Cave Spider Terrestrial cave obligate, S Cumberlands; Hamilton County; known only from the type locality.	S1	G1	--	--
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.	S1	G1	E	LE
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Stygobromus nortoni</i>	Norton's Cave Amphipod Aquatic cave obligate, from pools; Eastern Highland Rim and Ridge & Valley.	SH	G2G3	--	--

Nonvascular Plants: 4

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Metzgeria uncigera</i>	Metzgeria Bark Of American Holly	S1	G3	S	--
<i>Microlejeunea globosa</i>	Cardot's Lejeunea Creekside Edge Of Rockhouse	S1	G3?	S	--

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 40

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hamilton County . . . Continued

Known Species: 69

Vascular Plants: 40 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Clematis glaucophylla</i>	White-leaved Leatherflower Wooded Stream Banks	S1	G4?	E	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Danthonia epilis</i>	Bog Oat-grass Acidic Seeps	S1S2	G3G4	S	--
<i>Delphinium exaltatum</i>	Tall Larkspur Glades And Barrens	S2	G3	E	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Diervilla sessilifolia var. rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Galium uniflorum</i>	Fragrant Bedstraw Dry Woods	S1	G4G5	S	--
<i>Gelsemium sempervirens</i>	Yellow Jessamine Dry Openings	S1S2	G5	S	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Gratiola floridana</i>	Florida Hedge-hyssop Wooded Swamps	S1	G4	E	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Isotria medeoloides</i>	Small Whorled Pogonia Mid-Elevation Dry Woods	S1	G2	E	LT
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Lonicera flava</i>	Yellow Honeysuckle Rocky Woods And Thickets	S1	G5?	T	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Nestronia umbellula</i>	Nestronia Upland Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hamilton County . . . Continued

Known Species: 69

Vascular Plants: 40 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Ribes curvatum</i>	Granite Gooseberry Rocky Woods	S1	G4	T	--
<i>Sabatia capitata</i>	Cumberland Rose Gentian Dry Open Woods, Powerlines	S2	G2	E	--
<i>Sacciolepis striata</i>	Gibbous Panic-grass Floodplains And Shallow Pools	S1	G5	S	--
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead Swamps, Emergent	S2S3	G5	S	--
<i>Scutellaria montana</i>	Large-flowered Skullcap Escarpments, Dry Woods	S2	G3	T	LT
<i>Silphium laciniatum</i>	Compass Plant Barrens	S2	G5	T	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Stylisma humistrata</i>	Southern Morning-glory Dry Piney Woods	S1	G4G5	T	--
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Talinum teretifolium</i>	Roundleaf Fameflower Dry Sandy Rock Outcrops	S2	G4	T	--
<i>Thermopsis mollis</i>	Allegheny Mountain golden banner Upland Woods	S2S3	G3G4	S	--
<i>Trillium lancifolium</i>	Narrow-leaved Trillium Alluvial Woods And Moist Ravines	S1	G3	E	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Viola tripartita</i> var. <i>tripartita</i>	Three-parted Violet Wooded Slopes	S2S3	G5T3	S	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--

Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Hamilton County . . . Continued

Known Species: 69

Vertebrate Animals: 17 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander	S3S4	G3G4	--	--
	Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.				
<i>Carpionodes velifer</i>	Highfin Carpsucker	S2S3	G4G5	D	--
	Large rivers, mostly in Tennessee River drainage.				
<i>Falco peregrinus</i>	Peregrine Falcon	S1B	G4	E	No Status
	Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.				
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander	S2	G2G3	T	--
	Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.				
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
	Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.				
<i>Ixobrychus exilis</i>	Least Bittern	S2B	G5	D	--
	Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.				
<i>Limnithlypis swainsonii</i>	Swainson's Warbler	S3	G4	D	--
	Mature, rich, damp, deciduous floodplain and swamp forests.				
<i>Neotoma magister</i>	Allegheny Woodrat	S3	G3G4	D	--
	Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.				
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard	S3	G5T5	D	--
	Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.				
<i>Percina tanasi</i>	Snail Darter	S2S3	G2G3	T	LT
	Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.				
<i>Rallus elegans</i>	King Rail	S2	G4	D	--
	Marshes, upland-wetland marsh edges, flooded farmlands, shrub swamps.				
<i>Sorex fumeus</i>	Smoky Shrew	S4	G5	D	--
	Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.				
<i>Sorex longirostris</i>	Southeastern Shrew	S4	G5	D	--
	Various habitats including wet meadows, damp woods, and uplands; statewide.				
<i>Thryomanes bewickii</i>	Bewick's Wren	S1	G5	E	--
	Brushy areas, thickets and scrub in open country, open and riparian woodland.				
<i>Tyto alba</i>	Barn Owl	S3	G5	D	--
	Open and partly open country, often around human habitation; farms.				

-- End of Hamilton --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hancock County

Known Species: 51

Invertebrate Animals: 27

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Epioblasma triquetra</i>	Snuffbox	S3	G3	--	--
	Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.				
<i>Fusconaia cor</i>	Shiny Pigtoe	S1	G1	E	LE
	Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Hemistena lata</i>	Cracking Pearlymussel	S1	G1	E	LE
	Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	S1	G1	E	LE
	Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.				
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel	S2	G2	--	C
	Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.				
<i>Ligidium elrodii hancockensis</i>	A Cave Obligate Isopod	S1?	G4G5T1T2	--	--
	Terrestrial cave obligate; in wet organic debris; northern Ridge & Valley.				
<i>Nesticus paynei</i>	A Cave Spider	S3	G3G4	--	--
	Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.				
<i>Obovaria subrotunda</i>	Round Hickorynut	S2S3	G4	--	--
	Medium-large rivers in sand and gravel subst with moderate flow; TN & Cumb rivers; also Red River in Robertson Co., W Highland Rim.				
<i>Plethobasus cyphus</i>	Sheepnose	S2S3	G3	--	C
	Large to medium-sized rivers, in riffles and coarse sand/gravel subst; TN & Cumb river systems incl KY Reservoir; W Uplands & Rim.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hancock County . . . Continued

Known Species: 51

Invertebrate Animals: 27 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pleurobema plenum</i>	Rough Pigtoe Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Pleurobema rubrum</i>	Pyramid Pigtoe Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.	S1S2	G2G3	--	--
<i>Pseudanophthalmus longiceps</i>	Long-headed Cave Beetle Terrestrial cave obligate; Ridge & Valley.	S1	G1G2	--	--
<i>Pseudanophthalmus rotundatus</i>	A Ground Beetle Terrestrial cave obligate; northern Ridge & Valley.	S2	G2G3	--	--
<i>Ptychobranthus subtentum</i>	Fluted Kidneyshell Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	S2	G2	--	C
<i>Quadrula cylindrica strigillata</i>	Rough Rabbitsfoot Small-medium sized rivers, in clear, shallow riffles with sand-gravel substrates; Tenn. & Cumb. river systems; upland form.	S2	G3G4T2	E	LE
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Quadrula sparsa</i>	Appalachian Monkeyface Headwater sections of rivers in shallow riffles/runs with sand-gravel substrate & moderate current; upper Tennessee River drainage.	S1	G1	E	LE
<i>Villosa perpurpurea</i>	Purple Bean Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.	S1	G1	E	LE
Vascular Plants: 8		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Meehanian cordata</i>	Heartleaf Meehanian Wooded Mountain Slopes	S2	G5	T	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hancock County . . . Continued

Known Species: 51

Vascular Plants: 8 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
Vertebrate Animals: 16		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Erimystax cahni</i>	Slender Chub Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.	S1	G1	T	LT
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma denoncourti</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Etheostoma tippecanoe</i>	Tippecanoe Darter Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.	S1S2	G3G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus flavipinnis</i>	Yellowfin Madtom Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	S1	G1	E	LT,XN
<i>Noturus stanauli</i>	Pygmy Madtom Medium to large rivers with moderate to strong current over gravel substrates; Tennessee River watershed.	S1	G1	E	LE
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--

-- End of Hancock --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hardeman County Known Species: 18

Invertebrate Animals: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Fallicambarus horton</i>	Hatchie Burrowing Crayfish Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.	S1	G1	E	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 3		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ceratophyllum echinatum</i>	Prickly Hornwort Slow Moving Streams	S1	G4?	S	--
<i>Magnolia virginiana</i>	Sweetbay Magnolia Forested Acidic Wetlands	S2	G5	T	--
<i>Symplocos tinctoria</i>	Horse-sugar Floodplains And Moist Ravines	S2	G5	S	--
Vertebrate Animals: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammocrypta beani</i>	Naked Sand Darter Shifting sand bottoms & sandy runs; Hatchie River & larger tribs.	S2	G5	D	--
<i>Ammocrypta vivax</i>	Scaly Sand Darter Small to medium rivers with sandy substrate; Hatchie & Buffalo rivers.	S2	G5	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Noturus gladiator</i>	Piebald Madtom Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	S3	G3	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Hardeman County . . . Continued

Known Species: 18

Vertebrate Animals: 13 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Hardeman --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hardin County

Known Species: 43

Invertebrate Animals: 13

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Hemistena lata</i>	Cracking Pearlmussel	S1	G1	E	LE
	Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Lithasia salebrosa</i>	Muddy Rocksnail	S2	G3G4Q	--	--
	Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.				
<i>Obovaria retusa</i>	Ring Pink	S1	G1	E	LE
	Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.				
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail	S2	G3	--	--
	Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.				
<i>Orconectes wrighti</i>	Hardin Crayfish	S2	G2	E	--
	Small-medium sized streams with cobble-sand substrates, under rocks or in leaf litter; western tribs of the Tennessee River in Hardin & McNairy counties.				
<i>Plethobasus cicatricosus</i>	White Wartyback	S1	G1	E	LE
	Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema clava</i>	Clubshell	SH	G2	E	LE
	Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	S3	G3G4T3	--	--
	Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
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Vascular Plants: 12

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Acmella oppositifolia</i>	Creeping Spot-flower	S3	G5	S	--
	Swamps And Wetlands				



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Hardin County . . . Continued

Known Species: 43

Vascular Plants: 12 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex lacustris</i>	Lake-bank Sedge Alluvial Woods	S1	G5	T	--
<i>Didiplis diandra</i>	Water-purslane Swamps	S1	G5	T	--
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Iris brevicaulis</i>	Lamance Iris Bottomlands	S1	G4	E	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Melanthium virginicum</i>	Virginia Bunchflower Wet Woods And Fields	S1	G5	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Salvia azurea</i> var. <i>grandiflora</i>	Blue Sage Barrens	S3	G4G5T4?	S	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Egretta caerulea</i>	Little Blue Heron Bodies of calm shallow water; colonial nester.	S2B,S3N	G5	D	--
<i>Etheostoma tuscumbia</i>	Tuscumbia Darter Ponded spring-fed habitats of valley floor springs; lower Tennessee River; probably extirpated from TN.	SX	G2	D	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hardin County . . . Continued

Known Species: 43

Vertebrate Animals: 17 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Hardin --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hawkins County

Known Species: 41

Invertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Fusconaia cor</i>	Shiny Pigtoe	S1	G1	E	LE
	Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	S1	G1	E	LE
	Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.				
<i>Nesticus tennesseensis</i>	Tennessee cave spider	S2S4	G3G4	--	--
	Terrestrial cave associate or possibly obligate; east Tennessee.				
<i>Pseudanophthalmus paradoxus</i>	Ridgetop Cave Beetle	S1	G1	--	--
	Terrestrial cave obligate; northern Ridge & Valley.				
<i>Quadrula intermedia</i>	Cumberland Monkeyface	S1	G1	E	LE
	Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.				
<i>Villosa perpurpurea</i>	Purple Bean	S1	G1	E	LE
	Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.				
<i>Villosa trabalis</i>	Cumberland Bean	S1	G1	E	LE
	Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
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Vascular Plants: 12

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Berberis canadensis</i>	American Barberry	S2	G3	S	--
	Rocky Woods And River Bars				
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane	S3	G3	T	--
	Rich Woods				
<i>Cypripedium acaule</i>	Pink Lady's-slipper	S4	G5	S-CE	--
	Piney Woods				
<i>Draba ramosissima</i>	Branching Whitlow-grass	S2	G4	S	--
	Calcareous Bluffs				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Leucothoe racemosa</i>	Fetter-bush	S2	G5	T	--
	Acidic Wetlands And Swamps				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hawkins County . . . Continued

Known Species: 41

Vascular Plants: 12 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Paxistima canbyi</i>	Canby's Mountain-lover Rocky, Mountain Woods	S1	G2	E	--
<i>Pieris floribunda</i>	Mountain Fetter-bush Heath Thickets	S2	G4	T	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
Vertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Erimystax cahni</i>	Slender Chub Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.	S1	G1	T	LT
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Hawkins County . . . Continued

Known Species: 41

Vertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Passerculus sandwichensis</i>	Savannah Sparrow Grassland habitats, away from cultivated fields and fence lines; reported from Ridge & Valley and Western Highland Rim.	S1B,S4N	G5	--	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Hawkins --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Haywood County

Known Species: 16

Invertebrate Animals: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Obovaria jacksoniana

Southern Hickorynut

S1

G2

--

--

Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.

Villosa vibex

Southern Rainbow

S2

G5Q

--

--

Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.

Vascular Plants: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acmella oppositifolia

Creeping Spot-flower

S3

G5

S

--

Swamps And Wetlands

Agalinis heterophylla

Prairie False-foxglove

S1

G4G5

T

--

Barrens

Carex reniformis

Reniform Sedge

S1

G4?

S

--

Rich Bottomland Woods

Ceratophyllum echinatum

Prickly Hornwort

S1

G4?

S

--

Slow Moving Streams

Ulmus crassifolia

Cedar Elm

S2

G5

S

--

Swamps

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Ammocrypta beani

Naked Sand Darter

S2

G5

D

--

Shifting sand bottoms & sandy runs; Hatchie River & larger tribs.

Corynorhinus rafinesquii

Rafinesque's Big-eared Bat

S3

G3G4

D

--

Caves, hollow trees, abandoned buildings; often associated with forested areas.

Cycleptus elongatus

Blue Sucker

S2

G3G4

T

--

Swift waters over firm substrates in big rivers.

Dendroica cerulea

Cerulean Warbler

S3B

G4

D

--

Mature deciduous forest, particularly in floodplains or mesic conditions.

Limnothlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

Neotoma floridana illinoensis

Eastern Woodrat

S3

G5T5

D

--

Forested areas, caves & outcrops; west Tennessee generally.

Noturus gladiator

Piebald Madtom

S3

G3

D

--

Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Thryomanes bewickii

Bewick's Wren

S1

G5

E

--

Brushy areas, thickets and scrub in open country, open and riparian woodland.

-- End of Haywood --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Henderson County

Known Species: 14

Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Fuirena squarrosa</i>	Hairy Umbrella-sedge Stream And Lake Margins	S1	G4G5	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pilularia americana</i>	American Pillwort Lake Drawdown Zones	S1S2	G5	S	--
Vertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma pyrrhogaster</i>	Firebelly Darter Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.	S2	G2G3	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Plestiodon anthracinus</i>	Coal Skink Humid wooded areas with abundant leaf litter and loose rocks; vicinity of springs, swamps, and bogs; spotty distribution.	S1	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Henderson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Henry County

Known Species: 18

Invertebrate Animals: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Orconectes burri

Blood River Crayfish

S1

G1

--

--

In woody debris or leaf piles, small-medium sized streams with sand-gravel substrates; Blood River drainage (TN River), Henry County.

Orconectes taylori

Crescent crayfish

S2

G2

--

--

Found among woody debris & tree roots; small-med size tribs of N Fk Obion River with slow-mod current; Henry County.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Bolboschoenus fluviatilis

River Bulrush

S1

G5

S

--

Marshes

Carex reniformis

Reniform Sedge

S1

G4?

S

--

Rich Bottomland Woods

Didiplis diandra

Water-purslane

S1

G5

T

--

Swamps

Heteranthera limosa

Blue Mud-plantain

S1S2

G5

T

--

Mud Flats

Isoetes melanopoda

Blackfoot Quillwort

S1S2

G5

E

--

Wet Fields

Myriophyllum pinnatum

Cutleaf Water-milfoil

S1

G5

T

--

Acidic Wetland And Ponds

Polygonum arifolium

Halberd-leaf Tearthumb

S1

G5

T

--

Wetlands And Marshes

Salvia azurea var. *grandiflora*

Blue Sage

S3

G4G5T4?

S

--

Barrens

Silphium laciniatum

Compass Plant

S2

G5

T

--

Barrens

Vertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Atractosteus spatula

Alligator Gar

S1

G3G4

D

--

Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.

Chondestes grammacus

Lark Sparrow

S1B

G5

T

--

Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.

Etheostoma pyrrhogaster

Firebelly Darter

S2

G2G3

D

--

Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Henry County . . . Continued

Known Species: 18

Vertebrate Animals: 6 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Macrochelys temminckii

Alligator Snapping Turtle

S2S3

G3G4

D

--

Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.

Noturus gladiator

Piebald Madtom

S3

G3

D

--

Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

*Pituophis melanoleucus
melanoleucus*

Northern Pinesnake

S3

G4T4

T

--

Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.

-- End of Henry --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hickman County

Known Species: 36

Invertebrate Animals: 6		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.	S2	G3	--	--
<i>Pseudanophthalmus occidentalis</i>	Western Cave Beetle Terrestrial cave obligate; Western Highland Rim.	S1	G1G2	--	--
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3	G3G4T3	--	--
Vascular Plants: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Carex hirtifolia</i>	Pubescent Sedge Lowland Forests	S1S2	G5	S	--
<i>Carex oxylepis var. pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Cerastium velutinum var. velutinum</i>	Velvety Cerastium Bluffs	S1	G5T4?	E	--
<i>Collinsia verna</i>	Spring Blue-eyed Mary Rich Wet-Mesic Woods	S1	G5	E	--
<i>Elymus svensonii</i>	Svenson's Wild-rye Rocky Bluffs	S2	G3	E	--
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Melanthium woodii</i>	Ozark Bunchflower Rich Wooded Slopes	S1	G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hickman County . . . Continued

Known Species: 36

Vascular Plants: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--
Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma pseudovulatum</i>	Egg-mimic Darter Small to medium sized, gravelly, cool, spring-fed streams; lower Duck River watershed.	S1	G1	E	--
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Noturus stanauli</i>	Pygmy Madtom Medium to large rivers with moderate to strong current over gravel substrates; Tennessee River watershed.	S1	G1	E	LE
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Hickman County . . . Continued

Known Species: 36

Vertebrate Animals: 15 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Hickman --

Houston County

Known Species: 7

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Ophiogomphus acuminatus

Acuminate Snaketail

S2

G3

--

--

Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Vitis rupestris

Sand Grape

S1

G3

E

--

Sandy, Rocky Riverbanks

Vertebrate Animals: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Egretta caerulea

Little Blue Heron

S2B,S3N

G5

D

--

Bodies of calm shallow water; colonial nester.

Macrochelys temminckii

Alligator Snapping Turtle

S2S3

G3G4

D

--

Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.

Myotis grisescens

Gray Myotis

S2

G3

E

LE

Cave obligate year-round; frequents forested areas; migratory.

Pituophis melanoleucus melanoleucus

Northern Pinesnake

S3

G4T4

T

--

Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.

-- End of Houston --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Humphreys County

Known Species: 45

Invertebrate Animals: 10

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cumberlandia monodonta</i>	Spectaclecase Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.	S2S3	G3	--	C
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Obovaria retusa</i>	Ring Pink Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.	S1	G1	E	LE
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.	S1	G1	E	LE
<i>Pleurobema clava</i>	Clubshell Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.	SH	G2	E	LE
<i>Pleurobema plenum</i>	Rough Pigtoe Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3	G3G4T3	--	--
<i>Simpsonaias ambigua</i>	Salamander Mussel In sand or silt under large, flat stones in areas of swift current; occurred historically in E Fk Stones R; 2005 obs in lower Duck R.	S1	G3	--	--

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 15

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Arabis shortii</i>	Short's Rock-cress Wooded Bluffs & Floodplains	S1S2	G5	S	--
<i>Bolboschoenus fluviatilis</i>	River Bulrush Marshes	S1	G5	S	--
<i>Carex hirtifolia</i>	Pubescent Sedge Lowland Forests	S1S2	G5	S	--
<i>Carex reniformis</i>	Reniform Sedge Rich Bottomland Woods	S1	G4?	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Humphreys County . . . Continued

Known Species: 45

Vascular Plants: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Echinochloa walteri</i>	Walter's Barnyard Grass Bottomlands And Marshes	S1	G5	S	--
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain Alluvial Woods, Moist Slopes	S2	G4	T	--
<i>Heteranthera limosa</i>	Blue Mud-plantain Mud Flats	S1S2	G5	T	--
<i>Iris brevicaulis</i>	Lamance Iris Bottomlands	S1	G4	E	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root Barrens And Dry Woodlands	S2	G3	S	--
<i>Pseudognaphalium helleri</i>	Heller's Catfoot Dry Sandy Woods	S2	G4G5	S	--
<i>Sagittaria brevirostra</i>	Short-beaked Arrowhead Swamps And Floodplains	S1	G5	T	--
<i>Spiranthes odorata</i>	Sweetscent Ladies'-tresses Swamps, Pond Margins	S1	G5	E	--
Vertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anhinga anhinga</i>	Anhinga Swamps, lakes, and sluggish streams at low elevations.	S1B	G5	D	--
<i>Ardea alba</i>	Great Egret Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	S2B,S3N	G5	D	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma denoncourtii</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Humphreys County . . . Continued

Known Species: 45

Vertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.					
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	S2S3	G3G4	D	--
Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.					
<i>Neotoma magister</i>	Allegheny Woodrat	S3	G3G4	D	--
Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.					
<i>Noturus fasciatus</i>	Saddled Madtom	S2	G2	T	--
Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.					
<i>Noturus stanauli</i>	Pygmy Madtom	S1	G1	E	LE
Medium to large rivers with moderate to strong current over gravel substrates; Tennessee River watershed.					
<i>Percina burtoni</i>	Blotchside Logperch	S2	G2G3	D	--
Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.					
<i>Percina phoxocephala</i>	Slenderhead Darter	S3	G5	D	--
Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.					
<i>Pituophis melanoleucus melanoleucus</i>	Northern Pinesnake	S3	G4T4	T	--
Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.					
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake	S2S3	G5T5	T	--
Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.					
<i>Sorex longirostris</i>	Southeastern Shrew	S4	G5	D	--
Various habitats including wet meadows, damp woods, and uplands; statewide.					
<i>Thryomanes bewickii</i>	Bewick's Wren	S1	G5	E	--
Brushy areas, thickets and scrub in open country, open and riparian woodland.					
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Humphreys --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Jackson County

Known Species: 21

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cambarincola marthae</i>	A Cave Obligate Worm	S1	G1G2	--	--
	Aquatic cave obligate; isopod parasite; northern Central Basin abutting Eastern Highland Rim.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Orconectes incomptus</i>	Tennessee Cave Crayfish	S1	G1	E	--
	Aquatic cave obligate; subterranean streams & shallow pools; lower-elevation caves of Highland Rim escarp; Cumb River watershed.				
<i>Pseudanophthalmus simplex</i>	Simple Cave Beetle	S1S2	G1G2	--	--
	Terrestrial cave obligate; northern Eastern Highland Rim.				
<i>Pseudotremia lethe</i>	A Cave Obligate Millipede	S1	G1	--	--
	Terrestrial cave obligate; wet caves of northern Central Basin abutting Eastern Highland Rim; Jackson County.				
<i>Sagittocythere barri</i>	Ectocommensal Ostracod	S3	G5	--	--
	Aquatic cave obligate; crayfish commensal.				

Vascular Plants: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Carex gravida</i>	Heavy Sedge	S1	G5	S	--
	Rocky River Bluffs				
<i>Carex hitchcockiana</i>	Hitchcock's Sedge	S1	G5	T	--
	Rich Moist Woods				
<i>Castanea dentata</i>	American Chestnut	S2S3	G4	S	--
	Mesic To Dry Forests				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Lesquerella globosa</i>	Short's Bladderpod	S2	G2	E	C
	Limestone Talus Slopes And Cliffs				
<i>Lonicera dioica</i>	Mountain Honeysuckle	S2	G5	S	--
	Mountain Woods And Thickets				

Vertebrate Animals: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Ambystoma barbouri</i>	Streamside Salamander	S2	G4	D	--
	Seasonally ephemeral karst streams; middle Tennessee.				
<i>Aquila chrysaetos</i>	Golden Eagle	S1	G5	T	--
	Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.				
<i>Crystallaria asprella</i>	Crystal Darter	SX	G3	D	--
	Small to medium rivers with expanses of clean sand and gravel; Cumberland River watershed.				



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Jackson County . . . Continued

Known Species: 21

Vertebrate Animals: 8 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Etheostoma cinereum</i>	Ashy Darter	S2S3	G2G3	T	--
Small to medium upland rivers with bedrock or gravel substrate and boulders.					
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.					
<i>Myotis grisescens</i>	Gray Myotis	S2	G3	E	LE
Cave obligate year-round; frequents forested areas; migratory.					
<i>Neotoma magister</i>	Allegheny Woodrat	S3	G3G4	D	--
Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.					
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Jackson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Jefferson County

Known Species: 14

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cumberlandia monodonta

Spectaclecase

S2S3

G3

--

C

Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.

Dromus dromas

Dromedary Pearlymussel

S1

G1

E

LE

Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.

Fusconaia cor

Shiny Pigtoe

S1

G1

E

LE

Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.

Io fluvialis

Spiny Riversnail

S2

G2

--

--

Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.

Lampsilis abrupta

Pink Mucket

S2

G2

E

LE

Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.

Plethobasus cicatricosus

White Wartyback

S1

G1

E

LE

Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.

Nonvascular Plants: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Archidium alternifolium

S1

G4G5

T

--

Limestone Barrens

Vascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Arabis patens

Spreading Rockcress

S1

G3

E

--

Moist Rocky Woods

Cimicifuga rubifolia

Appalachian Bugbane

S3

G3

T

--

Rich Woods

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Vertebrate Animals: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cycleptus elongatus

Blue Sucker

S2

G3G4

T

--

Swift waters over firm substrates in big rivers.

Haliaeetus leucocephalus

Bald Eagle

S3

G5

D

--

Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.

Myotis grisescens

Gray Myotis

S2

G3

E

LE

Cave obligate year-round; frequents forested areas; migratory.

Myotis sodalis

Indiana Myotis

S1

G2

E

LE

Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.

-- End of Jefferson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Johnson County

Known Species: 111

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

*Southern and Central
Appalachian Bog and Fen*

Southern and Central Appalachian
Bog and Fen

S2

GNR

--

--

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Anguispira jessica

Mountain Disc

S3

G3G4

--

--

Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood;
Roan Mountain & Mt. Le Conte.

Mesomphix rugeli

Wrinkled Button

S3

G4

--

--

Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.

Speyeria diana

Diana Fritillary

S3

G3G4

--

--

Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge &
Cumberland Plateau generally.

Stenotrema altispira

Highland Slitmouth

S2?

G3

--

--

Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central
& N Blue Ridge; northeast Tennessee.

Ventridens coelaxis

Bidentate Dome

S2S3

G3

--

--

In leaf litter on mountainsides, often at higher elevations; northernmost Blue Ridge and
Ridge & Valley.

Ventridens decussatus

Crossed Dome

S2?

G3

--

--

In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.

Vascular Plants: 80

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Abies fraseri

Fraser Fir

S1S2

G2

T

--

Forests Above 5500 Ft

Adlumia fungosa

Climbing Fumitory

S2

G4

T

--

Rich Mesic Woods

Asplenium scolopendrium var.
americanum

Hart's-tongue Fern

S1

G4T3

E

LT

Sinks

Berberis canadensis

American Barberry

S2

G3

S

--

Rocky Woods And River Bars

Botrychium matricariifolium

Chamomile Grapefern

S1

G5

S

--

Mountain Woods And Thickets

Caltha palustris

Marsh Marigold

S1

G5

E

--

Bogs

Campanula aparinoides

Marsh Bellflower

S2

G5

S

--

Bogs

Cardamine clematidis

Mountain Bittercress

S2

G3

T

--

High Elevation Seeps

Cardamine rotundifolia

Round-leaf Watercress

S2S3

G4

S

--

Mucky Wetlands And Seeps

Carex echinata ssp. *echinata*

Little Prickly Sedge

S1?

