

APPENDIX A. Data and Rationale for Selection of GCN Species

TERRESTRIAL FAUNA SELECTED AS GCN SPECIES																
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	WU Region	CU Region	NB Region	CR Region	R&V Region	SBR Region
1	Amphibian	<i>Acris gryllus</i>	Southern Cricket Frog	G5	S4			Yes	2	Terrestrial	Peripheral	Peripheral				
1	Amphibian	<i>Ambystoma barbouri</i>	Streamside Salamander	G4	S2		D	Yes	1	Terrestrial			Endemic			
1	Amphibian	<i>Aneides aeneus</i>	Green Salamander	G3G4	S3S4			Yes	2	Terrestrial			Limited	Limited	Limited	
1	Amphibian	<i>Desmognathus aeneus</i>	Seepage Salamander	G3G4	S1		D	Yes	1	Terrestrial						Endemic
1	Amphibian	<i>Desmognathus wrighti</i>	Pigmy Salamander	G3G4	S2		D	Yes	1	Terrestrial						Limited
1	Amphibian	<i>Hemidactylium scutatum</i>	Four-toed Salamander	G5	S3		D	Yes	1	Terrestrial			Widespread	Widespread	Widespread	Widespread
1	Amphibian	<i>Hyla gratiosa</i>	Barking Treefrog	G5	S3		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread		
1	Amphibian	<i>Hyla versicolor</i>	Gray Treefrog	G5	S5			Yes	2	Terrestrial	Widespread	Widespread				
1	Amphibian	<i>Plethodon aureolus</i>	Tellico Salamander	G2G3	S2S3			Yes	1	Terrestrial						Endemic
1	Amphibian	<i>Plethodon jordani</i>	Red-cheeked Salamander	G2	S2			Yes	1	Terrestrial						Endemic
1	Amphibian	<i>Plethodon richmondi</i>	Ravine Salamander	G5	S2			Yes	2	Terrestrial				Limited		Limited
1	Amphibian	<i>Plethodon wehrlei</i>	Wehrle's Salamander	G5	S1		D	Yes	1	Terrestrial				Peripheral		
1	Amphibian	<i>Plethodon welleri</i>	Weller's Salamander	G3	S1		D	Yes	1	Terrestrial						Endemic
1	Amphibian	<i>Plethodon yonahlossee</i>	Yonahlossee Salamander	G4	S3			Yes	2	Terrestrial						Endemic
1	Amphibian	<i>Pseudacris brachyphona</i>	Mountain Chorus Frog	G5	S4			Yes	2	Terrestrial				Widespread		Widespread
1	Amphibian	<i>Pseudotriton montanus</i>	Mud Salamander	G5	S5			Yes	2	Terrestrial			Widespread	Widespread	Widespread	Widespread
1	Amphibian	<i>Rana areolata</i>	Crawfish Frog	G4	S4			Yes	2	Terrestrial	Peripheral	Peripheral				
1	Amphibian	<i>Rana capito</i>	Gopher Frog	G3	S1	(PS)		Yes	1	Terrestrial			Widespread			
1	Bird	<i>Accipiter striatus</i>	Sharp-shinned Hawk	G5	S3B	(PS)	D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Aegolius acadicus</i>	Northern Saw-whet Owl	G5	S1		T	Yes	1	Terrestrial					Widespread	Widespread
1	Bird	<i>Almophila aestivalis</i>	Bachman's Sparrow	G3	S2		E	Yes	1	Terrestrial		Widespread	Widespread	Widespread	Widespread	
1	Bird	<i>Ammodramus henslowii</i>	Henslow's Sparrow	G4	S1B		D	Yes	1	Terrestrial			Widespread	Widespread	Widespread	
1	Bird	<i>Ammodramus savannarum</i>	Grasshopper Sparrow	G5	S4	(PS)		Yes	2	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	
1	Bird	<i>Anhinga anhinga</i>	Anhinga	G5	S1B		D	Yes	1	Terrestrial	Widespread					
1	Bird	<i>Aquila chrysaetos</i>	Golden Eagle	G5	S1		T	Yes	1	Terrestrial						Widespread
1	Bird	<i>Ardea alba</i>	Great Egret	G5	S2BS3N		D	Yes	1	Terrestrial	Widespread					
1	Bird	<i>Asio flammeus</i>	Short-eared Owl	G5	S3N			Yes	2	Terrestrial			Widespread			
1	Bird	<i>Bartramia longicauda</i>	Upland Sandpiper	G5	SXB?			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Botaurus lentiginosus</i>	American Bittern	G4	S1			Yes	3	Terrestrial	Widespread	Widespread	Widespread			
1	Bird	<i>Calcitrans canutus</i>	Red Knot	G5	S2N			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Calcitrans himantopus</i>	Silt Sandpiper	G5	S3N			Yes	2	Terrestrial	Widespread					
1	Bird	<i>Calcitrans mauri</i>	Western Sandpiper	G5	S4N			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Caprimulgus carolinensis</i>	Chuck-will's-widow	G5	S3S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread		Widespread	Widespread
1	Bird	<i>Caprimulgus vociferus</i>	Whip-poor-will	G5	S3S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	
1	Bird	<i>Certhia americana</i>	Brown Creeper	G5	S2BS4N			Yes	2	Terrestrial			Widespread			Widespread
3	Bird	<i>Charadrius alexandrinus</i>	Snowy Plover	G4	S7	(PS:LT)		Yes	3	Terrestrial	Widespread					
3	Bird	<i>Charadrius melodus melodus</i>	Piping Plover	G3	S2N	(LE:LT)		Yes	1	Terrestrial	Widespread					
1	Bird	<i>Charadrius wilsonia</i>	Wilson's Plover	G5	S7			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Chondestes grammacus</i>	Lark Sparrow	G5	S1B		T	Yes	1	Terrestrial	Widespread	Widespread	Widespread			
1	Bird	<i>Circus cyaneus</i>	Northern Harrier	G5	S4N			Yes	2	Terrestrial			Widespread			
1	Bird	<i>Cistothorus platensis</i>	Sedge Wren or Short-billed Marsh Wren	G5	S3NSPB			Yes	2	Terrestrial			Widespread			
1	Bird	<i>Coccyzus americanus</i>	Yellow-billed Cuckoo	G5	S4S5	(PS)		Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	
1	Bird	<i>Contopus cooperi</i>	Olive-sided Flycatcher	G4	S1		D	Yes	3c	Terrestrial						Widespread
1	Bird	<i>Contopus virens</i>	Eastern Wood-pewee	G5	S5			Yes	2	Terrestrial			Widespread		Widespread	
1	Bird	<i>Corvus corax</i>	Common Raven	G5	S2		T	Yes	1	Terrestrial					Widespread	Widespread
1	Bird	<i>Dendroica caerulescens</i>	Black-throated Blue Warbler	G5	S4			Yes	3	Terrestrial				Widespread		Widespread
1	Bird	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Dendroica discolor</i>	Prairie Warbler	G5	S3S4			Yes	3	Terrestrial			Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Dendroica dominica</i>	Yellow-throated Warbler	G5	S4			Yes	3	Terrestrial				Widespread	Widespread	Widespread
1	Bird	<i>Dendroica virens</i>	Black-throated Green Warbler	G5	S5			Yes	2	Terrestrial				Widespread		Widespread
1	Bird	<i>Egretta caerulea</i>	Little Blue Heron	G5	S2BS3N		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread			
1	Bird	<i>Elanoides forficatus</i>	Swallow-tailed Kite	G5	SAN			Yes	1	Terrestrial	Widespread	Widespread				
1	Bird	<i>Empidonax aliorum</i>	Alder Flycatcher	G5	S1			Yes	2	Terrestrial						Widespread
1	Bird	<i>Empidonax minimus</i>	Least Flycatcher	G5	S3			Yes	2	Terrestrial						Widespread
1	Bird	<i>Empidonax virescens</i>	Acadian Flycatcher	G5	S5			Yes	3	Terrestrial			Widespread	Widespread	Widespread	Widespread
3	Bird	<i>Falco peregrinus</i>	Peregrine Falcon	G4	S1N	(PS:LE)	E	Yes	1	Terrestrial			Widespread	Widespread	Widespread	Widespread
3	Bird	<i>Grus americana</i>	Whooping Crane	G1	S7	(LE, XN)		Yes	1	Terrestrial						Widespread
3	Bird	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S3	LT	D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Helmitheros vermivorus</i>	Worm-eating Warbler	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Hylocichla ustellata</i>	Wood Thrush	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Icterus spurius</i>	Orchard Oriole	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread			Widespread
1	Bird	<i>Ictinia mississippiensis</i>	Mississippi Kite	G5	S2S3		D	Yes	1	Terrestrial	Widespread					
1	Bird	<i>Ixobrychus exilis</i>	Least Bittern	G5	S2B		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread		Widespread	
1	Bird	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G5	S3			Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Limothypis swainsonii</i>	Swainson's Warbler	G4	S3		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Limosa fedoa</i>	Marbled Godwit	G5	S7			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Limosa haemastica</i>	Hudsonian Godwit	G4	S7			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S4			Yes	2	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Numenius phaeopus</i>	Whimbrel	G5	S7			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Oporornis formosus</i>	Kentucky Warbler	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Parula americana</i>	Northern Parula	G5	S5			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Passerculus sandwichensis</i>	Savannah Sparrow	G5	S1BS4N			Yes	3c	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Passerina ciris</i>	Painted Bunting	G5	S2			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Pluvialis dominica</i>	American Golden Plover	G5	S3N			Yes	3	Terrestrial	Widespread					
1	Bird	<i>Poocilla atricapillus</i>	Black-capped Chickadee	G5	S2B			Yes	2	Terrestrial						Widespread
1	Bird	<i>Poocetes gramineus</i>	Vesper Sparrow	G5	S1BS4N		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Rallus elegans</i>	King Rail	G4G5	S2		D	Yes	1	Terrestrial	Widespread	Widespread	Widespread			
1	Bird	<i>Regulus satrapa</i>	Golden-crowned Kinglet	G5	S3BS4N			Yes	2	Terrestrial						Widespread
1	Bird	<i>Riparia riparia</i>	Bank Swallow	G5	S3			Yes	2	Terrestrial	Widespread					
1	Bird	<i>Scolopax minor</i>	American Woodcock	G5	S4B			Yes	2	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S4			Yes	3	Terrestrial	Widespread	Widespread	Widespread	Widespread	Widespread	Widespread
1	Bird	<i>Sitta canadensis</i>	Red-breasted Nuthatch	G5	S2BS4N			Yes	2	Terrestrial						Widespread
1	Bird	<i>Sitta pusilla</i>	Brown-headed Nuthatch	G5	S2B			Yes	3	Terrestrial		Widespread				Widespread
1	Bird	<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	G5	S1BS4N		D	Yes	1	Terrestrial						Widespread
1	Bird	<i>Spiza americana</i>	Dickcissel	G5	S4			Yes	2	Terrestrial	Widespread	Widespread	Widespread			

TERRESTRIAL FAUNA SELECTED AS GCN SPECIES																
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	WU Region	CU Region	NB Region	CR Region	R&V Region	SBR Region
1	Snail	<i>Infectarius ferrissi</i>	Smoky Mountain Covert	G2	S2S3			Yes	1	Terrestrial						Endemic
1	Snail	<i>Infectarius kalmianus</i>	Brown Globelet	G3	S3			Yes	1	Terrestrial			Limited	Limited		
1	Snail	<i>Infectarius smithi</i>	Alabama Shagreen	G2	S2?			Yes	1	Terrestrial				Limited		
1	Snail	<i>Infectarius subpalliatu</i>	Velvet Covert	G2	S2S3			Yes	1	Terrestrial						Endemic
1	Snail	<i>Megapalliera wetherbyi</i>	Blotchy Mantleslug	G2G3	S3			Yes	1	Terrestrial				Limited		
1	Snail	<i>Mesodon altivagus</i>	Wandering Globe	G2G3	S7			Yes	1	Terrestrial						Endemic
1	Snail	<i>Mesodon andrewsae</i>	Balsam Globe	G3	S3			Yes	1	Terrestrial						Limited
1	Snail	<i>Mesodon sanus</i>	Squat Globelet	G3	S2S3			Yes	1	Terrestrial				Limited		
1	Snail	<i>Mesomphix andrewsae</i>	Mountain Button	G2G3	S3S4			Yes	1	Terrestrial						Endemic
1	Snail	<i>Mesomphix rugell</i>	Wrinkled Button	G3	S3			Yes	1	Terrestrial					Limited	Limited
1	Snail	<i>Mesomphix subplanus</i>	Flat Button	G3	S3S4			Yes	1	Terrestrial						Limited
1	Snail	<i>Paravitrea aethia</i>	Goddess Supercoil	G1	S1?			Yes	1	Terrestrial					Endemic	
1	Snail	<i>Paravitrea andrewsae</i>	High Mountain Supercoil	G2	S3?			Yes	1	Terrestrial						Endemic
1	Snail	<i>Paravitrea bellona</i>	Club Supercoil	G1	S7			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Paravitrea blarina</i>	Shrew Supercoil	G2	S3			Yes	1	Terrestrial				Limited	Limited	
1	Snail	<i>Paravitrea calcicola</i>	Pearl Supercoil	G1	S1?			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Paravitrea clappi</i>	Mirey Ridge Supercoil	G2G3	S2S3			Yes	1	Terrestrial						Endemic
1	Snail	<i>Paravitrea lamellidens</i>	Lamellate Supercoil	G2	S2			Yes	1	Terrestrial						Endemic
1	Snail	<i>Paravitrea lapilla</i>	Gem Supercoil	G1	S3?			Yes	1	Terrestrial			Endemic			
1	Snail	<i>Paravitrea metallacta</i>	Caney Fork Supercoil	G2	S3			Yes	1	Terrestrial			Limited	Limited		
1	Snail	<i>Paravitrea petrophila</i>	Cherokee Supercoil	G2G3	S4			Yes	1	Terrestrial				Widespread	Widespread	Widespread
1	Snail	<i>Paravitrea placentula</i>	Glossy Supercoil	G3	S3			Yes	1	Terrestrial					Limited	Limited
1	Snail	<i>Paravitrea reesei</i>	Round Supercoil	G2	S1S2			Yes	1	Terrestrial						Limited
1	Snail	<i>Paravitrea subtilis</i>	Slender Supercoil	G2	S3?			Yes	1	Terrestrial			Limited	Limited		
1	Snail	<i>Paravitrea tanilla</i>	Teasing Supercoil	G2G3	S4			Yes	1	Terrestrial				Limited	Limited	
1	Snail	<i>Paravitrea ternaria</i>	Sculpted Supercoil	G1	S1S2			Yes	1	Terrestrial						Endemic
1	Snail	<i>Paravitrea tridens</i>	White-foot Supercoil	G1G2	S2			Yes	1	Terrestrial					Limited	Limited
1	Snail	<i>Paravitrea umbilicaris</i>	Open Supercoil	G2	S3?			Yes	1	Terrestrial				Limited		Limited
1	Snail	<i>Paravitrea variabilis</i>	Variable Supercoil	G2	S2S3			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Paravitrea varidens</i>	Roan Supercoil	G1G2	S1S2			Yes	1	Terrestrial						Endemic
1	Snail	<i>Patera clarki</i>	Dwarf Proud Globe	G3	S2S3	(PS)		Yes	1	Terrestrial						Limited
1	Snail	<i>Philomycus sellatus</i>	Alabama Mantleslug	G2G3	S3?			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Philomycus virginicus</i>	Virginia Mantleslug	G3	S2S3			Yes	1	Terrestrial					Limited	
1	Snail	<i>Pilsbryna aurea</i>	Ornate Bud	G1	S1			Yes	1	Terrestrial						Endemic
1	Snail	<i>Pilsbryna castanea</i>	Prominent Bud	G1	S2			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Stenotrema allispira</i>	Highland Siltmouth	G2	S2?			Yes	1	Terrestrial						Endemic
1	Snail	<i>Stenotrema angellum</i>	Kentucky Siltmouth	G3	S3			Yes	1	Terrestrial			Limited	Limited		
1	Snail	<i>Stenotrema calvescens</i>	Chattanooga Siltmouth	G2	S3S4			Yes	1	Terrestrial				Limited	Limited	
1	Snail	<i>Stenotrema cohuttense</i>	Cohutta Siltmouth	G1G2	S2			Yes	1	Terrestrial						Endemic
1	Snail	<i>Stenotrema depilatum</i>	Great Smoky Siltmouth	G2	S3			Yes	1	Terrestrial						Endemic
1	Snail	<i>Stenotrema edgarianum</i>	Sequatchie Siltmouth	G2	S3			Yes	1	Terrestrial				Endemic		
1	Snail	<i>Stenotrema exodon</i>	Alabama Siltmouth	G2	S7			Yes	1	Terrestrial				Limited		
1	Snail	<i>Stenotrema magnalumosum</i>	Appalachian Siltmouth	G3	S3S4			Yes	1	Terrestrial				Limited		Limited
1	Snail	<i>Stenotrema pilula</i>	Fygy Siltmouth	G3G4	S3			Yes	2	Terrestrial						Endemic
1	Snail	<i>Stenotrema waldense</i>	Doaks Creek Siltmouth	G1	S2S3			Yes	1	Terrestrial					Endemic	
1	Snail	<i>Striatula exigua</i>	Ribbed Striate	G4G5	S1			Yes	2	Terrestrial						Peripheral
1	Snail	<i>Succinea greeri</i>	Dryland Ambersnail	G3	S3?			Yes	1	Terrestrial			Widespread			
1	Snail	<i>Triodopsis anteridon</i>	Carter Three-tooth or Buttress Three-tooth	G2G3	S1S2			Yes	1	Terrestrial						Limited
1	Snail	<i>Triodopsis claibornensis</i>	Claiborne Three-tooth	G1G2	S3S4			Yes	1	Terrestrial					Endemic	
1	Snail	<i>Ventridens coelaxis</i>	Bidentate Dome	G3	S2S3			Yes	1	Terrestrial					Limited	Limited
1	Snail	<i>Ventridens decussatus</i>	Crossed Dome	G2G3	S2?			Yes	1	Terrestrial						Endemic
1	Snail	<i>Ventridens eutropis</i>	Carinate Dome	G2	S3?			Yes	1	Terrestrial			Limited	Limited		
1	Snail	<i>Ventridens lasmodon</i>	Hollow Dome	G3	S4			Yes	1	Terrestrial				Widespread	Widespread	Widespread
1	Snail	<i>Ventridens percallosus</i>	Tennessee Dome	G2	S3			Yes	1	Terrestrial					Limited	
1	Snail	<i>Vertigo clappi</i>	Cupped Vertigo	G1G2	S1			Yes	1	Terrestrial						Limited
1	Snail	<i>Vertigo parvula</i>	Smallmouth Vertigo	G2G3	S2S3			Yes	1	Terrestrial						Endemic
1	Snail	<i>Vertigo teskeyae</i>	Swamp Vertigo	G4	S1			Yes	2	Terrestrial			Peripheral			
1	Snail	<i>Webbhelix multilineata</i>	Striped Whitelip	G4	S1			Yes	2	Terrestrial	Peripheral					
1	Snail	<i>Xolotrema obstructum</i>	Sharp Wedge	G3	S5			Yes	1	Terrestrial				Widespread	Widespread	
1	Snail	<i>Zonitoides lateumbilicatus</i>	Striate Gloss	G2G3	S2?			Yes	1	Terrestrial					Limited	
2	Insect	<i>Amblyscirtes linda</i>	Linda's Roadside Skipper	G2G3	S2			Yes	1	Terrestrial	Peripheral	Peripheral				
2	Insect	<i>Callophrys irus</i>	Frosted Elf	G3	S2S3			Yes	1	Terrestrial				Widespread	Widespread	Widespread
2	Insect	<i>Cicindela ancoisconensis</i>	(a tiger beetle)	G3	S2			Yes	1	Terrestrial					Widespread	
3	Insect	<i>Nicrophorus americanus</i>	American Burying Beetle	G2G3	SH	LE		Yes	1	Terrestrial	Widespread	Widespread				
2	Insect	<i>Semiothisa fraserata</i>	Fraser Fir Geometrid Moth	G2?	S2?			Yes	1	Terrestrial						Endemic
2	Insect	<i>Speyeria diana</i>	Diana Fritillary	G3	S3			Yes	1	Terrestrial				Widespread	Widespread	Widespread
2	Tardigrade	<i>Calhypsiobius schusteri</i>	Schuster's Tardigrade	G7	S1			Yes	2	Terrestrial						Endemic
2	Tardigrade	<i>Hypsiobius roanensis</i>	Roan Tardigrade	G7	S1			Yes	2	Terrestrial						Endemic