G5T5

S

--

Swamps And Bogs



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Johnson County . . . Continued

Known Species: 111

Vascular Plants: 80 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex folliculata</i>	northern long sedge Wet Soils	S1	G4G5	S	--
<i>Carex hitchcockiana</i>	Hitchcock's Sedge Rich Moist Woods	S1	G5	T	--
<i>Carex roanensis</i>	Roan Mountain Sedge Mid-Elevation Woodlands	S2	G3	E	--
<i>Clintonia borealis</i>	Clinton's Lily High Elevation Mesic Forests	S2S3	G5	S	--
<i>Coeloglossum viride var. virescens</i>	Long-bracted Green Orchis Wet Woods And Seeps	S1	G5T5	E	--
<i>Corydalis sempervirens</i>	Pale Corydalis Dry Or Rocky Woods	S1S2	G4G5	E	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Cypripedium reginae</i>	Showy Lady's-slipper Calcareous Rocky Slopes	S1	G4	E	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Drosera rotundifolia</i>	Roundleaf Sundew Bogs & Seeps	S1	G5	T	--
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern Bogs	S1	G5	T	--
<i>Dryopteris cristata</i>	Crested Shield-fern Bogs	S2	G5	T	--
<i>Epilobium ciliatum</i>	Hairy Willow-herb Mountain Balds	S1	G5	T	--
<i>Epilobium leptophyllum</i>	Linear-leaved Willow-herb Mountain Bogs And Marshes	S1	G5	T	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Galium asprellum</i>	Rough Bedstraw Spring-Fed Swamps	S1	G5	S	--
<i>Galium palustre</i>	Marsh Bedstraw Low Ground, Meadows, Swampy Hollows	S1	G5	S	--
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--
<i>Geum aleppicum</i>	Yellow Avens Wet Meadows, Bogs	S1	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Johnson County . . . Continued

Known Species: 111

Vascular Plants: 80 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Glyceria laxa</i>	Northern Mannagrass Bogs And Wet Areas	S1	G5TUQ	S	--
<i>Goodyera repens</i>	Dwarf Rattlesnake-plantain Moist Conifer/Rhododendron Woods	S1	G5	S	--
<i>Helianthus glaucophyllus</i>	White-leaved Sunflower Dry Open Woods	S1	G3	T	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Hexastylis virginica</i>	Virginia Heartleaf Sandy Or Rocky Woods	S2	G4	S	--
<i>Hieracium scabrum</i>	Rough Hawkweed Dry Open Woods And Pastures	S2	G5	T	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hypericum ellipticum</i>	Pale St. John's-wort Bogs	S1	G5	E	--
<i>Hypericum graveolens</i>	Mountain St. John's-wort Boggy Woods And River Banks	S3	G3	E	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Kalmia angustifolia</i> var. <i>carolina</i>	Lambkill Bogs	SX	G5T4	E-P	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Lysimachia terrestris</i>	Swamp Loosestrife Wet Prairies And Swamps	S1	G5	E	--
<i>Meehania cordata</i>	Heartleaf Meehania Wooded Mountain Slopes	S2	G5	T	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Minuartia godfreyi</i>	Godfrey's Stitchwort Wet Meadows And Marshes	S1	G1	E	--
<i>Oenothera parviflora</i>	Northern Evening-primrose Disturbed Open Areas	S1	G4?	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Johnson County . . . Continued

Known Species: 111

Vascular Plants: 80 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Phegopteris connectilis</i>	Northern Beechfern Mountain Bogs And Rocky Seeps	S1	G5	S	--
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid Wet Meadows And Open Woods	S2	G5	E	--
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Polygonum arifolium</i>	Halberd-leaf Tearthumb Wetlands And Marshes	S1	G5	T	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potentilla tridentata</i>	Three-toothed Cinquefoil High Elevation Openings	S1S2	G5	S	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Pyrola americana</i>	American Wintergreen Moist Woods And Bogs	S2	G5	E	--
<i>Rhynchospora alba</i>	White Beakrush Bogs	SH	G5	E-P	--
<i>Sanguisorba canadensis</i>	Canada Burnet Bogs, Seeps, And Wet Meadows	S1	G5	E	--
<i>Saxifraga caroliniana</i>	Carolina Saxifrage Seepage Slopes And Wet Cliffs	S1S2	G3	E	--
<i>Saxifraga pensylvanica</i>	Swamp Saxifrage Marshes And Wet Meadows	S1	G5	E	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Sparganium androcladum</i>	Branching Bur-reed Slow Flowing Streams And Rivers, Ponds	S1	G4G5	E	--
<i>Spiraea alba</i>	Narrow-leaved Meadow-sweet Bogs	S1	G5	E	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Streptopus roseus</i>	Rosy Twisted-stalk Rich, Moist Mountain Woods	S2	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Johnson County . . . Continued

Known Species: 111

Vascular Plants: 80 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Symphyotrichum praealtum</i>	Willow Aster Moist Prairies And Marshes	S1	G5	E	--
<i>Symplocarpus foetidus</i>	Skunk-cabbage Swamps And Bogs	S1	G5	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Triadenum fraseri</i>	Marsh St. John's-wort Mountain Bogs/Wetlands	S1?	G5	S	--
<i>Tsuga caroliniana</i>	Carolina Hemlock Dry Ridges	S3	G3	T	--
<i>Vaccinium macrocarpon</i>	Cranberry Bogs	S2	G4	T	--
<i>Veronica americana</i>	American Speedwell Marshes And Bogs	S1	G5	S	--
<i>Veronica scutellata</i>	Marsh-speedwell Marshes And Pond Margins	S1	G5	E	--
<i>Woodsia scopulina ssp. appalachiana</i>	Alleghany Cliff-fern Mountain Cliffs	S1S2	G4T4	S	--
<i>Zigadenus glaucus</i>	White Camas Wet Shaley Cliffs	S1	G4G5	E	--

Vertebrate Animals: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ardea alba</i>	Great Egret Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	S2B,S3N	G5	D	--
<i>Condylura cristata</i>	Star-nosed Mole Hydic soils in beech-maple-birch forests at higher elevations in the Appalachians.	S2	G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Empidonax alnorum</i>	Alder Flycatcher Alder thickets adj. balds, forest edge, boggy meadows; higher elevations of Southern Blue Ridge.	S1	G5	--	--
<i>Glyptemys muhlenbergii</i>	Bog Turtle Muck-bottomed bogs, fens, marshy/sedge-tussock meadows, spring seeps, wet pastures, and shrub swamps; Appalachians.	S1	G3	T	SAT
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Johnson County . . . Continued

Known Species: 111

Vertebrate Animals: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Plethodon welleri</i>	Weller's Salamander Rich woods under downed logs, rocks, leaf litter; spruce-fir, birch-hemlock, and primarily deciduous forests of NE Blue Ridge.	S2	G3	D	--
<i>Pooecetes gramineus</i>	Vesper Sparrow Balds, old pastures; ground nester.	S1B,S4N	G5	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.	S1B,S4N	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Johnson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Knox County

Known Species: 58

Invertebrate Animals: 10

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Athearnia anthonyi</i>	Anthony Riversnail Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.	S1	G1	E	LE,XN
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Io fluvialis</i>	Spiny Riversnail Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	S2	G2	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Lemiox rimosus</i>	Birdwing Pearlymussel Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.	S1	G1	E	LE
<i>Nesticus paynei</i>	A Cave Spider Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.	S3	G3G4	--	--
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.	S1	G1	E	LE
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE

Nonvascular Plants: 5

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Archidium alternifolium</i>	Limestone Barrens	S1	G4G5	T	--
<i>Funaria americana</i>	Limestone Bluffs And Barrens	S1?	G3?	T	--
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus Calcareous Or Dolomite Bluffs	S1	G3?	E	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Sreams	S2	G3	S	--
<i>Rhachithecium perpusillum</i>	Budding Tortula Bark Of Hardwoods	SH	G4G5	S	--

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Knox County . . . Continued

Known Species: 58

Vascular Plants: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Arabis patens</i>	Spreading Rockcress Moist Rocky Woods	S1	G3	E	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Cardamine flagellifera</i>	Running Bittercress Mountain Stream Banks	S2	G3	T	--
<i>Carex alopecoidea</i>	Foxtail Sedge Wet Meadows And Swamps	SH	G5	E-P	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Delphinium exaltatum</i>	Tall Larkspur Glades And Barrens	S2	G3	E	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lathyrus palustris</i>	Marsh Pea Wet Woods & Marshes	S1	G5	S	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Onosmodium hispidissimum</i>	Shaggy False Gromwell Dry Woods	S1	G4	E	--
<i>Onosmodium molle ssp. occidentale</i>	Western False Gromwell Glades	S1S2	G4G5T4?	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



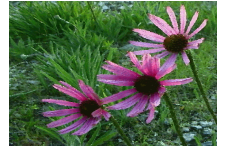
Knox County . . . Continued

Known Species: 58

Vascular Plants: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot Ponds And Marshes	S2	G5	T	--
<i>Ruellia purshiana</i>	Pursh's Wild-petunia Dry Woods	S1S2	G3	S	--
<i>Silene regia</i>	Royal Catchfly Rocky Openings And Thickets	SH	G3	E-P	--
<i>Spiranthes odorata</i>	Sweetscent Ladies'-tresses Swamps, Pond Margins	S1	G5	E	--
<i>Tetragonotheca helianthoides</i>	Pineland Squarehead Dry Open Woods	SH	G5	E-P	--
Vertebrate Animals: 18		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Gallinula chloropus</i>	Common Moorhen Marshes, quiet rivers, lakes and ponds; nests among marsh plants over water; infrequently flies.	S1B	G5	D	No Status
<i>Gyrinophilus gulolineatus</i>	Berry Cave Salamander Aquatic cave obligate; Ridge & Valley; formerly included with <i>G. pallescens</i> .	S1	G1Q	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Noturus flavipinnis</i>	Yellowfin Madtom Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.	S1	G1	E	LT,XN



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Knox County . . . Continued

Known Species: 58

Vertebrate Animals: 18 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Knox --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lake County

Known Species: 26

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Webbhelix multilineata

Striped Whitelip

S2

G5

--

--

Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acmella oppositifolia

Creeping Spot-flower

S3

G5

S

--

Swamps And Wetlands

Carex comosa

Bristly Sedge

S2

G5

T

--

Swamps

Elodea nuttallii

Nuttall's Waterweed

S2

G5

S

--

Aquatic; Streams And Ponds

Hottonia inflata

Featherfoil

S2

G4

S

--

Wet Sloughs And Ditches

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Neobeckia aquatica

Lake Cress

S2

G4?

S

--

Gum Or Cypress Swamps

Phacelia ranunculacea

Blue Scorpion-weed

S2S3

G4

S

--

Alluvial Woods

Ranunculus flabellaris

Yellow Water-crowfoot

S2

G5

T

--

Ponds And Marshes

Sagittaria platyphylla

Ovate-leaved Arrowhead

S2S3

G5

S

--

Swamps, Emmergent

Vertebrate Animals: 15

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Anhinga anhinga

Anhinga

S1B

G5

D

--

Swamps, lakes, and sluggish streams at low elevations.

Ardea alba

Great Egret

S2B,S3N

G5

D

--

Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.

Atractosteus spatula

Alligator Gar

S1

G3G4

D

--

Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.

Chondestes grammacus

Lark Sparrow

S1B

G5

T

--

Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.

Fundulus chrysotus

Golden Topminnow

S1S2

G5

D

--

Swamps, backwaters, and pools of ditches and slow-moving creeks; Reelfoot Lake & imm. vicinity.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lake County . . . Continued

Known Species: 26

Vertebrate Animals: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.					
<i>Ictinia mississippiensis</i>	Mississippi Kite	S2S3	G5	D	--
Undisturbed stands of lowland and floodplain forests and along major rivers.					
<i>Ixobrychus exilis</i>	Least Bittern	S2B	G5	D	--
Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.					
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S3	G4	D	--
Mature, rich, damp, deciduous floodplain and swamp forests.					
<i>Macrhybopsis meeki</i>	Sicklefin Chub	S2	G3	D	--
Main channel of the Mississippi River in swift currents over sand and gravel substrates.					
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake	S2	G5	D	--
Marshes, swamps, bayous, shallow lakes and ponds, wet prairies, oxbows and floodplain sloughs; far west Tennessee.					
<i>Sorex longirostris</i>	Southeastern Shrew	S4	G5	D	--
Various habitats including wet meadows, damp woods, and uplands; statewide.					
<i>Sterna antillarum athalassos</i>	Interior Least Tern	S2S3B	G4T2Q	E	LE
Mississippi River sand bars & islands, dikes. 					
<i>Thryomanes bewickii</i>	Bewick's Wren	S1	G5	E	--
Brushy areas, thickets and scrub in open country, open and riparian woodland.					
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Lake --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lauderdale County

Known Species: 25

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Obovaria jacksoniana

Southern Hickorynut

S1

G2

--

--

Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.

Villosa vibex

Southern Rainbow

S2

G5Q

--

--

Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.

Webbhelix multilineata

Striped Whitelip

S2

G5

--

--

Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acmella oppositifolia

Creeping Spot-flower

S3

G5

S

--

Swamps And Wetlands

Carex gravida

Heavy Sedge

S1

G5

S

--

Rocky River Bluffs

Carex hyalina

Tissue Sedge

S1

G4

S

--

Forested Bottomland Swamps

Hottonia inflata

Featherfoil

S2

G4

S

--

Wet Sloughs And Ditches

Juglans cinerea

Butternut

S3

G4

T

--

Rich Woods And Hollows

Neobeckia aquatica

Lake Cress

S2

G4?

S

--

Gum Or Cypress Swamps

Orobanche ludoviciana

Louisiana Broomrape

SH

G5

S

--

Rich Floodplains

Sagittaria platyphylla

Ovate-leaved Arrowhead

S2S3

G5

S

--

Swamps, Emergent

Schisandra glabra

Red Starvine

S2

G3

T

--

Rich Mesic Woods, Bluffs

Ulmus crassifolia

Cedar Elm

S2

G5

S

--

Swamps

Vertebrate Animals: 11

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Anhinga anhinga

Anhinga

S1B

G5

D

--

Swamps, lakes, and sluggish streams at low elevations.

Ardea alba

Great Egret

S2B,S3N

G5

D

--

Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lauderdale County . . . Continued

Known Species: 25

Vertebrate Animals: 11 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Atractosteus spatula</i>	Alligator Gar Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.	S1	G3G4	D	--
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Egretta caerulea</i>	Little Blue Heron Bodies of calm shallow water; colonial nester.	S2B,S3N	G5	D	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hybognathus placitus</i>	Plains Minnow Clear to highly turbid rivers and creeks with sandy bottoms; Mississippi River & imm. environs.	S1	G4	D	--
<i>Ictinia mississippiensis</i>	Mississippi Kite Undisturbed stands of lowland and floodplain forests and along major rivers.	S2S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Sterna antillarum athalassos</i>	Interior Least Tern Mississippi River sand bars & islands, dikes. 	S2S3B	G4T2Q	E	LE

-- End of Lauderdale --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lawrence County

Known Species: 26

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail	S2	G3	--	--
	Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.				
<i>Orconectes alabamensis</i>	Alabama Crayfish	S2	G5	D	--
	Small-medium sized streams, in pools under rocks; Tennessee River tributaries from Shoal Creek downstream to the Buffalo River.				
<i>Pleurobema oviforme</i>	Tennessee Clubshell	S2S3	G2G3	--	--
	Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.				

Vascular Plants: 13

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Aristida ramosissima</i>	Branched Three-awn Grass	SH	G5	E-P	--
	Roadsides And Dry Openings				
<i>Carex gravida</i>	Heavy Sedge	S1	G5	S	--
	Rocky River Bluffs				
<i>Carex oxylepis var. pubescens</i>	Hairy Sharp-scaled Sedge	S1	G5?T3	S	--
	Wooded Bluffs, Floodplains				
<i>Crataegus harbisonii</i>	Harbison's Hawthorn	S1	G1	E	--
	Dry Rocky Calcareous Woods				
<i>Drosera brevifolia</i>	Dwarf Sundew	S2	G5	T	--
	Wet Barrens And Ecotones				
<i>Erythronium rostratum</i>	Beaked Trout-lily	S2	G5	S	--
	Mesic Woods And Slopes				
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain	S2	G4	T	--
	Alluvial Woods, Moist Slopes				
<i>Helianthus eggertii</i>	Eggert's Sunflower	S3	G3	S	DM
	Barrens And Roadsides				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Marshallia trinervia</i>	Broad-leaved Barbara's-buttons	S2S3	G3	T	--
	Rocky Ravines				
<i>Panax quinquefolius</i>	American Ginseng	S3S4	G3G4	S-CE	--
	Rich Woods				
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus	S3	G3	S	--
	Calcareous Seeps				
<i>Polygala mariana</i>	Maryland Milkwort	S1	G5	S	--
	Sandy Alluvial Woods And Disturbed Areas				

Vertebrate Animals: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Aimophila aestivalis</i>	Bachman's Sparrow	S1B	G3	E	--
	Dry open pine or oak woods; nests on the ground in dense cover.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lawrence County . . . Continued

Known Species: 26

Vertebrate Animals: 10 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma boschungii</i>	Slackwater Darter Gravel-bottomed creeks and small rivers; spawns in seepage water in fields and open woods.	S1	G1	T	LT
<i>Etheostoma neopterum</i>	Lollypop Darter Small to medium sized, gravelly, cool, spring-fed streams; Shoal Creek watershed.	S1S2	G3	--	--
<i>Etheostoma pseudovulatum</i>	Egg-mimic Darter Small to medium sized, gravelly, cool, spring-fed streams; lower Duck River watershed.	S1	G1	E	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--

-- End of Lawrence --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lewis County

Known Species: 41

Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex lurida</i> - <i>Carex leptalea</i> - <i>Parnassia grandifolia</i> - <i>Juncus brachycephalus</i> - (<i>Xyris tennesseensis</i>) Herbaceous Vegetation	Highland Rim Parnassia Seepage Fen	SNR	G1	--	--
<i>Quercus marilandica</i> / <i>Schizachyrium scoparium</i> - (<i>Helianthus mollis</i> , <i>Silphium asteriscus</i> , <i>Liatris aspera</i>) Woodland	Western Highland Rim Gravel Barrens	SNR	G2	--	--
Invertebrate Animals: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of <i>L. geniculata</i> ; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.	S2	G3	--	--
<i>Pseudanophthalmus occidentalis</i>	Western Cave Beetle Terrestrial cave obligate; Western Highland Rim.	S1	G1G2	--	--
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
Vascular Plants: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex comosa</i>	Bristly Sedge Swamps	S2	G5	T	--
<i>Dichanthelium acuminatum</i> ssp. <i>leucothrix</i>	Roughish Witchgrass Moist Pine Barrens	S1	G4?Q	S	--
<i>Drosera brevifolia</i>	Dwarf Sundew Wet Barrens And Ecotones	S2	G5	T	--
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain Alluvial Woods, Moist Slopes	S2	G4	T	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Juncus brachycephalus</i>	Small-headed Rush Seeps And Wet Bluffs	S2	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lewis County . . . Continued

Known Species: 41

Vascular Plants: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lonicera flava</i>	Yellow Honeysuckle Rocky Woods And Thickets	S1	G5?	T	--
<i>Marshallia trinervia</i>	Broad-leaved Barbara's-buttons Rocky Ravines	S2S3	G3	T	--
<i>Minuartia godfreyi</i>	Godfrey's Stitchwort Wet Meadows And Marshes	S1	G1	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Phlox pilosa ssp. ozarkana</i>	Ozark Downy Phlox Rocky, Dry Open Woods	S1S2	G5T4?	S	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass Calcareous Seeps	S1	G2	E	LE
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--

Vertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammocrypta vivax</i>	Scaly Sand Darter Small to medium rivers with sandy substrate; Hatchie & Buffalo rivers.	S2	G5	D	--
<i>Ammodramus henslowii</i>	Henslow's Sparrow Damp open fields and meadows with grass interspersed with weeds or shrubs.	S1B	G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lewis County . . . Continued

Known Species: 41

Vertebrate Animals: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of Lewis --



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Lincoln County

Known Species: 34

Invertebrate Animals: 14

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma triquetra</i>	Snuffbox	S3	G3	--	--
	Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.				
<i>Fusconaia cor</i>	Shiny Pigtoe	S1	G1	E	LE
	Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Hemistena lata</i>	Cracking Pearlymussel	S1	G1	E	LE
	Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.				
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	S1	G1	E	LE
	Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.				
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel	S2	G2	--	C
	Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.				
<i>Lithasia lima</i>	Warty Rocksnail	S2	G2Q	--	--
	Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).				
<i>Obovaria subrotunda</i>	Round Hickorynut	S2S3	G4	--	--
	Medium-large rivers in sand and gravel subst with moderate flow; TN & Cumb rivers; also Red River in Robertson Co., W Highland Rim.				
<i>Orconectes cooperi</i>	Flint River Crayfish	S1	G1	--	--
	Among leaf litter in medium-sized streams; headwaters of Flint River watershed; Lincoln County.				
<i>Pleurobema oviforme</i>	Tennessee Clubshell	S2S3	G2G3	--	--
	Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.				
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	S3	G3G4T3	--	--
	Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.				
<i>Quadrula intermedia</i>	Cumberland Monkeyface	S1	G1	E	LE
	Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.				
<i>Villosa fabalis</i>	Rayed Bean	S1	G2	--	C
	Riffles of medium-small rivers & creeks, in gravel & sand substrates associated with <i>Justicia americana</i> ; Tennessee River watershed.				

Vascular Plants: 12

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Allium burdickii</i>	Narrow-leaf Ramps	S1S2	G4G5	T-CE	--
	Rich Woods				
<i>Cotinus obovatus</i>	American Smoketree	S2	G4	S	--
	Dry, Circumneutral Soil				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Lincoln County . . . Continued

Known Species: 34

Vascular Plants: 12 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Gratiola floridana</i>	Florida Hedge-hyssop Wooded Swamps	S1	G4	E	--
<i>Lespedeza angustifolia</i>	Narrowleaf Bushclover Barrens	S2	G5	T	--
<i>Melanthium virginicum</i>	Virginia Bunchflower Wet Woods And Fields	S1	G5	E	--
<i>Neviusia alabamensis</i>	Alabama Snow-wreath Upland Woods	S2	G2	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Solidago auriculata</i>	Eared Goldenrod Dry Woods	S1	G4	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
<i>Viburnum bracteatum</i>	Limerock Arrowwood Rocky Rich Woods	S1	G1G2	E	--
Vertebrate Animals: 8		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Etheostoma boschungii</i>	Slackwater Darter Gravel-bottomed creeks and small rivers; spawns in seepage water in fields and open woods.	S1	G1	T	LT
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma wapiti</i>	Boulder Darter Fast rocky riffles of small to medium rivers & large creeks; Elk River watershed.	S1	G1	E	LE, XN
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--

-- End of Lincoln --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Loudon County

Known Species: 25

Invertebrate Animals: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Athearnia anthonyi

Anthony Riversnail

S1

G1

E

LE,XN

Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.

Io fluvialis

Spiny Riversnail

S2

G2

--

--

Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.

Lampsilis abrupta

Pink Mucket

S2

G2

E

LE

Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.

Plethobasus cooperianus

Orangefoot Pimpleback

S1

G1

E

LE

Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Aureolaria patula

Spreading False-foxglove

S3

G3

S

--

Oak Woods And Edges

Berberis canadensis

American Barberry

S2

G3

S

--

Rocky Woods And River Bars

Carex comosa

Bristly Sedge

S2

G5

T

--

Swamps

Carex gravida

Heavy Sedge

S1

G5

S

--

Rocky River Bluffs

Cimicifuga rubifolia

Appalachian Bugbane

S3

G3

T

--

Rich Woods

Cypripedium acaule

Pink Lady's-slipper

S4

G5

S-CE

--

Piney Woods

Lonicera dioica

Mountain Honeysuckle

S2

G5

S

--

Mountain Woods And Thickets

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Potamogeton amplifolius

Large-leaf Pondweed

S1

G5

T

--

Lakes And Streams

Potamogeton epihydrus

Nuttall's Pondweed

S1S2

G5

S

--

Lakes And Streams

Vertebrate Animals: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cryptobranchus alleganiensis

Hellbender

S3

G3G4

D

No Status

Rocky, clear creeks and rivers with large shelter rocks.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Loudon County . . . Continued

Known Species: 25

Vertebrate Animals: 10 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--

-- End of Loudon --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Macon County Known Species: 15

Invertebrate Animals: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Barbicambarus cornutus</i>	Bottle Brush Crayfish Under slabrock in medium-large tributaries of Barren River watershed; Sumner, Macon, Clay counties.	S2	G4	--	--
Vascular Plants: 3		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
Vertebrate Animals: 11		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Etheostoma barbouri</i>	Teardrop Darter Sandy pools in small to medium streams with slabrock cover; Barren River watershed.	S2	G4G5	D	--
<i>Etheostoma barrenense</i>	Splendid Darter Locally abundant in rocky pools and adjacent riffles of small to moderate streams; Barren River watershed.	S3	G4	D	--
<i>Etheostoma bellum</i>	Orangefin Darter Locally abundant in small to medium-sized clear streams over gravel substrate; Barren River watershed.	S3	G4G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Moxostoma atripinne</i>	Blackfin Sucker Larger creeks with quiet or gently flowing pools with scattered slabrocks & undercut banks; Barren River watershed.	S1	G2	D	--
<i>Notropis rubellus</i>	Rosyface Shiner Clear, swift, large creeks with bottoms of clean gravel or rubble; tribs to Cumberland River upst Cumberland Falls.	S2	G5	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Percina stictogaster</i>	Frecklebelly Darter Small rivers & larger creeks; pool areas with mod-sluggish current & aquatic vegetation; Barren River watershed.	S1	G4G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--

-- End of Macon --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Madison County Known Species: 11

Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 6		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex lacustris</i>	Lake-bank Sedge Alluvial Woods	S1	G5	T	--
<i>Helianthus verticillatus</i>	Whorled Sunflower Edge Of Creeks And Fields	S1	G1Q	E	C
<i>Iris brevicaulis</i>	Lamance Iris Bottomlands	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Schisandra glabra</i>	Red Starvine Rich Mesic Woods, Bluffs	S2	G3	T	--
<i>Utricularia inflata</i>	Inflated Bladderwort Ponds, Lake Margins	S1	G5	S	--
Vertebrate Animals: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Etheostoma pyrrhogaster</i>	Firebelly Darter Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.	S2	G2G3	D	--
<i>Noturus gladiator</i>	Piebald Madtom Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	S3	G3	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
-- End of Madison --					



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Marion County

Known Species: 92

Invertebrate Animals: 21

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Anguispira alabama</i>	Alabama Tigersnail	S2	G2	--	--
	A calciphile; limestone outcrops and cliff faces of karstic woods; southern Cumberlands.				
<i>Athearnia anthonyi</i>	Anthony Riversnail	S1	G1	E	LE,XN
	Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.				
<i>Batriasymmodes spelaeus</i>	A Cave Obligate Beetle	S2?	G5	--	--
	Terrestrial cave obligate; northern Cumberlands and northern Ridge & Valley.				
<i>Caecidotea nickajackensis</i>	Nickajack Cave Isopod	S1	G2G3	--	--
	Aquatic cave obligate; Nickajack Cave (historically); probably extirpated by impoundment.				
<i>Cambarus hamulatus</i>	Prickly Cave Crayfish	S3	G3G4	--	--
	Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.				
<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Glyphopsyche sequatchie</i>	Sequatchie Caddisfly	S1	G1	--	C
	Spring runs emerging from caves; lower Sequatchie River & Battle Creek watersheds; Marion County.				
<i>Hesperochernes mirabilis</i>	Southeastern Cave Pseudoscorpion	S3	G5	--	--
	Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Litocampa valentinei</i>	A Cave Obligate Bristletail	S2	G5	--	--
	Terrestrial cave obligate, southern Cumberlands.				
<i>Marstonia ogmorhapse</i>	Royal Springsnail	S1	G1	E	LE
	Known from shallow littoral zone of two cave spring runs, on mixed substrate of mud, sand, & detritus; lower Seq. R.; Marion County.				
<i>Nesticus barri</i>	A Cave Obligate Spider	S3	G3	--	--
	Terrestrial cave obligate; southern Cumberlands; reported from Franklin & Marion counties.				
<i>Pseudanophthalmus nickajackensis</i>	Nickajack Cave Beetle	S1	G2G3	--	--
	Terrestrial cave obligate; Nickajack Cave; Marion County.				
<i>Pseudanophthalmus ventus</i>	Blowing Cave Beetle	S1	G1	--	--
	Terrestrial cave obligate; lower Sequatchie Valley.				
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail	S2	G5	--	--
	Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.				
<i>Pseudotremia rhadamanthus</i>	A Cave Obligate Millipede	S1	G1G2	--	--
	Terrestrial cave obligate; southern Cumberland Plateau; Marion County.				



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Marion County . . . Continued

Known Species: 92

Invertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Scoterpes ventus</i>	A Cave Obligate Millipede Terrestrial cave obligate; wet caves of the Cumberland Plateau & Sequatchie Valley.	S1	G1	--	--
<i>Somatogyrus aureus</i>	Golden Pebblesnail Reported from Tennessee River system; habitat and distribution poorly understood; one contemporary record in Marion Co.	S1	GH	--	--
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
Nonvascular Plants: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Pellia appalachiana</i>	Wet Soil, Barrens	S2	G4	S	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 45		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Arabis patens</i>	Spreading Rockcress Moist Rocky Woods	S1	G3	E	--
<i>Asplenium scolopendrium</i> var. <i>americanum</i>	Hart's-tongue Fern Sinks	S1	G4T3	E	LT
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Cardamine flagellifera</i>	Running Bittercress Mountain Stream Banks	S2	G3	T	--
<i>Cotinus obovatus</i>	American Smoketree Dry, Circumneutral Soil	S2	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Danthonia epilis</i>	Bog Oat-grass Acidic Seeps	S1S2	G3G4	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Marion County . . . Continued

Known Species: 92

Vascular Plants: 45 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Diervilla sessilifolia</i> var. <i>rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Fothergilla major</i>	Mountain Witch-alder Rocky Slopes And River Banks	S2	G3	T	--
<i>Gelsemium sempervirens</i>	Yellow Jessamine Dry Openings	S1S2	G5	S	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hottonia inflata</i>	Featherfoil Wet Sloughs And Ditches	S2	G4	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hypericum adpressum</i>	Creeping St. John's-wort Edges Of Ponds And Lakes	S1	G3	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Lonicera flava</i>	Yellow Honeysuckle Rocky Woods And Thickets	S1	G5?	T	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Nestronia umbellula</i>	Nestronia Upland Woods	S1	G4	E	--
<i>Onosmodium hispidissimum</i>	Shaggy False Gromwell Dry Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Marion County . . . Continued

Known Species: 92

Vascular Plants: 45 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Rhynchospora perplexa</i>	Obscure Beak-rush Marshes, Wet Barrens	S2	G5	T	--
<i>Sabatia capitata</i>	Cumberland Rose Gentian Dry Open Woods, Powerlines	S2	G2	E	--
<i>Scutellaria montana</i>	Large-flowered Skullcap Escarpments, Dry Woods	S2	G3	T	LT
<i>Sedum nevii</i>	Nevius' Stonecrop Rocky Bluffs And Cliffs	S1	G3	E	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Silene regia</i>	Royal Catchfly Rocky Openings And Thickets	SH	G3	E-P	--
<i>Silphium brachiatum</i>	Cumberland Rosinweed Rich Rocky Woods	S2	G2G3	E	--
<i>Solidago tarda</i>	Late Goldenrod Sandy Pine Woods	SH	G4?Q	S	--
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Thermopsis mollis</i>	Allegheny Mountain golden banner Upland Woods	S2S3	G3G4	S	--
<i>Trillium lancifolium</i>	Narrow-leaved Trillium Alluvial Woods And Moist Ravines	S1	G3	E	--
<i>Viola tripartita</i> var. <i>tripartita</i>	Three-parted Violet Wooded Slopes	S2S3	G5T3	S	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--

Vertebrate Animals: 23		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



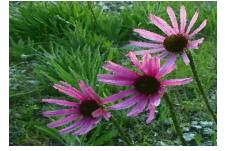
Marion County . . . Continued

Known Species: 92

Vertebrate Animals: 23 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma denoncourtii</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Marion County . . . Continued

Known Species: 92

Vertebrate Animals: 23 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of Marion --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Marshall County

Known Species: 46

Invertebrate Animals: 19

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Epioblasma florentina walkeri</i>	Tan Riffleshell	S1	G1T1	E	LE
	Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.				
<i>Epioblasma triquetra</i>	Snuffbox	S3	G3	--	--
	Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.				
<i>Gomphus sandrius</i>	Tennessee Clubtail	S1	G1	--	--
	Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.				
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	S1	G1	E	LE
	Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.				
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel	S2	G2	--	C
	Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.				
<i>Lithasia duttoniana</i>	Helmet Rocksnail	S2	G2Q	--	--
	Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).				
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail	S2	G3T3Q	--	--
	Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.				
<i>Lithasia salebrosa</i>	Muddy Rocksnail	S2	G3G4Q	--	--
	Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.				
<i>Obovaria subrotunda</i>	Round Hickorynut	S2S3	G4	--	--
	Medium-large rivers in sand and gravel subst with moderate flow; TN & Cumb rivers; also Red River in Robertson Co., W Highland Rim.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema oviforme</i>	Tennessee Clubshell	S2S3	G2G3	--	--
	Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.				
<i>Pseudanophthalmus catherinae</i>	Catherine's Cave Beetle	S1	G1	--	--
	Terrestrial cave obligate; Central Basin.				
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	S3	G3G4T3	--	--
	Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.				
<i>Quadrula intermedia</i>	Cumberland Monkeyface	S1	G1	E	LE
	Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Marshall County . . . Continued

Known Species: 46

Invertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
<i>Toxolasma lividus</i>	Purple Lilliput Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.	S1S2	G2	--	--
<i>Villosa fabalis</i>	Rayed Bean Riffles of medium-small rivers & creeks, in gravel & sand substrates associated with <i>Justicia americana</i> ; Tennessee River watershed.	S1	G2	--	C
Vascular Plants: 16		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Anemone caroliniana</i>	Carolina Anemone Glades And Cedar Woodlands	S1S2	G5	E	--
<i>Arnoglossum plantagineum</i>	Fen Indian-plantain Moist Prairies And Marshes	S2	G4G5	T	--
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Carex davisii</i>	Davis' Sedge Bottomlands, Riparian Soils	S1	G4	S	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Echinacea tennesseensis</i>	Tennessee Coneflower Ordovician Limestone Glades	S2	G2	E	LE
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Trifolium calcaricum</i>	Running Glade Clover Glades, Cedar Woods, And Thickets	S1	G1	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Marshall County . . . Continued

Known Species: 46

Vascular Plants: 16 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--
Vertebrate Animals: 11		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma denoncourti</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of Marshall --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Maury County

Known Species: 65

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Nashville Basin Limestone Glade</i>	Nashville Basin Limestone Glade, Barrens, and Woodland	SNR	GNR	--	--
Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Andropogon gerardii</i> - <i>Chasmanthium latifolium</i> - <i>Amsonia tabernaemontana</i> var. <i>salicifolia</i> Herbaceous Vegetation	Calcareous Riverine Scour Prairie	S2S3	G2G3	--	--
Invertebrate Animals: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Batrisesodes ferulifer</i>	A Cave Obligate Beetle Terrestrial cave obligate; middle Tennessee; Central Basin; reported from Maury County.	S1	G1	--	--
<i>Epioblasma brevidens</i>	Cumberlandian Combshell Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma capsaeformis</i>	Oyster Mussel Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma florentina walkeri</i>	Tan Riffleshell Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.	S1	G1T1	E	LE
<i>Epioblasma triquetra</i>	Snuffbox Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee & Cumb. river systems.	S3	G3	--	--
<i>Gomphus sandrius</i>	Tennessee Clubtail Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.	S1	G1	--	--
<i>Hemistena lata</i>	Cracking Pearlymussel Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.	S1	G1	E	LE
<i>Lemiox rimosus</i>	Birdwing Pearlymussel Small-medium size rivers in riffle areas with sand and gravel substrates in mod-fast currents; Tennessee River system.	S1	G1	E	LE
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia duttoniana</i>	Helmet Rocksnail Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2	G2Q	--	--
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Lithasia salebrosa</i>	Muddy Rocksnail Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.	S2	G3G4Q	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Maury County ... Continued

Known Species: 65

Invertebrate Animals: 21 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Obovaria subrotunda</i>	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.	S2S3	G4	--	--
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.	S1	G1	E	LE
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pleurobema rubrum</i>	Pyramid Pigtoe Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.	S1S2	G2G3	--	--
<i>Pseudanophthalmus bendermani</i>	Benderman's Cave Beetle Terrestrial cave obligate; Central Basin.	S1S2	G1G2	--	--
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3	G3G4T3	--	--
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Toxolasma cylindrellus</i>	Pale Lilliput Small tributary rivers & streams, in firm rubble, gravel, and sand substrates in shallow riffles and shoals; lower Tenn. River system.	S1	G1	E	LE
<i>Toxolasma lividus</i>	Purple Lilliput Small-medium sized rivers & lg creeks, in mud, sand, & gravel substrates; Tenn. & Cumberland river systems in headwater areas.	S1S2	G2	--	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 26		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammoselinum popei</i>	Pope's Sand-parsley Glades	S2	G4	T	--
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Arabis glabra</i>	Tower-mustard Barrens And Open Floodplains	S1	G5	S	--
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Maury County ... Continued

Known Species: 65

Vascular Plants: 26 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cerastium velutinum</i> var. <i>velutinum</i>	Velvety Cerastium Bluffs	S1	G5T4?	E	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Juncus brachycephalus</i>	Small-headed Rush Seeps And Wet Bluffs	S2	G5	S	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Leavenworthia exigua</i> var. <i>lutea</i>	Pasture Glade-cress Glades	SH	G4T1	E-P	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Lesquerella globosa</i>	Short's Bladderpod Limestone Talus Slopes And Cliffs	S2	G2	E	C
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Mirabilis albida</i>	Pale Umbrella-wort Glades	S2	G5	T	--
<i>Muhlenbergia glabriflora</i>	Hair Grass Dry Woods And Barrens	S1	G4?	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Phlox pilosa</i> ssp. <i>ozarkana</i>	Ozark Downy Phlox Rocky, Dry Open Woods	S1S2	G5T4?	S	--
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Maury County . . . Continued

Known Species: 65

Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma denoncourti</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Maury --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



McMinn County

Known Species: 12

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Gomphus consanguis

Cherokee Clubtail

S1

G2G3

--

--

Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Aureolaria patula

Spreading False-foxglove

S3

G3

S

--

Oak Woods And Edges

Platanthera integrilabia

White Fringeless Orchid

S2S3

G2G3

E

C

Acidic Seeps And Stream Heads

Xerophyllum asphodeloides

Eastern Turkeybeard

S3

G4

T

--

Dry Oak Or Piney Woods

Vertebrate Animals: 7

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cryptobranchus alleganiensis

Hellbender

S3

G3G4

D

No Status

Rocky, clear creeks and rivers with large shelter rocks.

Hemidactylium scutatum

Four-toed Salamander

S3

G5

D

--

Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.

Hemitremia flammea

Flame Chub

S3

G3

D

--

Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.

Limnothlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

Ophisaurus attenuatus longicaudus

Eastern Slender Glass Lizard

S3

G5T5

D

--

Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.

Phoxinus tennesseensis

Tennessee Dace

S3

G3

D

--

First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

-- End of McMinn --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



McNairy County Known Species: 31

Invertebrate Animals: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Fallicambarus horton</i>	Hatchie Burrowing Crayfish Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.	S1	G1	E	--
<i>Orconectes wrighti</i>	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.	S2	G2	E	--
Vascular Plants: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ceratophyllum echinatum</i>	Prickly Hornwort Slow Moving Streams	S1	G4?	S	--
<i>Cyperus plukenetii</i>	Plukenet's Galingale Sandy Barrens	SH	G5	S	--
<i>Drosera capillaris</i>	Pink Sundew Acidic Wetlands	S1	G5	T	--
<i>Eleocharis tortilis</i>	Twisted Spike-rush Swamps	S1	G5	S	--
<i>Fuirena squarrosa</i>	Hairy Umbrella-sedge Stream And Lake Margins	S1	G4G5	S	--
<i>Helianthus verticillatus</i>	Whorled Sunflower Edge Of Creeks And Fields	S1	G1Q	E	C
<i>Magnolia virginiana</i>	Sweetbay Magnolia Forested Acidic Wetlands	S2	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Plantago cordata</i>	Heart-leaved Plantain Limestone Creek Beds	S1	G4	E	--
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Polytaenia nuttallii</i>	Prairie Parsley Prairies And Open Dry Areas	S1	G5	T	--
<i>Sacciolepis striata</i>	Gibbous Panic-grass Floodplains And Shallow Pools	S1	G5	S	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Stylisma humistrata</i>	Southern Morning-glory Dry Piney Woods	S1	G4G5	T	--
<i>Tridens flavus var. chapmanii</i>	Chapman's Redtop Sandy Woods, Roadside Barrens	SH	G5T3T5	S	--
Vertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



McNairy County . . . Continued

Known Species: 31

Vertebrate Animals: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Ammocrypta beani</i>	Naked Sand Darter Shifting sand bottoms & sandy runs; Hatchie River & larger tribs.	S2	G5	D	--
<i>Ammocrypta vivax</i>	Scaly Sand Darter Small to medium rivers with sandy substrate; Hatchie & Buffalo rivers.	S2	G5	D	--
<i>Anhinga anhinga</i>	Anhinga Swamps, lakes, and sluggish streams at low elevations.	S1B	G5	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Etheostoma pyrrhogaster</i>	Firebelly Darter Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.	S2	G2G3	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.	S2S3	G3G4	D	--
<i>Noturus gladiator</i>	Piebald Madtom Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	S3	G3	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--

-- End of McNairy --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Meigs County Known Species: 31

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ridge and Valley Calcareous Valley Bottom Glade and Woodland</i>	Ridge and Valley Calcareous Glade and Woodland	SNR	GNR	--	--
Invertebrate Animals: 7		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cyprogenia stegaria</i>	Fanshell Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.	S1	G1Q	E	LE
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Gomphus consanguis</i>	Cherokee Clubtail Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.	S1	G2G3	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pleurobema plenum</i>	Rough Pigtoe Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Pleurobema rubrum</i>	Pyramid Pigtoe Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.	S1S2	G2G3	--	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Arabis patens</i>	Spreading Rockcress Moist Rocky Woods	S1	G3	E	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Carex comosa</i>	Bristly Sedge Swamps	S2	G5	T	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Meigs County . . . Continued

Known Species: 31

Vascular Plants: 13 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Neviusia alabamensis</i>	Alabama Snow-wreath Upland Woods	S2	G2	T	--
<i>Onosmodium molle ssp. occidentale</i>	Western False Gromwell Glades	S1S2	G4G5T4?	T	--
<i>Sacciolepis striata</i>	Gibbous Panic-grass Floodplains And Shallow Pools	S1	G5	S	--
<i>Symphotrichum pratense</i>	Barrens Silky Aster Barrens	S1	G4?	E	--
Vertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Gyrinophilus gulolineatus</i>	Berry Cave Salamander Aquatic cave obligate; Ridge & Valley; formerly included with <i>G. pallescens</i> .	S1	G1Q	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Meigs --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Monroe County

Known Species: 111

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Southern Appalachian Spray Cliff</i>	Southern Appalachian Spray Cliff	SNR	GNR	--	--
Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Quercus stellata</i> - <i>Pinus virginiana</i> / (<i>Schizachyrium scoparium</i> , <i>Piptochaetium avenaceum</i>) Woodland	Red Knobs Sandstone Post Oak - Virginia Pine Woodland	SNR	G2?	--	--
Invertebrate Animals: 20		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anguispira jessica</i>	Mountain Disc Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood; Roan Mountain & Mt. Le Conte.	S3	G3G4	--	--
<i>Athearnia anthonyi</i>	Anthony Riversnail Larger rivers and downstream stretches of lg creeks, on cobble/boulder substrates adj. riffles; portions of upper TN River basin.	S1	G1	E	LE,XN
<i>Euchemotrema fraterum montanum</i>	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.	S2	G5T2	--	--
<i>Fumonelix christyi</i>	Glossy Covert Leaf litter in upland oak woods; central and southernmost Blue Ridge; southeast Tennessee.	S2	G3	--	--
<i>Fumonelix wheatleyi</i>	Cinnamon Covert Leaf litter, logs, talus in mixed woodlands, coves @ mid-upper elevations of Blue Ridge; Blount, Carter, Cocke, Monroe, & Sevier cos.	S3	G4	--	--
<i>Glyphyalinia pentadelphia</i>	Pink Glyph Pockets of moist leaves in rich upland woods; mid-elevations of Blue Ridge; southeast Tennessee.	S2	G2G3	--	--
<i>Helicodiscus fimbriatus</i>	Fringed Coil In leaf litter or under rocks on wooded hillsides; southern Blue Ridge; southeast Tennessee.	S3	G4	--	--
<i>Inflectarius ferrissi</i>	Smoky Mountain Covert Under rock ledges, rock piles, or logs at mid-elevations and higher; Blue Ridge; Great Smoky Mountains National Park.	S2	G2	--	--
<i>Mesomphix rugeli</i>	Wrinkled Button Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.	S3	G4	--	--
<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.	S1	G3T2T3	--	--
<i>Paravitrea lamellidens</i>	Lamellate Supercoil Deep, moist leaf litter below boulder slopes, bluffs; boggy seeps; forested hillsides & ravines; central & southern Blue Ridge.	S2	G2	--	--
<i>Paravitrea umbilicaris</i>	Open Supercoil In pockets of deep, moist leaf litter on forested hillsides & ravines; Blue Ridge; southeast Tennessee.	S2?	G2	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Invertebrate Animals: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudanophthalmus paulus</i>	Nobletts Cave Beetle Terrestrial cave obligate; southern Ridge & Valley; reported from one historical location in Monroe County.	S1	GH	--	C
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Quadrula sparsa</i>	Appalachian Monkeyface Headwater sections of rivers in shallow riffles/runs with sand-gravel substrate & moderate current; upper Tennessee River drainage.	S1	G1	E	LE
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Striatura exigua</i>	Ribbed Striate Moist leaf litter of forested slopes; Blue Ridge; a northern species that apparently follows the spine of the Appalachians south.	S1	G5	--	--
<i>Trechus talequah</i>	A Carabid Beetle Terrestrial; known only from the Unicoi Mountains near Haw Knob between 4800-5000 ft; Monroe County.	S1	GNR	--	--
<i>Ventridens decussatus</i>	Crossed Dome In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.	S2?	G3	--	--
<i>Vertigo clappi</i>	Cupped Vertigo In leaf litter and moss on forested hillsides; Blue Ridge; Monroe County.	S1	G1G2	--	--

Nonvascular Plants: 7		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Drepanolejeunea appalachiana</i>	A Liverwort Tree Bark, 2000-4500 Ft.	S1	G2?	S	--
<i>Jungermannia fossombronioides</i>	Low Elevation Rocky Streams	S1	G4	S	--
<i>Lophocolea appalachiana</i>	A Liverwort Spray Cliffs	S1	G1G2Q	S	--
<i>Megaceros aenigmaticus</i>	Megaceros Mid-Elev. Streams On Wet Shaded Rocks	S2S3	G2G3	S	--
<i>Mnium carolinianum</i>	Carolina Mnium Rocks & Streambanks In Humid Gorges	S1	G3	S	--
<i>Pellia appalachiana</i>	Wet Soil, Barrens	S2	G4	S	--
<i>Porella wataugensis</i>	Watauga Porella Moist Boulders & Cliffs, Phyllite	S1S2	G1G2Q	T	--

Vascular Plants: 44		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Abies fraseri</i>	Fraser Fir Forests Above 5500 Ft	S1S2	G2	T	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Vascular Plants: 44 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Botrychium jenmanii</i>	Alabama Grapefern Pine Woods	S1	G3G4	T	--
<i>Botrychium matricariifolium</i>	Chamomile Grapefern Mountain Woods And Thickets	S1	G5	S	--
<i>Calamagrostis porteri</i>	Porter's Reedgrass Rich Mountain Woods	S1	G4	E	--
<i>Cardamine clematitis</i>	Mountain Bittercress High Elevation Seeps	S2	G3	T	--
<i>Carex comosa</i>	Bristly Sedge Swamps	S2	G5	T	--
<i>Carex manhartii</i>	Manhart's Sedge Mountain Slopes And Stream Banks	S2	G3G4	E	--
<i>Carex ruthii</i>	Ruth's Sedge Mountain Forests And Wet Areas	S2	G3	T	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Clintonia borealis</i>	Clinton's Lily High Elevation Mesic Forests	S2S3	G5	S	--
<i>Coreopsis latifolia</i>	Broad-leaved Tickseed Streamheads	S1S2	G3	E	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Glyceria laxa</i>	Northern Mannagrass Bogs And Wet Areas	S1	G5TUQ	S	--
<i>Helianthemum bicknellii</i>	Plains Frostweed Dry Ridges	SH	G5	E-P	--
<i>Helianthemum canadense</i>	Canada Frostweed Dry Ridges	SH	G5	E-P	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Vascular Plants: 44 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Isoetes tennesseensis</i>	Hiwassee Quillwort Rocky River Banks	S1	G1	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lathyrus palustris</i>	Marsh Pea Wet Woods & Marshes	S1	G5	S	--
<i>Lobelia amoena</i>	Southern Lobelia Mountain Flood Plains And Pools	S1S2	G4?	T	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--
<i>Poa palustris</i>	Fowl Bluegrass Wet Balds	S1	G5	E	--
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed Lakes And Streams	S1	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Streptopus roseus</i>	Rosy Twisted-stalk Rich, Moist Mountain Woods	S2	G5	S	--
<i>Symplocos tinctoria</i>	Horse-sugar Floodplains And Moist Ravines	S2	G5	S	--
<i>Thermopsis fraxinifolia</i>	Ash-leaved Bush-pea Roadsides And Dry Open Woods	S3	G3?	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Vascular Plants: 44 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Xerophyllum asphodeloides</i>	Eastern Turkeybeard Dry Oak Or Piney Woods	S3	G4	T	--
Vertebrate Animals: 38		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aegolius acadicus</i>	Northern Saw-whet Owl High-elevation spruce-fir forests; Blue Ridge Mountains.	S1	G5	T	--
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Clinostomus funduloides ssp. 1</i>	Smoky Dace Upland tributaries of Little Tennessee River; east Tennessee.	S1S2	G5T3Q	D	--
<i>Condylura cristata</i>	Star-nosed Mole Hydric soils in beech-maple-birch forests at higher elevations in the Appalachians.	S2	G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Desmognathus aeneus</i>	Seepage Salamander Leaf litter in mixed hardwood forests near small creeks, springs and seeps; southern Blue Ridge; SE Tennessee.	S1	G3G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Etheostoma gutselli</i>	Tuckasegee Darter Swift riffle areas with coarse rubble; Little Tennessee & Pigeon rivers.	S1	G4	E	--
<i>Etheostoma percnurum</i>	Duskytail Darter Gently flowing pools near riffles; larger creeks and medium size rivers; Tennessee & Cumberland river drainages.	S1	G2	E	LE,XN
<i>Eurycea junaluska</i>	Junaluska Salamander Beneath rocks along medium to large streams; S Blue Ridge; Monroe, Blount, & Sevier counties.	S2	G3	D	--
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel Spruce-fir or mature hardwood forest with snags; in tree cavities or leaf nests; higher elevations of the Appalachians.	S1S2	G5T1	E	LE



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Vertebrate Animals: 38 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.					
<i>Hemidactylium scutatum</i>	Four-toed Salamander	S3	G5	D	--
Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.					
<i>Hemitremia flammea</i>	Flame Chub	S3	G3	D	--
Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.					
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S3	G4	D	--
Mature, rich, damp, deciduous floodplain and swamp forests.					
<i>Myotis leibii</i>	Eastern Small-footed Myotis	S2S3	G3	D	--
Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.					
<i>Myotis sodalis</i>	Indiana Myotis	S1	G2	E	LE
Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.					
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse	S4	G5	D	--
Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.					
<i>Neotoma floridana haematoreia</i>	Southern Appalachian Woodrat	S2	G5T4Q	D	--
Forests & talus slopes in southern Appalachians of southeastern Tennessee.					
<i>Noturus baileyi</i>	Smoky Madtom	S1	G1	E	LE,XN
Clear, cool, rocky riffles, runs, and flowing pools of mountain creeks; lower Little Tennessee River system.					
<i>Noturus flavipinnis</i>	Yellowfin Madtom	S1	G1	E	LT,XN
Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.					
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard	S3	G5T5	D	--
Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.					
<i>Percina aurantiaca</i>	Tangerine Darter	S3	G4	D	--
Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.					
<i>Percina burtoni</i>	Blotchside Logperch	S2	G2G3	D	--
Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.					
<i>Percina tanasi</i>	Snail Darter	S2S3	G2G3	T	LT
Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.					
<i>Phoxinus tennesseensis</i>	Tennessee Dace	S3	G3	D	--
First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.					
<i>Pituophis melanoleucus melanoleucus</i>	Northern Pinesnake	S3	G4T4	T	--
Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.					
<i>Sorex cinereus</i>	Cinereus Shrew	S4	G5	D	--
Rich woodlands of many types; open fields; middle and east Tennessee.					



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Monroe County . . . Continued

Known Species: 111

Vertebrate Animals: 38 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Sorex palustris</i>	American Water Shrew Most abundant along small cold streams with thick overhanging riparian growth; Appalachian Mountains.	S2	G5	D	--
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.	S1B,S4N	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Vermivora chrysoptera</i>	Golden-winged Warbler Early successional habitats in foothill regions of Appalachians.	S3B	G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Monroe --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Montgomery County Known Species: 75

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pennyroyal Karst Plain Prairie and Barrens</i>	Pennyroyal Karst Plain Prairie and Barrens	S2?	GNR	--	--
Invertebrate Animals: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Lithasia salebrosa</i>	Muddy Rocksnail Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.	S2	G3G4Q	--	--
<i>Orconectes pellucidus</i>	Mammoth Cave Crayfish Aquatic cave obligate; subterranean streams & pools of Penneroyal Plain; Montgomery & Robertson counties.	S3	G4	--	--
<i>Pseudanophthalmus colemanensis</i>	Coleman Cave Beetle Terrestrial cave obligate; Western Highland Rim.	S1	G1	--	--
<i>Stygobromus vitreus</i>	An Amphipod Aquatic cave obligate; pools in wet caves; northernmost Highland Rim and southernmost Cumberlands.	S2	G4	--	--
Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Fissidens clebschii</i>	Clebsch's Pocket Moss Mesic Forest River Bluffs	SH	GHQ	S	--
Vascular Plants: 46		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Agalinis auriculata</i>	Earleaved False-foxglove Barrens	S2	G3	E	--
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Arabis shortii</i>	Short's Rock-cress Wooded Bluffs & Floodplains	S1S2	G5	S	--
<i>Asclepias purpurascens</i>	Purple Milkweed Barrens	S1	G5?	S	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Carex comosa</i>	Bristly Sedge Swamps	S2	G5	T	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Carex lacustris</i>	Lake-bank Sedge Alluvial Woods	S1	G5	T	--
<i>Carex muskingumensis</i>	Muskingum Sedge Wet Woods	SH	G4	E-P	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Montgomery County . . . Continued

Known Species: 75

Vascular Plants: 46 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Clematis pitcheri</i>	Pitcher Leather-flower Rocky Woodlands	SH	G4G5	T	--
<i>Cornus obliqua</i>	Silky Dogwood Rocky River Shores	S2?	G5T5	S	--
<i>Desmodium ochroleucum</i>	Creamflower Tick-trefoil Sandy Dry Woods	S1	G1G2	E	--
<i>Diarrhena obovata</i>	Beak Grass Moist Calcareous Ledges, Upland Woods	S1	G4G5	S	--
<i>Echinacea pallida</i>	Pale-purple Coneflower Barrens And Dry Openings	S1	G4	T	--
<i>Eleocharis lanceolata</i>	Lance-like Spike-rush Wet Areas	S1	G4G5	S	--
<i>Elodea nuttallii</i>	Nuttall's Waterweed Aquatic; Streams And Ponds	S2	G5	S	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Heteranthera limosa</i>	Blue Mud-plantain Mud Flats	S1S2	G5	T	--
<i>Hieracium longipilum</i>	Hairy Hawkweed Dry Fields And Sandy Road Banks	S1	G4G5	S	--
<i>Hottonia inflata</i>	Featherfoil Wet Sloughs And Ditches	S2	G4	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lesquerella globosa</i>	Short's Bladderpod Limestone Talus Slopes And Cliffs	S2	G2	E	C
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Muhlenbergia glabriflora</i>	Hair Grass Dry Woods And Barrens	S1	G4?	S	--
<i>Neobeckia aquatica</i>	Lake Cress Gum Or Cypress Swamps	S2	G4?	S	--
<i>Packera plattensis</i>	Prairie Ragwort Open Riverbanks, Barrens	S1	G5	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Montgomery County . . . Continued

Known Species: 75

Vascular Plants: 46 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Phacelia ranunculacea</i>	Blue Scorpion-weed Alluvial Woods	S2S3	G4	S	--
<i>Polygala mariana</i>	Maryland Milkwort Sandy Alluvial Woods And Disturbed Areas	S1	G5	S	--
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root Barrens And Dry Woodlands	S2	G3	S	--
<i>Prenanthes crepidinea</i>	Nodding Rattlesnake-root Rich Bottomlands	S2	G4	E	--
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	White Water-buttercup Ponds And Streams	S1	G5T5	E	--
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot Ponds And Marshes	S2	G5	T	--
<i>Ribes odoratum</i>	Buffalo Currant Limestone Bluffs	SH	G5T4T5	T	--
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower Barrens	S2	G5	T	--
<i>Sagittaria brevirostra</i>	Short-beaked Arrowhead Swamps And Floodplains	S1	G5	T	--
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead Swamps, Emmergent	S2S3	G5	S	--
<i>Sagittaria rigida</i>	Sessile-fruited Arrowhead Ponds And Marshes	S1	G5	S	--
<i>Silphium laciniatum</i>	Compass Plant Barrens	S2	G5	T	--
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Solidago rupestris</i>	Rock Goldenrod Limestone Riverbanks, Bluffs	S1	G4?	E	--
<i>Trifolium reflexum</i>	Buffalo Clover Rocky Open Woods	S1	G3G4	E	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--
Vertebrate Animals: 23		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Ammodramus henslowii</i>	Henslow's Sparrow Damp open fields and meadows with grass interspersed with weeds or shrubs.	S1B	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Montgomery County . . . Continued

Known Species: 75

Vertebrate Animals: 23 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Botaurus lentiginosus</i>	American Bittern Lake and pond edges with plentiful vegetation, and wetlands created by impoundments; rare nester.	S1	G4	--	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Nerodia erythrogaster neglecta</i>	Copperbelly Watersnake Warm, quiet waters; wooded lakes, streams, sloughs; northern middle Tennessee; lower Cumberland & Tennessee river watersheds.	S2S3	G5T3	--	No Status
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Passerculus sandwichensis</i>	Savannah Sparrow Grassland habitats, away from cultivated fields and fence lines; reported from Ridge & Valley and Western Highland Rim.	S1B,S4N	G5	--	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex hoyi</i>	American Pygmy Shrew Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.	S2	G5	--	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Montgomery County . . . Continued

Known Species: 75

Vertebrate Animals: 23 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Thryomanes bewickii

Bewick's Wren

S1

G5

E

--

Brushy areas, thickets and scrub in open country, open and riparian woodland.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Montgomery --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Moore County Known Species: 14

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Quercus phellos</i> - <i>Quercus alba</i> / <i>Vaccinium fuscatum</i> - (<i>Viburnum nudum</i>) / <i>Carex (barrattii, intumescens)</i> Forest	Barrens Depression Willow Oak Forest	SNR	G2	--	--
Invertebrate Animals: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Lithasia lima</i>	Warty Rocksnail Rocky substrates in riffle systems; Elk River & larger tributaries (Tennessee River watershed).	S2	G2Q	--	--
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
Vascular Plants: 7		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Dichanthelium acuminatum ssp. leucothrix</i>	Roughish Witchgrass Moist Pine Barrens	S1	G4?Q	S	--
<i>Dichanthelium ensifolium ssp. curtifolium</i>	Short-leaved Panic Grass Boggy Areas	S1	G3?	E	--
<i>Drosera brevifolia</i>	Dwarf Sundew Wet Barrens And Ecotones	S2	G5	T	--
<i>Neviusia alabamensis</i>	Alabama Snow-wreath Upland Woods	S2	G2	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Zigadenus leimanthoides</i>	Death-camas Acidic Wetlands	S2	G4Q	T	--
Vertebrate Animals: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hemitemria flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE

-- End of Moore --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Morgan County

Known Species: 60

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

(*Salix caroliniana*, *Rhododendron arborescens*) - *Andropogon gerardii* - *Baptisia australis* - (*Solidago simplex* var. *randii*)
Herbaceous Vegetation

Cumberland Plateau Riverine Cobble Bar

S2

G2?

--

--

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Alasmidonta atropurpurea

Cumberland Elktoe

S1S2

G1G2

E

LE

Small creeks to medium-sized rivers with slow current, sand substrates, and large cobble; upper Cumberland River watershed.

Cambarus sp. 1

Emory River Crayfish

S1

G1?

--

--

Under rock cover in Emory River & larger tributaries, Morgan County.

Lampsilis virescens

Alabama Lampmussel

S1

G1

E

LE

Found in sand and gravel substrates in shoal areas of small-medium size rivers; middle and upper TN R system; poss extirpated in TN.

Pleurobema oviforme

Tennessee Clubshell

S2S3

G2G3

--

--

Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.