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Target Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	WU Region	CU Region	NB Region	CR Region	R&V Region	SBR Region
1	Bird	<i>Sterna hirundo</i>	Common Tern	G5	S3N			No	4	Terrestrial						
1	Bird	<i>Sterna nilotica</i>	Gull-billed Tern	G5	S7			No	4	Terrestrial						
1	Bird	<i>Sturnella magna</i>	Eastern Meadowlark	G5	S5			No	4	Terrestrial						
1	Bird	<i>Toxostoma rufum</i>	Brown Thrasher	G5	S5			No	4	Terrestrial						
1	Bird	<i>Tringa flavipes</i>	Lesser Yellowlegs	G5	S5N			No	4	Terrestrial						
1	Bird	<i>Tringa melanoleuca</i>	Greater Yellowlegs	G5	S5N			No	4	Terrestrial						
1	Bird	<i>Tyrannus tyrannus</i>	Eastern Kingbird	G5	S5			No	4	Terrestrial						
3	Bird	<i>Vermivora bachmanii</i>	Bachman's Warbler	GH	SX	LE		No	7	Terrestrial						
1	Bird	<i>Wilsonia canadensis</i>	Canada Warbler	G5	S3BS4N			No	4	Terrestrial						
1	Mammal	<i>Bos bison</i>	Woodland Bison or American Bison	G4	SX	(PS)		No	9	Terrestrial						
1	Mammal	<i>Canis lupus</i>	Gray Wolf	G4	SX	?		No	9	Terrestrial						
3	Mammal	<i>Canis rufus</i>	Red Wolf	G1	SX	(LE, XN)		No	9	Terrestrial						
1	Mammal	<i>Cervus elaphus</i>	Eastern Elk or Elk	G5	SX	(PS)		No	8	Terrestrial						
1	Mammal	<i>Dasyurus novemcinctus</i>	Nine-banded Armadillo	G5	S3			No	4	Terrestrial						
1	Mammal	<i>Erethizon dorsatum</i>	Common Porcupine or North American Porcupine	G5	SR			No	5	Terrestrial						
1	Mammal	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	G5	S4S5			No	4	Terrestrial						
1	Mammal	<i>Lasurus seminolus</i>	Seminole Bat	G5	S7			No	5	Terrestrial						
1	Mammal	<i>Lontra canadensis</i>	Northern River Otter	G5	S3			No	4	Terrestrial						
1	Mammal	<i>Microtus ochrogaster</i>	Prairie Vole	G5	S3			No	4	Terrestrial						
1	Mammal	<i>Peromyscus maniculatus bairdii</i>	(a deer mouse)	G5T?	S7T?			No	6	Terrestrial						
1	Mammal	<i>Peromyscus polionotus</i>	Oldfield Mouse	G5	S4S5	(PS)		No	4	Terrestrial						
3	Mammal	<i>Puma concolor cougar</i>	Eastern Cougar	G5TH	SX?	LE		No	9	Terrestrial						
1	Mammal	<i>Sylvilagus aquaticus</i>	Swamp Rabbit	G5	S4			No	4	Terrestrial						
1	Snail	<i>Anguspira jessica</i>	Mountain Disc	G3G4	S3S4			No	4	Terrestrial						
1	Snail	<i>Daedalochila postelliana</i>	Coastal Liptooth	G3	S7			No	4	Terrestrial						
1	Snail	<i>Euchemotrema fasciatum</i>	Mountain Pillsnail	G3	S3			No	10	Terrestrial						
1	Snail	<i>Gastrodonta fonticola</i>	Appalachia Bellytooth	G3G4	S2S3			No	4	Terrestrial						
1	Snail	<i>Glyphyalinia laticola</i>	Furrowed Glyph	G4	S3			No	4	Terrestrial						
1	Snail	<i>Helicodiscus punctatellus</i>	Punctate Coil	G1	S1			No	9	Terrestrial						
1	Snail	<i>Mesodon ferissi</i>	(a terrestrial snail)	G7	S7			No	6	Terrestrial						
1	Snail	<i>Mesodon mitchellianus</i>	Sealed Globelet	G4	SP			No	4	Terrestrial						
1	Snail	<i>Mesomphix anurus</i>	Frog Button	G3G4	S5			No	4	Terrestrial						
1	Snail	<i>Mesomphix latior</i>	Broad Button	G3G4	S3			No	4	Terrestrial						
1	Snail	<i>Mesomphix vulgatus</i>	Common Button	G3	S4			No	4	Terrestrial						
1	Snail	<i>Nesovitreia electrina</i>	Amber Glass	G5	SP			No	4	Terrestrial						
1	Snail	<i>Pallifera hemphilli</i>	Black Mantleslug	G4	S2S3			No	4	Terrestrial						
1	Snail	<i>Pallifera marmorea</i>	Marbled Mantleslug	G3	S7			No	10	Terrestrial						
1	Snail	<i>Paravitrea pilsbryana</i>	Translucent Supercoll	G2	S3?			No	10	Terrestrial						
1	Snail	<i>Paravitrea pontis</i>	Natural Bridge Supercoll	G3	S7			No	4	Terrestrial						
1	Snail	<i>Paravitrea significans</i>	Domed Supercoll	G3	S1S2			No	10	Terrestrial						
1	Snail	<i>Praticolella lawae</i>	Appalachian Shrubsnaill	G3	S2S3			No	4	Terrestrial						
1	Snail	<i>Stenotrema barbigerum</i>	Fringed Slitmouth	G3G4	S3?			No	4	Terrestrial						
1	Snail	<i>Stenotrema deceplum</i>	Monte Sano Slitmouth	G3G4	S3S4			No	4	Terrestrial						
1	Snail	<i>Stenotrema spinosum</i>	Carinate Slitmouth	G3G4	S4			No	4	Terrestrial						
1	Snail	<i>Succinea forsheyi</i>	Spotted Ambersnail	G3G4	S3S4			No	10	Terrestrial						
1	Snail	<i>Triodopsis complanata</i>	Glossy Three-tooth	G2	S2?			No	10	Terrestrial						
1	Snail	<i>Triodopsis fraudulenta</i>	Baffled Three-tooth	G3	SP			No	4	Terrestrial						
1	Snail	<i>Triodopsis tennesseensis</i>	Budded Three-tooth	G3G4	S4			No	4	Terrestrial						
1	Snail	<i>Ventridens arcellus</i>	Golden Dome	G3G4	S3S4			No	4	Terrestrial						
1	Snail	<i>Ventridens brittsi</i>	Western Dome	G3	S7			No	10	Terrestrial						
1	Snail	<i>Ventridens lawae</i>	Rounded Dome	G3G4	S4			No	4	Terrestrial						
1	Snail	<i>Vertigo bollesiana</i>	Delicate Vertigo	G3	S2			No	4	Terrestrial						
1	Snail	<i>Vertigo pygmaea</i>	Crested Vertigo	G5	S1			No	5	Terrestrial						
1	Snail	<i>Vertigo rugosula</i>	Sirate Vertigo	G3G4	S3?			No	4	Terrestrial						
1	Snail	<i>Vertigo ventricosa</i>	Five-tooth Vertigo	G3G4	S2S3			No	4	Terrestrial						
1	Snail	<i>Xolotrema carolinense</i>	Blunt Wedge	G3G4	S4S5			No	4	Terrestrial						
1	Snail	<i>Zonitoides patuloides</i>	Appalachian Gloss	G3	S2?			No	10	Terrestrial						
2	Insect	<i>Amblyscirtes reversa</i>	Reversed Roadside Skipper	G3G4	S7			No	10	Terrestrial						
2	Insect	<i>Autochton cellus</i>	Golden-banded Skipper	G4	S2S4			No	10	Terrestrial						
2	Insect	<i>Catocala preliosa</i>	Precious Underwing Moth	G4	SR			No	4	Terrestrial						
2	Insect	<i>Celastrina neglectamajor</i>	Appalachian Azure	G4	S4			No	4	Terrestrial						
2	Insect	<i>Celastrina nigra</i>	Dusky Azure	G4	S2S4			No	4	Terrestrial						
2	Insect	<i>Chlosyne gorgone</i>	Gorgone Checkerspot	G5	S7			No	10	Terrestrial						
2	Insect	<i>Dryobius sexnotatus</i>	Six-banded Longhorn Beetle	GNR	SP			No	4	Terrestrial						
2	Insect	<i>Erora laeta</i>	Early Hairstreak	G3G4	S2S4			No	4	Terrestrial						
2	Insect	<i>Euchloe olympia</i>	Olympia Marble	G4G5	S2?			No	4	Terrestrial						
2	Insect	<i>Hesperia leonardus</i>	Leonard's Skipper	G4	S3?	(PS)		No	4	Terrestrial						
2	Insect	<i>Hesperia metea</i>	Cobweb Skipper	G4G5	S4S5			No	10	Terrestrial						
2	Insect	<i>Hesperia sassacus</i>	Indian Skipper	G5	S1?			No	4	Terrestrial						
2	Insect	<i>Luperina trigona</i>	(a noctuid moth)	GU	SR			No	4	Terrestrial						
2	Insect	<i>Lycaena hylus</i>	Bronze Copper	G5	S3			No	4	Terrestrial						
2	Insect	<i>Lyrosia permagnaria</i>	(a geometrid moth)	G3G4	SR			No	4	Terrestrial						
2	Insect	<i>Megathymus colaqui</i>	Colaqui Giant Skipper	G3G4	SR			No	4	Terrestrial						
2	Insect	<i>Phycodes batesii</i>	Tawny Crescent	G4	S1S2?			No	4	Terrestrial						
2	Insect	<i>Poanes viator</i>	Broad-winged Skipper	G5	S7			No	10	Terrestrial						
2	Insect	<i>Polygona faunus smythi</i>	Smyth's Green Comma or Smyth's Angleming	G5T3T4	S3S4			No	4	Terrestrial						
2	Insect	<i>Polygona progne</i>	Gray Comma	G5	S4			No	4	Terrestrial						
2	Insect	<i>Pterourus appalachiensis</i>	Appalachian Tiger Swallowtail	G7	S7			No	6	Terrestrial						
2	Insect	<i>Satyrum caryaevorus</i>	Hickory Hairstreak	G4	S7			No	10	Terrestrial						
2	Insect	<i>Satyrum kingi</i>	King's Hairstreak	G3G4	S7			No	10	Terrestrial						
2	Insect	<i>Speyeria aphrodite</i>	Aphrodite Fritillary	G5	S3S4			No	4	Terrestrial						
2	Insect	<i>Trechus apicalis</i>	(a carabid beetle)	GNR	S2?			No	10	Terrestrial						
2	Insect	<i>Trechus bowlingi</i>	(a carabid beetle)	GNR	S2S3			No	10	Terrestrial						
2	Insect	<i>Trechus caliginis</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						

TERRESTRIAL FAUNA CONSIDERED BUT NOT SELECTED AS GCN SPECIES																
Target Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	WU Region	CU Region	NB Region	CR Region	R&V Region	SBR Region
2	Insect	<i>Trechus haae</i>	(a carabid beetle)	GNR	S2			No	10	Terrestrial						
2	Insect	<i>Trechus hydropicus beutenmuelleri</i>	(a carabid beetle)	GNR	S2S3			No	10	Terrestrial						
2	Insect	<i>Trechus inexpectatus</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						
2	Insect	<i>Trechus luculentus luculentus</i>	(a carabid beetle)	GHTH	S3			No	10	Terrestrial						
2	Insect	<i>Trechus luculentus unicoi</i>	(a carabid beetle)	GHTH	S3			No	10	Terrestrial						
2	Insect	<i>Trechus nebulosus</i>	(a carabid beetle)	GNR	S3			No	10	Terrestrial						
2	Insect	<i>Trechus novaculosus</i>	(a carabid beetle)	GH	S2			No	10	Terrestrial						
2	Insect	<i>Trechus roanicus</i>	(a carabid beetle)	GH	S1			No	10	Terrestrial						
2	Insect	<i>Trechus stupkai</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						
2	Insect	<i>Trechus talequah</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						
2	Insect	<i>Trechus tonitru</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						
2	Insect	<i>Trechus unclifer</i>	(a carabid beetle)	GNR	S2			No	10	Terrestrial						
2	Insect	<i>Trechus valentinei</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						
2	Insect	<i>Trechus vandykei</i>	(a carabid beetle)	GNR	S3?			No	10	Terrestrial						
2	Insect	<i>Trechus verus</i>	(a carabid beetle)	GNR	S1			No	10	Terrestrial						

AQUATIC FAUNA SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
1	Amphibian	<i>Cryptobranchus alleganiensis</i>	Hellbender	G3G4	S3		D	Yes	1	Aquatic			Widespread		Widespread
1	Amphibian	<i>Desmognathus welleri</i>	Black Mountain Salamander	G4	S3		D	Yes	1	Aquatic			Limited		Limited
1	Amphibian	<i>Eurycea junaluska</i>	Junaluska Salamander	G3	S2		D	Yes	1	Aquatic					Endemic
1	Fish	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3	S1		E	Yes	1	Aquatic			Widespread		Widespread
1	Fish	<i>Ammocrypta beani</i>	Naked Sand Darter	G5	S2		D	Yes	1	Aquatic	Limited				
1	Fish	<i>Ammocrypta clara</i>	Western Sand Darter	G3	S1		T	Yes	1	Aquatic					Peripheral
1	Fish	<i>Ammocrypta vivax</i>	Scaly Sand Darter	G5	S2		D	Yes	1	Aquatic	Limited				
1	Fish	<i>Carpiodes velifer</i>	Highfin Carpsucker	G4G5	S2S3		D	Yes	1	Aquatic			Widespread		Widespread
1	Fish	<i>Clinostomus funduloides ssp. 1</i>	Smoky Dace	G5T3Q	S1S2		D	Yes	1	Aquatic					Endemic
1	Fish	<i>Crystallaria asprella</i>	Crystal Darter	G3	SX		D	Yes	1	Aquatic			Widespread		
1	Fish	<i>CyCLEptus elongatus</i>	Blue sucker	G3G4	S2		T	Yes	1	Aquatic	Widespread		Widespread		Widespread
3	Fish	<i>Cyprinella caerulea</i>	Blue Shiner	G2	S1	LT	E	Yes	1	Aquatic				Endemic	
3	Fish	<i>Cyprinella monacha</i>	Spottfin Chub	G2	S2	LT	T	Yes	1	Aquatic					Endemic
1	Fish	<i>Erycymba buccata</i>	Silverjaw Minnow	G5	S1		T	Yes	1	Aquatic			Peripheral		
3	Fish	<i>Erimystax cahni</i>	Slender Chub	G1	S1	LT	T	Yes	1	Aquatic					Endemic
1	Fish	<i>Erimystax dissimilis</i>	Streamline Chub	G4	S3S4			Yes	2	Aquatic			Widespread		Widespread
1	Fish	<i>Erimystax insignis</i>	Blotched Chub	G3G4	S3S4			Yes	2	Aquatic			Limited		Limited
1	Fish	<i>Etheostoma acuticeps</i>	Sharphead Darter	G3	S2S3			Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma aquali</i>	Coppercheek Darter	G2G3	S2S3		T	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma baileyi</i>	Emerald Darter	G4G5	S2		D	Yes	1	Aquatic			Limited		
1	Fish	<i>Etheostoma barbouri</i>	Teardrop Darter	G4G5	S2		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma barrenense</i>	Splendid Darter	G4	S3		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma bellum</i>	Orangefin Darter	G4G5	S3		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma blennioides gusselsi</i>	Tuckasegee Darter	G5T4	S1		E	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma blennioides sequatchiese</i>	Sequatchie Blenny Darter	G4T3	S3			Yes	1	Aquatic					Endemic
3	Fish	<i>Etheostoma boschungii</i>	Slackwater Darter	G1	S1	LT	T	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma brevirostrum</i>	Holiday or Elijah Darter	G2	S1		T	Yes	1	Aquatic				Endemic	
1	Fish	<i>Etheostoma cervus</i>	Chickasaw Darter	G2G3	S2S3			Yes	1	Aquatic	Endemic				
1	Fish	<i>Etheostoma cinereum</i>	Ashy Darter	G2G3	S2S3		T	Yes	1	Aquatic			Limited		Limited
1	Fish	<i>Etheostoma corona</i>	Crown Darter	G3G4	S1S2		E	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma denoncourtii</i>	Golden Darter	G2	S2			Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma ditrema</i>	Coldwater Darter	G1G2	S1		T	Yes	1	Aquatic				Endemic	
3	Fish	<i>Etheostoma doration sp.</i>	Bluemask Darter or Jewel Darter	G1	S1	LE	E	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma forbesi</i>	Barrens Darter	G1G2	S1		E	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma maculatum</i>	Spotted Darter	G2	SP			Yes	2	Aquatic		Endemic			
1	Fish	<i>Etheostoma microlepidum</i>	Finescale Darter	G2G3	S2		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma neopterus</i>	Lollypop Darter	G3	S1S2			Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma olivaceum</i>	Sooty Darter or Dirty Darter	G3	S3		D	Yes	1	Aquatic			Endemic		
3	Fish	<i>Etheostoma percunum</i>	Duskylail Darter	G1	S1	LE	E	Yes	1	Aquatic			Limited		Limited
1	Fish	<i>Etheostoma pseudovolatum</i>	Egg-mimic Darter	G1	S1		E	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma pyrrhogaster</i>	Firebelly Darter	G2	S2		D	Yes	1	Aquatic	Endemic				
1	Fish	<i>Etheostoma rupestre</i>	Rock Darter	G4	S3			Yes	2	Aquatic			Limited		
1	Fish	<i>Etheostoma sagitta</i>	Arrow Darter	G3G4	S2		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma striatulum</i>	Striated Darter	G1	S1		T	Yes	1	Aquatic					Endemic
1	Fish	<i>Etheostoma susanae</i>	Cumberland Johnny Darter	G2	S1	C	E	Yes	1	Aquatic			Endemic		
1	Fish	<i>Etheostoma lippecanoae</i>	Tippecanoe Darter	G3	S1S2		D	Yes	1	Aquatic			Widespread		Widespread
1	Fish	<i>Etheostoma trisella</i>	Trisplot Darter	G1	S2		T	Yes	1	Aquatic				Endemic	
1	Fish	<i>Etheostoma vulneratum</i>	Wounded Darter	G3	S2			Yes	1	Aquatic					Endemic
3	Fish	<i>Etheostoma wapiti</i>	Boulder Darter	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Fish	<i>Fundulus chrysotus</i>	Golden Topminnow	G5	S1S2		D	Yes	1	Aquatic	Peripheral				
1	Fish	<i>Fundulus julisia</i>	Barrens Topminnow	G1	S1		E	Yes	1	Aquatic			Limited		Limited
1	Fish	<i>Hemimtréma flammea</i>	Flame Chub	G3	S3		D	Yes	1	Aquatic			Limited		Limited
1	Fish	<i>Hybopsis lineapunctata</i>	Lined Chub	G3	S1		D	Yes	1	Aquatic			Endemic		
1	Fish	<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey	G5	S1		D	Yes	1	Aquatic				Peripheral	
1	Fish	<i>Lepisosteus spatula</i>	Alligator Gar	G3G4	S1		D	Yes	1	Aquatic	Widespread				
1	Fish	<i>Macrhybopsis gelida</i>	Sturgeon Chub	G2	S1	C	D	Yes	1	Aquatic	Peripheral				
1	Fish	<i>Macrhybopsis meeki</i>	Sicklefin Chub	G3	S2	C	D	Yes	1	Aquatic	Peripheral				
3	Fish	<i>Notropis albizonatus</i>	Palezone Shiner (S. Fk. Cumberland Dr.)	G2	SH	LE	E	Yes	1	Aquatic			Limited		
1	Fish	<i>Notropis asperifrons</i>	Burrhead Shiner	G4	S2			Yes	2	Aquatic			Endemic		
1	Fish	<i>Notropis chrosomus</i>	Rainbow Shiner	G4	S3			Yes	2	Aquatic				Endemic	
1	Fish	<i>Notropis rubellus rubellus</i>	Rosyface Shiner or Roseface Shiner	G5TNR	S2		D	Yes	1	Aquatic			Widespread		Widespread
1	Fish	<i>Notropis rupestris</i>	Bedrock Shiner	G2	S2		D	Yes	1	Aquatic			Endemic		
3	Fish	<i>Noturus baileyi</i>	Smoky Madtom	G1	S1	LE	E	Yes	1	Aquatic					Endemic
3	Fish	<i>Noturus flavipinnis</i>	Yellowfin Madtom	G1	S1	(LT, XN)	E	Yes	1	Aquatic					Endemic
1	Fish	<i>Noturus munitus</i>	Frecklebelly Madtom	G3	S1		T	Yes	1	Aquatic			Limited		
1	Fish	<i>Noturus sp. 3</i>	Saddled Madtom	G2Q	S2		T	Yes	1	Aquatic					Endemic
1	Fish	<i>Noturus sp. 4</i>	Chucky Madtom	G1	S1	C	E	Yes	1	Aquatic					Endemic
3	Fish	<i>Noturus stanauli</i>	Pygmy Madtom	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Fish	<i>Noturus stigmosus</i>	Northern Madtom	G3	S3		D	Yes	1	Aquatic	Widespread				
3	Fish	<i>Percina antesella</i>	Amber Darter	G1G2	S1	LE	E	Yes	1	Aquatic			Endemic		
1	Fish	<i>Percina aurantiaca</i>	Tangerine Darter	G4	S3		D	Yes	1	Aquatic					Endemic
1	Fish	<i>Percina burtoni</i>	Blotchside Logperch	G2	S2		D	Yes	1	Aquatic			Limited		Limited
3	Fish	<i>Percina jenkinsi</i>	Conasauga Logperch or Reticulate Logperch	G1	S1	LE	E	Yes	1	Aquatic				Endemic	
1	Fish	<i>Percina macrocephala</i>	Longhead Darter	G3	S2		T	Yes	1	Aquatic	Widespread				Widespread
1	Fish	<i>Percina phoxocephala</i>	Slenderhead Darter	G5	S3		D	Yes	1	Aquatic			Widespread		Widespread
1	Fish	<i>Percina sp. 3</i>	Muscadine Darter	G2Q	S1			Yes	1	Aquatic				Endemic	
1	Fish	<i>Percina sp. 9</i>	Upland Bridled Darter	G1Q	S1			Yes	1	Aquatic				Endemic	
1	Fish	<i>Percina squamata</i>	Olive Darter	G3	S2		D	Yes	1	Aquatic			Limited		Limited
1	Fish	<i>Percina siltogaster</i>	Frecklebelly Darter	G4G5	S1		D	Yes	1	Aquatic		Limited			