Villosa perpurpurea

Purple Bean

S1

G1

E

LE

Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.

Villosa trabalis

Cumberland Bean

S1

G1

E

LE

Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.

Nonvascular Plants: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Bryoxiphium norvegicum

Sword Moss

S1

G5?

T

--

Sandstone Rockhouses And Shaded Outcroppings

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Schizachyrium scoparium - *Danthonia sericea* - *Aster surculosus* - *Liatris microcephala*
Herbaceous Vegetation

Cumberland Plateau Clifftop Sandstone Barren

S2?

G3

--

--

Vascular Plants: 30

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Adlumia fungosa

Climbing Fumitory

S2

G4

T

--

Rich Mesic Woods

Ageratina luciae-brauniae

Lucy Braun's White Snakeroot

S3

G3

T

--

Rockhouses

Amelanchier sanguinea

Roundleaf Shadbush

S2

G5

T

--

Rocky Slopes And River Banks

Aureolaria patula

Spreading False-foxglove

S3

G3

S

--

Oak Woods And Edges



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Morgan County . . . Continued

Known Species: 60

Vascular Plants: 30 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--
<i>Calamovilfa arcuata</i>	Cumberland Sandgrass Rocky And Sandy River Bars	S2	G2	E	--
<i>Conradina verticillata</i>	Cumberland Rosemary Sandy, Rocky River Banks And Bars	S3	G3	T	LT
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Danthonia epilis</i>	Bog Oat-grass Acidic Seeps	S1S2	G3G4	S	--
<i>Helenium brevifolium</i>	Shortleaf Sneezeweed Rocky, Sandy Streamsides	S1	G4	E	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Hieracium scabrum</i>	Rough Hawkweed Dry Open Woods And Pastures	S2	G5	T	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Leucothoe racemosa</i>	Fetter-bush Acidic Wetlands And Swamps	S2	G5	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Marshallia grandiflora</i>	Large-fl. Barbara's-buttons Rocky River Bars	S2	G2	E	--
<i>Melanthium woodii</i>	Ozark Bunchflower Rich Wooded Slopes	S1	G5	E	--
<i>Minuartia cumberlandensis</i>	Cumberland Sandwort Rockhouses	S2	G2G3	E	LE
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Polygonella americana</i>	Southern Jointweed Dry, Open Woods And Barrens	S1S2	G5	E	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Morgan County . . . Continued

Known Species: 60

Vascular Plants: 30 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Sporobolus junceus</i>	Pinelands Dropseed Dry Piney Woods	S1	G5	S	--
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Trientalis borealis</i>	Northern Starflower Mountain Hardwood Forests	S1	G5	T	--
<i>Utricularia subulata</i>	Zigzag Bladderwort Wet Barrens, Ecotones	S1	G5	T	--
Vertebrate Animals: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Etheostoma baileyi</i>	Emerald Darter Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	S2	G4G5	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Morgan County . . . Continued

Known Species: 60

Vertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Percina squamata</i>	Olive Darter Small-med rivers; in strong flowing chutes with rubble/boulders in high-gradient streams; portions of upper Tenn & Cumb river systems. 	S2	G3	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.	S3	G5	--	--
<i>Vermivora chrysoptera</i>	Golden-winged Warbler Early successional habitats in foothill regions of Appalachians.	S3B	G4	D	--

-- End of Morgan --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Obion County

Known Species: 35

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Webbhelix multilineata

Striped Whitelip

S2

G5

--

--

Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 12

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Carex comosa

Bristly Sedge

S2

G5

T

--

Swamps

Elodea nuttallii

Nuttall's Waterweed

S2

G5

S

--

Aquatic; Streams And Ponds

Hottonia inflata

Featherfoil

S2

G4

S

--

Wet Sloughs And Ditches

Hydrastis canadensis

Goldenseal

S3

G4

S-CE

--

Rich Woods

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Neobeckia aquatica

Lake Cress

S2

G4?

S

--

Gum Or Cypress Swamps

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Phacelia ranunculacea

Blue Scorpion-weed

S2S3

G4

S

--

Alluvial Woods

Prunus virginiana

Choke Cherry

S1

G5

S

--

Moist Coves And Slopes

Ranunculus flabellaris

Yellow Water-crowfoot

S2

G5

T

--

Ponds And Marshes

Sagittaria platyphylla

Ovate-leaved Arrowhead

S2S3

G5

S

--

Swamps, Emergent

Spiranthes odorata

Sweetscent Ladies'-tresses

S1

G5

E

--

Swamps, Pond Margins

Vertebrate Animals: 21

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Aimophila aestivalis

Bachman's Sparrow

S1B

G3

E

--

Dry open pine or oak woods; nests on the ground in dense cover.

Anhinga anhinga

Anhinga

S1B

G5

D

--

Swamps, lakes, and sluggish streams at low elevations.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Obion County . . . Continued

Known Species: 35

Vertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ardea alba</i>	Great Egret Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	S2B,S3N	G5	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Fundulus chrysotus</i>	Golden Topminnow Swamps, backwaters, and pools of ditches and slow-moving creeks; Reelfoot Lake & imm. vicinity.	S1S2	G5	D	--
<i>Gallinula chloropus</i>	Common Moorhen Marshes, quiet rivers, lakes and ponds; nests among marsh plants over water; infrequently flies.	S1B	G5	D	No Status
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Ictinia mississippiensis</i>	Mississippi Kite Undisturbed stands of lowland and floodplain forests and along major rivers.	S2S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Neotoma floridana illinoensis</i>	Eastern Woodrat Forested areas, caves & outcrops; west Tennessee generally.	S3	G5T5	D	--
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake Marshes, swamps, bayous, shallow lakes and ponds, wet prairies, oxbows and floodplain sloughs; far west Tennessee.	S2	G5	D	--
<i>Noturus gladiator</i>	Piebald Madtom Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	S3	G3	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Vireo bellii</i>	Bell's Vireo Thickets adjacent to water, bottomlands; west Tennessee and one confirmed location in Western Highland Rim.	S1B	G5	--	No Status



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Obion County . . . Continued Known Species: 35

Vertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Obion --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Overton County

Known Species: 45

Invertebrate Animals: 20		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Batriasymmodes quisnamus</i>	A Cave Obligate Beetle Terrestrial cave obligate; middle Tennessee.	S3	G3G4	--	--
<i>Batrisodes clypeospecus</i>	A Cave Obligate Beetle Terrestrial cave obligate; northern Cumberlands.	S1S2	G1G2	--	--
<i>Cambarus obeyensis</i>	Obey Crayfish Under cover in small-medium sized streams; headwaters of East Fork Obey River; northern Cumberlands; tertiary burrower.	S2	G2	T	--
<i>Carychium stygium</i>	Cave Thorn Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.	S2	G3	--	--
<i>Donnaldsoncythere tuberosa</i>	A Cave Obligate Shrimp Aquatic cave obligate; Eastern Highland Rim; Putnam & Overton counties; crayfish commensal.	S2?	G2G3	--	--
<i>Helicodiscus hadenoecus</i>	Cricket Coil Cave obligate; feeds on cricket guano; Eastern Highland Rim & Cumberland Plateau.	S3	G3	--	--
<i>Hesperochernes mirabilis</i>	Southeastern Cave Pseudoscorpion Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.	S3	G5	--	--
<i>Kleptochthonius pluto</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Eastern Highland Rim.	S1	G1	--	--
<i>Litocampa sp. 7</i>	Mill Hollow Cave Dipluran Terrestrial cave obligate, northern Cumberlands.	S1	G1	--	--
<i>Nelsonites walteri</i>	A Cave Obligate Beetle Terrestrial cave obligate, northern Cumberlands.	S3	G3G4	--	--
<i>Nesticus stygius</i>	A Cave Obligate Spider Terrestrial cave obligate; reported from wet caves; northern Cumberlands.	S1S2	G1G2	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Pseudanophthalmus sp. 29</i>	Falling Springs Cave Beetle Terrestrial cave obligate; Overton County.	S1	G1	--	--
<i>Pseudanophthalmus valentinei</i>	A Cave Obligate Beetle Terrestrial cave obligate; northern Eastern Highland Rim; Putnam & Overton counties.	S2S3	G3G4	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
<i>Pseudotremia manni</i>	Mann's Cave Millipede Terrestrial cave obligate; collected from riparian mud banks in caves of the northern Eastern Highland Rim; Overton County.	S1	G1	--	--
<i>Stygobromus sp. 24</i>	Cave Amphipod (Overton Co., TN) Aquatic cave obligate; wet caves in the escarpment of the Cumberland Plateau; Overton County.	S1	G1	--	--
<i>Trechus cumberlandus</i>	Cumberland Ground Beetle Terrestrial associate of caves, springs, sinkholes; escarpment of the Cumberland Plateau, generally.	S2	G2	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Overton County ... Continued

Known Species: 45

Invertebrate Animals: 20 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Triodopsis complanata</i>	Glossy Threetooth Cave associate; also found in leaf litter or around logs or talus; northernmost Cumberlands.	S2	G2	--	--
<i>Zonitoides lateumbilicatus</i>	Striate Gloss A calciphile; found in leaf litter of shady karst woods, ravines; sometimes near springs or seeps; spotty distribution in Cumberlands.	S2?	G3G4	--	--
Vascular Plants: 11		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allium burdickii</i>	Narrow-leaf Ramps Rich Woods	S1S2	G4G5	T-CE	--
<i>Allium tricoccum</i>	Ramps Rich Woods	S1S2	G5	S-CE	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh Rich Woods	S1	G4G5Q	T	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
Vertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Overton County . . . Continued

Known Species: 45

Vertebrate Animals: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Etheostoma obeyeense</i>	Barcheek Darter Small to medium sized, clear upland streams; Eastern Highland Rim; Cumberland River drainage.	S3	G4	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Overton --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Perry County

Known Species: 36

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Juniperus virginiana /
Schizachyrium scoparium -
(*Andropogon gerardii*,
Sorghastrum nutans) - *Silphium*
(*trifoliatum*, *terebinthaceum*)
Wooded Herbaceous Vegetation

Western Tennessee Valley Limestone
Hill Barrens

SNR

G2

--

--

Invertebrate Animals: 11

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Cambarincola leptadenus

A Cave Obligate Worm

S1

G1G2

--

--

Aquatic cave obligate; crayfish parasite (known from *Cambarus tenebrosus*); Western Highland Rim.

Lithasia duttoniana

Helmet Rocksnail

S2

G2Q

--

--

Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).

Lithasia geniculata fuliginosa

Geniculate River Snail

S2

G3T3Q

--

--

Medium-sized river form of *L. geniculata*; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.

Lithasia salebrosa

Muddy Rocksnail

S2

G3G4Q

--

--

Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.

Obovaria retusa

Ring Pink

S1

G1

E

LE

Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.

Ophiogomphus acuminatus

Acuminate Snaketail

S2

G3

--

--

Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.

Plethobasus cicatricosus

White Wartyback

S1

G1

E

LE

Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.

Plethobasus cooperianus

Orangefoot Pimpleback

S1

G1

E

LE

Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.

Pseudanophthalmus hesperus

A Cave Obligate Beetle

S1

G1

--

--

Terrestrial cave obligate; Western Highland Rim.

Quadrula cylindrica cylindrica

Rabbitsfoot

S3

G3G4T3

--

--

Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of *Q. cylindrica*.

Vertigo teskeyae

Swamp Vertigo

S1

G5

--

--

Wet habitats, pond margins, swamps, muddy bottomlands; tributary creeks of lower Tennessee River.

Vascular Plants: 11

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acalypha deamii

Deam's Copperleaf

S1

G4?

S

--

Mesic Woods-Sandbars

Arabis hirsuta

Western Hairy Rockcress

S1

G5

T

--

Glades And Limestone Bluffs



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Perry County . . . Continued

Known Species: 36

Vascular Plants: 11 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Desmodium ochroleucum</i>	Creamflower Tick-trefoil Sandy Dry Woods	S1	G1G2	E	--
<i>Draba cuneifolia</i>	Wedge-leaved Whitlow-grass Barrens And Glades	S1S2	G5	S	--
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain Alluvial Woods, Moist Slopes	S2	G4	T	--
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	Western False Gromwell Glades	S1S2	G4G5T4?	T	--
<i>Prenanthes aspera</i>	Rough Rattlesnake-root Barrens And Roadsides	S1	G4?	E	--
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root Barrens And Dry Woodlands	S2	G3	S	--
<i>Salvia azurea</i> var. <i>grandiflora</i>	Blue Sage Barrens	S3	G4G5T4?	S	--

Vertebrate Animals: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma denoncourti</i>	Golden Darter Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2	G2	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Perry County . . . Continued

Known Species: 36

Vertebrate Animals: 13 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex hoyi

American Pygmy Shrew

S2

G5

--

--

Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Perry --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Pickett County

Known Species: 42

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heuchera parviflora var.
parviflora - *Trichomanes*
boschianum - *Thalictrum mirabile*
- (*Ageratina luciae-brauniae*,
Solidago albopilosa) Herbaceous
Vegetation

Cumberland Plateau Sandstone
Rockhouse

SNR

G2

--

--

Invertebrate Animals: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Batriasymmodes quisnamus

A Cave Obligate Beetle

S3

G3G4

--

--

Terrestrial cave obligate; middle Tennessee.

Kleptochthonius rex

A Cave Obligate Pseudoscorpion

S1

G1

--

--

Terrestrial cave obligate; Eastern Highland Rim.

Lithasia armigera

Armored Rocksnail

S1S2

G3G4

--

--

Partially buried logs, gravel, and preferably submerged rock outcrops; lower Cumberland River & larger tributaries; Obey River.

Nelsonites walteri

A Cave Obligate Beetle

S3

G3G4

--

--

Terrestrial cave obligate, northern Cumberlands.

Orconectes australis

Southern Cave Crayfish

S3

G5

--

--

Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.

Pseudosinella orba

A Cave Springtail

S2

G3G4

--

--

Terrestrial cave obligate; reported from two caves in northern Cumberlands; Fentress & Pickett counties.

Pseudotremia wallaceae

Wallace's Cave Millipede

S1

G1

--

--

Terrestrial cave obligate; collected from riparian mud banks in caves of the northern Eastern Highland Rim; Pickett County.

Stenotrema angellum

Kentucky Slitmouth

S3

G4

--

--

Found under logs and leaf litter of forested hillsides and ravines; northern Eastern Highland Rim.

Tyrannochthonius steevesi

A Cave Obligate Pseudoscorpion

S1

G1

--

--

Terrestrial cave obligate; northernmost Eastern Highland Rim; known from one cave in Pickett County.

Villosa trabalis

Cumberland Bean

S1

G1

E

LE

Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.

Nonvascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Bryoxiphium norvegicum

Sword Moss

S1

G5?

T

--

Sandstone Rockhouses And Shaded Outcroppings

Pellia appalachiana

S2

G4

S

--

Wet Soil, Barrens

Scopelophila cataractae

Agoyan Cataract Moss

S1

G3

S

--

Rock Houses, Copper-Rich Soils

Vascular Plants: 14

St. Rank

Global Rank

St. Prot.

Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Pickett County . . . Continued

Known Species: 42

Vascular Plants: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ageratina luciae-brauniae</i>	Lucy Braun's White Snakeroot Rockhouses	S3	G3	T	--
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Eurybia schreberi</i>	Schreber's Aster Mesic Woods & Seepage Slopes	S1	G4	S	--
<i>Hieracium scabrum</i>	Rough Hawkweed Dry Open Woods And Pastures	S2	G5	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Maianthemum stellatum</i>	Starflower False Solomon's-seal Floodplains And Sandy Woods	S1	G5	E	--
<i>Minuartia cumberlandensis</i>	Cumberland Sandwort Rockhouses	S2	G2G3	E	LE
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Taxus canadensis</i>	American Yew Sandstone Outcrops	S1	G5	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Utricularia inflata</i>	Inflated Bladderwort Ponds, Lake Margins	S1	G5	S	--

Vertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Pickett County . . . Continued

Known Species: 42

Vertebrate Animals: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--

-- End of Pickett --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County

Known Species: 112

Invertebrate Animals: 36		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anguispira jessica</i>	Mountain Disc Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood; Roan Mountain & Mt. Le Conte.	S3	G3G4	--	--
<i>Cambarus conasaugaensis</i>	Mountain Crayfish Mountain seeps & small to medium sized streams in Appalachians; Hiwassee River watershed, Polk County.	S1	G3	--	--
<i>Cambarus hiwasseeensis</i>	Hiwassee Crayfish Under rocks in clear, swift flowing tributaries of the upper Hiwassee River, Polk County.	S1	G3G4	--	--
<i>Cheumatopsyche helma</i>	Helma's Net-spinning Caddisfly Streams of montane origin; east Tennessee; Tennessee River watershed.	S1S3	G3	--	--
<i>Elimia christyi</i>	A Freshwater Snail Found in the Hiwassee River and tributaries; southeast Tennessee.	S2	G2	--	--
<i>Epioblasma florentina walkeri</i>	Tan Riffleshell Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.	S1	G1T1	E	LE
<i>Epioblasma metastrata</i>	Upland Combshell Sand & gravel substrates in riffle sections of small-medium size rivers; Conasauga River; Polk County.	SH	GH	E	LE
<i>Fumonelix archeri</i>	Ocoee Covert In leaf litter or under rock ledges; rich woods north and south of Ocoee River, Cherokee National Forest, Polk County.	S1	G1	--	--
<i>Glyphyalinia ocoae</i>	Blue-gray Glyph Leaf litter on wooded hillsides & ravines; southernmost Blue Ridge; Polk County.	S1	G1	--	--
<i>Glyphyalinia pentadelpia</i>	Pink Glyph Pockets of moist leaves in rich upland woods; mid-elevations of Blue Ridge; southeast Tennessee.	S2	G2G3	--	--
<i>Gomphus consanguis</i>	Cherokee Clubtail Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.	S1	G2G3	--	--
<i>Hamiota altilis</i>	Finelined Pocketbook Creeks/small rivers with substrates of sand, mud, & gravel, & mod current; Conasauga River & Coahulla Ck; Polk & Bradley counties.	S1S2	G2	T	LT
<i>Helicodiscus fimbriatus</i>	Fringed Coil In leaf litter or under rocks on wooded hillsides; southern Blue Ridge; southeast Tennessee.	S3	G4	--	--
<i>Leptoxis virgata</i>	Smooth Mudalia Medium to large rivers, on shoals; portions of upper TN River and some larger tribs; Hiwassee River.	S1	G2	--	--
<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2	G2	--	C
<i>Medionidus acutissimus</i>	Alabama Moccasinshell Small-large rivers in gravel & cobble shoals in shallow water with mod strong current; Conasauga River; Polk County.	S1	G2	T	LT
<i>Medionidus parvulus</i>	Coosa Moccasinshell Highly oxygenated streams & small rivers with moderate to strong flow, in sand and gravel; Conasauga River, Polk County.	S1	G1Q	E	LE



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County . . . Continued

Known Species: 112

Invertebrate Animals: 36 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Mesomphix rugeli</i>	Wrinkled Button Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.	S3	G4	--	--
<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail Riffle areas of spring-fed streams; Cumberland Plateau, Ridge & Valley, & Blue Ridge; not watershed specific.	S1	G3T2T3	--	--
<i>Ophiogomphus edmundo</i>	Edmund's Snaketail Clear, moderately flowing mountain streams and rivers; reported from Conasauga River watershed; Cherokee National Forest.	S1	G1G2	--	--
<i>Paravitrea umbilicaris</i>	Open Supercoil In pockets of deep, moist leaf litter on forested hillsides & ravines; Blue Ridge; southeast Tennessee.	S2?	G2	--	--
<i>Pleurobema chattanoogaense</i>	Painted Clubshell Inhabits riffle areas with substrates of coarse sand and gravel; Conasauga River; Bradley & Polk counties.	S1?	G1Q	--	--
<i>Pleurobema georgianum</i>	Southern Pigtoe High quality small rivers & large streams; shoals and runs with stable sandy-gravel substrates; Conasauga River; Polk & Bradley cos.	S1	G1	E	LE
<i>Pleurobema hanleyianum</i>	Georgia Pigtoe Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.	S1	G1	--	C
<i>Pleurobema oviforme</i>	Tennessee Clubshell Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.	S2S3	G2G3	--	--
<i>Pleurobema troschelium</i>	Alabama Clubshell Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.	S1	G1Q	--	--
<i>Ptychobranchus greenii</i>	Triangular Kidneyshell Medium sized rivers with good current and coarse sand/gravel substrates; Conasauga River; Bradley & Polk counties.	S1	G1Q	E	LE
<i>Somatogyrus sp. 2</i>	Hiwassee Pebblesnail Known from the "dewatered" section of the Hiwassee River upstream of the Appalachia Powerhouse; on rocks in free-flowing water.	S1	G1	--	--
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Stenotrema barbigerum</i>	Fringed Slitmouth On logs on forested hillsides & ravines; far SE Tennessee; Blue Ridge and Ridge & Valley.	S3?	G3G4	--	--
<i>Stenotrema cohuttense</i>	Cohutta Slitmouth In leaf litter of forested hillsides & ravines; far SE Tennessee; S Blue Ridge; Polk County.	S2	G2	--	--
<i>Stenotrema pilula</i>	Pygmy Slitmouth Found under logs and in leaf litter on dry forested hillsides; Blue Ridge; GSMNP.	S3	G3G4	--	--
<i>Strophitus connasaugaensis</i>	Alabama Creekmussel Small-medium sized rivers, in shallow areas with current and substrates of of fine gravel, sand, & silt; Conasauga River; Polk County.	S1	G3	--	--
<i>Ventridens decussatus</i>	Crossed Dome In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.	S2?	G3	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County . . . Continued

Known Species: 112

Invertebrate Animals: 36 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Villosa trabalis</i>	Cumberland Bean Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.	S1	G1	E	LE
<i>Villosa vibex</i>	Southern Rainbow Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.	S2	G5Q	--	--
Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Megaceros aenigmaticus</i>	Megaceros Mid-Elev. Streams On Wet Shaded Rocks	S2S3	G2G3	S	--
Vascular Plants: 49		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Agalinis plukenetii</i>	Purple Gerardia Dry Sandy Woods	SH	G3G5	E-P	--
<i>Agastache scrophulariifolia</i>	Purple Giant Hyssop Rich Mountain Woods	S1S2	G4	T	--
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Cardamine clematitis</i>	Mountain Bittercress High Elevation Seeps	S2	G3	T	--
<i>Cardamine flagellifera</i>	Running Bittercress Mountain Stream Banks	S2	G3	T	--
<i>Chrysogonum virginianum</i>	Green-and-gold Dry Woods And Openings	S2	G5	T	--
<i>Coreopsis delphiniifolia</i>	Larkspur-leaved Coreopsis Pine-Oak Woods	S1	G3?Q	E	--
<i>Coreopsis latifolia</i>	Broad-leaved Tickseed Streamheads	S1S2	G3	E	--
<i>Cyperus dentatus</i>	Toothed Sedge Rocky River Banks	S1	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Dichanthelium acuminatum ssp. leucothrix</i>	Roughish Witchgrass Moist Pine Barrens	S1	G4?Q	S	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Diervilla sessilifolia var. rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County . . . Continued

Known Species: 112

Vascular Plants: 49 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Fuirena squarrosa</i>	Hairy Umbrella-sedge Stream And Lake Margins	S1	G4G5	S	--
<i>Gelsemium sempervirens</i>	Yellow Jessamine Dry Openings	S1S2	G5	S	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Isoetes tennesseensis</i>	Hiwassee Quillwort Rocky River Banks	S1	G1	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lobelia amoena</i>	Southern Lobelia Mountain Flood Plains And Pools	S1S2	G4?	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Magnolia virginiana</i>	Sweetbay Magnolia Forested Acidic Wetlands	S2	G5	T	--
<i>Marshallia obovata</i>	Piedmont Barbara's-buttons Woodlands & Streambanks	S1	G4G5	T	--
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--
<i>Nestronia umbellula</i>	Nestronia Upland Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pilularia americana</i>	American Pillwort Lake Drawdown Zones	S1S2	G5	S	--
<i>Pityopsis ruthii</i>	Ruth's Golden-aster Bouldery River Shoals	S1	G1	E	LE
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County . . . Continued

Known Species: 112

Vascular Plants: 49 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Pseudognaphalium helleri</i>	Heller's Catfoot Dry Sandy Woods	S2	G4G5	S	--
<i>Sacciolepis striata</i>	Gibbous Panic-grass Floodplains And Shallow Pools	S1	G5	S	--
<i>Sedum nevii</i>	Nevius' Stonecrop Rocky Bluffs And Cliffs	S1	G3	E	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Symplocos tinctoria</i>	Horse-sugar Floodplains And Moist Ravines	S2	G5	S	--
<i>Thermopsis fraxinifolia</i>	Ash-leaved Bush-pea Roadsides And Dry Open Woods	S3	G3?	T	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Trillium decumbens</i>	Trailing Trillium Floodplains And Rocky, Open, Mountain Woods	S1	G4	E	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Vaccinium macrocarpon</i>	Cranberry Bogs	S2	G4	T	--
<i>Xerophyllum asphodeloides</i>	Eastern Turkeybeard Dry Oak Or Piney Woods	S3	G4	T	--

Vertebrate Animals: 26		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cyprinella caerulea</i>	Blue Shiner Cool, clear, small to medium-sized rivers over firm substrates.	S1	G2	E	LT



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Polk County . . . Continued

Known Species: 112

Vertebrate Animals: 26 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Desmognathus aeneus</i>	Seepage Salamander Leaf litter in mixed hardwood forests near small creeks, springs and seeps; southern Blue Ridge; SE Tennessee.	S1	G3G4	D	--
<i>Etheostoma brevirostrum</i>	Holiday Darter Bedrock & gravel pools of creeks and small to medium rivers; Conasauga River watershed.	S1	G2	T	--
<i>Etheostoma ditrema</i>	Coldwater Darter Limestone springs and slow spring runs; Conasauga River watershed.	S1	G1G2	T	--
<i>Etheostoma trisella</i>	Trispot Darter Slackwater areas along margins of the Conasauga River & some tributaries; Conasauga River watershed.	S1	G1	T	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hybopsis lineapunctata</i>	Lined Chub Small upland creeks with sandy substrates; Conasauga River watershed.	S1	G3G4	D	--
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma floridana haematoreia</i>	Southern Appalachian Woodrat Forests & talus slopes in southern Appalachians of southeastern Tennessee.	S2	G5T4Q	D	--
<i>Percina antesella</i>	Amber Darter Main channel of Conasauga River in flowing pools & deeper runs with clean substrates of sand, gravel, scattered boulders.	S1	G1G2	E	LE
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina jenkinsi</i>	Conasauga Logperch Deep gravel runs or pools with small stones & sandy bottoms; Conasauga and Jacks rivers; Conasauga River watershed.	S1	G1	E	LE
<i>Percina kusha</i>	Bridled Darter Small rivers with exceptional water quality, in flowing pools with sand, detritus, boulders; Conasauga River watershed.	S1	G2	--	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Polk County . . . Continued

Known Species: 112

Vertebrate Animals: 26 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Plestiodon anthracinus</i>	Coal Skink Humid wooded areas with abundant leaf litter and loose rocks; vicinity of springs, swamps, and bogs; spotty distribution.	S1	G5	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--

-- End of Polk --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Putnam County

Known Species: 55

Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Central Interior Highlands and Appalachian Sinkhole and Depression Pond</i>	Highland Rim Sinkhole and Depression Pond	S2S3	GNR	--	--
<i>Cumberland Sandstone Glade and Barrens</i>	Cumberland Sandstone Glade and Barrens	S2S3	GNR	--	--
Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Thuja occidentalis / Carex eburnea - Pellaea atropurpurea Woodland</i>	White Cedar Cliff/Bluff Woodland	SNR	G2G3	--	--
Invertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Batrissodes pannosus</i>	A Cave Obligate Beetle Terrestrial cave obligate; Eastern Highland Rim.	S1	G1	--	--
<i>Cambarus obeyensis</i>	Obey Crayfish Under cover in small-medium sized streams; headwaters of East Fork Obey River; northern Cumberlands; tertiary burrower.	S2	G2	T	--
<i>Cyprogenia stegaria</i>	Fanshell Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.	S1	G1Q	E	LE
<i>Dactylocythere steevesi</i>	A Cave Obligate Shrimp Aquatic cave obligate; crayfish commensal; Cumberland Plateau & Eastern Highland Rim generally.	S2S3	G4	--	--
<i>Donnaldsoncythere tuberosa</i>	A Cave Obligate Shrimp Aquatic cave obligate; Eastern Highland Rim; Putnam & Overton counties; crayfish commensal.	S2?	G2G3	--	--
<i>Dromus dromas</i>	Dromedary Pearlymussel Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.	S1	G1	E	LE
<i>Epioblasma brevidens</i>	Cumberlandian Combshell Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma capsaeformis</i>	Oyster Mussel Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Kleptochthonius stygius</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Eastern Highland Rim.	S1	G1	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Orconectes incomptus</i>	Tennessee Cave Crayfish Aquatic cave obligate; subterranean streams & shallow pools; lower-elevation caves of Highland Rim escarp; Cumb River watershed.	S1	G1	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Putnam County . . . Continued

Known Species: 55

Invertebrate Animals: 15 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pleurobema clava</i>	Clubshell Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.	SH	G2	E	LE
<i>Sagittocythere barri</i>	Ectocommensal Ostracod Aquatic cave obligate; crayfish commensal.	S3	G5	--	--
<i>Villosa trabalis</i>	Cumberland Bean Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.	S1	G1	E	LE
Vascular Plants: 20		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ageratina luciae-brauniae</i>	Lucy Braun's White Snakeroot Rockhouses	S3	G3	T	--
<i>Botrychium jenmanii</i>	Alabama Grapefern Pine Woods	S1	G3G4	T	--
<i>Carex chapmanii</i>	Chapman's Sedge Wet Woods	S1	G3	T	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush Pond Edges And Open Wetlands	S1	G4	E	--
<i>Elymus svensonii</i>	Svenson's Wild-rye Rocky Bluffs	S2	G3	E	--
<i>Eriogonum longifolium</i> var. <i>harperi</i>	Harper's Umbrella-plant Rocky Bluffs	S1	G4T2	E	--
<i>Erysimum capitatum</i>	Western Wallflower Rocky Bluffs	S1S2	G5	E	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Muhlenbergia cuspidata</i>	Plains Muhly Limestone Cliffs	S1	G4	E	--
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed Lakes And Streams	S1	G5	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Putnam County . . . Continued

Known Species: 55

Vascular Plants: 20 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pycnanthemum torrei</i>	Torrey's Mountain-mint Barrens	S1	G2	S	--
<i>Rhynchospora perplexa</i>	Obscure Beak-rush Marshes, Wet Barrens	S2	G5	T	--
<i>Spiraea alba</i>	Narrow-leaved Meadow-sweet Bogs	S1	G5	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trillium pusillum</i>	Least Trillium Alluvial/Moist Ravines And Dry Ridges	S2	G3	E	--
Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Aneides aeneus</i>	Green Salamander Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.	S3S4	G3G4	--	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma olivaceum</i>	Sooty Darter Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.	S3	G3	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Putnam County . . . Continued

Known Species: 55

Vertebrate Animals: 17 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex cinereus

Cinereus Shrew

S4

G5

D

--

Rich woodlands of many types; open fields; middle and east Tennessee.