AQUATIC FAUNA SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
3	Fish	<i>Percina tanasi</i>	Snail Darter	G2G3	S2S3	LT	T	Yes	1	Aquatic					Endemic
1	Fish	<i>Phenacobius catostomus</i>	Rifle Minnow	G4	S2			Yes	2	Aquatic				Endemic	
3	Fish	<i>Phoxinus cumberlandensis</i>	Mountain Blackside Dace	G2	S2	LT	T	Yes	1	Aquatic				Endemic	
1	Fish	<i>Phoxinus saylori</i>	Laurel Dace	G1	S1		E	Yes	1	Aquatic					Endemic
1	Fish	<i>Phoxinus tennesseensis</i>	Tennessee Dace	G3	S3		D	Yes	1	Aquatic					Endemic
1	Fish	<i>Polyodon spathula</i>	Paddlefish	G4	S3			Yes	1	Aquatic	Widespread		Widespread		Widespread
3	Fish	<i>Scaphirhynchus albus</i>	Pallid Sturgeon	G1G2	S1	LE	E	Yes	1	Aquatic	Widespread				
1	Fish	<i>Thoburnia atripinnis</i>	Blackfin Sucker	G2	S1		D	Yes	1	Aquatic		Endemic			
1	Reptile	<i>Apalone mutica</i>	Smooth Softshell Turtle	G5	S4			Yes	2	Aquatic	Widespread				Widespread
1	Reptile	<i>Apalone spinifer</i>	Spiny Softshell Turtle	G5	S5			Yes	2	Aquatic	Widespread		Widespread		Widespread
1	Reptile	<i>Macročelys temminckii</i>	Alligator Snapping Turtle	G3G4	S2S3		D	Yes	1	Aquatic	Widespread		Widespread		Widespread
1	Mussel	<i>Actinonaias pectorosa</i>	Pheasantshell	G4	S4			Yes	2	Aquatic					Endemic
3	Mussel	<i>Alasmidonta atropurpurea</i>	Cumberland Elktoe	G1G2	S1S2	LE	E	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Alasmidonta marginata</i>	Elktoe	G4	S4			Yes	1	Aquatic				Widespread	
3	Mussel	<i>Alasmidonta raveneliana</i>	Appalachian Elktoe	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Mussel	<i>Alasmidonta viridis</i>	Slippershell Mussel	G4G5	S3S4			Yes	2	Aquatic				Widespread	Widespread
1	Mussel	<i>Cumberlandia monodonta</i>	Spectaclecase	G2G3	S2S3			Yes	1	Aquatic				Widespread	Widespread
3	Mussel	<i>Cyprogenia stegaria</i>	Eastern Fanshell Pearlymussel	G1	S1	LE	E	Yes	1	Aquatic				Widespread	Widespread
3	Mussel	<i>Dromus dromas</i>	Dromedary Pearlymussel	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
1	Mussel	<i>Elliptio arca</i>	Alabama Spike	G3Q	S2			Yes	1	Aquatic					Peripheral
1	Mussel	<i>Elliptio arcata</i>	Delicate Spike	G3G4	S2			Yes	2	Aquatic					Peripheral
3	Mussel	<i>Epioblasma brevidens</i>	Cumberlandian Combshell	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Epioblasma capsaeformis</i>	Oyster Mussel	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Epioblasma florentina walkeri</i>	Tan Riffleshell	G1T1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Epioblasma obliquata obliquata</i>	Catspaw or Purple Cat's Paw Pearly Mussel	G1T1	S1	LE	E	Yes	1	Aquatic				Widespread	
3	Mussel	<i>Epioblasma othcaloogensis</i>	Southern Acornshell	GHQ	SH	LE	E	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Epioblasma triquetra</i>	Snuffbox	G3	S3			Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Fusconaia barnesiiana</i>	Tennessee Pigtoe	G2G3	S2S3			Yes	1	Aquatic					Endemic
3	Mussel	<i>Fusconaia cuneolus</i>	Fine-rayed Pigtoe	G1	S1	LE	E	Yes	1	Aquatic					Endemic
3	Mussel	<i>Fusconaia edgariana</i>	Shiny Pigtoe	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Mussel	<i>Fusconaia subrotunda</i>	Longsolid	G3	S3			Yes	1	Aquatic				Widespread	Widespread
3	Mussel	<i>Hemistena lata</i>	Cracking Pearlymussel	G1	S1	LE	E	Yes	1	Aquatic				Widespread	Widespread
3	Mussel	<i>Lampsilis abrupta</i>	Pink Mucket	G2	S2	LE	E	Yes	1	Aquatic	Widespread			Widespread	Widespread
3	Mussel	<i>Lampsilis allis</i>	Fine-lined Pocketbook	G2	S1S2	LT	T	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Lampsilis straminea claibornensis</i>	Southern Falmucket	G5T5	SH			Yes	2	Aquatic				Limited	
3	Mussel	<i>Lampsilis virescens</i>	Alabama Lampmussel	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Mussel	<i>Lasmigona complanata complanata</i>	White Heelsplitter	G5T5	S?			Yes	2	Aquatic	Widespread			Widespread	Widespread
1	Mussel	<i>Lasmigona holstonia</i>	Tennessee Heelsplitter	G3	S2			Yes	1	Aquatic				Limited	Limited
1	Mussel	<i>Lasmigona subviridis</i>	Green Floater	G3	S2			Yes	1	Aquatic					Peripheral
3	Mussel	<i>Lemiox rimosus</i>	Birdwing Pearly Mussel	G1	S1	LE	E	Yes	1	Aquatic					Endemic
3	Mussel	<i>Leptodea leptodon</i>	Scaleshell	G1	SX	LE		Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Lexingtonia dotabelloides</i>	Slabside Pearlymussel	G2	S2	C		Yes	1	Aquatic					Endemic
1	Mussel	<i>Ligumia recta</i>	Black Sandshell	G5	S5			Yes	2	Aquatic				Widespread	Widespread
3	Mussel	<i>Medionidius acutissimus</i>	Alabama Moccasinshell	G1	S1	LT	T	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Medionidius conradicus</i>	Cumberland Moccasinshell	G3G4	S3			Yes	2	Aquatic				Limited	Limited
3	Mussel	<i>Medionidius parvulus</i>	Cosa Moccasinshell	G1	S1	LE	E	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Obovaria jacksoniana</i>	Southern Hickorynut	G1G2	S1			Yes	1	Aquatic	Disjunct				
1	Mussel	<i>Obovaria olivaria</i>	Hickorynut	G4	S?			Yes	2	Aquatic	Widespread			Widespread	Widespread
3	Mussel	<i>Obovaria retusa</i>	Ring Pink	G1	S1	LE	E	Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Obovaria subrotunda</i>	Round Hickorynut	G4	S2S3			Yes	2	Aquatic				Widespread	Widespread
3	Mussel	<i>Pegias fabula</i>	Little-wing Pearlymussel	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Plethobasus caticricosus</i>	White Wartyback	G1	S1	LE	E	Yes	1	Aquatic					Widespread
3	Mussel	<i>Plethobasus cooperianus</i>	Orange-foot Pimpleback	G1	S1	LE	E	Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Plethobasus cyphus</i>	Sheepnose	G3	S2S3			Yes	1	Aquatic	Widespread			Widespread	Widespread
3	Mussel	<i>Pleurobema clava</i>	Clubshell	G2	SH	LE	E	Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Pleurobema cocconeum</i>	Round Pigtoe	G4	S4			Yes	2	Aquatic				Widespread	Widespread
1	Mussel	<i>Pleurobema cordatum</i>	Ohio Pigtoe	G3	S3			Yes	1	Aquatic	Widespread			Widespread	Widespread
3	Mussel	<i>Pleurobema decisum</i>	Southern Clubshell	G1G2	S1	LE	E	Yes	1	Aquatic				Endemic	
3	Mussel	<i>Pleurobema georgianum</i>	Southern Pigtoe	G1	S1	LE	E	Yes	1	Aquatic				Endemic	
3	Mussel	<i>Pleurobema gibberum</i>	Cumberland Pigtoe	G1	S1	LE	E	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Pleurobema hanleyianum</i>	Georgia Pigtoe	G1	S1	C		Yes	1	Aquatic				Endemic	
1	Mussel	<i>Pleurobema johannis</i>	Alabama Pigtoe	GH	S1?			Yes	2	Aquatic				Endemic	
1	Mussel	<i>Pleurobema oviforme</i>	Tennessee Clubshell	G3	S2S3			Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Pleurobema perovatum</i>	Ovate Clubshell	G1	SH	LE	E	Yes	1	Aquatic				Endemic	
3	Mussel	<i>Pleurobema plenum</i>	Rough Pigtoe	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
1	Mussel	<i>Pleurobema rubellum</i>	Warrior Pigtoe	GH	SH			Yes	2	Aquatic				Endemic	
1	Mussel	<i>Pleurobema rubrum</i>	Pyramid Pigtoe	G2	S1S2			Yes	1	Aquatic				Widespread	Widespread
1	Mussel	<i>Pleurobema troschelianum</i>	Alabama Clubshell	G1	S1	C		Yes	1	Aquatic				Endemic	
3	Mussel	<i>Ptychobranhus greeni</i>	Triangular Kidneyshell	G1	S1	LE	E	Yes	1	Aquatic				Endemic	
1	Mussel	<i>Ptychobranhus subnitentum</i>	Fluted Kidneyshell	G2G3	S2S3	C		Yes	1	Aquatic				Limited	Limited
1	Mussel	<i>Quadrula cylindrica cylindrica</i>	Rabbitfoot	G3T3	S3			Yes	1	Aquatic				Widespread	Widespread
3	Mussel	<i>Quadrula cylindrica strigillata</i>	Rough Rabbitfoot Pearlymussel	G3T2	S2	LE	E	Yes	1	Aquatic					Endemic
3	Mussel	<i>Quadrula fragosa</i>	Winged Mapleleaf	G1	S1	LE	E	Yes	1	Aquatic				Limited	Limited
3	Mussel	<i>Quadrula intermedia</i>	Cumberland Monkeyface	G1	S1	LE	E	Yes	1	Aquatic					Endemic
3	Mussel	<i>Quadrula sparsa</i>	Appalachian Monkeyface	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Mussel	<i>Strophitus connasaugaensis</i>	Alabama Creekmussel	G3	S1			Yes	1	Aquatic				Endemic	
1	Mussel	<i>Strophitus undulatus</i>	Squawfoot or Creeper	G5	S5			Yes	2	Aquatic	Widespread				
3	Mussel	<i>Toxolasma cylindrellus</i>	Pale Lillput	G1	S1	LE	E	Yes	1	Aquatic					Limited
1	Mussel	<i>Toxolasma lividus</i>	Purple Lillput	G2	S1S2			Yes	1	Aquatic				Widespread	Widespread

AQUATIC FAUNA SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
1	Mussel	<i>Unio declivis</i>	Tapered Pondhorn	G5	S1?			Yes	2	Aquatic	Peripheral				
1	Mussel	<i>Villosa fabalis</i>	Rayed Bean	G1G2	S1			Yes	1	Aquatic					Widespread
1	Mussel	<i>Villosa lienosa</i>	Little Spectaclecase	G5	S4S5			Yes	2	Aquatic	Widespread				
1	Mussel	<i>Villosa nebulosa</i>	Alabama Rainbow	G3	S2			Yes	1	Aquatic				Endemic	
3	Mussel	<i>Villosa perpurpurea</i>	Purple Bean	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Mussel	<i>Villosa taeniata</i>	Painted Creekshell	G3G4	S3S4			Yes	2	Aquatic			Limited		Limited
3	Mussel	<i>Villosa trabalis</i>	Cumberland Bean	G1	S1	LE	E	Yes	1	Aquatic			Limited		Limited
1	Mussel	<i>Villosa vanuxemensis umbrans</i>	Coosa Creekshell	G4T2	S2			Yes	1	Aquatic				Endemic	
1	Mussel	<i>Villosa vibex</i>	Southern Rainbow	G4Q	S2			Yes	2	Aquatic	Disjunct			Widespread	
1	Crustacean	<i>Barbicambarus cornutus</i>	Bottlebrush Crayfish	G3G4	S2			Yes	2	Aquatic		Endemic			
1	Crustacean	<i>Cambarus angularis</i>	Angled Crayfish	G3	S3?			Yes	1	Aquatic					Endemic
1	Crustacean	<i>Cambarus bouchardi</i>	Big South Fork Crayfish	G2G3	S1		E	Yes	1	Aquatic			Endemic		
1	Crustacean	<i>Cambarus brachydactylus</i>	Shortfingered Crayfish	G4	S2			Yes	2	Aquatic			Endemic		
1	Crustacean	<i>Cambarus conasaugaensis</i>	(a crayfish)	G3	S2S3			Yes	1	Aquatic					Limited
1	Crustacean	<i>Cambarus crinipes</i>	Bouchard's Crayfish or Hairylegged Crayfish	G4	S3			Yes	2	Aquatic			Limited		Limited
1	Crustacean	<i>Cambarus cymatilis</i>	Conasauga Blue Burrower Crayfish	G1	S1		E	Yes	1	Aquatic				Endemic	
1	Crustacean	<i>Cambarus deweeseae</i>	Valley Flame Crayfish	G4	S1		E	Yes	2	Aquatic					Endemic
1	Crustacean	<i>Cambarus extraneus</i>	Chickamauga Crayfish	G2	S1S2		T	Yes	1	Aquatic					Endemic
1	Crustacean	<i>Cambarus hiwasseensis</i>	(a crayfish)	G3G4	S1			Yes	2	Aquatic					Endemic
1	Crustacean	<i>Cambarus manningi</i>	(a crayfish)	G4	S3			Yes	2	Aquatic				Endemic	
1	Crustacean	<i>Cambarus obeyensis</i>	Obey River Crayfish	G2	S2		T	Yes	1	Aquatic			Endemic		
1	Crustacean	<i>Cambarus pristinus</i>	Caney Fork Crayfish	G1	S1		E	Yes	1	Aquatic			Limited		Limited
1	Crustacean	<i>Cambarus sp. 1</i>	Emory River Crayfish	G1?	S1?			Yes	1	Aquatic					Endemic
1	Crustacean	<i>Cambarus williami</i>	Stones River Crayfish	G1	S1		E	Yes	1	Aquatic			Endemic		
1	Crustacean	<i>Fallicambarus hortonii</i>	Hatchie Burrowing Crayfish	G1	S1		E	Yes	1	Aquatic	Endemic				
1	Crustacean	<i>Orconectes alabamensis</i>	Stalene Crayfish	G5	S2		D	Yes	1	Aquatic					Endemic
1	Crustacean	<i>Orconectes barrenensis</i>	(a crayfish)	G4	S3			Yes	2	Aquatic		Endemic			
1	Crustacean	<i>Orconectes burri</i>	Blood River Crayfish	G2G3	S2S3			Yes	1	Aquatic					Endemic
1	Crustacean	<i>Orconectes cooperi</i>	Flintbriar Crayfish	G1	S1			Yes	1	Aquatic					Endemic
1	Crustacean	<i>Orconectes forceps</i>	Surgeon Crayfish	G4	S4			Yes	2	Aquatic					Endemic
1	Crustacean	<i>Orconectes pagei</i>	Big Sandy Crayfish	G4	S4			Yes	2	Aquatic					Endemic
3	Crustacean	<i>Orconectes shoupi</i>	Nashville Crayfish	G1	S1	LE	E	Yes	1	Aquatic			Endemic		
1	Crustacean	<i>Orconectes wrightii</i>	Hardin County Crayfish	G1	S1		E	Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia acuta</i>	Acute Elimia	G1	S1			Yes	1	Aquatic				Endemic	
1	Snail	<i>Elimia arachnoidea</i>	Spider Elimia	G3	S2			Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia aterina</i>	Coal Elimia	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia interrupta</i>	Knotty Elimia	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia porrecta</i>	Nymph Elimia	G1G2	SU			Yes	1	Aquatic			Limited		Limited
1	Snail	<i>Elimia striatula</i>	File Elimia	G2	S2			Yes	1	Aquatic				Limited	Limited
1	Snail	<i>Elimia strigosa</i>	Brook Elimia	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia teres</i>	Elegant Elimia	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Elimia troostiana</i>	Mossy Elimia	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Io fluviatilis</i>	Spiny RIVERSNAIL	G2	S2			Yes	1	Aquatic					Endemic
1	Snail	<i>Leptoxis crassa</i>	Boulder Snail	G1	SH	(PS)		Yes	1	Aquatic					Endemic
3	Snail	<i>Leptoxis crassa anthonyi</i>	Anthony's River Snail	G1T1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Snail	<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail	G1	S1			Yes	1	Aquatic			Limited		Limited
1	Snail	<i>Leptoxis virgata</i>	Smooth Mudalia	G2	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Lithasia armigera</i>	Armored Rocksnail	G3G4	S1S2			Yes	1	Aquatic			Widespread		
1	Snail	<i>Lithasia duttoniana</i>	Helmet Rocksnail	G2	S2			Yes	1	Aquatic					Limited
1	Snail	<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail	G3G4T3	S3			Yes	2	Aquatic			Limited		Limited
1	Snail	<i>Lithasia geniculata pinguis</i>	Small Geniculate River Snail	G3G4T3	S3			Yes	2	Aquatic			Endemic		
1	Snail	<i>Lithasia jayana</i>	Rugose Rocksnail	G2	S2			Yes	1	Aquatic			Endemic		
1	Snail	<i>Lithasia lima</i>	Warty Rocksnail	G2	S2			Yes	1	Aquatic					Endemic
1	Snail	<i>Lithasia salebrosa</i>	Muddy Rocksnail or Rustic Rocksnail	G3G4	S2			Yes	1	Aquatic			Limited		Limited
3	Snail	<i>Marstonia ogmorhaphae</i>	Royal Springsnail	G1	S1	LE	E	Yes	1	Aquatic					Endemic
1	Snail	<i>Pleurocera corpulenta</i>	Corpulent Hornsnail	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Pleurocera curta</i>	Shortspire Hornsnail	G2	S2			Yes	1	Aquatic					Limited
1	Snail	<i>Pleurocera trochiformis</i>	Sulcate Hornsnail	G2	S2			Yes	1	Aquatic					Endemic
1	Snail	<i>Pleurocera walkeri</i>	Telescope Hornsnail	G1	S1			Yes	1	Aquatic			Limited		Limited
1	Snail	<i>Somatogyrus aureus</i>	Golden Pebblesnail	GH	S1?			Yes	1	Aquatic					Endemic
1	Snail	<i>Somatogyrus parvulus</i>	Sparrow Pebblesnail	G1G2Q	SR			Yes	1	Aquatic					Endemic
1	Snail	<i>Somatogyrus sp. 2</i>	Hiwassee Pebblesnail	G1	S1			Yes	1	Aquatic					Endemic
1	Snail	<i>Somatogyrus lenneensis</i>	Opaque Pebblesnail	G1	S1			Yes	1	Aquatic					Endemic
2	Insect	<i>Agarodes stannardi</i>	Stannard's Agarodes Caddisfly	GNR	SP			Yes	2	Aquatic					Endemic
2	Insect	<i>Allocapnia brooksi</i>	Sevier Snowfly	G2	S2			Yes	1	Aquatic					Endemic
2	Insect	<i>Allocapnia cunninghami</i>	Karst Snowfly	G1	S1			Yes	1	Aquatic		Endemic			
2	Insect	<i>Allocapnia fumosa</i>	Smokies Snowfly	G2	S3?			Yes	1	Aquatic					Endemic
2	Insect	<i>Allocapnia perplexa</i>	Perplexing Snowfly	G1	S1			Yes	1	Aquatic			Endemic		
2	Insect	<i>Amphinemura mockfordi</i>	Tennessee Forestfly	G2	S2?			Yes	1	Aquatic			Limited		Limited
2	Insect	<i>Ceratopsyche elnieri</i>	Buffalo Springs Caddisfly	G1G3	S1S3			Yes	1	Aquatic					Endemic
2	Insect	<i>Cheumatopsyche helma</i>	Helma's Net-spinning Caddisfly	G1G3	S1S3			Yes	1	Aquatic					Limited
2	Insect	<i>Glyphopsyche sequatchie</i>	Sequatchie Caddisfly	G1	S1	C		Yes	1	Aquatic					Endemic
2	Insect	<i>Gomphus consanguis</i>	Cherokee Clubtail Dragonfly	G2G3	S1			Yes	1	Aquatic			Limited		Limited
2	Insect	<i>Gomphus sandrius</i>	Tennessee Clubtail Dragonfly	G1	S1			Yes	1	Aquatic					Endemic
2	Insect	<i>Gomphus septima</i>	Septima's Clubtail	G2	SR			Yes	1	Aquatic					Widespread
2	Insect	<i>Habrophlebiodes celestia</i>	(a mayfly)	G2	S2			Yes	1	Aquatic					Endemic
2	Insect	<i>Hydroperla nickeri</i>	Tennessee Springfly	G2	S2?			Yes	1	Aquatic			Endemic		
2	Insect	<i>Macromia margarita</i>	Mountain River Cruiser	G3	S2S3			Yes	1	Aquatic					Limited
2	Insect	<i>Megaleuctra williamsae</i>	Williams' Rare Winter Stonefly	G2	S1S2			Yes	1	Aquatic					Endemic

AQUATIC FAUNA SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
2	Insect	<i>Oconoperla innubila</i>	(a stonefly)	G2	S2?			Yes	1	Aquatic					Endemic
2	Insect	<i>Ophiogomphus acuminatus</i>	Tennessee Snaketail or Acuminate Snaketail	G3	S2			Yes	1	Aquatic			Limited		Limited
2	Insect	<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail	G3Q	S1			Yes	1	Aquatic			Limited	Limited	Limited
2	Insect	<i>Ophiogomphus edmundo</i>	Edmund's Snaketail	G1G2	S1			Yes	1	Aquatic				Limited	
2	Insect	<i>Ophiogomphus howei</i>	Howe's Dragonfly	G3	S3?			Yes	1	Aquatic	Widespread				
2	Insect	<i>Paraleptophlebia kirchneri</i>	(a mayfly)	G1	S1			Yes	1	Aquatic			Limited		
2	Insect	<i>Perlesta etnieri</i>	(a stonefly)	G1	SNR			Yes	1	Aquatic			Limited		Limited
2	Insect	<i>Plauditus grandis</i>	(a mayfly)	G1	S1			Yes	1	Aquatic			Endemic		
2	Insect	<i>Stenonema sinclairi</i>	(a mayfly)	G2	S2			Yes	1	Aquatic					Limited
2	Insect	<i>Zapada chila</i>	(a stonefly)	G2	S2?			Yes	1	Aquatic					Endemic

AQUATIC FAUNA CONSIDERED BUT NOT SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
1	Amphibian	<i>Siren intermedia</i>	Lesser Siren	G5	S5			No	4	Aquatic					
1	Fish	<i>Alosa alabamiae</i>	Alabama Shad	G3	SH	C	D	No	9	Aquatic					
1	Fish	<i>Anguilla rostrata</i>	American Eel	G5	S3			No	4	Aquatic					
1	Fish	<i>Etheostoma bison</i>	Buffalo Darter	G4	S2S3			No	4	Aquatic					
1	Fish	<i>Etheostoma coosae</i>	Coosa Darter	G4	S3S4			No	4	Aquatic					
1	Fish	<i>Etheostoma elniere</i>	Cherry Darter	G4	S3			No	4	Aquatic					
1	Fish	<i>Etheostoma fusiforme</i>	Swamp Darter	G5	S2S3			No	4	Aquatic					
1	Fish	<i>Etheostoma jordani</i>	Greenbreast Darter	G4	S3S4			No	4	Aquatic					
1	Fish	<i>Etheostoma kantuckeense</i>	Highland Rim Darter	G4	S1			No	4	Aquatic					
1	Fish	<i>Etheostoma luteovinctum</i>	Redband Darter	G4	S4		D	No	4	Aquatic					
1	Fish	<i>Etheostoma microperca</i>	Least Darter	G5	SR			No	4	Aquatic					
1	Fish	<i>Etheostoma obeyense</i>	Barcheek Darter	G4	S3			No	4	Aquatic					
1	Fish	<i>Etheostoma sp. cf. rufilineatum</i>	Redline Darter	G5 (- E. rufilineatum)	S5 (- E. rufilineatum)			No	4	Aquatic					
1	Fish	<i>Etheostoma sp. cf. zonistilum</i>	Blueface Darter	G4G5 (- E. zonistilum)	S4S5 (- E. Zonistilum)			No	4	Aquatic					
1	Fish	<i>Etheostoma squamiceps</i>	Spottail Darter	G4G5	S2S3			No	4	Aquatic					
1	Fish	<i>Etheostoma tuscumbia</i>	Tuscumbia Darter	G2	SX		D	No	5	Aquatic					
1	Fish	<i>Fundulus stellifer</i>	Southern Studfish	G4	S3			No	4	Aquatic					
1	Fish	<i>Hybognathus placitus</i>	Plains Minnow	G4	S1		D	No	5	Aquatic					
1	Fish	<i>Ichthyomyzon unicuspis</i>	Silver Lamprey	G5	S2		D	No	9	Aquatic					
1	Fish	<i>Lagochila lacerata</i>	Harelip Sucker	GX	SX		D	No	7	Aquatic					
1	Fish	<i>Macrhybopsis sp. 1</i>	cf. m. aestivalis	G3G4	S1			No	6	Aquatic					
1	Fish	<i>Notropis ammophilus</i>	Orangefin Shiner	G4G5	S3			No	4	Aquatic					
1	Fish	<i>Notropis dorsalis</i>	Bigmouth Shiner	G5	S1		D	No	5	Aquatic					
1	Fish	<i>Notropis stibilus</i>	Silverstripe Shiner	G4	S3			No	4	Aquatic					
3	Fish	<i>Percina aurolineata</i>	Goldline Darter	G2	S?	LT		No	5	Aquatic					
1	Fish	<i>Percina copelandi</i>	Channel Darter	G4	S2S3			No	4	Aquatic					
1	Fish	<i>Percina kathae</i>	Mobile Logperch	G4	S2S3			No	4	Aquatic					
1	Fish	<i>Percina nigrofasciata</i>	Blackbanded Darter	G5	S3			No	4	Aquatic					
1	Fish	<i>Platygobio gracilis</i>	Flathead Chub	G5	S2S3			No	4	Aquatic					
1	Fish	<i>Salvelinus fontinalis</i>	Brook Trout	G5	S3			No	8	Aquatic					
1	Mussel	<i>Anodontoides denigratus</i>	Cumberland Papershell	G1	SSYN			No	5	Aquatic					
1	Mussel	<i>Cyclonaias tuberculata</i>	Purple Wartyback	G5	S4			No	4	Aquatic					
1	Mussel	<i>Ellipsaria lineolata</i>	Butterfly	G4	S4			No	4	Aquatic					
1	Mussel	<i>Ellipio crassidens</i>	Elephant-ear	G5	S5			No	4	Aquatic					
1	Mussel	<i>Epioblasma arcaeformis</i>	Sugarspoon	GX	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma biemarginata</i>	Angled Riffleshell	GX	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma flexuosa</i>	Leafshell	GX	SX			No	4	Aquatic					
3	Mussel	<i>Epioblasma florentina florentina</i>	Yellow-blossom	G1TX	SX	(LE, XN)	E	No	7	Aquatic					
1	Mussel	<i>Epioblasma haysiana</i>	Acornshell	G1	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma lenior</i>	Narrow Catspaw	GX	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma lewisii</i>	Forkshell	GX	SX			No	4	Aquatic					
3	Mussel	<i>Epioblasma metastrata</i>	Upland Combshell	GH	SH	LE	E	No	9	Aquatic					
1	Mussel	<i>Epioblasma personata</i>	Round Combshell	GX	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma propinqua</i>	Tennessee Riffleshell	GX	SX			No	4	Aquatic					
1	Mussel	<i>Epioblasma stewardsoni</i>	Cumberland Leafshell	GX	SX			No	4	Aquatic					
3	Mussel	<i>Epioblasma torulosa gubernaculum</i>	Green Blossom	G2TX	SX	LE	E	No	7	Aquatic					
3	Mussel	<i>Epioblasma torulosa torulosa</i>	Tubercled Blossom	G2TX	SX	LE	E	No	7	Aquatic					
3	Mussel	<i>Epioblasma turgidula</i>	Turgid Blossom	GH	SX	LE	E	No	7	Aquatic					
1	Mussel	<i>Fusconaia ebena</i>	Ebonysell	G4G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Fusconaia flava</i>	Wabash Pigtoe	G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Lampsilis cardium</i>	Plain Pocketbook	G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S4			No	4	Aquatic					
1	Mussel	<i>Lampsilis ornata</i>	Southern Pocketbook	G5	S2S3			No	4	Aquatic					
1	Mussel	<i>Lampsilis ovata</i>	Pocketbook	G5	S5			No	4	Aquatic					
1	Mussel	<i>Lampsilis siliquoides</i>	Fatmucket	G5	S2			No	4	Aquatic					
1	Mussel	<i>Lampsilis teres</i>	Yellow Sandshell	G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Lasmigona costata</i>	Fluted-shell	G5	S5			No	4	Aquatic					
1	Mussel	<i>Lasmigona sp. 1 cf. holstonia</i>	Barrens Bankclimber	GNR	S1			No	6	Aquatic					
1	Mussel	<i>Ligumia subrostrata</i>	Pondmussel	G4G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Obliguaria reflexa</i>	Threehorn Wartyback	G5	S5			No	4	Aquatic					
1	Mussel	<i>Plectomerus dombeyanus</i>	Bankclimber	G4	S4			No	4	Aquatic					
1	Mussel	<i>Pleurobema chattanoogaense</i>	Painted Clubshell	G1	S1?	C		No	6	Aquatic					
1	Mussel	<i>Potamilus alatus</i>	Pink Heelsplitter	G5	S5			No	4	Aquatic					
1	Mussel	<i>Potamilus purpuratus</i>	Bleufer	G5	S3S4			No	4	Aquatic					
1	Mussel	<i>Ptychobranchus fasciolaris</i>	Kidneysell	G4G5	S4S5			No	4	Aquatic					
1	Mussel	<i>Pyganodon grandis</i>	Giant Floater	G5	S5			No	4	Aquatic					
1	Mussel	<i>Quadrula melanevra</i>	Monkeyface	G4	S4			No	4	Aquatic					
1	Mussel	<i>Quadrula nodulata</i>	Wartyback	G4	S3S4			No	4	Aquatic					
1	Mussel	<i>Quadrula pustulosa</i>	Pimpleback	G5	S5			No	4	Aquatic					
1	Mussel	<i>Quadrula quadrula</i>	Mapleleaf	G5	S5			No	4	Aquatic					
1	Mussel	<i>Simpsonaias ambigua</i>	Salamander Mussel	G3	S1			No	5	Aquatic					
1	Mussel	<i>Toxolasma parvus</i>	Lilliput	G5	S5			No	4	Aquatic					
1	Mussel	<i>Toxolasma texasensis</i>	Texas Lilliput	G4	S3			No	4	Aquatic					
1	Mussel	<i>Tritogonia verrucosa</i>	Pistolgrip	G4	S4			No	4	Aquatic					
1	Mussel	<i>Truncilla donaciformis</i>	Fawnsfoot	G5	S5			No	4	Aquatic					
1	Mussel	<i>Truncilla truncata</i>	Deerfoot	G5	S5			No	4	Aquatic					
1	Mussel	<i>Utterbackia imbecillis</i>	Paper Pondshell	G5	S5			No	4	Aquatic					
1	Mussel	<i>Venustaconcha sima</i>	(a mussel)	G?	S?			No	6	Aquatic					

AQUATIC FAUNA CONSIDERED BUT NOT SELECTED AS GCN SPECIES															
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	MS River	BA River	CU River	CO River	TN River
1	Mussel	<i>Villosa iris</i>	Rainbow	G5	S5			No	4	Aquatic					
1	Mussel	<i>Villosa vanuxemensis</i>	Mountain Creekshell	G4	S4			No	4	Aquatic					
1	Crustacean	<i>Cambarus friaufi</i>	(a crayfish)	G3G4	S3			No	4	Aquatic					
1	Crustacean	<i>Cambarus gentryi</i>	(a crayfish)	G4	S3			No	4	Aquatic					
1	Crustacean	<i>Cambarus sp. A</i>	(a crayfish)	GU	SP			No	4	Aquatic					
1	Crustacean	<i>Cambarus sp. B</i>	(a crayfish)	G?	S?			No	4	Aquatic					
1	Crustacean	<i>Cambarus unestami</i>	Lookout Mountain Crayfish	G2	SP			No	5	Aquatic					
1	Crustacean	<i>Orconectes erichsonianus</i>	(a crayfish)	G5	S5			No	4	Aquatic					
1	Crustacean	<i>Leptoxis praerosa</i>	Onyx Rocksnail	G5	S3			No	4	Aquatic					
1	Crustacean	<i>Leptoxis spicula</i>	(an aquatic snail)	G?	S1			No	4	Aquatic					
1	Crustacean	<i>Liliasia christyi</i>	(an aquatic snail)	G2	S2			No	4	Aquatic					
1	Crustacean	<i>Liliasia geniculata</i>	Ornate Rocksnail	G3G4	S2			No	4	Aquatic					
1	Crustacean	<i>Liliasia verrucosa</i>	Varicose Rocksnail	G3G4	S3			No	4	Aquatic					
1	Crustacean	<i>Pleurocera alveare</i>	Rugged Hornsnail	G3G4	S2			No	4	Aquatic					
1	Crustacean	<i>Rhodacme elatior</i>	Domed Ancyliid	G1	S1			No	5	Aquatic					
2	Insect	<i>Acroneuria petersi</i>	Etowah Stonefly	G3	S3?			No	10	Aquatic					
2	Insect	<i>Allocapnia sequatchie</i>	(a stonefly)	G3G4	S2?			No	4	Aquatic					
2	Insect	<i>Allocapnia tennesse</i>	Tennessee Snowfly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Allocapnia unzickeri</i>	Cumberland Snowfly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Alloperla neglecta</i>	Tennessee Sallfly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Beloneuria stewarti</i>	Cheaha Beloneurian Stonefly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Epeorus subpallidus</i>	(a mayfly)	G1	S1			No	6	Aquatic					
2	Insect	<i>Ephemerella beneri</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Ephemerella inconstans</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Gomphus crassus</i>	Handsome Clubtail	G3	S3?			No	4	Aquatic					
2	Insect	<i>Gomphus diminutus</i>	Diminutive Clubtail	G3	S3?			No	4	Aquatic					
2	Insect	<i>Gomphus ventricosus</i>	Skillet Clubtail	G3	S3?			No	4	Aquatic					
2	Insect	<i>Gomphus viridifrons</i>	Green-faced Clubtail	G3	S3?			No	4	Aquatic					
2	Insect	<i>Hansonoperla appalachia</i>	Hanson's Appalachian Stonely	G3	S3?			No	4	Aquatic					
2	Insect	<i>Heptagenia townesi</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Hydroptila decia</i>	Knoxville Hydroptilan Micro Caddisfly	G1G3	S1S3			No	10	Aquatic					
2	Insect	<i>Isonychia diversa</i>	Diverse Isonychian Mayfly	GX	SH			No	7	Aquatic					
2	Insect	<i>Isonychia tusculanensis</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Isoperla distincta</i>	(a stonefly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Leuctra monticola</i>	(a stonefly)	G1Q	S3?			No	6	Aquatic					
2	Insect	<i>Leuctra nephophila</i>	Clouded Needletfly	G3	S3?			No	6	Aquatic					
2	Insect	<i>Leucrocuta thetis</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Lilocampa jonesi</i>	(a bristletail)	G2G3	S1?			No	4	Aquatic					
2	Insect	<i>Paragnetina ichusa</i>	(a stonefly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Paraleptophebia jeanae</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Perlesta frisoni</i>	(a stonefly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Plaudilus veteris</i>	(a mayfly)	G2	S2			No	6	Aquatic					
2	Insect	<i>Serratella spiculosa</i>	Spiculose Ceratellan Mayfly	G2	SH			No	5	Aquatic					
2	Insect	<i>Sinella cavernarum</i>	(a springtail)	G5	S2?			No	4	Aquatic					
2	Insect	<i>Sinella hoffmani</i>	Hoffman's Springtail	G5	S1S2			No	4	Aquatic					
2	Insect	<i>Stenonema lenati</i>	(a mayfly)	G3	S3?			No	4	Aquatic					
2	Insect	<i>Strophopteryx limata</i>	Newfound Willowfly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Stylurus amnicola</i>	Riverine Clubtail	G4	S3?			No	4	Aquatic					
2	Insect	<i>Stylurus notatus</i>	Elusive or Marked Clubtail	G3	S3			No	10	Aquatic					
2	Insect	<i>Stylurus townesi</i>	Bronze Clubtail Dragonfly	G3	S3?			No	10	Aquatic					
2	Insect	<i>Tallaperla elisa</i>	Highlands Roachfly	G3	S3			No	4	Aquatic					
2	Insect	<i>Tallaperla laurie</i>	Yellow Roachfly	G3	S3?			No	4	Aquatic					
2	Insect	<i>Ullaperla gaspessiana</i>	(a stonefly)	G3	S?			No	4	Aquatic					