Sorex fumeus

Smoky Shrew

S4

G5

D

--

Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Putnam --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rhea County

Known Species: 34

Invertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Nesticus dilutus</i>	Grassy Creek Cave Spider	S1	G1	--	--
	Terrestrial cave obligate; Rhea County.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema oviforme</i>	Tennessee Clubshell	S2S3	G2G3	--	--
	Small, shallow streams & rivers with good current & coarse gravel/sand substrates; Tennessee & Cumberland river systems.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				
<i>Pleurobema rubrum</i>	Pyramid Pigtoe	S1S2	G2G3	--	--
	Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.				
<i>Pseudanophthalmus nortoni</i>	Norton's Cave Beetle	S1	G1	--	--
	Terrestrial cave obligate; Ridge & Valley.				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
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Vascular Plants: 10

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Aureolaria patula</i>	Spreading False-foxglove	S3	G3	S	--
	Oak Woods And Edges				
<i>Diamorpha smallii</i>	Small's Stonecrop	S1S2	G4	E	--
	Sandstone Outcrops				
<i>Gelsemium sempervirens</i>	Yellow Jessamine	S1S2	G5	S	--
	Dry Openings				
<i>Lathyrus palustris</i>	Marsh Pea	S1	G5	S	--
	Wet Woods & Marshes				
<i>Liatris cylindracea</i>	Slender Blazing-star	S2	G5	T	--
	Barrens				
<i>Polygala nana</i>	Dwarf Milkwort	S1	G5	E	--
	Wet Acidic Barrens				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rhea County . . . Continued

Known Species: 34

Vascular Plants: 10 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ribes curvatum</i>	Granite Gooseberry Rocky Woods	S1	G4	T	--
<i>Solidago ptarmicoides</i>	Prairie Goldenrod Barrens	S1S2	G5	E	--
<i>Talinum mengesii</i>	Menge's Fame-flower Dry Rock Ledges	S2	G3	T	--
<i>Talinum teretifolium</i>	Roundleaf Fameflower Dry Sandy Rock Outcrops	S2	G4	T	--
Vertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Phoxinus saylori</i>	Laurel Dace Cool 1st-2nd order streams with slabrock and rubble substrate; Walden Ridge of the Cumberland Plateau; Tennessee River watershed.	S1	G1	E	C
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.	S3	G5	--	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Rhea County . . . Continued Known Species: 34

Vertebrate Animals: 14 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	S4	G5	D	No Status
Open grassy fields; often abundant in thick vegetation near water bodies; statewide.					

-- End of Rhea --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Roane County

Known Species: 75

Invertebrate Animals: 11

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Caecidotea incurva</i>	Incurved Cave Isopod	S1	G2G4	--	--
	Aquatic cave obligate; known from two wet caves in east Tennessee.				
<i>Cambarus deweesae</i>	Valley Flame Crayfish	S1	G4	E	--
	Primary burrower; open areas with high water tables; northern Ridge & Valley.				
<i>Fusconaia cor</i>	Shiny Pigtoe	S1	G1	E	LE
	Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.				
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	S1	G1	E	LE
	Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.				
<i>Io fluvialis</i>	Spiny Riversnail	S2	G2	--	--
	Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Lampsilis virescens</i>	Alabama Lampmussel	S1	G1	E	LE
	Found in sand and gravel substrates in shoal areas of small-medium size rivers; middle and upper TN R system; poss extirpated in TN.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema rubrum</i>	Pyramid Pigtoe	S1S2	G2G3	--	--
	Rivers with strong current and firm sand/gravel substrates; TN & Cumb river systems incl KY Reservoir; W Uplands & W Highland Rim.				
<i>Quadrula cylindrica strigillata</i>	Rough Rabbitsfoot	S2	G3G4T2	E	LE
	Small-medium sized rivers, in clear, shallow riffles with sand-gravel substrates; Tenn. & Cumb. river systems; upland form.				
<i>Villosa perpurpurea</i>	Purple Bean	S1	G1	E	LE
	Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.				

Nonvascular Plants: 2

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myurella julacea</i>	Shale Bluffs	SH	G5	S-P	--
<i>Preissia quadrata</i>		S1	G5	T	--
	Seepy Limestone Cliffs And Bluffs				

Other Types: 1

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--

Vascular Plants: 37

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
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Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Roane County . . . Continued

Known Species: 75

Vascular Plants: 37 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Agalinis auriculata</i>	Earleaved False-foxglove Barrens	S2	G3	E	--
<i>Asplenium scolopendrium</i> var. <i>americanum</i>	Hart's-tongue Fern Sinks	S1	G4T3	E	LT
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Bolboschoenus fluviatilis</i>	River Bulrush Marshes	S1	G5	S	--
<i>Carex gravida</i>	Heavy Sedge Rocky River Bluffs	S1	G5	S	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Delphinium exaltatum</i>	Tall Larkspur Glades And Barrens	S2	G3	E	--
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle Rocky Woodlands And Bluffs	S2	G5	T	--
<i>Diervilla sessilifolia</i> var. <i>rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Elodea nuttallii</i>	Nuttall's Waterweed Aquatic; Streams And Ponds	S2	G5	S	--
<i>Erysimum capitatum</i>	Western Wallflower Rocky Bluffs	S1S2	G5	E	--
<i>Eurybia schreberi</i>	Schreber's Aster Mesic Woods & Seepage Slopes	S1	G4	S	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Juncus brachycephalus</i>	Small-headed Rush Seeps And Wet Bluffs	S2	G5	S	--
<i>Leucothoe racemosa</i>	Fetter-bush Acidic Wetlands And Swamps	S2	G5	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Roane County . . . Continued

Known Species: 75

Vascular Plants: 37 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Marshallia grandiflora</i>	Large-fl. Barbara's-buttons Rocky River Bars	S2	G2	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Pseudognaphalium helleri</i>	Heller's Catfoot Dry Sandy Woods	S2	G4G5	S	--
<i>Ruellia purshiana</i>	Pursh's Wild-petunia Dry Woods	S1S2	G3	S	--
<i>Solidago ptarmicoides</i>	Prairie Goldenrod Barrens	S1S2	G5	E	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Symphyotrichum pratense</i>	Barrens Silky Aster Barrens	S1	G4?	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Viola tripartita</i> var. <i>tripartita</i>	Three-parted Violet Wooded Slopes	S2S3	G5T3	S	--

Vertebrate Animals: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Aimophila aestivalis</i>	Bachman's Sparrow Dry open pine or oak woods; nests on the ground in dense cover.	S1B	G3	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Roane County . . . Continued

Known Species: 75

Vertebrate Animals: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aneides aeneus</i>	Green Salamander	S3S4	G3G4	--	--
	Damp crevices in shaded rock outcrops and ledges; beneath loose bark and cracks of trees and sometimes in/or under logs.				
<i>Cryptobranchus alleganiensis</i>	Hellbender	S3	G3G4	D	No Status
	Rocky, clear creeks and rivers with large shelter rocks.				
<i>Cycleptus elongatus</i>	Blue Sucker	S2	G3G4	T	--
	Swift waters over firm substrates in big rivers.				
<i>Erimonax monachus</i>	Spotfin Chub	S2	G2	T	LT,XN, PXN
	Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.				
<i>Gyrinophilus gulolineatus</i>	Berry Cave Salamander	S1	G1Q	T	--
	Aquatic cave obligate; Ridge & Valley; formerly included with G. pallescens.				
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5	D	--
	Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.				
<i>Hemidactylium scutatum</i>	Four-toed Salamander	S3	G5	D	--
	Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.				
<i>Hemitremia flammea</i>	Flame Chub	S3	G3	D	--
	Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.				
<i>Limnithlypis swainsonii</i>	Swainson's Warbler	S3	G4	D	--
	Mature, rich, damp, deciduous floodplain and swamp forests.				
<i>Myotis grisescens</i>	Gray Myotis	S2	G3	E	LE
	Cave obligate year-round; frequents forested areas; migratory.				
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse	S4	G5	D	--
	Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.				
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard	S3	G5T5	D	--
	Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.				
<i>Percina aurantiaca</i>	Tangerine Darter	S3	G4	D	--
	Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.				
<i>Phoxinus tennesseensis</i>	Tennessee Dace	S3	G3	D	--
	First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.				
<i>Pituophis melanoleucus melanoleucus</i>	Northern Pinesnake	S3	G4T4	T	--
	Well-drained sandy soils in pine/pine-oak woods; dry mountain ridges; E portions of west TN, E to lower elev of the Appalachians.				
<i>Sorex cinereus</i>	Cinereus Shrew	S4	G5	D	--
	Rich woodlands of many types; open fields; middle and east Tennessee.				
<i>Sorex dispar</i>	Long-tailed Shrew	S2	G4	D	--
	Mountainous, forested areas with loose talus; east Tennessee.				
<i>Sorex fumeus</i>	Smoky Shrew	S4	G5	D	--
	Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.				



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Roane County . . . Continued

Known Species: 75

Vertebrate Animals: 24 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Spilogale putorius

Eastern Spotted Skunk

S3

G5

--

--

Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Roane --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Robertson County

Known Species: 20

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lithasia salebrosa

Muddy Rocksnail

S2

G3G4Q

--

--

Formerly occurred in portions of lower Cumberland and lower Tennessee systems; may be limited to dam tailwaters currently.

Orconectes pellucidus

Mammoth Cave Crayfish

S3

G4

--

--

Aquatic cave obligate; subterranean streams & pools of Penneroyal Plain; Montgomery & Robertson counties.

Pseudanophthalmus loganensis

A Cave Obligate Beetle

S1S2

G2G3

--

--

Terrestrial cave obligate; Western Highland Rim.

Vascular Plants: 8

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Astragalus tennesseensis

Tennessee Milk-vetch

S3

G3

S

--

Glades

Carex buxbaumii

Brown Bog Sedge

S1

G5

T

--

Swamps

Helianthus eggertii

Eggert's Sunflower

S3

G3

S

DM

Barrens And Roadsides

Leucothoe racemosa

Fetter-bush

S2

G5

T

--

Acidic Wetlands And Swamps

Ranunculus aquatilis var. *diffusus*

White Water-buttercup

S1

G5T5

E

--

Ponds And Streams

Ranunculus flabellaris

Yellow Water-crowfoot

S2

G5

T

--

Ponds And Marshes

Spiranthes odorata

Sweetscent Ladies'-tresses

S1

G5

E

--

Swamps, Pond Margins

Torreyochloa pallida

Pale Manna Grass

S1

G5

S

--

Pond And Stream Margins

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Etheostoma cinereum

Ashy Darter

S2S3

G2G3

T

--

Small to medium upland rivers with bedrock or gravel substrate and boulders.

Etheostoma microlepidum

Smallscale Darter

S2

G2G3

D

--

Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.

Etheostoma tippecanoe

Tippecanoe Darter

S1S2

G3G4

D

--

Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.

Hemidactylium scutatum

Four-toed Salamander

S3

G5

D

--

Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.

Hyla gratiosa

Barking Treefrog

S3

G5

D

--

Low wet woods and swamps esp. with ephemeral ponds.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Robertson County . . . Continued

Known Species: 20

Vertebrate Animals: 9 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Robertson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rutherford County

Known Species: 78

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Nashville Basin Limestone Glade</i>	Nashville Basin Limestone Glade, Barrens, and Woodland	SNR	GNR	--	--
Ecological Systems: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Dalea foliosa</i> - <i>Mecardonia acuminata</i> - <i>Mitreola petiolata</i> <i>Herbaceous Vegetation</i>	Limestone Glade Streamside Meadow	S2?	G2?	--	--
<i>Eleocharis compressa</i> - <i>Schoenolirion croceum</i> - <i>Carex crawei</i> - <i>Allium cernuum</i> <i>Herbaceous Vegetation</i>	Central Basin Limestone Seep Glade	SNR	G2?	--	--
Invertebrate Animals: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Epioblasma florentina walkeri</i>	Tan Riffleshell Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.	S1	G1T1	E	LE
<i>Pegias fabula</i>	Littlewing Pearlymussel Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.	S1	G1	E	LE
<i>Pseudanophthalmus acherontis</i>	Echo Cave Beetle Terrestrial cave obligate; Central Basin; reported from Wilson & Rutherford counties.	S1	G1	--	--
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3	G3G4T3	--	--
<i>Simpsonaias ambigua</i>	Salamander Mussel In sand or silt under large, flat stones in areas of swift current; occurred historically in E Fk Stones R; 2005 obs in lower Duck R.	S1	G3	--	--
Nonvascular Plants: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cololejeunea ornata</i>	Ornate Cololejeunea Sinks & High Humidity Areas On Limestone	S1	G2G4	T	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
Vascular Plants: 51		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acmella oppositifolia</i>	Creeping Spot-flower Swamps And Wetlands	S3	G5	S	--
<i>Allium burdickii</i>	Narrow-leaf Ramps Rich Woods	S1S2	G4G5	T-CE	--
<i>Allium stellatum</i>	Glade Onion Glades	S1	G5	E	--
<i>Ammoselinum popei</i>	Pope's Sand-parsley Glades	S2	G4	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rutherford County . . . Continued

Known Species: 78

Vascular Plants: 51 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Anemone caroliniana</i>	Carolina Anemone Glades And Cedar Woodlands	S1S2	G5	E	--
<i>Arabis glabra</i>	Tower-mustard Barrens And Open Floodplains	S1	G5	S	--
<i>Arabis hirsuta</i>	Western Hairy Rockcress Glades And Limestone Bluffs	S1	G5	T	--
<i>Arabis perstellata</i>	Braun's Rockcress Limestone Bluffs	S1	G2	E	LE
<i>Arnoglossum plantagineum</i>	Fen Indian-plantain Moist Prairies And Marshes	S2	G4G5	T	--
<i>Astragalus bibullatus</i>	Pyne's Ground-plum Ordovician Limestone Glades	S1	G1	E	LE
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Carex davisii</i>	Davis' Sedge Bottomlands, Riparian Soils	S1	G4	S	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Dalea purpurea</i>	Purple Prairie-clover Barrens	S1	G5	E	--
<i>Echinacea pallida</i>	Pale-purple Coneflower Barrens And Dry Openings	S1	G4	T	--
<i>Echinacea simulata</i>	Wavy-leaf Purple Coneflower Glades And Barrens	S2	G3	T	--
<i>Echinacea tennesseensis</i>	Tennessee Coneflower Ordovician Limestone Glades	S2	G2	E	LE
<i>Eleocharis compressa</i>	Flat-stemmed Spike-rush Wet Limestone Glades	S1	G4	S	--
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush Pond Edges And Open Wetlands	S1	G4	E	--
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--
<i>Evolvulus nuttallianus</i>	Evolvulus Glades	S3	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rutherford County . . . Continued

Known Species: 78

Vascular Plants: 51 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Fimbristylis puberula</i>	Hairy Fimbristylis Wet Prairies And Woods	S1S2	G5	T	--
<i>Gentiana puberulenta</i>	Downy Gentian Barrens	S1	G4G5	E	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Isoetes melanopoda</i>	Blackfoot Quillwort Wet Fields	S1S2	G5	E	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Lesquerella stonensis</i>	Stones River Bladderpod Cultivated Fields	S1	G1	E	--
<i>Liatris cylindracea</i>	Slender Blazing-star Barrens	S2	G5	T	--
<i>Mirabilis albida</i>	Pale Umbrella-wort Glades	S2	G5	T	--
<i>Neviusia alabamensis</i>	Alabama Snow-wreath Upland Woods	S2	G2	T	--
<i>Oenothera macrocarpa</i>	Missouri Primrose Limestone Cedar Glades	S2	G5	T	--
<i>Onosmodium molle</i> ssp. <i>subsetosum</i>	Smooth False Gromwell Limestone Woods	S1	G4G5T4?	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Phlox bifida</i> ssp. <i>stellaria</i>	Glade Cleft Phlox Glades	S3	G5?T3	T	--
<i>Polygala boykinii</i>	Boykin's Milkwort Glades	S2	G4	T	--
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead Swamps, Emergent	S2S3	G5	S	--
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Scleria verticillata</i>	Low Nutrush Wet Prairies And Fens	S2	G5	S	--
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Solidago gattingeri</i>	Gattinger's Goldenrod Glades	S1	G3?Q	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Rutherford County . . . Continued

Known Species: 78

Vascular Plants: 51 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sporobolus heterolepis</i>	Northern Dropseed Limestone Glades And Barrens	S1	G5	S	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Symphyotrichum praealtum</i>	Willow Aster Moist Prairies And Marshes	S1	G5	E	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Trifolium calcaricum</i>	Running Glade Clover Glades, Cedar Woods, And Thickets	S1	G1	E	--
<i>Veronica catenata</i>	Sessile Water-speedwell Slow Flowing Streams And Ditches	S1	G5	E	--
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--

Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ambystoma barbouri</i>	Streamside Salamander Seasonally ephemeral karst streams; middle Tennessee.	S2	G4	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma microlepidum</i>	Smallscale Darter Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	S2	G2G3	D	--
<i>Etheostoma striatulum</i>	Striated Darter Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1	G1	T	--
<i>Etheostoma tippecanoe</i>	Tippecanoe Darter Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.	S1S2	G3G4	D	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Moxostoma lacerum</i>	Harelip Sucker Medium to large, warm, sluggish streams with relatively low turbidity and silt levels; presumed extinct.	SX	GX	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Rutherford County . . . Continued

Known Species: 78

Vertebrate Animals: 17 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Rutherford --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Scott County

Known Species: 65

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heuchera parviflora var. *parviflora* - *Trichomanes boschianum* - *Thalictrum mirabile* - (*Ageratina luciae-brauniae*, *Solidago albopilosa*) Herbaceous Vegetation

Cumberland Plateau Sandstone Rockhouse

SNR

G2

--

--

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Alasmidonta atropurpurea

Cumberland Elktoe

S1S2

G1G2

E

LE

Small creeks to medium-sized rivers with slow current, sand substrates, and large cobble; upper Cumberland River watershed.

Cambarus bouchardi

Big South Fork Crayfish

S1

G2G3

E

--

Small to medium sized streams under rock cover; Roaring Paunch Creek & tributaries (Big South Fork watershed); tertiary burrower.

Epioblasma brevidens

Cumberlandian Combshell

S1

G1

E

LE

Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.

Epioblasma florentina walkeri

Tan Riffleshell

S1

G1T1

E

LE

Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.

Pegias fabula

Littlewing Pearlymussel

S1

G1

E

LE

Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.

Villosa trabalis

Cumberland Bean

S1

G1

E

LE

Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.

Nonvascular Plants: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Bryoxiphium norvegicum

Sword Moss

S1

G5?

T

--

Sandstone Rockhouses And Shaded Outcroppings

Lejeunea blomquistii

Blomquist Leafy Liverwort

S1S2

G1G2

S

--

Mid Elev. Gorges On Rock Or Bark

Microlejeunea globosa

Cardot's Lejeunea

S1

G3?

S

--

Creekside Edge Of Rockhouse

Pellia appalachiana

S2

G4

S

--

Wet Soil, Barrens

Vascular Plants: 37

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Ageratina luciae-brauniae

Lucy Braun's White Snakeroot
Rockhouses

S3

G3

T

--

Berberis canadensis

American Barberry
Rocky Woods And River Bars

S2

G3

S

--

Botrychium jenmanii

Alabama Grapefern
Pine Woods

S1

G3G4

T

--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Scott County ... Continued

Known Species: 65

Vascular Plants: 37 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--
<i>Calamovilfa arcuata</i>	Cumberland Sandgrass Rocky And Sandy River Bars	S2	G2	E	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Carex echinata ssp. echinata</i>	Little Prickly Sedge Swamps And Bogs	S1?	G5T5	S	--
<i>Chrysogonum virginianum</i>	Green-and-gold Dry Woods And Openings	S2	G5	T	--
<i>Comptonia peregrina</i>	Sweet-fern Rocky, Sandy Stream-Sides	S1	G5	E	--
<i>Conradina verticillata</i>	Cumberland Rosemary Sandy, Rocky River Banks And Bars	S3	G3	T	LT
<i>Corallorhiza maculata</i>	Spotted Coralroot Shady, Moist Woods	S1	G5	T	--
<i>Corydalis sempervirens</i>	Pale Corydalis Dry Or Rocky Woods	S1S2	G4G5	E	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Cypripedium kentuckiense</i>	Southern Lady's-slipper Riparian Forests	S2	G3	E	--
<i>Dichanthelium ensifolium ssp. ensifolium</i>	Small-leaved Panicgrass Moist Pine Barrens	S2	GNR	S	--
<i>Eriophorum virginicum</i>	Tawny Cotton-grass Bogs	S1S2	G5	E	--
<i>Eurybia saxicastellii</i>	Rockcastle Aster Rocky River Bars	S1S2	G1G2	E	--
<i>Fothergilla major</i>	Mountain Witch-alder Rocky Slopes And River Banks	S2	G3	T	--
<i>Helenium brevifolium</i>	Shortleaf Sneezeweed Rocky, Sandy Streamsides	S1	G4	E	--
<i>Hexastylis virginica</i>	Virginia Heartleaf Sandy Or Rocky Woods	S2	G4	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrocotyle americana</i>	American Water-pennywort Wet Soils And Pools	S1	G5	E	--
<i>Hymenophyllum tayloriae</i>	Taylor's Filmy Fern Moist Rockhouses	S2	G2	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Scott County ... Continued

Known Species: 65

Vascular Plants: 37 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Marshallia grandiflora</i>	Large-fl. Barbara's-buttons Rocky River Bars	S2	G2	E	--
<i>Minuartia cumberlandensis</i>	Cumberland Sandwort Rockhouses	S2	G2G3	E	LE
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Potamogeton tennesseensis</i>	Tennessee Pondweed Slow Acidic Streams	S2	G2	T	--
<i>Solidago arenicola</i>	Southern racemose goldenrod Rocky River Bars	S1S2	GNR	T	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Talinum teretifolium</i>	Roundleaf Fameflower Dry Sandy Rock Outcrops	S2	G4	T	--
<i>Taxus canadensis</i>	American Yew Sandstone Outcrops	S1	G5	E	--
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trichomanes boschianum</i>	Bristle-fern Rocky Seeps	S1S2	G4	T	--

Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Desmognathus welteri</i>	Black Mountain Salamander Spring runs and permanent streams in wooded mountainous terrain; northern Cumberlands.	S3	G4	D	--
<i>Etheostoma baileyi</i>	Emerald Darter Creeks and small rivers with riffles containing gravel or rubble; upper Cumberland drainage.	S2	G4G5	D	--
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Scott County ... Continued

Known Species: 65

Vertebrate Animals: 17 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Etheostoma percnurum</i>	Duskytail Darter Gently flowing pools near riffles; larger creeks and medium size rivers; Tennessee & Cumberland river drainages.	S1	G2	E	LE,XN
<i>Etheostoma sagitta</i>	Arrow Darter Smaller streams of northern Cumberland Plateau & Cumberland Mountains; Cumberland River watershed.	S2	G3G4	D	--
<i>Etheostoma susanae</i>	Cumberland Darter Creeks in the upper Cumberland River watershed of the Cumberland Mountains; extremely rare.	S1	G1G2	E	C
<i>Etheostoma tippecanoe</i>	Tippecanoe Darter Medium to large rivers in shallow riffle areas containing fine cherty gravel; Cumberland River watershed.	S1S2	G3G4	D	--
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rubellus</i>	Rosyface Shiner Clear, swift, large creeks with bottoms of clean gravel or rubble; trips to Cumberland River upst Cumberland Falls.	S2	G5	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Phoxinus cumberlandensis</i>	Blackside Dace Small upland tributaries with sand, sandstone, and shale substrates in unsilted conditions; upper Cumberland R. watershed.	S2	G2	T	LT
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Vermivora chrysoptera</i>	Golden-winged Warbler Early successional habitats in foothill regions of Appalachians.	S3B	G4	D	--

-- End of Scott --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sequatchie County

Known Species: 25

Invertebrate Animals: 4		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cambarus hamulatus</i>	Prickly Cave Crayfish Aquatic cave obligate; Sequatchie Valley & southern Cumberlands.	S3	G3G4	--	--
<i>Cambarus pristinus</i>	Pristine Crayfish Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	S2	G2	E	--
<i>Litocampa sp. 5</i>	A Cave Dipluran From TN Terrestrial cave obligate, Cumberland Plateau escarpment.	S1	G2	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
Vascular Plants: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cyperus plukenetii</i>	Plukenet's Galingale Sandy Barrens	SH	G5	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Diamorpha smallii</i>	Small's Stonecrop Sandstone Outcrops	S1S2	G4	E	--
<i>Dichanthelium ensifolium ssp. curtifolium</i>	Short-leaved Panic Grass Boggy Areas	S1	G3?	E	--
<i>Diervilla sessilifolia var. rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Sabatia capitata</i>	Cumberland Rose Gentian Dry Open Woods, Powerlines	S2	G2	E	--
<i>Scutellaria montana</i>	Large-flowered Skullcap Escarpments, Dry Woods	S2	G3	T	LT
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sequatchie County . . . Continued

Known Species: 25

Vascular Plants: 15 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Woodwardia virginica

Virginia Chainfern

S2

G5

S

--

Acidic Wetlands

Vertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Gyrinophilus palleucus

Tennessee Cave Salamander

S2

G2G3

T

--

Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.

Hemidactylium scutatum

Four-toed Salamander

S3

G5

D

--

Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.

Hemitremia flammea

Flame Chub

S3

G3

D

--

Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.

Myotis grisescens

Gray Myotis

S2

G3

E

LE

Cave obligate year-round; frequents forested areas; migratory.

Neotoma magister

Allegheny Woodrat

S3

G3G4

D

--

Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.

Phoxinus tennesseensis

Tennessee Dace

S3

G3

D

--

First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.

-- End of Sequatchie --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County

Known Species: 125

Ecological Systems: 3		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Central and Southern Appalachian Spruce-Fir Forest</i>	Red Spruce - Fraser Fir Forest	SNR	GNR	--	--
<i>Southern Appalachian Grass and Shrub Bald</i>	Southern Appalachian Grass and Shrub Bald	SNR	GNR	--	--
<i>Southern Appalachian Spray Cliff</i>	Southern Appalachian Spray Cliff	SNR	GNR	--	--
Invertebrate Animals: 11		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allocapnia brooksi</i>	Sevier Snowfly	S2	G2	--	--
	Small-medium size creeks; northern Ridge & Valley and adj. Blue Ridge; upper Tennessee River watershed.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Microhexura montivaga</i>	Spruce-fir Moss Spider	S1	G1	--	LE
	Moss mats in high-elevation spruce-fir forests; Southern Appalachians.				
<i>Obovaria retusa</i>	Ring Pink	S1	G1	E	LE
	Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.				
<i>Paravitrea clappi</i>	Mirey Ridge Supercoil	S2S3	G2G3	--	--
	In moist leaf litter generally above 5,000 ft; Blue Ridge; Blount & Sevier counties; Great Smoky Mountains NP.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Plethobasus cyphus</i>	Sheepnose	S2S3	G3	--	C
	Large to medium-sized rivers, in riffles and coarse sand/gravel subst; TN & Cumb river systems incl KY Reservoir; W Uplands & Rim.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	S3	G3G4T3	--	--
	Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.				
Nonvascular Plants: 24		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acrobolbus ciliatus</i>	A Liverwort	S1	G3?	S	--
	Spruce-Fir Forests And Moist Ravines On Rock				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Nonvascular Plants: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Anastrophyllum saxicola</i>	A Liverwort High Elev. Rocky Peat; Heath & Wet Rocks	S1	G3G4	S	--
<i>Bazzania nudicaulis</i>	A Liverwort Bark Of Mature Fraser Fir	S2	G2G3	T	--
<i>Brachydontium trichodes</i>	Peak Moss High Elev. Seeps And Rocky Areas	S1	G2G4	E	--
<i>Cephaloziella massalongi</i>	A Liverwort Montaine Rock Crevices High In Copper Or Sulphur	S1	G3G5	E	--
<i>Cephaloziella spinicaulis</i>	Crevices Of Rock Outcrops	S1	G3G4	S	--
<i>Entodon concinnus</i>	Lime Entodon Moist Calcareous Rocks	S1	G4G5	S	--
<i>Grimmia olneyi</i>	Grimmia Moss High Elev. Dry Rocks And Cliffs	SH	G3G5	S	--
<i>Gymnomitrium laceratum</i>	A Liverwort Peaty Soil Of Spruce-Fir Forests	S1	G3G5	T	--
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Leptodontium viticulosoides</i> var. <i>sulphureum</i>	Grandfather Mountain Leptodontium Bark Of Old Growth Fraser Fir	S1S2	G2	E	--
<i>Leptohymenium sharpii</i>	Mount Leconte Moss Old Growth Fraser Fir Forests, On Rocks	S1	G1	E	--
<i>Leptoscyphus cuneifolius</i>	A Liverwort Bark Of Mature Fraser Fir	S1	G4G5	E	--
<i>Marsupella funckii</i>	A Liverwort Thin Soil, Edge Of High Elev. Outcrops	S1	G4G5	E	--
<i>Megaceros aenigmaticus</i>	Megaceros Mid-Elev. Streams On Wet Shaded Rocks	S2S3	G2G3	S	--
<i>Mielichhoferia elongata</i>	A Moss Woods Above 5000'	S1	G4?	S	--
<i>Orthodontium pellucens</i>	Translucent Orthodontium Soil Peat Or Rock Of Heath Balds	SH	G5	S	--
<i>Plagiochila exigua</i>	A Liverwort Bark Of Mature Fraser Fir And Mountain Ash	S1S2	G4?	S	--
<i>Plagiochila retrorsa</i>	a liverwort Shaded Moist Ledges And Bluffs	S1	GNR	S	--
<i>Porella wataugensis</i>	Watauga Porella Moist Boulders & Cliffs, Phyllite	S1S2	G1G2Q	T	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Sreams	S2	G3	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Nonvascular Plants: 24 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Sphenolobopsis pearsoni</i>	Sphenolobopsis Mainly Bark Of Mature Fraser Fir	S1	G2?	E	--
<i>Tetrodontium brownianum</i>	Little Georgia Montaine Rocky Seeps And Falls	S1	G3G4	S	--
<i>Tortula ammonsiana</i>	Ammons's Tortula Se To West Facing Seepy, Siliceous Rock	S1	G1	E	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 52		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Abies fraseri</i>	Fraser Fir Forests Above 5500 Ft	S1S2	G2	T	--
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Agrostis mertensii</i>	Arctic Bentgrass Mountain Balds And Moist Ravines	SH	G5	S	--
<i>Amelanchier sanguinea</i>	Roundleaf Shadbush Rocky Slopes And River Banks	S2	G5	T	--
<i>Betula papyrifera var. cordifolia</i>	Heart-leaved Paper Birch Mountain Burns	S1	G5T5	E	--
<i>Botrychium matricariifolium</i>	Chamomile Grapefern Mountain Woods And Thickets	S1	G5	S	--
<i>Calamagrostis cainii</i>	Cain's Reedgrass High Elevation Rock Outcrops And Slide Areas	S1	G1	E	--
<i>Cardamine clematitis</i>	Mountain Bittercress High Elevation Seeps	S2	G3	T	--
<i>Cardamine flagellifera</i>	Running Bittercress Mountain Stream Banks	S2	G3	T	--
<i>Cardamine rotundifolia</i>	Round-leaf Watercress Mucky Wetlands And Seeps	S2S3	G4	S	--
<i>Carex misera</i>	Wretched Sedge Mountain Ledges And Balds	S2	G3	T	--
<i>Carex ruthii</i>	Ruth's Sedge Mountain Forests And Wet Areas	S2	G3	T	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Vascular Plants: 52 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Clintonia borealis</i>	Clinton's Lily High Elevation Mesic Forests	S2S3	G5	S	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Drosera rotundifolia</i>	Roundleaf Sundew Bogs & Seeps	S1	G5	T	--
<i>Fothergilla major</i>	Mountain Witch-alder Rocky Slopes And River Banks	S2	G3	T	--
<i>Gentiana linearis</i>	Narrow-leaved Gentian High Elevation Wet Areas	S1	G4G5	T	--
<i>Geum radiatum</i>	Spreading Avens High Elevation Outcrops And Balds	S1	G2	E	LE
<i>Glyceria nubigena</i>	Smoky Mountains Mannagrass Mountain Balds And Open Seeps	S1S2	G2	T	--
<i>Huperzia appalachiana</i>	Appalachian Fir Clubmoss Spruce-Fir Forest	S1	G4G5	T	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hymenophyllum tayloriae</i>	Taylor's Filmy Fern Moist Rockhouses	S2	G2	S	--
<i>Hypericum graveolens</i>	Mountain St. John's-wort Boggy Woods And River Banks	S3	G3	E	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Juncus trifidus</i>	Highland Rush Dry Cliff Ledges	SH	G5	E-P	--
<i>Krigia montana</i>	False Dandelion Dry Rocky Openings	S1	G3	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lonicera canadensis</i>	American Fly-honeysuckle Mountain Woods And Streams	S1	G5	T	--
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Menziesia pilosa</i>	Minniebush Heath Balds And Cliffs	S2	G4G5	S	--
<i>Milium effusum</i>	Tall Millet-grass Rich Woods	S1	G5	S	--
<i>Monotropsis odorata</i>	Sweet Pinesap Piney Woods	S2	G3	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Vascular Plants: 52 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Phegopteris connectilis</i>	Northern Beechfern Mountain Bogs And Rocky Seeps	S1	G5	S	--
<i>Pieris floribunda</i>	Mountain Fetter-bush Heath Thickets	S2	G4	T	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--
<i>Prunus virginiana</i>	Choke Cherry Moist Coves And Slopes	S1	G5	S	--
<i>Rugelia nudicaulis</i>	Rugel's Ragwort High Elevation Open Woods	S2	G3	E	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Spiranthes ochroleuca</i>	Yellow Nodding Ladies'-tresses Moist Mountain Woods	SH	G4	E-P	--
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Streptopus amplexifolius</i>	White Mandarin Wet Cliffs And Mountain Woods	S1	G5	T	--
<i>Streptopus roseus</i>	Rosy Twisted-stalk Rich, Moist Mountain Woods	S2	G5	S	--
<i>Thalictrum coriaceum</i>	Leatherleaf Meadowrue Alluvial Woods And Moist Bluffs	S1	G4	T	--
<i>Thelypteris simulata</i>	Bog Fern Acidic Marshes And Bogs	SH	G4G5	E-P	--
<i>Trichomanes petersii</i>	Dwarf Filmy-fern Rocky Seeps	S2	G4G5	T	--
<i>Trichophorum cespitosum</i>	Tufted Club-rush Mountain Bogs	S1	G5	E	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Xerophyllum asphodeloides</i>	Eastern Turkeybeard Dry Oak Or Piney Woods	S3	G4	T	--
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--

Vertebrate Animals: 34		St. Rank	Global Rank	St. Prot.	Fed. Prot.
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Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Vertebrate Animals: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Condylura cristata</i>	Star-nosed Mole Hydric soils in beech-maple-birch forests at higher elevations in the Appalachians.	S2	G5	D	--
<i>Contopus cooperi</i>	Olive-sided Flycatcher Forest, woodland, and open habitats with scattered trees, esp. with tall dead snags.	S1	G4	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Desmognathus wrighti</i>	Pygmy Salamander Mature hardwoods & spruce-fir forests under moss, leaf litter, logs, bark, and rocks; high elevations; Blue Ridge.	S2S3	G3G4	D	--
<i>Eurycea junaluska</i>	Junaluska Salamander Beneath rocks along medium to large streams; S Blue Ridge; Monroe, Blount, & Sevier counties.	S2	G3	D	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel Spruce-fir or mature hardwood forest with snags; in tree cavities or leaf nests; higher elevations of the Appalachians.	S1S2	G5T1	E	LE
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole Mossy rocks and logs, and cool, moist talus slopes at higher elevations of the Appalachians.	S2	G4T3	D	--
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sevier County . . . Continued

Known Species: 125

Vertebrate Animals: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma floridana haematoreia</i>	Southern Appalachian Woodrat Forests & talus slopes in southern Appalachians of southeastern Tennessee.	S2	G5T4Q	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Percina tanasi</i>	Snail Darter Sand and gravel shoals of moderately flowing, vegetated, large creeks; upper Tennessee River watershed.	S2S3	G2G3	T	LT
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Sorex palustris</i>	American Water Shrew Most abundant along small cold streams with thick overhanging riparian growth; Appalachian Mountains.	S2	G5	D	--
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker Deciduous or mixed deciduous-coniferous forest; winters statewide and breeds in Appalachian Mountains.	S1B,S4N	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Sevier --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Shelby County

Known Species: 33

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lampsilis siliquoidea

Fatmucket

S2

G5

--

--

Slackwater with mud subst; Wolf R (Miss R trib); west TN; may occur at Reelfoot Lk; also rept Drakes Ck (Cumb R), Sumner Co.

Obovaria jacksoniana

Southern Hickorynut

S1

G2

--

--

Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.

Webbhelix multilineata

Striped Whitelip

S2

G5

--

--

Low wet habitats, marshes, floodplains, meadows; lake margins; under leaf litter or drift; Mississippi River floodplain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 13

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Acmella oppositifolia

Creeping Spot-flower

S3

G5

S

--

Swamps And Wetlands

Heteranthera multiflora

Multiflowered Mud-plantain

SH

G4

S

--

Shallow Water, Mud Flats

Hottonia inflata

Featherfoil

S2

G4

S

--

Wet Sloughs And Ditches

Hydrastis canadensis

Goldenseal

S3

G4

S-CE

--

Rich Woods

Iris fulva

Copper Iris

S2

G5

T

--

Bottomlands

Ophioglossum crotalophoroides

Bulbous Adder's-tongue

SH

G5

S

--

Meadows And Grassy Slopes

Panax quinquefolius

American Ginseng

S3S4

G3G4

S-CE

--

Rich Woods

Phacelia ranunculacea

Blue Scorpion-weed

S2S3

G4

S

--

Alluvial Woods

Prenanthes crepidinea

Nodding Rattlesnake-root

S2

G4

E

--

Rich Bottomlands

Schisandra glabra

Red Starvine

S2

G3

T

--

Rich Mesic Woods, Bluffs

Silene ovata

Ovate Catchfly

S2

G3

E

--

Open Oak Woods

Symphyotrichum praealtum

Willow Aster

S1

G5

E

--

Moist Prairies And Marshes

Ulmus crassifolia

Cedar Elm

S2

G5

S

--

Swamps



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Shelby County ... Continued

Known Species: 33

Vertebrate Animals: 16		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammocrypta beani</i>	Naked Sand Darter Shifting sand bottoms & sandy runs; Hatchie River & larger tribs.	S2	G5	D	--
<i>Chondestes grammacus</i>	Lark Sparrow Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.	S1B	G5	T	--
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Ictinia mississippiensis</i>	Mississippi Kite Undisturbed stands of lowland and floodplain forests and along major rivers.	S2S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Neotoma floridana illinoensis</i>	Eastern Woodrat Forested areas, caves & outcrops; west Tennessee generally.	S3	G5T5	D	--
<i>Noturus gladiator</i>	Piebald Madtom Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.	S3	G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Sterna antillarum athalassos</i>	Interior Least Tern Mississippi River sand bars & islands, dikes. 	S2S3B	G4T2Q	E	LE
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Vireo bellii</i>	Bell's Vireo Thickets adjacent to water, bottomlands; west Tennessee and one confirmed location in Western Highland Rim.	S1B	G5	--	No Status

-- End of Shelby --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Smith County

Known Species: 33

Invertebrate Animals: 14

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Cumberlandia monodonta</i>	Spectaclecase	S2S3	G3	--	C
	Medium to large rivers; in substrates from mud and sand to gravel, cobble, and boulders; Cumberland and Tennessee river systems.				
<i>Cyprogenia stegaria</i>	Fanshell	S1	G1Q	E	LE
	Medium to large streams and rivers with coarse sand and gravel substrates; Cumberland and Tennessee river systems.				
<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma capsaeformis</i>	Oyster Mussel	S1	G1	E	LE
	Shallow riffles in mod-swift current of small-medium rivers with coarse sand and gravel; Tennessee & Cumberland river systems.				
<i>Epioblasma obliquata obliquata</i>	Catspaw	S1	G1T1	E	LE
	Medium-large rivers, in sand and gravel substrates in runs and riffles; Tennessee & Cumberland river systems.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Obovaria retusa</i>	Ring Pink	S1	G1	E	LE
	Large rivers in gravel and sand bars; Tennessee & Cumberland river watersheds; many historic locations currently inundated.				
<i>Orconectes incomptus</i>	Tennessee Cave Crayfish	S1	G1	E	--
	Aquatic cave obligate; subterranean streams & shallow pools; lower-elevation caves of Highland Rim escarp; Cumb River watershed.				
<i>Plethobasus cicatricosus</i>	White Wartyback	S1	G1	E	LE
	Presumed to inhabit shoals and riffles in large rivers; Tennessee & Cumberland river systems. Very rare & poss extirpated in TN.				
<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	S1	G1	E	LE
	Large rivers in sand-gravel-cobble substrates in riffles and shoals in deep flowing water; Cumberland & Tennessee river systems.				
<i>Pleurobema clava</i>	Clubshell	SH	G2	E	LE
	Small/med-sized rivers and streams; deeply buried in sand/fine gravel or in clean, coarse sand/gravel runs; lower Cumb. & Tenn. rivers.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				
<i>Villosa trabalis</i>	Cumberland Bean	S1	G1	E	LE
	Riffle areas of small rivers & streams in sand, gravel, & cobble substrates with swift current; upper Cumb. & upper Tenn. river systems.				

Nonvascular Plants: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Tortula fragilis</i>	Fragile Tortula	S1	G5	E	--
	Steep Calcareous Bluffs				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Smith County . . . Continued

Known Species: 33

Vascular Plants: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--
<i>Cerastium velutinum</i> var. <i>velutinum</i>	Velvety Cerastium Bluffs	S1	G5T4?	E	--
<i>Elymus svensonii</i>	Svenson's Wild-rye Rocky Bluffs	S2	G3	E	--
<i>Eriogonum longifolium</i> var. <i>harperi</i>	Harper's Umbrella-plant Rocky Bluffs	S1	G4T2	E	--
<i>Erysimum capitatum</i>	Western Wallflower Rocky Bluffs	S1S2	G5	E	--
<i>Geranium robertianum</i>	Herb-robert Limestone Ledges And Bluffs	S1	G5	S	--
<i>Lesquerella globosa</i>	Short's Bladderpod Limestone Talus Slopes And Cliffs	S2	G2	E	C
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
Vertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Etheostoma olivaceum</i>	Sooty Darter Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.	S3	G3	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR. -- End of Smith --	S3	G3G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Stewart County

Known Species: 48

Ecological Systems: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Central Interior Highlands and Appalachian Sinkhole and Depression Pond

Highland Rim Sinkhole and Depression Pond

S2S3

GNR

--

--

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Lampsilis abrupta

Pink Mucket

S2

G2

E

LE

Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.

Vascular Plants: 27

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Apios priceana

Price's Potato-bean

S2

G2

E

LT

Openings In Rich Woods

Asclepias purpurascens

Purple Milkweed

S1

G5?

S

--

Barrens

Aureolaria patula

Spreading False-foxglove

S3

G3

S

--

Oak Woods And Edges

Baptisia bracteata var.
leucophaea

Cream Wild-indigo

S1S2

G4G5T4T5

S

--

Dry Oak Woods And Barrens

Carex comosa

Bristly Sedge

S2

G5

T

--

Swamps

Cimicifuga rubifolia

Appalachian Bugbane

S3

G3

T

--

Rich Woods

Eleocharis intermedia

Matted Spike-rush

S1

G5

E

--

Wet Areas

Eleocharis lanceolata

Lance-like Spike-rush

S1

G4G5

S

--

Wet Areas

Hasteola suaveolens

Sweet-scented Indian-plantain

S2

G4

T

--

Alluvial Woods, Moist Slopes

Heteranthera limosa

Blue Mud-plantain

S1S2

G5

T

--

Mud Flats

Hieracium longipilum

Hairy Hawkweed

S1

G4G5

S

--

Dry Fields And Sandy Road Banks

Hydrastis canadensis

Goldenseal

S3

G4

S-CE

--

Rich Woods

Iris brevicaulis

Lamance Iris

S1

G4

E

--

Bottomlands

Juglans cinerea

Butternut

S3

G4

T

--

Rich Woods And Hollows

Lilium michiganense

Michigan Lily

S3

G5

T

--

Swamps And Open Wet Woods



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Stewart County . . . Continued

Known Species: 48

Vascular Plants: 27 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lysimachia fraseri</i>	Fraser's Loosestrife Dry Open Woods	S2	G3	E	--
<i>Neobekia aquatica</i>	Lake Cress Gum Or Cypress Swamps	S2	G4?	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Phacelia ranunculacea</i>	Blue Scorpion-weed Alluvial Woods	S2S3	G4	S	--
<i>Phlox pilosa ssp. ozarkana</i>	Ozark Downy Phlox Rocky, Dry Open Woods	S1S2	G5T4?	S	--
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root Barrens And Dry Woodlands	S2	G3	S	--
<i>Prenanthes crepidinea</i>	Nodding Rattlesnake-root Rich Bottomlands	S2	G4	E	--
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower Barrens	S2	G5	T	--
<i>Sagittaria brevirostra</i>	Short-beaked Arrowhead Swamps And Floodplains	S1	G5	T	--
<i>Salvia azurea var. grandiflora</i>	Blue Sage Barrens	S3	G4G5T4?	S	--

Vertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acipenser fulvescens</i>	Lake Sturgeon Bottoms of large, clean rivers and lakes.	S1	G3G4	E	--
<i>Ammodramus henslowii</i>	Henslow's Sparrow Damp open fields and meadows with grass interspersed with weeds or shrubs.	S1B	G4	D	--
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Stewart County . . . Continued

Known Species: 48

Vertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.	S2S3	G3G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Nerodia erythrogaster neglecta</i>	Copperbelly Watersnake Warm, quiet waters; wooded lakes, streams, sloughs; northern middle Tennessee; lower Cumberland & Tennessee river watersheds.	S2S3	G5T3	--	No Status
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Pooecetes gramineus</i>	Vesper Sparrow Balds, old pastures; ground nester.	S1B,S4N	G5	D	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Stewart --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sullivan County

Known Species: 65

Invertebrate Animals: 12		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allocapnia brooksi</i>	Sevier Snowfly Small-medium size creeks; northern Ridge & Valley and adj. Blue Ridge; upper Tennessee River watershed.	S2	G2	--	--
<i>Epioblasma florentina walkeri</i>	Tan Riffleshell Found in river headwaters, in riffles and shoals in sand and gravel substrates; Tennessee & Cumberland river systems.	S1	G1T1	E	LE
<i>Fusconaia cor</i>	Shiny Pigtoe Shoals and riffles of small-medium sized rivers with mod-fast current over sand-cobble substrates; upper Tennessee River watershed.	S1	G1	E	LE
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.	S1	G1	E	LE
<i>Gomphus consanguis</i>	Cherokee Clubtail Small, spring-fed streams w/sand, gravel & fine detritus substrate in partly shaded to open areas; Ridge & Valley.	S1	G2G3	--	--
<i>Helicodiscus notius specus</i>	A Terrestrial Snail Cave obligate; feeds on cricket guano; Ridge & Valley and Eastern Highland Rim (tentatively).	S1?	G5T2	--	--
<i>Io fluvialis</i>	Spiny Riversnail Shallow waters of shoals that are rapid to moderate and well-oxygenated; Tennessee River & main tributaries; E Tennessee.	S2	G2	--	--
<i>Nesticus paynei</i>	A Cave Spider Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.	S3	G3G4	--	--
<i>Pegias fabula</i>	Littlewing Pearlymussel Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.	S1	G1	E	LE
<i>Quadrula intermedia</i>	Cumberland Monkeyface Shallow riffle and shoal areas of headwater streams and bigger rivers, in coarse sand/gravel substrates; Tennessee River system.	S1	G1	E	LE
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Villosa perpurpurea</i>	Purple Bean Creeks to medium-sized rivers, headwaters, in riffles with coarse sand & gravel & some silt; upper Tennessee River watershed.	S1	G1	E	LE

Vascular Plants: 34		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allium burdickii</i>	Narrow-leaf Ramps Rich Woods	S1S2	G4G5	T-CE	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Botrychium matricariifolium</i>	Chamomile Grapefern Mountain Woods And Thickets	S1	G5	S	--
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sullivan County . . . Continued

Known Species: 65

Vascular Plants: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane Rich Woods	S3	G3	T	--
<i>Cymophyllus fraserianus</i>	Fraser's Sedge Mixed Mesophytic Forests	S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Dryopteris cristata</i>	Crested Shield-fern Bogs	S2	G5	T	--
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--
<i>Goodyera repens</i>	Dwarf Rattlesnake-plantain Moist Conifer/Rhododendron Woods	S1	G5	S	--
<i>Hexastylis virginica</i>	Virginia Heartleaf Sandy Or Rocky Woods	S2	G4	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Magnolia virginiana</i>	Sweetbay Magnolia Forested Acidic Wetlands	S2	G5	T	--
<i>Maianthemum stellatum</i>	Starflower False Solomon's-seal Floodplains And Sandy Woods	S1	G5	E	--
<i>Meehanian cordata</i>	Heartleaf Meehanian Wooded Mountain Slopes	S2	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid Wet Meadows And Open Woods	S2	G5	E	--
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Potamogeton epihydrus</i>	Nuttall's Pondweed Lakes And Streams	S1S2	G5	S	--
<i>Pyrola americana</i>	American Wintergreen Moist Woods And Bogs	S2	G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sullivan County . . . Continued

Known Species: 65

Vascular Plants: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Silene caroliniana ssp. pensylvanica</i>	Carolina Pink Rocky Bluffs	S1S2	G5T4T5	T	--
<i>Spiraea alba</i>	Narrow-leaved Meadow-sweet Bogs	S1	G5	E	--
<i>Streptopus amplexifolius</i>	White Mandarin Wet Cliffs And Mountain Woods	S1	G5	T	--
<i>Symplocarpus foetidus</i>	Skunk-cabbage Swamps And Bogs	S1	G5	E	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trientalis borealis</i>	Northern Starflower Mountain Hardwood Forests	S1	G5	T	--
<i>Tsuga caroliniana</i>	Carolina Hemlock Dry Ridges	S3	G3	T	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--
<i>Woodsia scopulina ssp. appalachiana</i>	Alleghany Cliff-fern Mountain Cliffs	S1S2	G4T4	S	--

Vertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Erimonax monachus</i>	Spotfin Chub Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.	S2	G2	T	LT,XN, PXN
<i>Etheostoma acuticeps</i>	Sharphead Darter Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	S2S3	G3	--	--
<i>Etheostoma percnurum</i>	Duskytail Darter Gently flowing pools near riffles; larger creeks and medium size rivers; Tennessee & Cumberland river drainages.	S1	G2	E	LE,XN
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Sullivan County . . . Continued

Known Species: 65

Vertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Parascalops breweri</i>	Hairy-tailed Mole Moist soils in deciduous forests with thick humus; east Tennessee.	S3	G5	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Percina macrocephala</i>	Longhead Darter Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools upst/dnst rubble riffles; Tenn & Cumb river watersheds.	S2	G3	T	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Synaptomys cooperi</i>	Southern Bog Lemming Marshy meadows, wet balds, & rich upland forests.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Sullivan --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sumner County

Known Species: 31

Invertebrate Animals: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Allocapnia cunninghami</i>	Karst Snowfly	S1	G1G2	--	--
	Small-medium size creeks; northern Highland Rim; Barren River watershed.				
<i>Allocapnia perplexa</i>	Perplexing Snowfly	S1	G1	--	--
	Low-mod gradient streams with limestone bedrock & interspersed rubble; E Fk Bledsoe Creek, Cumberland R watershed; Sumner Co.				
<i>Barbicambarus cornutus</i>	Bottle Brush Crayfish	S2	G4	--	--
	Under slabrock in medium-large tributaries of Barren River watershed; Sumner, Macon, Clay counties.				
<i>Carychium stygium</i>	Cave Thorn	S2	G3	--	--
	Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.				

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
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Vascular Plants: 11

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Allium tricoccum</i>	Ramps	S1S2	G5	S-CE	--
	Rich Woods				
<i>Carex hitchcockiana</i>	Hitchcock's Sedge	S1	G5	T	--
	Rich Moist Woods				
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh	S1	G4G5Q	T	--
	Rich Woods				
<i>Collinsia verna</i>	Spring Blue-eyed Mary	S1	G5	E	--
	Rich Wet-Mesic Woods				
<i>Dalea foliosa</i>	Leafy Prairie-clover	S2S3	G2G3	E	LE
	Rocky Washes In Glades				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juglans cinerea</i>	Butternut	S3	G4	T	--
	Rich Woods And Hollows				
<i>Lilium michiganense</i>	Michigan Lily	S3	G5	T	--
	Swamps And Open Wet Woods				
<i>Panax quinquefolius</i>	American Ginseng	S3S4	G3G4	S-CE	--
	Rich Woods				
<i>Stellaria fontinalis</i>	Water Stitchwort	S3	G3	T	--
	Seeps And Limestone Creek Beds				
<i>Trillium pusillum</i>	Least Trillium	S2	G3	E	--
	Alluvial/Moist Ravines And Dry Ridges				

Vertebrate Animals: 15

St. Rank

Global Rank

St. Prot.

Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Sumner County ... Continued

Known Species: 31

Vertebrate Animals: 15 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ardea alba</i>	Great Egret Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	S2B,S3N	G5	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma barbouri</i>	Teardrop Darter Sandy pools in small to medium streams with slabrock cover; Barren River watershed.	S2	G4G5	D	--
<i>Etheostoma barrenense</i>	Splendid Darter Locally abundant in rocky pools and adjacent riffles of small to moderate streams; Barren River watershed.	S3	G4	D	--
<i>Etheostoma bellum</i>	Orangefin Darter Locally abundant in small to medium-sized clear streams over gravel substrate; Barren River watershed.	S3	G4G5	D	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Moxostoma atripinne</i>	Blackfin Sucker Larger creeks with quiet or gently flowing pools with scattered slabrocks & undercut banks; Barren River watershed.	S1	G2	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Percina stictogaster</i>	Frecklebelly Darter Small rivers & larger creeks; pool areas with mod-sluggish current & aquatic vegetation; Barren River watershed.	S1	G4G5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Sumner --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Tipton County

Known Species: 21

Invertebrate Animals: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Obovaria jacksoniana</i>	Southern Hickorynut Rivers with medium-sized gravel substrates and low-mod current; Wolf & Hatchie rivers; Mississippi River watershed; west Tennessee.	S1	G2	--	--
<i>Villosa vibex</i>	Southern Rainbow Mud or soft sand in small rivers & creeks in areas with moderate current; Conasauga, Hatchie, and Wolf (Miss. R.) river systems.	S2	G5Q	--	--
Vascular Plants: 10		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acmella oppositifolia</i>	Creeping Spot-flower Swamps And Wetlands	S3	G5	S	--
<i>Agalinis auriculata</i>	Earleaved False-foxglove Barrens	S2	G3	E	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Carex reniformis</i>	Reniform Sedge Rich Bottomland Woods	S1	G4?	S	--
<i>Dichanthelium ensifolium</i> ssp. <i>ensifolium</i>	Small-leaved Panicgrass Moist Pine Barrens	S2	GNR	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Phacelia ranunculacea</i>	Blue Scorpion-weed Alluvial Woods	S2S3	G4	S	--
<i>Prenanthes crepidinea</i>	Nodding Rattlesnake-root Rich Bottomlands	S2	G4	E	--
<i>Schisandra glabra</i>	Red Starvine Rich Mesic Woods, Bluffs	S2	G3	T	--
Vertebrate Animals: 9		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ammocrypta beani</i>	Naked Sand Darter Shifting sand bottoms & sandy runs; Hatchie River & larger tribs.	S2	G5	D	--
<i>Ammocrypta vivax</i>	Scaly Sand Darter Small to medium rivers with sandy substrate; Hatchie & Buffalo rivers.	S2	G5	D	--
<i>Atractosteus spatula</i>	Alligator Gar Sluggish pools of large rivers, oxbows, swamps, and backwaters; west Tennessee.	S1	G3G4	D	--
<i>Cycleptus elongatus</i>	Blue Sucker Swift waters over firm substrates in big rivers.	S2	G3G4	T	--
<i>Ictinia mississippiensis</i>	Mississippi Kite Undisturbed stands of lowland and floodplain forests and along major rivers.	S2S3	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Tipton County . . . Continued

Known Species: 21

Vertebrate Animals: 9 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Macrhybopsis gelida

Sturgeon Chub

S1

G3

D

--

Large turbid rivers & their larger tributaries; Mississippi River proper.

Notropis dorsalis

Bigmouth Shiner

S1

G5

D

--

Cool, low-gradient creeks over sand or fine gravel substrates; tributaries near confluence of Mississippi River.

Noturus gladiator

Piebald Madtom

S3

G3

D

--

Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

Sterna antillarum athalassos

Interior Least Tern

S2S3B

G4T2Q

E

LE

Mississippi River sand bars & islands, dikes.

-- End of Tipton --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Trousdale County

Known Species: 13

Invertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Dromus dromas</i>	Dromedary Pearlymussel	S1	G1	E	LE
	Medium-large rivers with riffles and shoals w/ relatively firm rubble, gravel, and stable substrates; Tennessee & Cumberland systems.				
<i>Epioblasma brevidens</i>	Cumberlandian Combshell	S1	G1	E	LE
	Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.				
<i>Epioblasma obliquata obliquata</i>	Catspaw	S1	G1T1	E	LE
	Medium-large rivers, in sand and gravel substrates in runs and riffles; Tennessee & Cumberland river systems.				
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	LE
	Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.				
<i>Pleurobema plenum</i>	Rough Pigtoe	S1	G1	E	LE
	Medium to large rivers in sand, gravel, and cobble substrates of shoals; Tennessee & Cumberland river systems.				
<i>Quadrula sparsa</i>	Appalachian Monkeyface	S1	G1	E	LE
	Headwater sections of rivers in shallow riffles/runs with sand-gravel substrate & moderate current; upper Tennessee River drainage.				

Vascular Plants: 5

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Elymus svensonii</i>	Svenson's Wild-rye	S2	G3	E	--
	Rocky Bluffs				
<i>Leavenworthia exigua var. exigua</i>	Glade-cress	S3	G4T3	S	--
	Glades				
<i>Lesquerella globosa</i>	Short's Bladderpod	S2	G2	E	C
	Limestone Talus Slopes And Cliffs				
<i>Stellaria fontinalis</i>	Water Stitchwort	S3	G3	T	--
	Seeps And Limestone Creek Beds				
<i>Talinum calcaricum</i>	Limestone Fame-flower	S3	G3	S	--
	Glades				

Vertebrate Animals: 2

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Etheostoma olivaceum</i>	Sooty Darter	S3	G3	D	--
	Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.				
<i>Thryomanes bewickii</i>	Bewick's Wren	S1	G5	E	--
	Brushy areas, thickets and scrub in open country, open and riparian woodland.				