SUBTERRANEAN FAUNA CONSIDERED BUT NOT SELECTED AS GCN SPECIES																
Tier	Faunal Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Final Selected Target	Target Sel. Code	Target Habitat Group	WU Region	CU Region	NB Region	CR Region	R&V Region	SBR Region
2	Arachnid	<i>Anthrobia mammothia</i>	(a cave obligate spider)	G5	S3S4			No	4	Subterranean						
2	Arachnid	<i>Nesticus barri</i>	(a cave obligate spider)	G5	S3S4			No	4	Subterranean						
2	Arachnid	<i>Porhomma cavernicola</i>	Appalachian Cave Spider	G5	S4S5			No	4	Subterranean						
1	Crustacean	<i>Caecidotea bicrenata</i>	(a cave obligate isopod)	G3G4	SR			No	4	Subterranean						
1	Crustacean	<i>Caecidotea bicrenata bicrenata</i>	(a cave obligate isopod)	G3G4T3T4	SR			No	4	Subterranean						
1	Crustacean	<i>Caecidotea bicrenata whitei</i>	(a cave obligate isopod)	G3G4T3T4	S1?			No	4	Subterranean						
1	Crustacean	<i>Caecidotea richardsonae</i>	Tennessee Valley Cave Isopod	G3G5	SR			No	4	Subterranean						
1	Crustacean	<i>Dactylocythere steevesi</i>	(a cave obligate shrimp)	G4	S3S4			No	4	Subterranean						
1	Crustacean	<i>Sagittocythere barri</i>	Ectocommensal Ostracod	G4	S3			No	4	Subterranean						
1	Crustacean	<i>Stygobromus alabamensis</i>	(a cave obligate amphipod)	G4G5	S1S2			No	4	Subterranean						
1	Crustacean	<i>Stygobromus exilis</i>	Central Kentucky Cave Obligat	G5	SR			No	4	Subterranean						
1	Crustacean	<i>Stygobromus mackini</i>	Southwestern Virginia Cave Amphipod	G5	SR			No	4	Subterranean						
2	Flatworm	<i>Sphalloplana pricei</i>	Refton Cave Planarian	G2G3	S1?			No	5	Subterranean						
1	Snail	<i>Glyphyalinia specus</i>	Hollow Glyph	G3	S4			No	4	Subterranean						
1	Snail	<i>Helicodiscus barri</i>	Raccoon Coil	G2G4	S3S4			No	4	Subterranean						
1	Snail	<i>Helicodiscus multidentis</i>	Twilight Coil	G2	S3			No	4	Subterranean						
2	Insect	<i>Acrotichis lucidula</i>	Feather-winged Beetle	G2G3	SE1?			No	4	Subterranean						
2	Insect	<i>Batrissymmodes greeveri</i>	(a cave obligate beetle)	G1G2	S1S2			No	10	Subterranean						
2	Insect	<i>Batrissymmodes spelaeus</i>	(a cave obligate beetle)	G5	S2?			No	4	Subterranean						
2	Insect	<i>Batrissodes subterraneus</i>	(a cave obligate beetle)	G1G2	S1S2			No	10	Subterranean						
2	Insect	<i>Litocampa valentinei</i>	(a cave obligate bristletail)	G5	S1S2			No	10	Subterranean						
2	Insect	<i>Pseudanophthalmus beakleyi</i>	(a cave obligate beetle)	G3G4	S3			No	4	Subterranean						
2	Insect	<i>Pseudanophthalmus ciliaris orlindae</i>	(a cave obligate beetle)	G3G4T1T2	S1S2			No	10	Subterranean						
2	Insect	<i>Pseudanophthalmus hirsutus</i>	Cumberland Gap Cave Beetle or Lee County Cave Beetle	G1G2	S1			No	10	Subterranean						
2	Insect	<i>Pseudanophthalmus robustus</i>	(a cave obligate beetle)	G5	S3			No	4	Subterranean						
2	Millipede	<i>Delophon holti</i>	Hamblen County Millipede	GNR	S1			No	10	Subterranean						
2	Millipede	<i>Pseudotremia nodosa</i>	(a cave obligate millipede)	G4	S2S3			No	4	Subterranean						

APPENDIX B. List of Tennessee GCN Species Selected by Adjoining States

Taxonomic Group	Scientific Name	Common Name	AL	GA	KY	MS	MO	NC	VA
Amphibian	<i>Acris gryllus</i>	Southern Cricket Frog							
Amphibian	<i>Ambystoma barbouri</i>	Streamside Salamander			Yes				
Amphibian	<i>Ambystoma talpoideum</i>	Mole Salamander			Yes		Yes	Yes	
Amphibian	<i>Aneides aeneus</i>	Green Salamander	Yes	Yes	Yes			Yes	
Amphibian	<i>Cryptobranchus alleganiensis</i>	Hellbender		Yes		Yes			
Amphibian	<i>Desmognathus aeneus</i>	Seepage Salamander	Yes	Yes				Yes	
Amphibian	<i>Desmognathus welleri</i>	Black Mountain Salamander			Yes				
Amphibian	<i>Desmognathus wrighti</i>	Pygmy Salamander						Yes	
Amphibian	<i>Eurycea junaluska</i>	Junaluska Salamander							
Amphibian	<i>Gyrinophilus palleucus</i>	Tennessee Cave Salamander		Yes					
Amphibian	<i>Gyrinophilus palleucus gulolineatus</i>	Berry Cave Salamander							
Amphibian	<i>Gyrinophilus palleucus neoturoides</i>	Big Mouth Cave Salamander							
Amphibian	<i>Hemidactylum scutatum</i>	Four-toed Salamander			Yes	Yes	Yes	Yes	
Amphibian	<i>Hyla gralosa</i>	Barking Treefrog			Yes			Yes	
Amphibian	<i>Hyla versicolor</i>	Gray Treefrog			Yes			Yes	
Amphibian	<i>Plethodon aureolus</i>	Tellico Salamander						Yes	
Amphibian	<i>Plethodon dorsalis</i>	Northern Zigzag Salamander							
Amphibian	<i>Plethodon jordani</i>	Red-cheeked Salamander							
Amphibian	<i>Plethodon richmondi</i>	Ravine Salamander						Yes	
Amphibian	<i>Plethodon wehrlei</i>	Wehrle's Salamander			Yes			Yes	
Amphibian	<i>Plethodon welleri</i>	Weller's Salamander						Yes	
Amphibian	<i>Plethodon yonahlossee</i>	Yonahlossee Salamander							
Amphibian	<i>Pseudacris brachyphona</i>	Mountain Chorus Frog		Yes		Yes		Yes	
Amphibian	<i>Pseudotriton montanus</i>	Mud Salamander				Yes			
Amphibian	<i>Rana areolata</i>	Crawfish Frog				Yes			
Amphibian	<i>Siren intermedia</i>	Lesser Siren							
Arachnid	<i>Appaleptoneta sp.</i>	(a cave leptonetid spider)							
Arachnid	<i>Appaleptoneta sp. 1</i>	(a cave leptonetid spider)							
Arachnid	<i>Calliopius pantoplus</i>	(an amaurobiid spider)							
Arachnid	<i>Chitrella archeri</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Hesperochernes mirabilis</i>	Southeastern Cave Pseudoscorpion							
Arachnid	<i>Kleptochthonius affinis</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius barri</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius charon</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius daemionius</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius infernalis</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius magnus</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius myopioides</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius pluto</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius rex</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius sp.</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius stygius</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Kleptochthonius tantalus</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Liocranoides sp.</i>	(a cave two-clawed spider)							
Arachnid	<i>Microhexura montivaga</i>	Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula							
Arachnid	<i>Nesticus barrowsi</i>	(a cave obligate spider)							
Arachnid	<i>Nesticus dilutus</i>	Grassy Creek Cave Spider							
Arachnid	<i>Nesticus furtivus</i>	Crystal Caverns Cave Spider							
Arachnid	<i>Nesticus paynei</i>	(a cave obligate spider)							Yes
Arachnid	<i>Nesticus stygius</i>	(a cave obligate spider)							
Arachnid	<i>Nesticus tennesseensis</i>	(a spider)							Yes
Arachnid	<i>Nesticus valentini</i>	Valentine's Cave Spider							
Arachnid	<i>Phalangodes appalachius</i>	Appalachian Cave Harvestman							
Arachnid	<i>Poecilophysis weyerensis</i>	(a cave mite)							Yes
Arachnid	<i>Theromaster sp. 1</i>	(a cave obligate harvestman)							
Arachnid	<i>Tyrannochthonius fiskei</i>	(a cave obligate pseudoscorpion)							
Arachnid	<i>Tyrannochthonius steevesi</i>	(a cave obligate pseudoscorpion)							
Bird	<i>Accipiter striatus</i>	Sharp-shinned Hawk			Yes			Yes	
Bird	<i>Aegolius acadicus</i>	Northern Saw-whet Owl						Yes	Yes
Bird	<i>Amphispiza aestivalis</i>	Bachman's Sparrow	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bird	<i>Ammodramus henslowii</i>	Henslow's Sparrow	Yes	Yes	Yes		Yes	Yes	Yes
Bird	<i>Ammodramus savannarum</i>	Grasshopper Sparrow		Yes	Yes		Yes	Yes	Yes
Bird	<i>Anhinga anhinga</i>	Anhinga				Yes		Yes	
Bird	<i>Aquila chrysaetos</i>	Golden Eagle							
Bird	<i>Ardea alba</i>	Great Egret			Yes		Yes		
Bird	<i>Asio flammeus</i>	Short-eared Owl	Yes		Yes	Yes	Yes	Yes	
Bird	<i>Bartramia longicauda</i>	Upland Sandpiper			Yes		Yes	Yes	Yes
Bird	<i>Botaurus lentiginosus</i>	American Bittern			Yes	Yes	Yes	Yes	Yes
Bird	<i>Calidris canutus</i>	Red Knot		Yes				Yes	Yes
Bird	<i>Calidris himantopus</i>	Silt Sandpiper			Yes				
Bird	<i>Calidris mauri</i>	Western Sandpiper			Yes				
Bird	<i>Caprimulgus carolinensis</i>	Chuck-will's-widow				Yes	Yes	Yes	Yes
Bird	<i>Caprimulgus vociferus</i>	Whip-poor-will					Yes	Yes	Yes
Bird	<i>Certhia americana</i>	Brown Creeper			Yes			Yes	Yes
Bird	<i>Charadrius alexandrinus</i>	Snowy Plover	Yes						
Bird	<i>Charadrius melodus melodus</i>	Piping Plover							
Bird	<i>Charadrius wilsonia</i>	Wilson's Plover	Yes	Yes		Yes		Yes	Yes
Bird	<i>Chondestes grammacus</i>	Lark Sparrow			Yes		Yes	Yes	
Bird	<i>Circus cyaneus</i>	Northern Harrier	Yes		Yes		Yes	Yes	Yes
Bird	<i>Cistothorus platensis</i>	Sedge Wren or Short-billed Marsh Wren			Yes			Yes	Yes
Bird	<i>Coccyzus americanus</i>	Yellow-billed Cuckoo					Yes	Yes	Yes
Bird	<i>Contopus cooperi</i>	Olive-sided Flycatcher							
Bird	<i>Contopus virens</i>	Eastern Wood-pewee						Yes	Yes
Bird	<i>Corvus corax</i>	Common Raven			Yes				
Bird	<i>Dendroica caerulescens</i>	Black-throated Blue Warbler							
Bird	<i>Dendroica cerulea</i>	Cerulean Warbler	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bird	<i>Dendroica discolor</i>	Prairie Warbler			Yes	Yes	Yes	Yes	Yes
Bird	<i>Dendroica dominica</i>	Yellow-throated Warbler					Yes		
Bird	<i>Dendroica virens</i>	Black-throated Green Warbler							Yes
Bird	<i>Egretta caerulea</i>	Little Blue Heron			Yes	Yes	Yes	Yes	Yes
Bird	<i>Elanoides forficatus</i>	Swallow-tailed Kite	Yes	Yes	Yes	Yes		Yes	

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Bird	<i>Empidonax aliorum</i>	Alder Flycatcher						Yes	
Bird	<i>Empidonax minimus</i>	Least Flycatcher			Yes				
Bird	<i>Empidonax virescens</i>	Acadian Flycatcher					Yes		
Bird	<i>Falco peregrinus</i>	Peregrine Falcon			Yes				Yes
Bird	<i>Gallinula chloropus</i>	Common Moorhen			Yes		Yes	Yes	
Bird	<i>Grus americana</i>	Whooping Crane			Yes				
Bird	<i>Haliaeetus leucocephalus</i>	Bald Eagle		Yes	Yes			Yes	Yes
Bird	<i>Helminthos vermivorus</i>	Worm-eating Warbler	Yes		Yes	Yes	Yes	Yes	Yes
Bird	<i>Hylocichla mustelina</i>	Wood Thrush	Yes		Yes	Yes	Yes	Yes	Yes
Bird	<i>Icterus spurius</i>	Orchard Oriole				Yes	Yes	Yes	
Bird	<i>Ictinia mississippiensis</i>	Mississippi Kite			Yes		Yes	Yes	
Bird	<i>Ixobrychus exilis</i>	Least Bittern	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bird	<i>Lanius ludovicianus</i>	Loggerhead Shrike			Yes	Yes	Yes	Yes	Yes
Bird	<i>Limothlypis swainsonii</i>	Swainson's Warbler	Yes	Yes	Yes		Yes	Yes	Yes
Bird	<i>Limosa fedoa</i>	Marbled Godwit		Yes		Yes			Yes
Bird	<i>Limosa haemastica</i>	Hudsonian Godwit							Yes
Bird	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker			Yes	Yes	Yes	Yes	
Bird	<i>Numenius phaeopus</i>	Whimbrel		Yes					Yes
Bird	<i>Oporornis formosus</i>	Kentucky Warbler	Yes		Yes	Yes	Yes	Yes	Yes
Bird	<i>Parula americana</i>	Northern Parula							Yes
Bird	<i>Passerculus sandwichensis</i>	Savannah Sparrow			Yes			Yes	
Bird	<i>Passerina ciris</i>	Painted Bunting		Yes		Yes	Yes	Yes	
Bird	<i>Pluvialis dominica</i>	American Golden Plover			Yes				
Bird	<i>Poocilla atricapilla</i>	Black-capped Chickadee						Yes	
Bird	<i>Poocetes gramineus</i>	Vesper Sparrow			Yes			Yes	
Bird	<i>Protonotaria citrea</i>	Prothonotary Warbler			Yes	Yes	Yes	Yes	Yes
Bird	<i>Rallus elegans</i>	King Rail		Yes	Yes	Yes	Yes	Yes	Yes
Bird	<i>Regulus satrapa</i>	Golden-crowned Kinglet							
Bird	<i>Riparia riparia</i>	Bank Swallow			Yes			Yes	
Bird	<i>Seiurus motacilla</i>	Louisiana Waterthrush			Yes	Yes	Yes		Yes
Bird	<i>Sitta canadensis</i>	Red-breasted Nuthatch			Yes				
Bird	<i>Sitta pusilla</i>	Brown-headed Nuthatch				Yes		Yes	Yes
Bird	<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker		Yes				Yes	Yes
Bird	<i>Spiza americana</i>	Dickcissel			Yes		Yes	Yes	
Bird	<i>Sterna antillarum athalassos</i>	Interior Least Tern			Yes	Yes	Yes		
Bird	<i>Thryomanes bewickii</i>	Bewick's Wren	Yes		Yes	Yes			Yes
Bird	<i>Troglodytes troglodytes</i>	Winter Wren							Yes
Bird	<i>Tryngites subulcolis</i>	Buff-breasted Sandpiper			Yes				
Bird	<i>Tympanuchus cupido</i>	Greater Prairie-chicken			Yes		Yes		
Bird	<i>Tyrannus forficatus</i>	Scissor-tailed Flycatcher					Yes		
Bird	<i>Tyto alba</i>	Barn Owl		Yes	Yes	Yes		Yes	Yes
Bird	<i>Vermivora chrysoptera</i>	Golden-winged Warbler		Yes	Yes			Yes	Yes
Bird	<i>Vermivora pinus</i>	Blue-winged Warbler			Yes		Yes	Yes	Yes
Bird	<i>Vireo bellii</i>	Bell's Vireo			Yes		Yes		
Bird	<i>Vireo flavifrons</i>	Yellow-throated Vireo							Yes
Bird	<i>Vireo griseus</i>	White-eyed Vireo							
Bird	<i>Wilsonia citrina</i>	Hooded Warbler						Yes	
Crustacean	<i>Amergoniscus nicholasi</i>	(a cave obligate isopod)							
Crustacean	<i>Amergoniscus paynei</i>	(a cave obligate isopod)							
Crustacean	<i>Bacitrus angulus</i>	Cumberland Gap Cave Amphipod							Yes
Crustacean	<i>Barbicambarus cornutus</i>	Bottlebrush Crayfish							
Crustacean	<i>Caecidotea circulus</i>	(a cave obligate isopod)							
Crustacean	<i>Caecidotea incurva</i>	Incurved Cave Isopod							Yes
Crustacean	<i>Caecidotea nickajackensis</i>	Nickajack Cave Isopod							
Crustacean	<i>Caecidotea nortoni</i>	(a cave obligate isopod)							
Crustacean	<i>Caecidotea recurvata</i>	Southwestern Virginia Cave Isopod							Yes
Crustacean	<i>Caecidotea scyphus</i>	(a cave obligate isopod)							
Crustacean	<i>Caecidotea stygia</i>	(a cave obligate isopod)							
Crustacean	<i>Cambarus angularis</i>	Angled Crayfish							Yes
Crustacean	<i>Cambarus bouchardi</i>	Big South Fork Crayfish							
Crustacean	<i>Cambarus brachydactylus</i>	Shortfingered Crayfish							
Crustacean	<i>Cambarus conasaugaensis</i>	(a crayfish)							
Crustacean	<i>Cambarus crinipes</i>	Bouchard's Crayfish or Hairlegged Crayfish							
Crustacean	<i>Cambarus cymatilis</i>	Conasauga Blue Burrower Crayfish		Yes					
Crustacean	<i>Cambarus deweesae</i>	Valley Flame Crayfish							
Crustacean	<i>Cambarus extraneus</i>	Chickamauga Crayfish		Yes					
Crustacean	<i>Cambarus hamulatus</i>	Nickajack Cave Crayfish							
Crustacean	<i>Cambarus hiwasseeensis</i>	(a crayfish)						Yes	
Crustacean	<i>Cambarus manningi</i>	(a crayfish)							
Crustacean	<i>Cambarus obeyensis</i>	Obey River Crayfish							
Crustacean	<i>Cambarus pristinus</i>	Caney Fork Crayfish							
Crustacean	<i>Cambarus sp. 1</i>	Emory River Crayfish							
Crustacean	<i>Cambarus williamsi</i>	Stones River Crayfish							
Crustacean	<i>Diacyclops sp.</i>	Indiana Groundwater Copepod							
Crustacean	<i>Diacyclops yeatmani</i>	Yeatman's Groundwater Copepod							
Crustacean	<i>Donaldsonocythere tuberosa</i>	(a cave obligate shrimp)							
Crustacean	<i>Fallicambarus hortonii</i>	Hatchie Burrowing Crayfish							
Crustacean	<i>Ligidium elrodii hancockensis</i>	(a cave obligate isopod)							
Crustacean	<i>Miktoniscus barri</i>	(a cave obligate isopod)							
Crustacean	<i>Orconectes alabamensis</i>	Stateline Crayfish							
Crustacean	<i>Orconectes australis</i>	Blind Crayfish							
Crustacean	<i>Orconectes barrenensis</i>	(a crayfish)							
Crustacean	<i>Orconectes burri</i>	Blood River Crayfish							
Crustacean	<i>Orconectes cooperi</i>	Flintbriar Crayfish							
Crustacean	<i>Orconectes forceps</i>	Surgeon Crayfish		Yes					Yes
Crustacean	<i>Orconectes incomptus</i>	Tennessee Cave Crayfish							
Crustacean	<i>Orconectes pagei</i>	Big Sandy Crayfish							
Crustacean	<i>Orconectes pellucidus</i>	Eyeless Crayfish							
Crustacean	<i>Orconectes shoupi</i>	Nashville Crayfish							
Crustacean	<i>Orconectes wrightii</i>	Hardin County Crayfish							
Crustacean	<i>Stygobromus barryi</i>	(a cave obligate amphipod)							