-- End of Trousdale --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Unicoi County

Known Species: 90

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Southern Appalachian Spray Cliff</i>	Southern Appalachian Spray Cliff	SNR	GNR	--	--
Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Tsuga caroliniana</i> - <i>Pinus (rigida, pungens, virginiana)</i> Forest	Carolina Hemlock Foreset (Pine Type)	SNR	G2	--	--
Invertebrate Animals: 14		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Alasmidonta raveneliana</i>	Appalachian Elktoe Large creeks/small rivers with stable coarse sand and gravel substrates with cobble & boulders; upper Tennessee River watershed.	S1	G1	E	LE
<i>Anguispira jessica</i>	Mountain Disc Higher elevations in the southern Appalachians, arboreal; also inhabits rotting wood; Roan Mountain & Mt. Le Conte.	S3	G3G4	--	--
<i>Discus bryanti</i>	Sawtooth Disc Leaf litter in rocky upland woods, under rotting logs; northeast Tennessee; Blue Ridge.	S1S2	G3	--	--
<i>Inflectarius subpalliatu</i> s	Velvet Covert Leaf litter, rotting logs, talus in mixed woodland; may be arboreal; mid to upper elevations of Blue Ridge; Carter & Unicoi counties.	S2	G2	--	--
<i>Mesomphix rugeli</i>	Wrinkled Button Under leaf litter on wooded hillsides; far NE Tennessee; S Blue Ridge.	S3	G4	--	--
<i>Paravitrea lamellidens</i>	Lamellate Supercoil Deep, moist leaf litter below boulder slopes, bluffs; boggy seeps; forested hillsides & ravines; central & southern Blue Ridge.	S2	G2	--	--
<i>Paravitrea tridens</i>	White-foot Supercoil Moist leaf litter on wooded hillsides; northeast Tennessee; Ridge & Valley and Blue Ridge.	S2	G2	--	--
<i>Pilsbryna aurea</i>	Ornate Bud Deep, wet leaves of karstic forests & hills, near streams; assoc. with limestone/dolomite outcrops; Unicoi, Washington, & Blount cos.	S1	G1	--	--
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Stenotrema altispira</i>	Highland Slitmouth Leaf litter, logs, talus in mixed woodland, spring fed slopes; higher elevations of central & N Blue Ridge; northeast Tennessee.	S2?	G3	--	--
<i>Stygobromus barryi</i>	A Cave Obligate Amphipod Aquatic cave obligate; northern Blue Ridge mountains; Unicoi County.	S1	G2G3	--	--
<i>Trechus vandykei</i>	A Carabid Beetle Terrestrial; found in leafmold or under moss mats; Camp Creek Bald & Unaka Mountain; Blue Ridge; Greene & Unicoi counties.	S3?	GNR	--	--
<i>Ventridens decussatus</i>	Crossed Dome In leaf litter of oak woods, usually above 3,000 ft; Blue Ridge.	S2?	G3	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Unicoi County . . . Continued

Known Species: 90

Invertebrate Animals: 14 . . . Continued

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Vertigo parvula</i>	Smallmouth Vertigo	S2S3	G3	--	--
	In leaf litter and on logs in upland forests with limestone outcrops or talus; Blue Ridge; Washington & Unicoi counties.				

Vascular Plants: 53

		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Abies fraseri</i>	Fraser Fir	S1S2	G2	T	--
	Forests Above 5500 Ft				
<i>Adlumia fungosa</i>	Climbing Fumitory	S2	G4	T	--
	Rich Mesic Woods				
<i>Agastache scrophulariifolia</i>	Purple Giant Hyssop	S1S2	G4	T	--
	Rich Mountain Woods				
<i>Allium tricoccum</i>	Ramps	S1S2	G5	S-CE	--
	Rich Woods				
<i>Buckleya distichophylla</i>	Piratebush	S2	G2	T	--
	Rocky Mountain Woods W/ Hemlock				
<i>Campanula aparinoides</i>	Marsh Bellflower	S2	G5	S	--
	Bogs				
<i>Cardamine clematitis</i>	Mountain Bittercress	S2	G3	T	--
	High Elevation Seeps				
<i>Cardamine rotundifolia</i>	Round-leaf Watercress	S2S3	G4	S	--
	Mucky Wetlands And Seeps				
<i>Carex argyrantha</i>	Hay Sedge	S1	G5	T	--
	Sandy Or Rocky Woods				
<i>Carex misera</i>	Wretched Sedge	S2	G3	T	--
	Mountain Ledges And Balds				
<i>Carex pallescens</i>	Pale Sedge	S1	G5	S	--
	High Elevation Woods And Mountain Balds				
<i>Carex roanensis</i>	Roan Mountain Sedge	S2	G3	E	--
	Mid-Elevation Woodlands				
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh	S1	G4G5Q	T	--
	Rich Woods				
<i>Clintonia borealis</i>	Clinton's Lily	S2S3	G5	S	--
	High Elevation Mesic Forests				
<i>Coeloglossum viride var. virescens</i>	Long-bracted Green Orchis	S1	G5T5	E	--
	Wet Woods And Seeps				
<i>Corallorhiza maculata</i>	Spotted Coralroot	S1	G5	T	--
	Shady, Moist Woods				
<i>Corydalis sempervirens</i>	Pale Corydalis	S1S2	G4G5	E	--
	Dry Or Rocky Woods				
<i>Cymophyllus fraserianus</i>	Fraser's Sedge	S3	G4	S	--
	Mixed Mesophytic Forests				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Unicoi County . . . Continued

Known Species: 90

Vascular Plants: 53 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Diervilla sessilifolia</i> var. <i>rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern Bogs	S1	G5	T	--
<i>Epilobium angustifolium</i>	Fireweed High Elevation Disturbed Woods	S1	G5	T	--
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--
<i>Goodyera repens</i>	Dwarf Rattlesnake-plantain Moist Conifer/Rhododendron Woods	S1	G5	S	--
<i>Helianthus glaucophyllus</i>	White-leaved Sunflower Dry Open Woods	S1	G3	T	--
<i>Heracleum maximum</i>	Cow-parsnip Moist Woods And Floodplains	S2	G5	S	--
<i>Hexastylis virginica</i>	Virginia Heartleaf Sandy Or Rocky Woods	S2	G4	S	--
<i>Hydrophyllum virginianum</i>	Appalachian Waterleaf Alluvial Woods	S3	G5	T	--
<i>Hypericum graveolens</i>	Mountain St. John's-wort Boggy Woods And River Banks	S3	G3	E	--
<i>Hypericum mitchellianum</i>	Blue Ridge St. John's-wort High Elevation, Moist Woods	S2	G3	T	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lycopodium dendroideum</i>	Treelike Clubmoss High Elev. Balds & Woods	S1	G5	S	--
<i>Lysimachia terrestris</i>	Swamp Loosestrife Wet Prairies And Swamps	S1	G5	E	--
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Oenothera parviflora</i>	Northern Evening-primrose Disturbed Open Areas	S1	G4?	S	--
<i>Packera schweinitziana</i>	Schweinitz's ragwort High Elevation Balds	S1	G5?	T	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Unicoi County . . . Continued

Known Species: 90

Vascular Plants: 53 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Paronychia argyrocoma</i>	Silverling Dry Sandstone, Granite Outcrops	S1S2	G4	T	--
<i>Platanthera orbiculata</i>	Large Round-leaved Orchid Mid-Elevation Mesic Forests	S3	G5	T	--
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid Wet Woods And Bog Margins	S2	G5	S	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Potentilla tridentata</i>	Three-toothed Cinquefoil High Elevation Openings	S1S2	G5	S	--
<i>Scutellaria saxatilis</i>	Rock Skullcap Rocky Woods And Moist Cliffs	S3	G3	T	--
<i>Silene ovata</i>	Ovate Catchfly Open Oak Woods	S2	G3	E	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Stachys clingmanii</i>	Clingman's Hedge-nettle Mountain Clearings And Meadows	S1S2	G2Q	T	--
<i>Streptopus roseus</i>	Rosy Twisted-stalk Rich, Moist Mountain Woods	S2	G5	S	--
<i>Symphyotrichum ericoides</i> var. <i>ericoides</i>	White Heath Aster Barrens	SH	G5T5	T	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Tsuga caroliniana</i>	Carolina Hemlock Dry Ridges	S3	G3	T	--
<i>Woodsia scopulina</i> ssp. <i>appalachiana</i>	Alleghany Cliff-fern Mountain Cliffs	S1S2	G4T4	S	--

Vertebrate Animals: 21		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aegolius acadicus</i>	Northern Saw-whet Owl High-elevation spruce-fir forests; Blue Ridge Mountains.	S1	G5	T	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Condylura cristata</i>	Star-nosed Mole Hydric soils in beech-maple-birch forests at higher elevations in the Appalachians.	S2	G5	D	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Unicoi County . . . Continued

Known Species: 90

Vertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Desmognathus wrighti</i>	Pygmy Salamander Mature hardwoods & spruce-fir forests under moss, leaf litter, logs, bark, and rocks; high elevations; Blue Ridge.	S2S3	G3G4	D	--
<i>Etheostoma acuticeps</i>	Sharphead Darter Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	S2S3	G3	--	--
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Plethodon welleri</i>	Weller's Salamander Rich woods under downed logs, rocks, leaf litter; spruce-fir, birch-hemlock, and primarily deciduous forests of NE Blue Ridge.	S2	G3	D	--
<i>Sorex cinereus</i>	Cinereus Shrew Rich woodlands of many types; open fields; middle and east Tennessee.	S4	G5	D	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk Rocky outcrops, open prairies, brushy areas, cultivated fields, and barnyards; more common in east Tennessee; reclusive.	S3	G5	--	--
<i>Zapus hudsonius</i>	Meadow Jumping Mouse Open grassy fields; often abundant in thick vegetation near water bodies; statewide.	S4	G5	D	No Status

-- End of Unicoi --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Union County

Known Species: 19

Invertebrate Animals: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Fusconaia cuneolus

Finerayed Pigtoe

S1

G1

E

LE

Riffles of fords and shoals of mod gradient streams in firm cobble and gravel substrates; middle & upper Tennessee River watershed.

Nesticus paynei

A Cave Spider

S3

G3G4

--

--

Terrestrial cave associate; also may be found on surface; northern Ridge & Valley.

Pseudanophthalmus unionis

Union County Cave Beetle

S1

G1G2

--

--

Terrestrial cave obligate; Ridge & Valley; Union County.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Aureolaria patula

Spreading False-foxglove

S3

G3

S

--

Oak Woods And Edges

Berberis canadensis

American Barberry

S2

G3

S

--

Rocky Woods And River Bars

Cypripedium acaule

Pink Lady's-slipper

S4

G5

S-CE

--

Piney Woods

Hydrastis canadensis

Goldenseal

S3

G4

S-CE

--

Rich Woods

Lilium canadense

Canada Lily

S3

G5

T

--

Rich Woods And Seeps

Meehanian cordata

Heartleaf Meehanian

S2

G5

T

--

Wooded Mountain Slopes

Parnassia grandifolia

Large-leaved Grass-of-parnassus

S3

G3

S

--

Calcareous Seeps

Pedicularis lanceolata

Swamp Lousewort

S1S2

G5

S

--

Wet Acidic Barrens And Seeps

Thuja occidentalis

Northern White Cedar

S3

G5

S

--

Calcareous Rocky Seeps, Cliffs

Vertebrate Animals: 6

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Erimonax monachus

Spotfin Chub

S2

G2

T

LT,XN, PXN

Clear upland rivers with swift currents & boulder substrates; portions of the Tennessee River watershed.

Erimystax cahni

Slender Chub

S1

G1

T

LT

Major headwater tribs to TN River with small gravel substrates & swift-moderate currents.

Myotis grisescens

Gray Myotis

S2

G3

E

LE

Cave obligate year-round; frequents forested areas; migratory.



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Union County . . . Continued

Known Species: 19

Vertebrate Animals: 6 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Myotis sodalis

Indiana Myotis

S1

G2

E

LE

Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.

Noturus flavipinnis

Yellowfin Madtom

S1

G1

E

LT,XN

Medium size to large creeks and small rivers that are unpolluted & relatively unsilted; upper Tennessee River watershed.

Percina aurantiaca

Tangerine Darter

S3

G4

D

--

Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.

-- End of Union --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Van Buren County

Known Species: 95

Invertebrate Animals: 35		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aloconota diversiseta</i>	A Rove Beetle Terrestrial cave obligate; Cumberland Plateau.	S1	G1	--	--
<i>Anthrobia mammothia</i>	Mammoth Cave spider Terrestrial cave obligate; reported from a handful of caves in the middle Cumberlands; Bledsoe, Grundy, & Van Buren counties.	S1	G5	--	--
<i>Appaleptoneta sp. 1</i>	A Leptonetid Spider From Ghost River Cave Terrestrial cave obligate; reported from the northern Cumberlands.	S1	G1	--	--
<i>Arrhopalites sp. 4</i>	A Cave Springtail (species 1) Terrestrial cave obligate; middle Cumberlands.	S1	G1	--	--
<i>Atheta lucifuga</i>	Light Shunning Rove Beetle Terrestrial cave associate; reported from two caves in the Cumberland Plateau; Van Buren County.	S2	G4	--	--
<i>Cambarus pristinus</i>	Pristine Crayfish Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	S2	G2	E	--
<i>Carychium stygium</i>	Cave Thorn Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.	S2	G3	--	--
<i>Chaetaspis mollis</i>	A Cave Millipede Terrestrial cave obligate; central Cumberland Plateau; Van Buren County.	S1	G1	--	--
<i>Chaetaspis sp. 1</i>	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.	S1	G1	--	--
<i>Diacyclops yeatmani</i>	Yeatman's Groundwater Copepod Aquatic cave obligate; central & southern Cumberlands generally; possibly part of a species complex.	S1	G2G3	--	--
<i>Hypogastrura sp. 1</i>	A Viatica Group Springtail Terrestrial cave obligate; Van Buren County; known from one cave in the Cumberland Plateau.	S1	G1	--	--
<i>Kleptochthonius daemonius</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Cumberland Plateau.	S1S2	G1G2	--	--
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail Medium-sized river form of <i>L. geniculata</i> ; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2	G3T3Q	--	--
<i>Lithasia geniculata pinguis</i>	Small Geniculate River Snail Headwater form of <i>L. geniculata</i> , in small rivers and large streams, on gravel substrates; upper Duck & Caney Fork systems.	S2	G3T3Q	--	--
<i>Litocampa sp. 5</i>	A Cave Dipluran From TN Terrestrial cave obligate, Cumberland Plateau escarpment.	S1	G2	--	--
<i>Neanura sp. 1</i>	A Cave Obligate Springtail From TN Terrestrial cave obligate; Rumbling Falls area, Van Buren Co; known from a single cave.	S1	G1	--	--
<i>Nelsonites walteri</i>	A Cave Obligate Beetle Terrestrial cave obligate, northern Cumberlands.	S3	G3G4	--	--
<i>Nesticus tennesseensis</i>	Tennessee cave spider Terrestrial cave associate or possibly obligate; east Tennessee.	S2S4	G3G4	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Van Buren County ... Continued

Known Species: 95

Invertebrate Animals: 35 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Onychiurus sp. 2</i>	A Cave Obligate Springtail From TN Terrestrial cave obligate, middle Cumberland; reported from a single cave in Van Buren County.	S1	G1	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Paravitrea variabilis</i>	Variable Supercoil In pockets of deep, moist leaf litter on forested hillsides & ravines; escarpment of Cumb. Plateau in Sequatchie Valley & Franklin Co.	S2S3	G2G3	--	--
<i>Pegias fabula</i>	Littlewing Pearlymussel Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.	S1	G1	E	LE
<i>Phalangodes appalachius</i>	A Cave Obligate Harvestman Terrestrial cave obligate; Cumberland Plateau.	S3	G3G4	--	--
<i>Pleurobema gibberum</i>	Cumberland Pigtoe Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.	S1	G1	E	LE
<i>Pseudanophthalmus sp. 27</i>	Rumbling Falls Cave Beetle Terrestrial cave obligate; middle Cumberland; Van Buren & White counties.	S1	G1	--	--
<i>Pseudanophthalmus vanburensis</i>	A Cave Obligate Beetle Terrestrial cave obligate; middle Cumberland.	S1	G1	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
<i>Pseudosinella sp. 5</i>	A Cave Springtail From Swamp River Cave Terrestrial cave obligate; middle Cumberland.	S1	G1	--	--
<i>Pseudosinella sp. 7 nr. nata</i>	A Springtail From Upper Cummings Cove Cave Terrestrial cave obligate; Van Buren Co.	S1	G1	--	--
<i>Pseudosinella spinosa</i>	A Cave Obligate Springtail Terrestrial cave obligate; middle and southern Cumberland.	S2	G5	--	--
<i>Scoterpes ventus</i>	A Cave Obligate Millipede Terrestrial cave obligate; wet caves of the Cumberland Plateau & Sequatchie Valley.	S1	G1	--	--
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Theromaster sp. 1</i>	A Harvestman From Cummings Cove Cave Terrestrial cave associate; known from one cave in the Cumberland Plateau; Van Buren County.	S1	G1	--	--
<i>Trechus cumberlandus</i>	Cumberland Ground Beetle Terrestrial associate of caves, springs, sinkholes; escarpment of the Cumberland Plateau, generally.	S2	G2	--	--
<i>Triacanthella copelandi</i>	Copeland's Springtail Terrestrial cave associate; middle Cumberland; also reported from Great Smoky Mtns.	S1	G1	--	--
Nonvascular Plants: 6		St. Rank	Global Rank	St. Prot.	Fed. Prot.



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Van Buren County . . . Continued

Known Species: 95

Nonvascular Plants: 6 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cololejeunea ornata</i>	Ornate Cololejeunea Sinks & High Humidity Areas On Limestone	S1	G2G4	T	--
<i>Lejeunea blomquistii</i>	Blomquist Leafy Liverwort Mid Elev. Gorges On Rock Or Bark	S1S2	G1G2	S	--
<i>Lejeunea sharpii</i>	Sharp's Lejeunea Calcareous Bluffs, Rock & Logs Of Wet Sinks	S1S2	G2G3	E	--
<i>Metzgeria uncigera</i>	Metzgeria Bark Of American Holly	S1	G3	S	--
<i>Plagiochila punctata</i>	Spotty featherwort Sandstone Bluffs And Cliffs	S1	G5	S	--
<i>Radula voluta</i>	A Liverwort Shady Moist Boulders By Waterfalls Or Streams	S2	G3	S	--
Vascular Plants: 34		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Acalypha deamii</i>	Deam's Copperleaf Mesic Woods-Sandbars	S1	G4?	S	--
<i>Acer leucoderme</i>	Chalk Maple Circumneutral Rocky Woods	S3	G5	S	--
<i>Allium burdickii</i>	Narrow-leaf Ramps Rich Woods	S1S2	G4G5	T-CE	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Calopogon oklahomensis</i>	Oklahoma Grass-pink Acidic Wet Barrens	SH	G4?	E-P	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Dichanthelium ensifolium ssp. curtifolium</i>	Short-leaved Panic Grass Boggy Areas	S1	G3?	E	--
<i>Drosera capillaris</i>	Pink Sundew Acidic Wetlands	S1	G5	T	--
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush Pond Edges And Open Wetlands	S1	G4	E	--
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry Barrens	S3	G5	T	--
<i>Helianthemum propinquum</i>	Low Frostweed Barrens	S1S2	G4	E	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Van Buren County . . . Continued

Known Species: 95

Vascular Plants: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrocotyle americana</i>	American Water-pennywort Wet Soils And Pools	S1	G5	E	--
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Lilium philadelphicum</i>	Wood Lily Dry Openings, Powerlines	S1	G5	E	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Nestronia umbellula</i>	Nestronia Upland Woods	S1	G4	E	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Pilularia americana</i>	American Pillwort Lake Drawdown Zones	S1S2	G5	S	--
<i>Platanthera integra</i>	Yellow Fringeless Orchid Wet Barrens	S1	G3G4	E	--
<i>Platanthera integrilabia</i>	White Fringeless Orchid Acidic Seeps And Stream Heads	S2S3	G2G3	E	C
<i>Poa saltuensis</i>	Drooping Bluegrass Rich Oak Woods	S1	G5	T	--
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Rhynchospora rariflora</i>	Few-flowered Beak-rush Swamps And Bogs	S1	G5	E	--
<i>Rhynchospora wrightiana</i>	Wright's Beak-rush Wet Pine Barrens	SH	G5	E-P	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Utricularia subulata</i>	Zigzag Bladderwort Wet Barrens, Ecotones	S1	G5	T	--
<i>Woodwardia virginica</i>	Virginia Chainfern Acidic Wetlands	S2	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Van Buren County . . . Continued

Known Species: 95

Vascular Plants: 34 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Xyris ambigua</i>	Coastal Plain Yellow-eyed Grass Margins Of Ponds, Bogs, And Ditches	S1	G5	E	--
Vertebrate Animals: 20		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aquila chrysaetos</i>	Golden Eagle Open country, open wooded country, and barren areas, especially in hilly or mountainous regions.	S1	G5	T	--
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma sp. D</i>	Bluemask (Jewel) Darter Streams with slow to moderate current over clean sand and fine gravel; Caney Fork River system (above Great Falls Reservoir).	S1	G1	E	LE
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Hemidactylium scutatum</i>	Four-toed Salamander Woodland swamps, shallow depressions, & sphagnum mats on acidic soils; middle & east Tennessee.	S3	G5	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sorex dispar</i>	Long-tailed Shrew Mountainous, forested areas with loose talus; east Tennessee.	S2	G4	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Van Buren County . . . Continued

Known Species: 95

Vertebrate Animals: 20 . . . Continued

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Sorex hoyi

American Pygmy Shrew

S2

G5

--

--

Found in a variety of habitats, with moist sites preferred over dry areas; middle and east Tennessee.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Thryomanes bewickii

Bewick's Wren

S1

G5

E

--

Brushy areas, thickets and scrub in open country, open and riparian woodland.

Typhlichthys subterraneus

Southern Cavefish

S3

G3G4

D

--

Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.

-- End of Van Buren --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Warren County

Known Species: 78

Invertebrate Animals: 21

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Carychium stygium</i>	Cave Thorn	S2	G3	--	--
	Cave obligate; feeds on cricket guano; Highland Rim & escarpment of Cumberland Plateau.				
<i>Daedalochila auriformis</i>	Rockpile Liptooth	S1	G4	--	--
	Wet, grassy habitats, generally in full sun; barrens & remnant prairies; Coffee & Warren counties; disjunct from central Alabama.				
<i>Helicodiscus hadenoecus</i>	Cricket Coil	S3	G3	--	--
	Cave obligate; feeds on cricket guano; Eastern Highland Rim & Cumberland Plateau.				
<i>Helicodiscus punctatellus</i>	Punctate Coil	S1	G1	--	--
	Limestone talus deposits, Eastern Highland Rim; Jackson County; known from Pleistocene fossil specimens; may not be extant in TN.				
<i>Hesperochnes mirabilis</i>	Southeastern Cave Pseudoscorpion	S3	G5	--	--
	Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.				
<i>Kleptochthonius barri</i>	A Cave Obligate Pseudoscorpion	S1S2	G1G2	--	--
	Terrestrial cave obligate; southern Cumberlands.				
<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail	S1	G1Q	--	--
	Medium sized rivers & large creeks in portions of lower Cumb. and Tenn. river systems; Stones River; possibly a form or morph.				
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail	S2	G3T3Q	--	--
	Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.				
<i>Lithasia geniculata pinguis</i>	Small Geniculate River Snail	S2	G3T3Q	--	--
	Headwater form of L. geniculata, in small rivers and large streams, on gravel substrates; upper Duck & Caney Fork systems.				
<i>Litocampa sp. 5</i>	A Cave Dipluran From TN	S1	G2	--	--
	Terrestrial cave obligate, Cumberland Plateau escarpment.				
<i>Orconectes australis</i>	Southern Cave Crayfish	S3	G5	--	--
	Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.				
<i>Pegias fabula</i>	Littlewing Pearlymussel	S1	G1	E	LE
	Cool, clear, high-gradient streams in sand, gravel, and cobble substrates, riffles; portions of Cumberland & upper Tenn. river systems.				
<i>Phalangodes appalachius</i>	A Cave Obligate Harvestman	S3	G3G4	--	--
	Terrestrial cave obligate; Cumberland Plateau.				
<i>Pleurobema gibberum</i>	Cumberland Pigtoe	S1	G1	E	LE
	Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.				
<i>Pseudanophthalmus macradei</i>	A Cave Obligate Beetle	S1S2	G1G2	--	--
	Terrestrial cave obligate; middle Cumberlands.				
<i>Pseudanophthalmus templetoni</i>	A Cave Obligate Beetle	S1	G1	--	--
	Terrestrial cave obligate; Collins River basin.				
<i>Pseudanophthalmus vanburensis</i>	A Cave Obligate Beetle	S1	G1	--	--
	Terrestrial cave obligate; middle Cumberlands.				
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail	S2	G5	--	--
	Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.				



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Warren County . . . Continued

Known Species: 78

Invertebrate Animals: 21 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Pseudotremia acheron</i>	A Cave Obligate Millipede Terrestrial cave obligate; caves of the central Cumberlands; Warren & Van Buren counties.	S1	G1G2	--	--
<i>Tychobythinus strinatii</i>	A Cave Obligate Beetle Terrestrial cave obligate; middle Cumberlands.	S1S2	G1G2	--	--
<i>Vertigo clappi</i>	Cupped Vertigo In leaf litter and moss on forested hillsides; Blue Ridge; Monroe County.	S1	G1G2	--	--
Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Palamocladium leskeoides</i>	Seepy Limestone Cliffs And Bluffs	S1	G3G5	T	--
Vascular Plants: 39		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aureolaria patula</i>	Spreading False-foxglove Oak Woods And Edges	S3	G3	S	--
<i>Carex barrattii</i>	Barratt's Sedge Wet Woods And Oak Barrens	S2	G4	E	--
<i>Dichanthelium acuminatum ssp. leucothrix</i>	Roughish Witchgrass Moist Pine Barrens	S1	G4?Q	S	--
<i>Drosera brevifolia</i>	Dwarf Sundew Wet Barrens And Ecotones	S2	G5	T	--
<i>Eleocharis lanceolata</i>	Lance-like Spike-rush Wet Areas	S1	G4G5	S	--
<i>Eleocharis wolfii</i>	Wolf Spike-rush Wet Woods On Floodplains	S1	G3G4	E	--
<i>Eryngium integrifolium</i>	Blue-flower Coyote-thistle Wet Barrens	S1	G5	T	--
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry Barrens	S3	G5	T	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Gymnopogon brevifolius</i>	Broad-leaved Beardgrass Barrens	S1S2	G5	S	--
<i>Helianthemum propinquum</i>	Low Frostweed Barrens	S1S2	G4	E	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hypericum adpressum</i>	Creeping St. John's-wort Edges Of Ponds And Lakes	S1	G3	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Warren County . . . Continued

Known Species: 78

Vascular Plants: 39 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Iris prismatica</i>	Slender Blue Flag Wet Barrens	S2S3	G4G5	T	--
<i>Juncus brachycephalus</i>	Small-headed Rush Seeps And Wet Bluffs	S2	G5	S	--
<i>Lathyrus palustris</i>	Marsh Pea Wet Woods & Marshes	S1	G5	S	--
<i>Lechea pulchella</i>	Leggett's Pinweed Barrens	S1	G5	E	--
<i>Lespedeza angustifolia</i>	Narrowleaf Bushclover Barrens	S2	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Liparis loeselii</i>	Fen Orchis Calcareous Seeps	S1	G5	T	--
<i>Lobelia canbyi</i>	Canby's Lobelia Oak Barrens, Wet Areas	S2S3	G4	T	--
<i>Lycopodiella alopecuroides</i>	Foxtail Clubmoss Wet Acidic Barrens	S2	G5	T	--
<i>Lysimachia terrestris</i>	Swamp Loosestrife Wet Prairies And Swamps	S1	G5	E	--
<i>Lysimachia x producta</i>	Loosestrife Wet Meadows	S1	GNA	S	--
<i>Muhlenbergia torreyana</i>	Torrey's Dropseed Oak Barren Bogs	S1	G3	E	--
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil Acidic Wetland And Ponds	S1	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Panicum hemitomon</i>	Maidencane Ponds In Barrens	S2	G5?	S	--
<i>Pedicularis lanceolata</i>	Swamp Lousewort Wet Acidic Barrens And Seeps	S1S2	G5	S	--
<i>Platanthera integra</i>	Yellow Fringeless Orchid Wet Barrens	S1	G3G4	E	--
<i>Pogonia ophioglossoides</i>	Rose Pogonia Wet Acidic Barrens	S2	G5	E	--
<i>Polygala nana</i>	Dwarf Milkwort Wet Acidic Barrens	S1	G5	E	--
<i>Ponthieva racemosa</i>	Shadow-witch Wet Woods	S1	G4G5	E	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Warren County . . . Continued

Known Species: 78

Vascular Plants: 39 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Rhynchospora chalarocephala</i>	Loose-headed Beakrush Wet Barrens	S1	G5	T	--
<i>Rhynchospora perplexa</i>	Obscure Beak-rush Marshes, Wet Barrens	S2	G5	T	--
<i>Rhynchospora rariflora</i>	Few-flowered Beak-rush Swamps And Bogs	S1	G5	E	--
<i>Spiranthes lucida</i>	Shining Ladies'-tresses Alluvial Woods And Moist Slopes	S1S2	G5	T	--
<i>Xyris laxifolia</i> var. <i>iridifolia</i>	Wide-leaved Yellow-eyed Grass Pond Margins And Marshes	S2	G4G5T4T5	T	--
<i>Zigadenus leimanthoides</i>	Death-camas Acidic Wetlands	S2	G4Q	T	--
Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma forbesi</i>	Barrens Darter Headwaters of the Barren Fork & Hickory Creek drainages; Cumberland River watershed.	S1	G1G2	E	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma</i> sp. <i>D</i>	Bluemask (Jewel) Darter Streams with slow to moderate current over clean sand and fine gravel; Caney Fork River system (above Great Falls Reservoir).	S1	G1	E	LE
<i>Fundulus julisia</i>	Barrens Topminnow Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	S1	G1	E	--
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2	G2G3	T	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Ixobrychus exilis</i>	Least Bittern Marshes with scattered bushes or other woody growth; readily uses artificial wetland habitats.	S2B	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE



Tennessee Natural Heritage Program

Rare Species Observations For

Tennessee Counties



Warren County . . . Continued

Known Species: 78

Vertebrate Animals: 17 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Myotis leibii</i>	Eastern Small-footed Myotis Hibernates in caves & mines; also uses abandoned buildings, bridges, and barns seasonally.	S2S3	G3	D	--
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Warren --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Washington County Known Species: 44

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Southern Appalachian Spray Cliff</i>	Southern Appalachian Spray Cliff	SNR	GNR	--	--
Invertebrate Animals: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Discus bryanti</i>	Sawtooth Disc Leaf litter in rocky upland woods, under rotting logs; northeast Tennessee; Blue Ridge.	S1S2	G3	--	--
<i>Paravitrea tridens</i>	White-foot Supercoil Moist leaf litter on wooded hillsides; northeast Tennessee; Ridge & Valley and Blue Ridge.	S2	G2	--	--
<i>Pilsbryna aurea</i>	Ornate Bud Deep, wet leaves of karstic forests & hills, near streams; assoc. with limestone/dolomite outcrops; Unicoi, Washington, & Blount cos.	S1	G1	--	--
<i>Speyeria diana</i>	Diana Fritillary Fields, edges, and openings in moist, rich, forested mountains and valleys; Blue Ridge & Cumberland Plateau generally.	S3	G3G4	--	--
<i>Vertigo parvula</i>	Smallmouth Vertigo In leaf litter and on logs in upland forests with limestone outcrops or talus; Blue Ridge; Washington & Unicoi counties.	S2S3	G3	--	--
Vascular Plants: 23		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Adlumia fungosa</i>	Climbing Fumitory Rich Mesic Woods	S2	G4	T	--
<i>Berberis canadensis</i>	American Barberry Rocky Woods And River Bars	S2	G3	S	--
<i>Botrychium matricariifolium</i>	Chamomile Grapefern Mountain Woods And Thickets	S1	G5	S	--
<i>Botrychium oneidense</i>	Blunt-lobed Grapefern Moist Forests	S1	G4Q	S	--
<i>Buckleya distichophylla</i>	Piratebush Rocky Mountain Woods W/ Hemlock	S2	G2	T	--
<i>Cardamine clematitis</i>	Mountain Bittercress High Elevation Seeps	S2	G3	T	--
<i>Cypripedium acaule</i>	Pink Lady's-slipper Piney Woods	S4	G5	S-CE	--
<i>Diervilla sessilifolia var. rivularis</i>	Mountain Bush-honeysuckle Dry Cliffs And Bluffs	S2	G3	T	--
<i>Draba ramosissima</i>	Branching Whitlow-grass Calcareous Bluffs	S2	G4	S	--
<i>Gentiana austromontana</i>	Appalachian Gentian High Elevation Open Woods	S3	G3	S	--
<i>Goodyera repens</i>	Dwarf Rattlesnake-plantain Moist Conifer/Rhododendron Woods	S1	G5	S	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Washington County . . . Continued

Known Species: 44

Vascular Plants: 23 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Hydrocotyle americana</i>	American Water-pennywort Wet Soils And Pools	S1	G5	E	--
<i>Lonicera canadensis</i>	American Fly-honeysuckle Mountain Woods And Streams	S1	G5	T	--
<i>Lonicera dioica</i>	Mountain Honeysuckle Mountain Woods And Thickets	S2	G5	S	--
<i>Melanthium latifolium</i>	Broadleaf Bunchflower Oak Forest	S1S2	G5	E	--
<i>Oenothera parviflora</i>	Northern Evening-primrose Disturbed Open Areas	S1	G4?	S	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Polygonum cilinode</i>	Fringed Black Bindweed Dry Rocky Woods And Thickets	S1S2	G5	T	--
<i>Silene caroliniana ssp. pensylvanica</i>	Carolina Pink Rocky Bluffs	S1S2	G5T4T5	T	--
<i>Thuja occidentalis</i>	Northern White Cedar Calcareous Rocky Seeps, Cliffs	S3	G5	S	--
<i>Trillium rugelii</i>	Southern Nodding Trillium Rich Mountain Woods	S2	G3	E	--
<i>Tsuga caroliniana</i>	Carolina Hemlock Dry Ridges	S3	G3	T	--

Vertebrate Animals: 15		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ardea alba</i>	Great Egret Marshes, swampy woods, streams, lakes, and ponds; also fields and meadows; colonial nester.	S2B,S3N	G5	D	--
<i>Carpionodes velifer</i>	Highfin Carpsucker Large rivers, mostly in Tennessee River drainage.	S2S3	G4G5	D	--
<i>Corvus corax</i>	Common Raven Hilly or mountainous areas, esp near cliffs; nests usually on cliff ledges or in coniferous trees.	S2	G5	T	--
<i>Etheostoma acuticeps</i>	Sharphead Darter Strongly flowing water in riffles and chutes of large upland creeks and medium-sized rivers.	S2S3	G3	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle Areas close to large bodies of water; roosts in sheltered sites in winter; communal roost sites common.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Washington County ... Continued

Known Species: 44

Vertebrate Animals: 15 ... Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Mustela nivalis</i>	Least Weasel Old fields, hedgerows, and forested areas; Appalachian Mountains, Ridge & Valley, & Cumberland Plateau.	S2	G5	--	--
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse Deciduous and coniferous forests with herbaceous groundcover; middle and east Tennessee.	S4	G5	D	--
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Passerculus sandwichensis</i>	Savannah Sparrow Grassland habitats, away from cultivated fields and fence lines; reported from Ridge & Valley and Western Highland Rim.	S1B,S4N	G5	--	--
<i>Percina aurantiaca</i>	Tangerine Darter Large-moderate size headwater tribs to Tennessee River, in clear, fairly deep, rocky pools, usually below riffles.	S3	G4	D	--
<i>Phoxinus tennesseensis</i>	Tennessee Dace First order spring-fed streams of woodlands in Ridge and Valley limestone region; Tennessee River watershed.	S3	G3	D	--
<i>Sorex fumeus</i>	Smoky Shrew Damp wooded areas including coniferous or mixed forests; middle and east Tennessee.	S4	G5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Washington --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Wayne County

Known Species: 35

Invertebrate Animals: 4

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Hemistena lata</i>	Cracking Pearlymussel	S1	G1	E	LE
	Medium-sized rivers of mod current, deeply buried in mud, sand, gravel, and cobble substrates; Tennessee & Cumb. river systems.				
<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail	S2	G3T3Q	--	--
	Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.				
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail	S2	G3	--	--
	Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.				
<i>Orconectes alabamensis</i>	Alabama Crayfish	S2	G5	D	--
	Small-medium sized streams, in pools under rocks; Tennessee River tributaries from Shoal Creek downstream to the Buffalo River.				

Vascular Plants: 14

St. Rank

Global Rank

St. Prot.

Fed. Prot.

<i>Apios priceana</i>	Price's Potato-bean	S2	G2	E	LT
	Openings In Rich Woods				
<i>Arabis glabra</i>	Tower-mustard	S1	G5	S	--
	Barrens And Open Floodplains				
<i>Arabis hirsuta</i>	Western Hairy Rockcress	S1	G5	T	--
	Glades And Limestone Bluffs				
<i>Carex hirtifolia</i>	Pubescent Sedge	S1S2	G5	S	--
	Lowland Forests				
<i>Draba cuneifolia</i>	Wedge-leaved Whitlow-grass	S1S2	G5	S	--
	Barrens And Glades				
<i>Erythronium rostratum</i>	Beaked Trout-lily	S2	G5	S	--
	Mesic Woods And Slopes				
<i>Hasteola suaveolens</i>	Sweet-scented Indian-plantain	S2	G4	T	--
	Alluvial Woods, Moist Slopes				
<i>Hydrastis canadensis</i>	Goldenseal	S3	G4	S-CE	--
	Rich Woods				
<i>Juncus brachycephalus</i>	Small-headed Rush	S2	G5	S	--
	Seeps And Wet Bluffs				
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress	S3	G4T3	S	--
	Glades				
<i>Lilium michiganense</i>	Michigan Lily	S3	G5	T	--
	Swamps And Open Wet Woods				
<i>Liparis loeselii</i>	Fen Orchis	S1	G5	T	--
	Calcareous Seeps				
<i>Panax quinquefolius</i>	American Ginseng	S3S4	G3G4	S-CE	--
	Rich Woods				
<i>Prenanthes barbata</i>	Bearded Rattlesnake-root	S2	G3	S	--
	Barrens And Dry Woodlands				



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Wayne County . . . Continued

Known Species: 35

Vertebrate Animals: 17		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma aquali</i>	Coppercheek Darter Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3	G2G3	T	--
<i>Etheostoma boschungii</i>	Slackwater Darter Gravel-bottomed creeks and small rivers; spawns in seepage water in fields and open woods.	S1	G1	T	LT
<i>Etheostoma cinereum</i>	Ashy Darter Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3	G2G3	T	--
<i>Etheostoma corona</i>	Crown Darter Rocky pools and adjacent riffles of headwaters, creeks, and small rivers; Cypress Creek watershed.	S1S2	G3	E	--
<i>Etheostoma neopterum</i>	Lollypop Darter Small to medium sized, gravelly, cool, spring-fed streams; Shoal Creek watershed.	S1S2	G3	--	--
<i>Hemitremia flammea</i>	Flame Chub Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3	G3	D	--
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1	G5	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Noturus fasciatus</i>	Saddled Madtom Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2	G2	T	--
<i>Percina burtoni</i>	Blotchside Logperch Large creeks and small-medium rivers with low turbidity and gravel-cobble substrates; Tennessee & Cumberland river watersheds.	S2	G2G3	D	--
<i>Pituophis melanoleucus melanoleucus</i>	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 Appalachians.	S3	G4T4	T	--
<i>Sistrurus miliarius streckeri</i>	Western Pygmy Rattlesnake Usually near water in river floodplains, swamps, marshes, and wet prairies; occas drier wooded uplands; W half of Tenn., generally.	S2S3	G5T5	T	--
<i>Thryomanes bewickii</i>	Bewick's Wren Brushy areas, thickets and scrub in open country, open and riparian woodland.	S1	G5	E	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--
<i>Tyto alba</i>	Barn Owl Open and partly open country, often around human habitation; farms.	S3	G5	D	--

-- End of Wayne --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Weakley County

Known Species: 14

Invertebrate Animals: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Fallicambarus hortonii

Hatchie Burrowing Crayfish

S1

G1

E

--

Primary burrower; uses saturated or seasonally saturated soils associated with permanent bodies of water; Mississippi River tributaries, Coastal Plain.

Other Types: 1

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Heron rookery

Heron Rookery

SNR

GNR

--

--

Vascular Plants: 3

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Crataegus harbisonii

Harbison's Hawthorn

S1

G1

E

--

Dry Rocky Calcareous Woods

Didiplis diandra

Water-purslane

S1

G5

T

--

Swamps

Helianthus occidentalis

Naked-stem Sunflower

S2

G5

S

--

Limestone Glades And Barrens; Roadsides

Vertebrate Animals: 9

St. Rank

Global Rank

St. Prot.

Fed. Prot.

Corynorhinus rafinesquii

Rafinesque's Big-eared Bat

S3

G3G4

D

--

Caves, hollow trees, abandoned buildings; often associated with forested areas.

Etheostoma pyrrhogaster

Firebelly Darter

S2

G2G3

D

--

Sand- and gravel-bottomed pools of headwaters, creeks, and small rivers; upper Coastal Plain; west Tennessee.

Ictinia mississippiensis

Mississippi Kite

S2S3

G5

D

--

Undisturbed stands of lowland and floodplain forests and along major rivers.

Limnothlypis swainsonii

Swainson's Warbler

S3

G4

D

--

Mature, rich, damp, deciduous floodplain and swamp forests.

Noturus gladiator

Piebald Madtom

S3

G3

D

--

Large creeks & rivers in moderate-swift currents with clean sand or gravel substrates; Mississippi River tributaries.

Sorex longirostris

Southeastern Shrew

S4

G5

D

--

Various habitats including wet meadows, damp woods, and uplands; statewide.

Synaptomys cooperi

Southern Bog Lemming

S4

G5

D

--

Marshy meadows, wet balds, & rich upland forests.

Tyto alba

Barn Owl

S3

G5

D

--

Open and partly open country, often around human habitation; farms.

Zapus hudsonius

Meadow Jumping Mouse

S4

G5

D

No Status

Open grassy fields; often abundant in thick vegetation near water bodies; statewide.

-- End of Weakley --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



White County

Known Species: 51

Invertebrate Animals: 19		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Aloconota diversiseta</i>	A Rove Beetle Terrestrial cave obligate; Cumberland Plateau.	S1	G1	--	--
<i>Appaleptoneta sp. 1</i>	A Leptonetid Spider From Ghost River Cave Terrestrial cave obligate; reported from the northern Cumberlands.	S1	G1	--	--
<i>Cambarus pristinus</i>	Pristine Crayfish Under cover in small-large size streams; headwaters of Caney Fork River & abutting Sequatchie River tributaries; Cumberland Plateau.	S2	G2	E	--
<i>Folsomia sp. 2 nr. macrochaeta</i>	A Springtail From Indian Cave Terrestrial cave obligate; middle Cumberlands; White County.	S1	G1	--	--
<i>Helicodiscus hadenoecus</i>	Cricket Coil Cave obligate; feeds on cricket guano; Eastern Highland Rim & Cumberland Plateau.	S3	G3	--	--
<i>Helicodiscus punctatellus</i>	Punctate Coil Limestone talus deposits, Eastern Highland Rim; Jackson County; known from Pleistocene fossil specimens; may not be extant in TN.	S1	G1	--	--
<i>Hesperochnes mirabilis</i>	Southeastern Cave Pseudoscorpion Terrestrial cave obligate; woodrat debris in caves; middle Tennessee.	S3	G5	--	--
<i>Kleptochthonius daemonius</i>	A Cave Obligate Pseudoscorpion Terrestrial cave obligate; Cumberland Plateau.	S1S2	G1G2	--	--
<i>Lithasia geniculata pinguis</i>	Small Genuiculate River Snail Headwater form of L. geniculata, in small rivers and large streams, on gravel substrates; upper Duck & Caney Fork systems.	S2	G3T3Q	--	--
<i>Litocampa sp. 5</i>	A Cave Dipluran From TN Terrestrial cave obligate, Cumberland Plateau escarpment.	S1	G2	--	--
<i>Orconectes australis</i>	Southern Cave Crayfish Aquatic cave obligate; subterranean streams & pools; Eastern Highland Rim escarpment to the Cumberland Plateau.	S3	G5	--	--
<i>Pleurobema gibberum</i>	Cumberland Pigtoe Shallow areas in small-medium rivers in riffles with sand and gravel substrates; tribs of Cumberland River & poss TN R, middle Tenn.	S1	G1	E	LE
<i>Pseudanophthalmus sp. 27</i>	Rumbling Falls Cave Beetle Terrestrial cave obligate; middle Cumberlands; Van Buren & White counties.	S1	G1	--	--
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail Terrestrial cave obligate; portions of Cumberland Plateau & Sequatchie Valley.	S2	G5	--	--
<i>Pseudosinella sp. 5</i>	A Cave Springtail From Swamp River Cave Terrestrial cave obligate; middle Cumberlands.	S1	G1	--	--
<i>Pseudosinella sp. 6</i>	A Springtail From Indian Cave Terrestrial cave obligate; White County. Reported from a single cave.	S1	G1	--	--
<i>Scoterpes ventus</i>	A Cave Obligate Millipede Terrestrial cave obligate; wet caves of the Cumberland Plateau & Sequatchie Valley.	S1	G1	--	--
<i>Trechus cumberlandus</i>	Cumberland Ground Beetle Terrestrial associate of caves, springs, sinkholes; escarpment of the Cumberland Plateau, generally.	S2	G2	--	--



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



White County . . . Continued

Known Species: 51

Invertebrate Animals: 19 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Triacanthella copelandi</i>	Copeland's Springtail Terrestrial cave associate; middle Cumberlands; also reported from Great Smoky Mtns.	S1	G1	--	--
Nonvascular Plants: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Palamocladium leskeoides</i>	Seepy Limestone Cliffs And Bluffs	S1	G3G5	T	--
Vascular Plants: 18		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ceratophyllum echinatum</i>	Prickly Hornwort Slow Moving Streams	S1	G4?	S	--
<i>Conradina verticillata</i>	Cumberland Rosemary Sandy, Rocky River Banks And Bars	S3	G3	T	LT
<i>Eriocaulon decangulare</i>	Ten-angle Pipewort Acidic Wetlands	S1	G5	E	--
<i>Eryngium integrifolium</i>	Blue-flower Coyote-thistle Wet Barrens	S1	G5	T	--
<i>Fuirena squarrosa</i>	Hairy Umbrella-sedge Stream And Lake Margins	S1	G4G5	S	--
<i>Glyceria acutiflora</i>	Sharp-scaled Mannagrass Swamps,Ponds	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Lilium canadense</i>	Canada Lily Rich Woods And Seeps	S3	G5	T	--
<i>Lilium michiganense</i>	Michigan Lily Swamps And Open Wet Woods	S3	G5	T	--
<i>Ludwigia sphaerocarpa</i>	Globe-fruited False-loosestrife Swamps And Shallow Pools	S1	G5	T	--
<i>Lysimachia terrestris</i>	Swamp Loosestrife Wet Prairies And Swamps	S1	G5	E	--
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil Acidic Wetland And Ponds	S1	G5	T	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein-orchid Swamps And Floodplains	S2	G4T4Q	T	--
<i>Ribes curvatum</i>	Granite Gooseberry Rocky Woods	S1	G4	T	--
<i>Spiraea virginiana</i>	Virginia Spiraea Stream Bars And Ledges	S2	G2	E	LT



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



White County . . . Continued

Known Species: 51

Vascular Plants: 18 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Torreyochloa pallida</i>	Pale Manna Grass Pond And Stream Margins	S1	G5	S	--
<i>Xyris ambigua</i>	Coastal Plain Yellow-eyed Grass Margins Of Ponds, Bogs, And Ditches	S1	G5	E	--
<i>Xyris laxifolia</i> var. <i>iridifolia</i>	Wide-leaved Yellow-eyed Grass Pond Margins And Marshes	S2	G4G5T4T5	T	--
Vertebrate Animals: 13		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat Caves, hollow trees, abandoned buildings; often associated with forested areas.	S3	G3G4	D	--
<i>Cryptobranchus alleganiensis</i>	Hellbender Rocky, clear creeks and rivers with large shelter rocks.	S3	G3G4	D	No Status
<i>Etheostoma</i> sp. <i>D</i>	Bluemask (Jewel) Darter Streams with slow to moderate current over clean sand and fine gravel; Caney Fork River system (above Great Falls Reservoir).	S1	G1	E	LE
<i>Falco peregrinus</i>	Peregrine Falcon Varied habitats including farmlands, marshes, river mouths, and cities; often nests on ledges.	S1B	G4	E	No Status
<i>Hyla gratiosa</i>	Barking Treefrog Low wet woods and swamps esp. with ephemeral ponds.	S3	G5	D	--
<i>Limnothlypis swainsonii</i>	Swainson's Warbler Mature, rich, damp, deciduous floodplain and swamp forests.	S3	G4	D	--
<i>Myotis grisescens</i>	Gray Myotis Cave obligate year-round; frequents forested areas; migratory.	S2	G3	E	LE
<i>Myotis sodalis</i>	Indiana Myotis Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1	G2	E	LE
<i>Neotoma magister</i>	Allegheny Woodrat Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3	G3G4	D	--
<i>Notropis rupestris</i>	Bedrock Shiner Bedrock pools of some low-gradient streams of the Nashville Basin.	S2	G2	D	--
<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard Dry upland areas including brushy, cut-over woodlands and grassy fields; nearly statewide but obscure; fossorial.	S3	G5T5	D	--
<i>Sorex longirostris</i>	Southeastern Shrew Various habitats including wet meadows, damp woods, and uplands; statewide.	S4	G5	D	--
<i>Typhlichthys subterraneus</i>	Southern Cavefish Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.	S3	G3G4	D	--

-- End of White --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Williamson County

Known Species: 24

Ecological Systems: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Carex lurida</i> - <i>Carex leptalea</i> - <i>Parnassia grandifolia</i> - <i>Juncus brachycephalus</i> - (<i>Xyris tennesseensis</i>) Herbaceous Vegetation	Highland Rim Parnassia Seepage Fen	SNR	G1	--	--
Invertebrate Animals: 2		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Ophiogomphus acuminatus</i>	Acuminate Snaketail Clear, mostly shaded streams with at least pockets of sandy gravel; Western Highland Rim & Western Uplands.	S2	G3	--	--
<i>Orconectes shoupi</i>	Nashville Crayfish 1st-order & larger streams, generally with bedrock bottom, under slabrock; endemic to Mill Creek watershed; Davidson & William. cos.	S1S2	G1G2	E	LE
Vascular Plants: 16		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Apios priceana</i>	Price's Potato-bean Openings In Rich Woods	S2	G2	E	LT
<i>Asclepias purpurascens</i>	Purple Milkweed Barrens	S1	G5?	S	--
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Carex oxylepis</i> var. <i>pubescens</i>	Hairy Sharp-scaled Sedge Wooded Bluffs, Floodplains	S1	G5?T3	S	--
<i>Castanea dentata</i>	American Chestnut Mesic To Dry Forests	S2S3	G4	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Erythronium rostratum</i>	Beaked Trout-lily Mesic Woods And Slopes	S2	G5	S	--
<i>Helianthus eggertii</i>	Eggert's Sunflower Barrens And Roadsides	S3	G3	S	DM
<i>Juglans cinerea</i>	Butternut Rich Woods And Hollows	S3	G4	T	--
<i>Juncus brachycephalus</i>	Small-headed Rush Seeps And Wet Bluffs	S2	G5	S	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella densipila</i>	Duck River Bladderpod Cultivated Fields	S3	G3	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--



Tennessee Natural Heritage Program
Rare Species Observations For
Tennessee Counties



Williamson County . . . Continued

Known Species: 24

Vascular Plants: 16 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Parnassia grandifolia</i>	Large-leaved Grass-of-parnassus Calcareous Seeps	S3	G3	S	--
<i>Perideridia americana</i>	Thicket Parsley Cedar Barrens	S2	G4	E	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
Vertebrate Animals: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Accipiter striatus</i>	Sharp-shinned Hawk Forests and open woodlands.	S3B,S4N	G5	D	No Status
<i>Dendroica cerulea</i>	Cerulean Warbler Mature deciduous forest, particularly in floodplains or mesic conditions.	S3B	G4	D	--
<i>Etheostoma luteovinctum</i>	Redband Darter Limestone streams; Nashville Basin & portions of Highland Rim.	S4	G4	D	--
<i>Etheostoma microlepidum</i>	Smallscale Darter Small rivers, in deep, strongly flowing riffles with gravel, boulder, and coarse rubble substrates; Cumberland River drainage.	S2	G2G3	D	--
<i>Percina phoxocephala</i>	Slenderhead Darter Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3	G5	D	--

-- End of Williamson --



Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Wilson County Known Species: 48

Invertebrate Animals: 5		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Epioblasma brevidens</i>	Cumberlandian Combshell Large creeks to large rivers, in coarse sand or mixtures of gravel, cobble, or rocks; Tennessee & Cumberland river systems.	S1	G1	E	LE
<i>Epioblasma obliquata obliquata</i>	Catspaw Medium-large rivers, in sand and gravel substrates in runs and riffles; Tennessee & Cumberland river systems.	S1	G1T1	E	LE
<i>Gomphus sandrius</i>	Tennessee Clubtail Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.	S1	G1	--	--
<i>Lampsilis abrupta</i>	Pink Mucket Generally a large river species, preferring sand-gravel or rocky substrates with mod-strong currents; Tennessee & Cumberland river systems.	S2	G2	E	LE
<i>Pseudanophthalmus acherontis</i>	Echo Cave Beetle Terrestrial cave obligate; Central Basin; reported from Wilson & Rutherford counties.	S1	G1	--	--
Other Types: 1		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Heron rookery</i>	Heron Rookery	SNR	GNR	--	--
Vascular Plants: 30		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Allium stellatum</i>	Glade Onion Glades	S1	G5	E	--
<i>Ammoselinum popei</i>	Pope's Sand-parsley Glades	S2	G4	T	--
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Limestone Blue Star Glades, Barrens, And Rocky River Bars	S3	G5T3Q	S	--
<i>Anemone caroliniana</i>	Carolina Anemone Glades And Cedar Woodlands	S1S2	G5	E	--
<i>Arabis hirsuta</i>	Western Hairy Rockcress Glades And Limestone Bluffs	S1	G5	T	--
<i>Arabis perstellata</i>	Braun's Rockcress Limestone Bluffs	S1	G2	E	LE
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch Glades	S3	G3	S	--
<i>Dalea candida</i>	White Prairie-clover Barrens	S2	G5	S	--
<i>Dalea foliosa</i>	Leafy Prairie-clover Rocky Washes In Glades	S2S3	G2G3	E	LE
<i>Dalea purpurea</i>	Purple Prairie-clover Barrens	S1	G5	E	--
<i>Diarrhena obovata</i>	Beak Grass Moist Calcareous Ledges, Upland Woods	S1	G4G5	S	--



Tennessee Natural Heritage Program Rare Species Observations For Tennessee Counties



Wilson County . . . Continued

Known Species: 48

Vascular Plants: 30 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Echinacea tenesseeensis</i>	Tennessee Coneflower Ordovician Limestone Glades	S2	G2	E	LE
<i>Evolvulus nuttallianus</i>	Evolvulus Glades	S3	G5	S	--
<i>Helianthus occidentalis</i>	Naked-stem Sunflower Limestone Glades And Barrens; Roadsides	S2	G5	S	--
<i>Hydrastis canadensis</i>	Goldenseal Rich Woods	S3	G4	S-CE	--
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade-cress Glades	S3	G4T3	S	--
<i>Lesquerella perforata</i>	Spring Creek Bladderpod Cultivated Fields, Floodplains & Outcrops	S1	G1	E	LE
<i>Mirabilis albida</i>	Pale Umbrella-wort Glades	S2	G5	T	--
<i>Oenothera macrocarpa</i>	Missouri Primrose Limestone Cedar Glades	S2	G5	T	--
<i>Panax quinquefolius</i>	American Ginseng Rich Woods	S3S4	G3G4	S-CE	--
<i>Phlox bifida</i> ssp. <i>stellaria</i>	Glade Cleft Phlox Glades	S3	G5?T3	T	--
<i>Phlox pilosa</i> ssp. <i>ozarkana</i>	Ozark Downy Phlox Rocky, Dry Open Woods	S1S2	G5T4?	S	--
<i>Schoenolirion croceum</i>	Yellow Sunnybell Wet Areas In Glades	S3	G4	T	--
<i>Scleria verticillata</i>	Low Nutrush Wet Prairies And Fens	S2	G5	S	--
<i>Silphium pinnatifidum</i>	Southern Prairie-dock Barrens	S2	G3Q	T	--
<i>Sporobolus heterolepis</i>	Northern Dropseed Limestone Glades And Barrens	S1	G5	S	--
<i>Stellaria fontinalis</i>	Water Stitchwort Seeps And Limestone Creek Beds	S3	G3	T	--
<i>Talinum calcaricum</i>	Limestone Fame-flower Glades	S3	G3	S	--
<i>Vitis rupestris</i>	Sand Grape Sandy, Rocky Riverbanks	S1	G3	E	--
<i>Zanthoxylum americanum</i>	Northern Prickly-ash Cedar Thickets	S2	G5	S	--

Vertebrate Animals: 12		St. Rank	Global Rank	St. Prot.	Fed. Prot.
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Tennessee Natural Heritage Program

Rare Species Observations For Tennessee Counties



Wilson County . . . Continued

Known Species: 48

Vertebrate Animals: 12 . . . Continued		St. Rank	Global Rank	St. Prot.	Fed. Prot.
<i>Chondestes grammacus</i>	Lark Sparrow	S1B	G5	T	--
	Open habitats with scattered bushes and trees, prairie, cultivated areas, fields with bushy borders; ground nester.				
<i>Cryptobranchus alleganiensis</i>	Hellbender	S3	G3G4	D	No Status
	Rocky, clear creeks and rivers with large shelter rocks.				
<i>Etheostoma olivaceum</i>	Sooty Darter	S3	G3	D	--
	Small streams with slabrock on limestone bedrock; Nashville Basin tribs to Cumberland & lower Caney Fork rivers.				
<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander	S2	G2G3	T	--
	Aquatic cave obligate; cave streams & rimstone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.				
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	S2S3	G3G4	D	--
	Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure.				
<i>Myotis grisescens</i>	Gray Myotis	S2	G3	E	LE
	Cave obligate year-round; frequents forested areas; migratory.				
<i>Neotoma magister</i>	Allegheny Woodrat	S3	G3G4	D	--
	Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.				
<i>Notropis rupestris</i>	Bedrock Shiner	S2	G2	D	--
	Bedrock pools of some low-gradient streams of the Nashville Basin.				
<i>Percina phoxocephala</i>	Slenderhead Darter	S3	G5	D	--
	Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.				
<i>Thryomanes bewickii</i>	Bewick's Wren	S1	G5	E	--
	Brushy areas, thickets and scrub in open country, open and riparian woodland.				
<i>Typhlichthys subterraneus</i>	Southern Cavefish	S3	G3G4	D	--
	Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV & BR.				
<i>Tyto alba</i>	Barn Owl	S3	G5	D	--
	Open and partly open country, often around human habitation; farms.				

-- End of Wilson --