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Crustacean	<i>Stygobromus dicksoni</i>	(a cave obligate amphipod)							
Crustacean	<i>Stygobromus fecundus</i>	(a cave obligate amphipod)							
Crustacean	<i>Stygobromus finleyi</i>	Finley's Cave Amphipod							Yes
Crustacean	<i>Stygobromus nortoni</i>	Norton's Cave Amphipod							
Crustacean	<i>Stygobromus sp.</i>	(a cave obligate amphipod)							
Crustacean	<i>Stygobromus sp. 22</i>	Swamp River Cave Amphipod							
Crustacean	<i>Stygobromus sparsus</i>	(a cave obligate amphipod)							
Crustacean	<i>Stygobromus vitreus</i>	(a cave obligate amphipod)							
Fish	<i>Acipenser fulvescens</i>	Lake Sturgeon	Yes	Yes	Yes				
Fish	<i>Ammocrypta beani</i>	Naked Sand Darter							
Fish	<i>Ammocrypta clara</i>	Western Sand Darter			Yes	Yes	Yes		Yes
Fish	<i>Ammocrypta vivax</i>	Scaly Sand Darter							
Fish	<i>Carpiodes velifer</i>	Highfin Carpsucker						Yes	
Fish	<i>Clinostomus funduloides ssp. 1</i>	Smoky Dace							
Fish	<i>Crystallaria asprella</i>	Crystal Darter				Yes			
Fish	<i>Cycleptus elongatus</i>	Blue sucker				Yes	Yes		
Fish	<i>Cyprinella caerulea</i>	Blue Shiner	Yes	Yes					
Fish	<i>Cyprinella monacha</i>	Spotfin Chub	Yes					Yes	Yes
Fish	<i>Ericymba buccata</i>	Silverjaw Minnow							
Fish	<i>Erimystax cahni</i>	Slender Chub							Yes
Fish	<i>Erimystax dissimilis</i>	Streamline Chub	Yes						Yes
Fish	<i>Erimystax insignis</i>	Blotched Chub		Yes	Yes			Yes	Yes
Fish	<i>Etheostoma acuticeps</i>	Sharphead Darter						Yes	Yes
Fish	<i>Etheostoma aquali</i>	Coppercheek Darter							
Fish	<i>Etheostoma baileyi</i>	Emerald Darter			Yes				
Fish	<i>Etheostoma barbouri</i>	Teardrop Darter							
Fish	<i>Etheostoma barrenense</i>	Splendid Darter			Yes				
Fish	<i>Etheostoma bellum</i>	Orangefin Darter							
Fish	<i>Etheostoma blennioides gutschelli</i>	Tuckasegee Darter							
Fish	<i>Etheostoma blennius sequatchiense</i>	Sequatchie Blenny Darter							
Fish	<i>Etheostoma boschungii</i>	Slackwater Darter	Yes						
Fish	<i>Etheostoma brevirostrum</i>	Holiday or Ellijay Darter	Yes	Yes					
Fish	<i>Etheostoma cervus</i>	Chickasaw Darter							
Fish	<i>Etheostoma cinereum</i>	Ashy Darter	Yes	Yes	Yes				Yes
Fish	<i>Etheostoma corona</i>	Crown Darter							
Fish	<i>Etheostoma denoncourti</i>	Golden Darter							
Fish	<i>Etheostoma dilrema</i>	Coldwater Darter	Yes	Yes					
Fish	<i>Etheostoma doration sp.</i>	Bluemask Darter or Jewel Darter							
Fish	<i>Etheostoma forbesi</i>	Barrens Darter							
Fish	<i>Etheostoma maculatum</i>	Spotted Darter			Yes				
Fish	<i>Etheostoma microlepidum</i>	Finescale Darter			Yes				
Fish	<i>Etheostoma neopterum</i>	Lollypop Darter	Yes						
Fish	<i>Etheostoma olivaceum</i>	Sooty Darter or Dirty Darter							
Fish	<i>Etheostoma percunum</i>	Duskylail Darter			Yes				Yes
Fish	<i>Etheostoma pseudovulatum</i>	Egg-mimic Darter							
Fish	<i>Etheostoma pyrrhogaster</i>	Firebelly Darter			Yes				
Fish	<i>Etheostoma rupestre</i>	Rock Darter		Yes		Yes			
Fish	<i>Etheostoma sagitta</i>	Arrow Darter							
Fish	<i>Etheostoma striatulum</i>	Striated Darter							
Fish	<i>Etheostoma susanae</i>	Cumberland Johnny Darter			Yes				
Fish	<i>Etheostoma tippecanoe</i>	Tippecanoe Darter							Yes
Fish	<i>Etheostoma trisella</i>	Trispot Darter	Yes	Yes					
Fish	<i>Etheostoma tuscumbia</i>	Tuscumbia Darter	Yes						
Fish	<i>Etheostoma vulneratum</i>	Wounded Darter		Yes				Yes	Yes
Fish	<i>Etheostoma wapli</i>	Boulder Darter	Yes						
Fish	<i>Fundulus chrysotus</i>	Golden Topminnow			Yes				
Fish	<i>Fundulus julisia</i>	Barrens Topminnow							
Fish	<i>Hemimtrania flammea</i>	Flame Chub		Yes					
Fish	<i>Hybopsis lineapunctata</i>	Lined Chub		Yes					
Fish	<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey						Yes	
Fish	<i>Lepisosteus spatula</i>	Alligator Gar							
Fish	<i>Macrhybopsis gelida</i>	Sturgeon Chub				Yes	Yes		
Fish	<i>Macrhybopsis meeki</i>	Sicklefin Chub				Yes	Yes		
Fish	<i>Notropis albizonatus</i>	Palezone Shiner (S. Fk. Cumberland Dr.)	Yes		Yes				
Fish	<i>Notropis asperifrons</i>	Burrhead Shiner		Yes					
Fish	<i>Notropis chrosomus</i>	Rainbow Shiner							
Fish	<i>Notropis rubellus rubellus</i>	Rosyface Shiner or Roseface Shiner							
Fish	<i>Notropis rupestris</i>	Bedrock Shiner							
Fish	<i>Noturus baileyi</i>	Smoky Madtom							
Fish	<i>Noturus flavipinnis</i>	Yellowfin Madtom		Yes					Yes
Fish	<i>Noturus munius</i>	Frecklebelly Madtom	Yes			Yes			
Fish	<i>Noturus sp. 3</i>	Saddled Madtom							
Fish	<i>Noturus sp. 4</i>	Chucky Madtom							
Fish	<i>Noturus stanauli</i>	Pygmy Madtom							
Fish	<i>Noturus stigmatosus</i>	Northern Madtom			Yes	Yes			
Fish	<i>Percina antesella</i>	Amber Darter		Yes					
Fish	<i>Percina aurantiaca</i>	Tangerine Darter		Yes				Yes	Yes
Fish	<i>Percina burtoni</i>	Blotchside Logperch	Yes					Yes	Yes
Fish	<i>Percina jenkinsi</i>	Conasauga Logperch or Reticulate Logperch		Yes					
Fish	<i>Percina macrocephala</i>	Longhead Darter			Yes			Yes	Yes
Fish	<i>Percina phoxocephala</i>	Slenderhead Darter	Yes			Yes			
Fish	<i>Percina sp. 3</i>	Muscadine Darter		Yes					
Fish	<i>Percina sp. 9</i>	Upland Bridled Darter		Yes					
Fish	<i>Percina squamata</i>	Olive Darter		Yes				Yes	
Fish	<i>Percina slicogaster</i>	Frecklebelly Darter			Yes				
Fish	<i>Percina tanasi</i>	Snail Darter	Yes	Yes					
Fish	<i>Phenacobius catostomus</i>	Rifle Minnow							
Fish	<i>Phoxinus cumberlandensis</i>	Mountain Blackside Dace			Yes				
Fish	<i>Phoxinus saylori</i>	Laurel Dace							
Fish	<i>Phoxinus tennesseensis</i>	Tennessee Dace		Yes					Yes
Fish	<i>Polyodon spathula</i>	Paddlefish				Yes	Yes		Yes

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Fish	<i>Scaphirhynchus albus</i>	Pallid Sturgeon			Yes	Yes	Yes		
Fish	<i>Thoburnia atripinnis</i>	Blackfin Sucker			Yes				
Fish	<i>Typhlichthys subterraneus</i>	Southern Cavefish		Yes	Yes		Yes		
Flatworm	<i>Sphalloplana buchanani</i>	(a cave obligate planarian)							
Flatworm	<i>Sphalloplana chandleri</i>	Chandler's Planarian							Yes
Flatworm	<i>Sphalloplana consimilis</i>	Powell Valley Planarian							Yes
Flatworm	<i>Sphalloplana sp. 2</i>	Rumbling Falls Cave Flatworm							
Insect	<i>Acroneuria petersi</i>	Etowah Stonefly		Yes					
Insect	<i>Agarodes stannardi</i>	Stannard's Agarodes Caddisfly							
Insect	<i>Allocapnia brooksi</i>	Sevier Snowfly							
Insect	<i>Allocapnia cunninghami</i>	Karst Snowfly							
Insect	<i>Allocapnia fumosa</i>	Smokies Snowfly							Yes
Insect	<i>Allocapnia perplexa</i>	Perplexing Snowfly							
Insect	<i>Allocapnia tennessa</i>	Tennessee Snowfly							
Insect	<i>Allocapnia unzickeri</i>	Cumberland Snowfly							
Insect	<i>Alloperla neglecta</i>	Tennessee Sallfly							Yes
Insect	<i>Aloconota diversiseta</i>	(a rove beelle)							
Insect	<i>Amblyscirtes linda</i>	Linda's Roadside Skipper							
Insect	<i>Amphinemura mockfordi</i>	Tennessee Forestfly							
Insect	<i>Anillinus sp.</i>	Flag Trail Cave Beetle							
Insect	<i>Arrhopaltes sp.</i>	(a cave obligate springtail)							
Insect	<i>Atheta lucifuga</i>	Light Shunning Rove Beetle							
Insect	<i>Batrissymmodes greeneri</i>	(a cave obligate beetle)							
Insect	<i>Batrissymmodes jeanneli</i>	(a cave obligate beetle)							
Insect	<i>Batrissymmodes quisnamus</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes barri</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes clypeospecus</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes ferulifer</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes gemmoides</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes gemmus</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes pannosus</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes subterraneus</i>	(a cave obligate beetle)							
Insect	<i>Batrissodes valentinei</i>	(a cave obligate beetle)							
Insect	<i>Beloneuria stewarti</i>	Cheaha Beloneurian Stonefly							
Insect	<i>Callophrys irus</i>	Frosted Eflin							Yes
Insect	<i>Ceratalopsyche etneri</i>	Buffalo Springs Caddisfly							
Insect	<i>Cheumatopsyche helma</i>	Helma's Net-spinning Caddisfly							
Insect	<i>Cicindela ancociscenensis</i>	(a tiger beetle)							Yes
Insect	<i>Darlingtonia kentuckensis</i>	(a ground beetle)							
Insect	<i>Falsomia sp. 2 nr. macrochaeta</i>	(a cave obligate springtail)							
Insect	<i>Glyphopsyche sequatchie</i>	Sequatchie Caddisfly							
Insect	<i>Gomphus consanguis</i>	Cherokee Clubtail Dragonfly		Yes					Yes
Insect	<i>Gomphus sandrius</i>	Tennessee Clubtail Dragonfly							
Insect	<i>Gomphus septima</i>	Septima's Clubtail							Yes
Insect	<i>Habroblebiodes celestia</i>	(a mayfly)							Yes
Insect	<i>Hadenocercus opilionides</i>	(a cave obligate cricket)							
Insect	<i>Hansonoperla appalachia</i>	Hanson's Appalachian Stonefly							Yes
Insect	<i>Hydroperla rickeri</i>	Tennessee Springfly							
Insect	<i>Hydroptila decia</i>	Knoxville Hydroptilan Micro Caddisfly							
Insect	<i>Hypogastrura sp. 1</i>	(a vialica group springtail)							
Insect	<i>Isoptera distincta</i>	(a stonefly)							
Insect	<i>Leuctra monticola</i>	(a stonefly)							Yes
Insect	<i>Leuctra nephophila</i>	Clouded Needlefly							
Insect	<i>Lilocampa sp. 5</i>	Rumbling Falls Cave Dipluran							
Insect	<i>Lilocampa sp. TN #6</i>	Buffalo Cove Cave Dipluran							
Insect	<i>Lilocampa sp. TN #7</i>	Mill Hollow Cave Dipluran							
Insect	<i>Lilocampa sp. TN #8</i>	Mountain Eye Cave Dipluran							
Insect	<i>Lilocampa valentinei</i>	(a cave obligate bristletail)							
Insect	<i>Macromia margarita</i>	Mountain River Cruiser							Yes
Insect	<i>Megaleuctra williamsae</i>	Williams' Rare Winter Stonefly							Yes
Insect	<i>Neanura sp. 1</i>	Swamp River Cave Neanura							
Insect	<i>Nelsonites walleri</i>	(a cave obligate beetle)							
Insect	<i>Nicrophorus americanus</i>	American Burying Beetle							Yes
Insect	<i>Oconoperla innubila</i>	(a stonefly)							
Insect	<i>Ornychiurus sp. 2</i>	Swamp River Cave Ornychiurus							
Insect	<i>Ophiogomphus acuminatus</i>	Tennessee Snaketail or Acuminate Snaketail							
Insect	<i>Ophiogomphus alleghaniensis</i>	Allegheny Snaketail							
Insect	<i>Ophiogomphus edmundo</i>	Edmund's Snaketail		Yes					
Insect	<i>Ophiogomphus howei</i>	Howe's Dragonfly							Yes
Insect	<i>Paragnetina ichusa</i>	(a stonefly)							Yes
Insect	<i>Paraleptophlebia kirchneri</i>	(a mayfly)							
Insect	<i>Perlesta etneri</i>	(a stonefly)							
Insect	<i>Perlesta frisoni</i>	(a stonefly)							Yes
Insect	<i>Pleudius grandis</i>	(a mayfly)							
Insect	<i>Pseudanophthalmus acherontis</i>	Echo Cave Beetle							
Insect	<i>Pseudanophthalmus bendermani</i>	Benderman's Cave Beetle							
Insect	<i>Pseudanophthalmus catherinae</i>	Catherine's Cave Beetle							
Insect	<i>Pseudanophthalmus ciliaris ciliaris</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus ciliaris colemanensis</i>	Coleman Cave Beetle							
Insect	<i>Pseudanophthalmus ciliaris orlindae</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus cumberlandus</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus digitus</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus engelhardti</i>	Engelhart's Cave Beetle							
Insect	<i>Pseudanophthalmus farrelli</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus fowlerae</i>	Fowler's Cave Beetle							
Insect	<i>Pseudanophthalmus fulleri</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus hesperus</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus hirsutus</i>	Cumberland Gap Cave Beetle or Lee County Cave Beetle							Yes
Insect	<i>Pseudanophthalmus humeralis</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus inquisitor</i>	Searcher Cave Beetle							
Insect	<i>Pseudanophthalmus insularis</i>	Baker Station Cave Beetle							

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Insect	<i>Pseudanophthalmus jonesi</i>	Grassy Cove Cave Beetle							
Insect	<i>Pseudanophthalmus loganensis</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus longiceps</i>	Long-headed Cave Beetle							Yes
Insect	<i>Pseudanophthalmus macraei</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus nickajackensis</i>	Nickajack Cave Beetle							
Insect	<i>Pseudanophthalmus nortoni</i>	Norton's Cave Beetle							
Insect	<i>Pseudanophthalmus occidentalis</i>	Western Cave Beetle							
Insect	<i>Pseudanophthalmus pallidus</i>	Pale Cave Beetle							
Insect	<i>Pseudanophthalmus paradoxus</i>	Ridgetop Cave Beetle							
Insect	<i>Pseudanophthalmus paulus</i>	Nobletts Cave Beetle							
Insect	<i>Pseudanophthalmus paynei</i>	Payne's Cave Beetle							
Insect	<i>Pseudanophthalmus productus</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus pusillus</i>	Tiny Cave Beetle							
Insect	<i>Pseudanophthalmus robustus</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus rotundatus</i>	(a cave obligate beetle)							Yes
Insect	<i>Pseudanophthalmus scutillus</i>	New Mammoth Cave Beetle or Lean Cave Beetle							
Insect	<i>Pseudanophthalmus sidus</i>	Meredith Cave Beetle							
Insect	<i>Pseudanophthalmus simplex</i>	Simple Cave Beetle							
Insect	<i>Pseudanophthalmus sp. 27</i>	Rumbling Falls Cave Beetle							
Insect	<i>Pseudanophthalmus sp. TN #1 SCA or TN #28?</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus sp. TN #29</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus sp. TN #30</i>	Ace in the Hole Cave Beetle							
Insect	<i>Pseudanophthalmus templetoni</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus tennesseensis</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus tiresias</i>	Indian Graves Point Cave Beetle							
Insect	<i>Pseudanophthalmus tullahoma</i>	Duck River Cave Beetle							
Insect	<i>Pseudanophthalmus unionis</i>	Union County Cave Beetle							
Insect	<i>Pseudanophthalmus valentinei</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus vanburensis</i>	(a cave obligate beetle)							
Insect	<i>Pseudanophthalmus ventus</i>	Blowing Cave Beetle							
Insect	<i>Pseudanophthalmus wallacei</i>	Wallace's Cave Beetle							
Insect	<i>Pseudosinella aera</i>	(a cave obligate springtail)							
Insect	<i>Pseudosinella christianseni</i>	Christiansen's Cave Springtail							
Insect	<i>Pseudosinella hirsuta</i>	Hirsute Cave Springtail							Yes
Insect	<i>Pseudosinella orba</i>	(a cave obligate springtail)							
Insect	<i>Pseudosinella sp. 5</i>	Swamp River Cave Pseudosinella							
Insect	<i>Pseudosinella sp. 6</i>	(a cave obligate springtail)							
Insect	<i>Pseudosinella sp. 7 nr. Nata</i>	(a cave obligate springtail)							
Insect	<i>Pseudosinella spinosa</i>	Spinose Cave Springtail							
Insect	<i>Plomaphagus barri</i>	(a cave obligate beetle)							
Insect	<i>Plomaphagus chromolithus</i>	(a cave obligate beetle)							
Insect	<i>Plomaphagus fecundus</i>	(a cave obligate beetle)							
Insect	<i>Plomaphagus hubrichti</i>	(a cave obligate beetle)							
Insect	<i>Semiothisa fraserata</i>	Fraser Fir Geometrid Moth							
Insect	<i>Sinella basidens</i>	(a cave obligate springtail)							
Insect	<i>Speyeria diana</i>	Diana Fritillary							Yes
Insect	<i>Stenonema sinclairi</i>	(a mayfly)							
Insect	<i>Strophopteryx limata</i>	Newfound Willowfly							Yes
Insect	<i>Stylurus notatus</i>	Elusive or Marked Clubtail		Yes			Yes		Yes
Insect	<i>Stylurus townesi</i>	Bronze Clubtail Dragonfly							
Insect	<i>Tallaperla elisa</i>	Highlands Roachfly							
Insect	<i>Tallaperla laurie</i>	Yellow Roachfly							
Insect	<i>Trechus apicalis</i>	(a carabid beetle)							
Insect	<i>Trechus bowlingi</i>	(a carabid beetle)							
Insect	<i>Trechus caliginis</i>	(a carabid beetle)							
Insect	<i>Trechus cumberlandus</i>	Cumberland Ground Beetle							
Insect	<i>Trechus haoe</i>	(a carabid beetle)							
Insect	<i>Trechus hydropicus beutenmuelleri</i>	(a carabid beetle)							
Insect	<i>Trechus inexpectatus</i>	(a carabid beetle)							
Insect	<i>Trechus luculentus luculentus</i>	(a carabid beetle)							
Insect	<i>Trechus luculentus unicolor</i>	(a carabid beetle)							
Insect	<i>Trechus nebulosus</i>	(a carabid beetle)							
Insect	<i>Trechus novaculus</i>	(a carabid beetle)							
Insect	<i>Trechus roanicus</i>	(a carabid beetle)							
Insect	<i>Trechus stupkai</i>	(a carabid beetle)							
Insect	<i>Trechus talequah</i>	(a carabid beetle)							
Insect	<i>Trechus tennesseensis tauricus</i>	(a carabid beetle)							
Insect	<i>Trechus tennesseensis tennesseensis</i>	(a carabid beetle)							
Insect	<i>Trechus tonitru</i>	(a carabid beetle)							
Insect	<i>Trechus tuckaleechee</i>	(a carabid beetle)							
Insect	<i>Trechus uncler</i>	(a carabid beetle)							
Insect	<i>Trechus valentinei</i>	(a carabid beetle)							
Insect	<i>Trechus vandykei</i>	(a carabid beetle)							
Insect	<i>Trechus verus</i>	(a carabid beetle)							
Insect	<i>Triacanthella copelandi</i>	Copeland's Cave Springtail							
Insect	<i>Tychobothrus strinati</i>	(a cave obligate beetle)							
Insect	<i>Zapada chila</i>	(a stonefly)							
Mammal	<i>Condylura cristata</i>	Star-nosed Mole		Yes				Yes	
Mammal	<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	Yes	Yes	Yes	Yes		Yes	Yes
Mammal	<i>Corynorhinus townsendii virginianus</i>	Virginia Big-eared Bat			Yes			Yes	
Mammal	<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel						Yes	
Mammal	<i>Lepus americanus</i>	Snowshoe Hare							Yes
Mammal	<i>Martes pennanti</i>	Fisher							Yes
Mammal	<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole						Yes	
Mammal	<i>Mustela nivalis</i>	Least Weasel		Yes			Yes	Yes	Yes
Mammal	<i>Myotis austroriparius</i>	Southeastern Bat	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mammal	<i>Myotis grisescens</i>	Gray Bat	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mammal	<i>Myotis leibii</i>	Eastern Small-footed Bat	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mammal	<i>Myotis sodalis</i>	Indiana Bat	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mammal	<i>Napaeozapus insignis</i>	Woodland Jumping Mouse						Yes	
Mammal	<i>Neotoma floridana haematoria</i>	Southern Appalachian Woodrat							

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Mammal	<i>Neotoma floridana illinoensis</i>	Eastern Woodrat							
Mammal	<i>Neotoma magister</i>	Allegheny Woodrat	Yes		Yes			Yes	Yes
Mammal	<i>Ochrotomys nuttalli</i>	Golden Mouse					Yes		
Mammal	<i>Parascalops breweri</i>	Hairy-tailed Mole		Yes				Yes	
Mammal	<i>Sorex cinereus</i>	Common Shrew		Yes	Yes			Yes	
Mammal	<i>Sorex dispar</i>	Long-tailed or Rock Shrew		Yes				Yes	Yes
Mammal	<i>Sorex fumeus</i>	Smoky Shrew						Yes	
Mammal	<i>Sorex hoyi</i>	Pygmy Shrew	Yes						
Mammal	<i>Sorex longirostris</i>	Southeastern Shrew							Yes
Mammal	<i>Sorex palustris</i>	Water Shrew		Yes				Yes	Yes
Mammal	<i>Spilogale putorius</i>	Eastern Spotted Skunk	Yes		Yes	Yes		Yes	Yes
Mammal	<i>Sylvilagus transitionalis</i>	Appalachian Cottontail (= New England Cottontail)							
Mammal	<i>Synaptomys cooperi</i>	Southern Bog Lemming		Yes					Yes
Mammal	<i>Tamiasciurus hudsonicus</i>	Red Squirrel		Yes					
Mammal	<i>Zapus hudsonius</i>	Meadow Jumping Mouse	Yes			Yes		Yes	
Millipede	<i>Chaetaspis mollis</i>	(a cave obligate millipede)							
Millipede	<i>Chaetaspis sp. 1</i>	Thunder Run Cave Millipede							
Millipede	<i>Delophon holti</i>	Hamblen County Millipede							
Millipede	<i>Pseudotremia acheron</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia cercops</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia deprehendor</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia lethe</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia lictor</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia rhadamanthus</i>	(a cave obligate millipede)							
Millipede	<i>Pseudotremia sp. (new TN species #4 = SCA #4)</i>	Wallace's Cave Millipede							
Millipede	<i>Pseudotremia sp. (new TN species #5 = SCA #3)</i>	Mann's Cave Millipede							
Millipede	<i>Pseudotremia sp. (new TN species #6 = SCA #1)</i>	Roebuck's Cave Millipede							
Millipede	<i>Pseudotremia sp. (new TN species #7 = SCA #2)</i>	Garland's Cave Millipede							
Millipede	<i>Pseudotremia valga</i>	(a cave obligate millipede)							Yes
Millipede	<i>Scoterpes copei</i>	(a cave obligate millipede)							
Millipede	<i>Scoterpes ventus</i>	Eastern Tennessee Cave Millipede							
Millipede	<i>Tetracion jonesi</i>	(a cave obligate millipede)							
Millipede	<i>Tetracion tennesseensis</i>	(a cave obligate millipede)							
Mussel	<i>Alasmidonta atropurpurea</i>	Cumberland Elktoe			Yes				
Mussel	<i>Alasmidonta marginata</i>	Elktoe		Yes	Yes				Yes
Mussel	<i>Alasmidonta ravenellana</i>	Appalachian Elktoe						Yes	
Mussel	<i>Alasmidonta viridis</i>	Slippershell Mussel		Yes	Yes			Yes	Yes
Mussel	<i>Cumberlandia monodonta</i>	Spectaclecase			Yes		Yes		Yes
Mussel	<i>Cyprogenia stegaria</i>	Eastern Fanshell Pearlymussel	Yes		Yes				Yes
Mussel	<i>Dromus dromas</i>	Dromedary Pearlymussel	Yes		Yes				Yes
Mussel	<i>Ellipsaria lineolata</i>	Butterfly			Yes	Yes			
Mussel	<i>Elliptio arca</i>	Alabama Spike	Yes	Yes		Yes			
Mussel	<i>Elliptio arcata</i>	Delicate Spike	Yes		Yes				
Mussel	<i>Epioblasma brevidens</i>	Cumberlandian Combshell	Yes		Yes	Yes			Yes
Mussel	<i>Epioblasma capsaeformis</i>	Oyster Mussel	Yes		Yes			Yes	Yes
Mussel	<i>Epioblasma florentina walkeri</i>	Tan Riffleshell			Yes				
Mussel	<i>Epioblasma obliquata obliquata</i>	Catspaw or Purple Cat's Paw Pearly Mussel			Yes				
Mussel	<i>Epioblasma othcaloagensis</i>	Southern Acornshell	Yes						
Mussel	<i>Epioblasma triquetra</i>	Snuffbox	Yes		Yes	Yes	Yes		Yes
Mussel	<i>Fusconaia barnesiana</i>	Tennessee Pigtoe		Yes		Yes			Yes
Mussel	<i>Fusconaia cuneolus</i>	Fine-rayed Pigtoe	Yes						Yes
Mussel	<i>Fusconaia edgariana</i>	Shiny Pigtoe							
Mussel	<i>Fusconaia subrotunda</i>	Longsolid	Yes	Yes	Yes				Yes
Mussel	<i>Hemistena lata</i>	Cracking Pearlymussel	Yes		Yes				Yes
Mussel	<i>Lampsilis abrupta</i>	Pink Mucket	Yes		Yes		Yes		Yes
Mussel	<i>Lampsilis atilis</i>	Fine-lined Pocketbook		Yes					
Mussel	<i>Lampsilis siliquoidea</i>	Falnmucket				Yes			
Mussel	<i>Lampsilis straminea claibornensis</i>	Southern Falnmucket							
Mussel	<i>Lampsilis virescens</i>	Alabama Lamprussel	Yes						
Mussel	<i>Lasmigona complanata complanata</i>	White Heelsplitter		Yes		Yes			
Mussel	<i>Lasmigona holstonia</i>	Tennessee Heelsplitter	Yes	Yes				Yes	Yes
Mussel	<i>Lasmigona subviridis</i>	Green Floater	Yes		Yes				Yes
Mussel	<i>Lemiox rimosus</i>	Birdwing Pearly Mussel	Yes						
Mussel	<i>Leptodea leptodon</i>	Scaleshell	Yes		Yes		Yes		
Mussel	<i>Lexingtonia dolabelloides</i>	Slabside Pearlymussel			Yes	Yes			Yes
Mussel	<i>Medionidius acutissimus</i>	Alabama Moccasinshell	Yes	Yes	Yes				
Mussel	<i>Medionidius conradicus</i>	Cumberland Moccasinshell	Yes	Yes	Yes			Yes	Yes
Mussel	<i>Medionidius parvulus</i>	Coosa Moccasinshell	Yes	Yes					
Mussel	<i>Obovaria jacksoniana</i>	Southern Hickorynut				Yes			
Mussel	<i>Obovaria olivaria</i>	Hickorynut	Yes				Yes		
Mussel	<i>Obovaria retusa</i>	Ring Pink	Yes		Yes				
Mussel	<i>Obovaria subrotunda</i>	Round Hickorynut	Yes	Yes	Yes				
Mussel	<i>Pegias fabula</i>	Little-wing Pearlymussel	Yes		Yes			Yes	Yes
Mussel	<i>Plethobasus cicatricosus</i>	White Wartyback	Yes						
Mussel	<i>Plethobasus cooperianus</i>	Orange-foot Pimpleback	Yes		Yes				
Mussel	<i>Plethobasus cyphus</i>	Sheepnose	Yes	Yes	Yes	Yes	Yes		Yes
Mussel	<i>Pleurobema clava</i>	Clubshell	Yes		Yes				
Mussel	<i>Pleurobema coccineum</i>	Round Pigtoe							
Mussel	<i>Pleurobema cordatum</i>	Ohio Pigtoe							Yes
Mussel	<i>Pleurobema decisum</i>	Southern Clubshell	Yes	Yes					
Mussel	<i>Pleurobema georgianum</i>	Southern Pigtoe	Yes	Yes					
Mussel	<i>Pleurobema gibberum</i>	Cumberland Pigtoe							
Mussel	<i>Pleurobema hanleyianum</i>	Georgia Pigtoe	Yes	Yes					
Mussel	<i>Pleurobema johannis</i>	Alabama Pigtoe							
Mussel	<i>Pleurobema oviforme</i>	Tennessee Clubshell	Yes		Yes			Yes	Yes
Mussel	<i>Pleurobema perovatum</i>	Ovale Clubshell	Yes	Yes					
Mussel	<i>Pleurobema plenum</i>	Rough Pigtoe	Yes		Yes				Yes
Mussel	<i>Pleurobema rubellum</i>	Warrior Pigtoe	Yes						
Mussel	<i>Pleurobema rubrum</i>	Pyramid Pigtoe	Yes		Yes				Yes
Mussel	<i>Pleurobema troschelianum</i>	Alabama Clubshell							
Mussel	<i>Ptychobranthus greeni</i>	Triangular Kidneyshell							

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Mussel	<i>Ptychobranthus subtenium</i>	Fluted Kidneyshell			Yes				Yes
Mussel	<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot			Yes	Yes	Yes		
Mussel	<i>Quadrula cylindrica strigilata</i>	Rough Rabbitsfoot Pearlmussel							
Mussel	<i>Quadrula fragosa</i>	Winged Mapleleaf			Yes				
Mussel	<i>Quadrula intermedia</i>	Cumberland Monkeyface	Yes						Yes
Mussel	<i>Quadrula sparsa</i>	Appalachian Monkeyface							Yes
Mussel	<i>Simpsoniias ambigua</i>	Salamander Mussel			Yes		Yes		
Mussel	<i>Strophitus connasaugaensis</i>	Alabama Creekmussel	Yes	Yes					
Mussel	<i>Strophitus undulatus</i>	Squawfoot or Creeper	Yes			Yes		Yes	Yes
Mussel	<i>Toxolasma cylindrellus</i>	Pale Lilliput		Yes	Yes				
Mussel	<i>Toxolasma lividus</i>	Purple Lilliput		Yes	Yes			Yes	Yes
Mussel	<i>Truncilla donaciformis</i>	Fawnsfoot		Yes					
Mussel	<i>Unio merus declivis</i>	Tapered Pondhorn				Yes			
Mussel	<i>Villosa fabalis</i>	Rayed Bean	Yes		Yes				Yes
Mussel	<i>Villosa lenosa</i>	Little Spectaclecase			Yes				
Mussel	<i>Villosa nebulosa</i>	Alabama Rainbow		Yes					
Mussel	<i>Villosa perpurpurea</i>	Purple Bean							Yes
Mussel	<i>Villosa taeniata</i>	Painted Creekshell							
Mussel	<i>Villosa trabalis</i>	Cumberland Bean	Yes	Yes	Yes			Yes	Yes
Mussel	<i>Villosa vanuxemensis umbrans</i>	Coosa Creekshell		Yes					
Mussel	<i>Villosa vibex</i>	Southern Rainbow						Yes	
Reptile	<i>Apalone mutica</i>	Smooth Softshell Turtle							
Reptile	<i>Apalone spinifera</i>	Spiny Softshell Turtle							Yes
Reptile	<i>Crotalus horridus</i>	Timber Rattlesnake			Yes		Yes	Yes	Yes
Reptile	<i>Eumeces anthracinus</i>	Coal Skink	Yes	Yes	Yes			Yes	
Reptile	<i>Glyptemys muhlenbergii</i>	Bog Turtle		Yes					
Reptile	<i>Heterodon platirhinos</i>	Eastern Hognosed Snake						Yes	
Reptile	<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	Yes	Yes	Yes	Yes	Yes		
Reptile	<i>Masticophis flagellum</i>	Coachwhip							
Reptile	<i>Nerodia cyclopion</i>	Green Water Snake			Yes				
Reptile	<i>Nerodia erythrogaster flavigaster</i>	Yellowbelly Water Snake							
Reptile	<i>Nerodia erythrogaster neglecta</i>	Copperbelly Water Snake			Yes				
Reptile	<i>Ophisaurus attenuatus longicaudus</i>	Eastern Slender Glass Lizard			Yes			Yes	
Reptile	<i>Pituophis melanoleucus melanoleucus</i>	Northern Pine Snake	Yes	Yes	Yes	Yes		Yes	
Reptile	<i>Sistrurus miliarius streckeri</i>	Western Pigmy Rattlesnake			Yes				
Reptile	<i>Virginia striatula</i>	Rough Earth Snake							
Roundworm	<i>Cambarincola alienus</i>	(a cave obligate roundworm)							
Roundworm	<i>Cambarincola leptadenus</i>	(a cave obligate roundworm)							
Roundworm	<i>Cambarincola marthae</i>	(a cave obligate roundworm)							
Roundworm	<i>Trichodrilus allegheniensis</i>	(a cave obligate roundworm)							
Snail	<i>Anguispira alabama</i>	Alabama Tigersnail							
Snail	<i>Anguispira cumberlandiana</i>	Cumberland Tigersnail							
Snail	<i>Anguispira knoxensis</i>	Rustic Tigersnail or Black Range Disc							
Snail	<i>Anguispira kochi</i>	Banded Tigershell							
Snail	<i>Anguispira picta</i>	Painted Tigershell or Painted Disc							
Snail	<i>Carychium stygium</i>	Cave Thorn							
Snail	<i>Daedalochila auriformis</i>	Rockpile Liptooth							
Snail	<i>Discus bryanti</i>	Sawtooth Disc							
Snail	<i>Discus clappi</i>	Channelled Disc							
Snail	<i>Elimia acuta</i>	Acute Elimia							
Snail	<i>Elimia arachnoidea</i>	Spider Elimia							
Snail	<i>Elimia aterina</i>	Coal Elimia							Yes
Snail	<i>Elimia interrupta</i>	Knotty Elimia						Yes	
Snail	<i>Elimia porrecta</i>	Nymph Elimia							
Snail	<i>Elimia striatula</i>	File Elimia		Yes					
Snail	<i>Elimia strigosa</i>	Brook Elimia							
Snail	<i>Elimia teres</i>	Elegant Elimia							
Snail	<i>Elimia troostiana</i>	Mossy Elimia							
Snail	<i>Euchemotrema fraternum montanum</i>	(a pillsnail)							
Snail	<i>Fumonelix archeri</i>	Ocoee Covert							
Snail	<i>Fumonelix christyi</i>	Glossy Covert							Yes
Snail	<i>Fumonelix jonesiana</i>	Big-tooth Covert (= Newfound Gap Helix)							
Snail	<i>Fumonelix orestes</i>	Engraved Covert							
Snail	<i>Fumonelix wetherbyi</i>	Clifty Covert							
Snail	<i>Fumonelix wheatleyi</i>	Cinnamon Covert							Yes
Snail	<i>Fumonelix wheatleyi clingmanicus</i>	Clingman Covert							
Snail	<i>Gastrodonta fonticula</i>	Appalachia Bellytooth							Yes
Snail	<i>Glyphyalinia junaluskana</i>	Dark Glyph							
Snail	<i>Glyphyalinia ocoae</i>	Blue-gray Glyph							
Snail	<i>Glyphyalinia pentadelphina</i>	Pink Glyph							
Snail	<i>Glyphyalinia rimula</i>	Tongued Glyph							
Snail	<i>Glyphyalinia vanattai</i>	Honey Glyph							
Snail	<i>Haplotrema kendeighi</i>	Blue-footed Lanceltooth							
Snail	<i>Helicodiscus aldrichianus</i>	Burrowing Coil							
Snail	<i>Helicodiscus enneodon</i>	Bluff Coil							
Snail	<i>Helicodiscus fimbriatus</i>	Fringed Coil							
Snail	<i>Helicodiscus hadenoecus</i>	Cricket Coil or Cave Disc Snail							
Snail	<i>Helicodiscus hexodon</i>	Toothy Coil							
Snail	<i>Helicodiscus notius specus</i>	(a cave snail)							
Snail	<i>Helicodiscus punctatellus</i>	Punctate Coil							
Snail	<i>Infectarius downieanus</i>	Dwarf Globelet							
Snail	<i>Infectarius ferrissi</i>	Smokey Mountain Covert							
Snail	<i>Infectarius kaimianus</i>	Brown Globelet							Yes
Snail	<i>Infectarius smithi</i>	Alabama Shagreen							
Snail	<i>Infectarius subpallidus</i>	Velvet Covert							
Snail	<i>Io fluviatilis</i>	Spiny Riversnail	Yes						Yes
Snail	<i>Leptoxis crassa</i>	Boulder Snail		Yes					
Snail	<i>Leptoxis crassa anthonyi</i>	Anthony's River Snail		Yes					
Snail	<i>Leptoxis praerosa</i>	Onyx Rocksnail		Yes					Yes
Snail	<i>Leptoxis umbilicata</i>	Umbilicate Rocksnail							
Snail	<i>Leptoxis virgata</i>	Smooth Mudalia	Yes						

Taxonomic Group	Scientific Name	Common Name	AL	GA	KY	MS	MO	NC	VA
Snail	<i>Lithasia amigera</i>	Armored Rocksnail	Yes						
Snail	<i>Lithasia duttoniana</i>	Helmet Rocksnail							
Snail	<i>Lithasia geniculata fuliginosa</i>	Geniculate River Snail							
Snail	<i>Lithasia geniculata pinguis</i>	Small Geniculate River Snail							
Snail	<i>Lithasia jayana</i>	Rugose Rocksnail							
Snail	<i>Lithasia lima</i>	Warty Rocksnail	Yes						
Snail	<i>Lithasia salebrosa</i>	Muddy Rocksnail or Rustic Rocksnail	Yes						
Snail	<i>Marsstonia ogmorhaphae</i>	Royal Springsnail							
Snail	<i>Megapallifera wetherbyi</i>	Blotchy Mantleslug							
Snail	<i>Mesodon allivagus</i>	Wandering Globe							
Snail	<i>Mesodon andrewsae</i>	Balsam Globe							
Snail	<i>Mesodon sanus</i>	Squat Globelet							
Snail	<i>Mesomphix andrewsae</i>	Mountain Button							
Snail	<i>Mesomphix rugell</i>	Wrinkled Button							Yes
Snail	<i>Mesomphix subplanus</i>	Flat Button							
Snail	<i>Pallifera hemphilli</i>	Black Mantleslug							Yes
Snail	<i>Paravitrea alethia</i>	Goddess Supercoil							
Snail	<i>Paravitrea andrewsae</i>	High Mountain Supercoil							
Snail	<i>Paravitrea bellona</i>	Club Supercoil							
Snail	<i>Paravitrea blarina</i>	Shrew Supercoil							Yes
Snail	<i>Paravitrea calcicola</i>	Pearl Supercoil							Yes
Snail	<i>Paravitrea clappi</i>	Mirey Ridge Supercoil							
Snail	<i>Paravitrea lamellidens</i>	Lamellate Supercoil							
Snail	<i>Paravitrea lapilla</i>	Gem Supercoil							
Snail	<i>Paravitrea metallacta</i>	Caney Fork Supercoil							
Snail	<i>Paravitrea petrophila</i>	Cherokee Supercoil							
Snail	<i>Paravitrea placentula</i>	Glossy Supercoil							Yes
Snail	<i>Paravitrea reesei</i>	Round Supercoil							Yes
Snail	<i>Paravitrea subtilis</i>	Slender Supercoil							Yes
Snail	<i>Paravitrea tantilla</i>	Teasing Supercoil							
Snail	<i>Paravitrea ternaria</i>	Sculpted Supercoil							
Snail	<i>Paravitrea tridens</i>	White-foot Supercoil							
Snail	<i>Paravitrea umbilicaris</i>	Open Supercoil							
Snail	<i>Paravitrea variabilis</i>	Variable Supercoil							
Snail	<i>Paravitrea varidens</i>	Roan Supercoil							
Snail	<i>Palera clarki</i>	Dwarf Proud Globe							
Snail	<i>Philomycus sellatus</i>	Alabama Mantleslug							Yes
Snail	<i>Philomycus virginicus</i>	Virginia Mantleslug							Yes
Snail	<i>Pilsbryna aurea</i>	Ornate Bud							
Snail	<i>Pilsbryna castanea</i>	Prominent Bud							
Snail	<i>Pleurocera corpulenta</i>	Corpulent Hornsnail	Yes						
Snail	<i>Pleurocera curta</i>	Shortspire Hornsnail							
Snail	<i>Pleurocera trochiformis</i>	Sulcate Hornsnail		Yes					
Snail	<i>Pleurocera walkeri</i>	Telescope Hornsnail							
Snail	<i>Rhodacme elatior</i>	Domed Ancylid							
Snail	<i>Somatogyryus aureus</i>	Golden Pebblesnail							
Snail	<i>Somatogyryus parvulus</i>	Sparrow Pebblesnail							
Snail	<i>Somatogyryus sp. 2</i>	Hiwassee Pebblesnail							
Snail	<i>Somatogyryus tennesseensis</i>	Opaque Pebblesnail							
Snail	<i>Stenotrema altispira</i>	Highland Siltmouth							Yes
Snail	<i>Stenotrema angellum</i>	Kentucky Siltmouth							
Snail	<i>Stenotrema barbigerum</i>	Fringed Siltmouth							
Snail	<i>Stenotrema calvescens</i>	Chattanooga Siltmouth							
Snail	<i>Stenotrema cohullense</i>	Cohutta Siltmouth							
Snail	<i>Stenotrema deceptum</i>	Monte Sano Siltmouth							
Snail	<i>Stenotrema depilatum</i>	Great Smoky Siltmouth							
Snail	<i>Stenotrema edgarianum</i>	Sequalchie Siltmouth							
Snail	<i>Stenotrema exodon</i>	Alabama Siltmouth							
Snail	<i>Stenotrema magnafumosum</i>	Appalachian Siltmouth							
Snail	<i>Stenotrema pilula</i>	Pygmy Siltmouth							Yes
Snail	<i>Stenotrema spinosum</i>	Carinate Siltmouth							Yes
Snail	<i>Stenotrema waldense</i>	Doaks Creek Siltmouth							
Snail	<i>Striatura exigua</i>	Ribbed Striate							Yes
Snail	<i>Succinea greeri</i>	Dryland Ambersnail							
Snail	<i>Triodopsis anteridon</i>	Carter Three-tooth or Buttress Three-tooth							Yes
Snail	<i>Triodopsis claibornensis</i>	Claiborne Three-tooth							
Snail	<i>Triodopsis tennesseensis</i>	Budded Three-tooth							Yes
Snail	<i>Ventridens arcellus</i>	Golden Dome							Yes
Snail	<i>Ventridens coelaxis</i>	Bidentate Dome							Yes
Snail	<i>Ventridens decussatus</i>	Crossed Dome							Yes
Snail	<i>Ventridens eutropis</i>	Carinate Dome							
Snail	<i>Ventridens lasmodon</i>	Hollow Dome							Yes
Snail	<i>Ventridens lawae</i>	Rounded Dome							Yes
Snail	<i>Ventridens percallosus</i>	Tennessee Dome							
Snail	<i>Vertigo clappi</i>	Cupped Vertigo							Yes
Snail	<i>Vertigo parvula</i>	Smallmouth Vertigo							Yes
Snail	<i>Vertigo pygmaea</i>	Crested Vertigo							
Snail	<i>Vertigo leskeyae</i>	Swamp Vertigo							Yes
Snail	<i>Webbhelix multilineata</i>	Striped Whitelip							
Snail	<i>Xolotrema carolinense</i>	Blunt Wedge							
Snail	<i>Xolotrema abstrictum</i>	Sharp Wedge							
Snail	<i>Zonitoides lateumbilicatus</i>	Striate Gloss							
Tardigrade	<i>Calohypsibius schusteri</i>	Schuster's Tardigrade							
Tardigrade	<i>Hypsibius roanensis</i>	Roan Tardigrade							

APPENDIX C. Population, Goals, & Viability Information for GCN Species

TERRESTRIAL FAUNA											
Region/Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Subregional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Occ. Grp.	# Obs.	Avg. Viability
UGCP	Upper Loam Hills	1 Vertebrate - Amphibian	AAABC02100	Hyla gratiosa (Barking Treefrog)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Widespread	1	4	4	8	8	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Widespread	2	5	5	11	11	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Widespread	3	6	6	8	8	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Widespread	1	3	1	3	3	12.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Widespread	5	11	11	22	22	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Widespread	2	3	3	3	3	28.7
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Widespread	5	10	10	14	14	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Widespread	1	1	1	2	2	34.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX08010	Helminthos vermivorus (Worm-eating Warbler)	Widespread	2	3	3	3	3	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX19010	Hylocichla mustelina (Wood Thrush)	Widespread	5	12	12	17	17	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX9070	Icterus spurius (Orchard Oriole)	Widespread	5	13	13	20	20	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBR01030	Lanius ludovicianus (Loggerhead Shrike)	Widespread	2	8	8	9	9	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX09010	Limothypis swainsonii (Swainson's Warbler)	Widespread	1	4	2	5	5	14.5
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Widespread	2	7	7	8	8	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Widespread	5	11	11	12	12	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Widespread	2	6	6	10	10	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Widespread	2	7	7	8	8	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Widespread	3	9	9	18	18	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Widespread	1	1	1	1	1	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Widespread	1	1	1	1	1	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Widespread	1	2	2	2	2	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Widespread	2	3	3	3	3	24.0
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Widespread	1	2	2	2	2	39.0
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMABA01060	Sorex longirostris (Southeastern Shrew)	Widespread	2	2	0	2	2	6.5
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMAJF05010	Spilogale putorius (Eastern Spotted Skunk)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Widespread	3	4	2	4	4	21.8
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARADB17020	Heterodon platirhinus (Eastern Hognosed Snake)	Widespread	1	1	0	1	1	6.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Widespread	1	1	1	1	1	33.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARADE03023	Sistrurus mliarius streckeri (Western Pigmy Rattlesnake)	Peripheral	2	1	0	2	2	25.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	1 Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Widespread	1	1	0	1	1	5.0
UGCP	Upper Loam Hills	2 Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Peripheral	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	3 Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Widespread	1	0	0	0	0	0.0
UGCP	Upper Loam Hills	3 Vertebrate - Bird	ABNNF19020	Scolopax minor (American Woodcock)	Widespread	1	2	2	2	2	24.0
UGCP	Upper Loam Hills	3 Vertebrate - Mammal	AMACC01040	Myotis grisescens (Gray Bat)	Widespread	1	1	0	1	1	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Amphibian	AAABC02100	Hyla gratiosa (Barking Treefrog)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Widespread	5	3	3	8	8	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Widespread	1	1	1	31	31	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Widespread	2	2	2	24	24	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Widespread	1	2	2	2	2	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Widespread	5	6	6	12	12	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Widespread	2	5	5	6	6	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Widespread	3	3	3	15	15	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX08010	Helminthos vermivorus (Worm-eating Warbler)	Widespread	4	4	4	10	10	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX19010	Hylocichla mustelina (Wood Thrush)	Widespread	3	3	3	22	22	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX9070	Icterus spurius (Orchard Oriole)	Widespread	4	4	4	17	17	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBR01030	Lanius ludovicianus (Loggerhead Shrike)	Widespread	1	4	4	12	12	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Widespread	1	1	1	1	1	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Widespread	5	5	5	13	13	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Widespread	1	2	2	5	5	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Widespread	3	3	3	15	15	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Widespread	2	4	3	4	4	19.3
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Widespread	3	3	3	5	5	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Widespread	3	3	3	6	6	24.0
UGCP	Transition Loam Hills	1 Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Mammal	AMAJF05010	Spilogale putorius (Eastern Spotted Skunk)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARADB17020	Heterodon platirhinus (Eastern Hognosed Snake)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Widespread	2	0	0	0	0	0.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARADE03023	Sistrurus mliarius streckeri (Western Pigmy Rattlesnake)	Peripheral	1	1	0	1	1	6.0
UGCP	Transition Loam Hills	1 Vertebrate - Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	2 Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Peripheral	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	3 Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	3 Vertebrate - Bird	ABNKC10010	Haliaeetus leucoccephalus (Bald Eagle)	Widespread	1	1	1	1	1	30.0
UGCP	Transition Loam Hills	3 Vertebrate - Bird	ABNNF19020	Scolopax minor (American Woodcock)	Widespread	1	0	0	0	0	0.0
UGCP	Transition Loam Hills	3 Vertebrate - Mammal	AMACC01040	Myotis grisescens (Gray Bat)	Widespread	1	0	0	0	0	0.0
ILP	Western Highland Rim	1 Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Peripheral	2	1	1	1	1	40.0
ILP	Western Highland Rim	1 Vertebrate - Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Widespread	4	2	0	3	6	7.0

TERRESTRIAL FAUNA											
Region/Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Subregional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Occ. Grp.	# Obs.	Avg. Viability
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX08010	Helminthos vermivorus (Worm-eating Warbler)	Widespread	5	5	5	38	38	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX19010	Hylocichla mustelina (Wood Thrush)	Widespread	5	6	6	57	57	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBR01030	Lanius ludovicianus (Loggerhead Shrike)	Widespread	1	1	1	1	1	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX09010	Limothlypis swainsonii (Swainson's Warbler)	Widespread	2	5	4	14	14	23.2
SBR	Unaka Mountains	1 Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Widespread	2	2	2	2	2	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Widespread	5	10	10	26	26	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Widespread	4	4	4	6	6	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX95010	Pooecetes gramineus (Vesper Sparrow)	Widespread	5	5	5	12	12	26.8
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX05010	Regulus satrapa (Golden-crowned Kinglet)	Widespread	2	2	2	3	3	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Widespread	5	10	10	24	24	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Widespread	2	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABNYF05010	Sphyrapicus varius (Yellow-bellied Sapsucker)	Widespread	1	1	1	1	1	39.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Widespread	1	1	0	1	1	2.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Widespread	3	5	5	7	7	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Widespread	1	1	0	1	1	6.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX01030	Vermivora chrysoplera (Golden-winged Warbler)	Widespread	3	2	2	4	4	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Widespread	1	1	1	1	1	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Widespread	4	11	11	18	18	24.0
SBR	Unaka Mountains	1 Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Widespread	5	4	4	53	53	24.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABB05010	Condylura cristata (Star-nosed Mole)	Widespread	5	9	2	10	10	12.3
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Endemic	3	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Widespread	2	1	1	1	1	38.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Widespread	5	16	8	18	21	18.6
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematareia (Southern Appalachian Woodrat)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Widespread	7	7	1	7	7	10.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABB03010	Parascalops breweri (Hairy-tailed Mole)	Widespread	6	9	3	12	12	15.1
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01010	Sorex cinereus (Common Shrew)	Widespread	9	18	13	35	38	28.9
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01210	Sorex dispar (Long-tailed or Rock Shrew)	Widespread	9	7	3	12	13	17.3
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01180	Sorex fumeus (Smoky Shrew)	Widespread	5	30	16	49	52	19.7
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01250	Sorex hoyi (Pygmy Shrew)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01060	Sorex longirostris (Southeastern Shrew)	Widespread	1	2	1	2	2	19.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMABA01150	Sorex palustris (Water Shrew)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAJF05010	Spilogale putorius (Eastern Spotted Skunk)	Widespread	3	2	1	2	2	18.0
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Widespread	2	5	0	6	6	4.8
SBR	Unaka Mountains	1 Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Widespread	5	6	2	6	6	15.8
SBR	Unaka Mountains	1 Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	1 Vertebrate - Reptile	ARAAD02040	Glyptemys muhlenbergii (Bog Turtle)	Widespread	5	3	3	4	5	47.3
SBR	Unaka Mountains	1 Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Widespread	1	1	0	2	2	3.0
SBR	Unaka Mountains	1 Vertebrate - Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	2 Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Endemic	2	0	0	0	0	0.0
SBR	Unaka Mountains	2 Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Widespread	1	1	1	1	1	35.0
SBR	Unaka Mountains	2 Invertebrate - Tardigrade	IRPRT02010	Calohypsibius schusteri (Schuster's Tardigrade)	Endemic	3	1	1	1	1	38.0
SBR	Unaka Mountains	2 Invertebrate - Tardigrade	IRPRT03010	Hypsibius roanensis (Roan Tardigrade)	Endemic	3	1	1	1	1	28.0
SBR	Unaka Mountains	3 Invertebrate - Arachnid	ILARA33010	Microhexura montivaga (Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula)	Endemic	2	1	1	2	2	38.0
SBR	Unaka Mountains	3 Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Widespread	2	1	1	3	3	38.0
SBR	Unaka Mountains	3 Vertebrate - Bird	ABNNF19020	Scolopax minor (American Woodcock)	Widespread	1	2	2	2	2	24.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMACC08012	Corynorhinus townsendii virginianus (Virginia Big-eared Bat)	Endemic	1	0	0	0	0	0.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMAFB09022	Glaucomys sabrinus coloratus (Carolina Northern Flying Squirrel)	Endemic	6	2	2	2	3	51.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMAEB03010	Lepus americanus (Snowshoe Hare)	Peripheral	1	1	0	1	1	4.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMACC01040	Myotis grisescens (Gray Bat)	Widespread	1	1	1	3	3	40.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMACC01100	Myotis sodalis (Indiana Bat)	Widespread	1	0	0	0	0	0.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMAEB01050	Sylvilagus transitionalis (Appalachian Cottontail (= New England Cottontail))	Widespread	1	1	1	1	1	34.0
SBR	Unaka Mountains	3 Vertebrate - Mammal	AMAFB08010	Tamiasciurus hudsonicus (Red Squirrel)	Widespread	3	0	0	0	0	0.0

AQUATIC FAUNA											
Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability	
MS	CP	1	Invertebrate - Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Widespread	5	1	1	35.0	
MS	CP	1	Invertebrate - Bivalve	IMBIV31010	Obovaria jacksoniana (Southern Hickorynut)	Disjunct	5	4	2	6	23.5
MS	CP	1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Widespread	2	1	0	1	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	3	0	3	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	1	0	1	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Widespread	5	0	0	0	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV46020	Uniomereus declivis (Tapered Pondhorn)	Peripheral	3	0	0	0	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Widespread	5	5	0	5	0.0
MS	CP	1	Invertebrate - Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Disjunct	4	3	1	7	16.3
MS	CP	1	Invertebrate - Crustacean	ICMAL15140	Fallicambarus hortonii (Hatchie Burrowing Crayfish)	Endemic	3	1	1	1	35.0
MS	CP	1	Vertebrate - Fish	AFCQC01020	Ammocrypta beani (Naked Sand Darter)	Limited	10	9	6	16	26.8
MS	CP	1	Vertebrate - Fish	AFCQC01070	Ammocrypta vivax (Scaly Sand Darter)	Limited	6	3	2	5	26.0
MS	CP	1	Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	8	8	3	10	18.5
MS	CP	1	Vertebrate - Fish	AFCQC02E60	Etheostoma cervus (Chickasaw Darter)	Endemic	10	12	10	67	34.4
MS	CP	1	Vertebrate - Fish	AFCQC02990	Etheostoma pyrrhogaster (Firebelly Darter)	Endemic	15	15	13	32	28.5
MS	CP	1	Vertebrate - Fish	AFCNB04030	Fundulus chrysolus (Golden Topminnow)	Peripheral	5	2	1	8	19.0
MS	CP	1	Vertebrate - Fish	AFCBA02010	Lepisosteus spatula (Alligator Gar)	Widespread	5	3	1	3	15.0
MS	CP	1	Vertebrate - Fish	AFCJB53020	Macrhybopsis gelida (Sturgeon Chub)	Peripheral	3	1	0	1	7.0
MS	CP	1	Vertebrate - Fish	AFCJB53030	Macrhybopsis meeki (Sicklefin Chub)	Peripheral	3	1	1	1	33.0
MS	CP	1	Vertebrate - Fish	AFCCKA02220	Noturus stigmosus (Northern Madtom)	Widespread	15	20	7	30	17.1
MS	CP	1	Vertebrate - Reptile	ARAAG01020	Apalone mutica (Smooth Softshell Turtle)	Widespread	5	1	0	57	6.0
MS	CP	1	Vertebrate - Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Widespread	5	3	2	3	25.3
MS	CP	2	Invertebrate - Insect	IIDO012090	Ophiogomphus howei (Howe's Dragonfly)	Widespread	2	2	0	3	0.0
MS	CP	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	5	0	0	0	0.0
MS	CP	3	Vertebrate - Fish	AFCAA02010	Scaphirhynchus albus (Pallid Sturgeon)	Widespread	5	3	3	3	30.0
BR		1	Invertebrate - Crustacean	ICMAL49010	Barbicambarus cornutus (Bottlebrush Crayfish)	Endemic	3	0	0	0	0.0
BR		1	Invertebrate - Crustacean	ICMAL11330	Orconectes barrenensis (a crayfish)	Endemic	6	0	0	0	0.0
BR		1	Vertebrate - Fish	AFCQC02040	Etheostoma barbouri (Teardrop Darter)	Endemic	5	3	1	5	15.7
BR		1	Vertebrate - Fish	AFCQC02900	Etheostoma barrenense (Splendid Darter)	Endemic	10	9	8	27	33.2
BR		1	Vertebrate - Fish	AFCQC02050	Etheostoma bellum (Orangefin Darter)	Endemic	10	8	6	23	29.0
BR		1	Vertebrate - Fish	AFCQC02420	Etheostoma maculatum (Spotted Darter)	Endemic	5	0	0	0	0.0
BR		1	Vertebrate - Fish	AFCQC04120	Percina macrocephala (Longhead Darter)	Widespread	3	1	0	1	5.0
BR		1	Vertebrate - Fish	AFCJC13010	Thoburnia atripinnis (Blackfin Sucker)	Endemic	5	4	3	18	30.8
BR		2	Invertebrate - Insect	IIPLE01030	Allocaupnia cunninghami (Karst Snowfly)	Endemic	1	1	1	2	40.0
CO		1	Invertebrate - Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Peripheral	2	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Peripheral	2	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV21211	Lampsilis straminea claibornensis (Southern Fatmucket)	Limited	1	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	1	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Endemic	2	2	1	2	19.5
CO		1	Invertebrate - Bivalve	IMBIV35170	Pleurobema johannis (Alabama Pigtoe)	Endemic	1	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV35280	Pleurobema rubellum (Warrior Pigtoe)	Endemic	1	1	0	1	0.0
CO		1	Invertebrate - Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Endemic	1	1	1	3	41.0
CO		1	Invertebrate - Bivalve	IMBIV42010	Strophitus connasaugaensis (Alabama Creekmussel)	Endemic	3	2	2	9	42.5
CO		1	Invertebrate - Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Endemic	2	1	1	4	41.0
CO		1	Invertebrate - Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Endemic	2	2	0	2	0.0
CO		1	Invertebrate - Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Widespread	1	1	1	4	40.0
CO		1	Invertebrate - Crustacean	ICMAL07450	Cambarus cymatilis (Conasauga Blue Burrower Crayfish)	Endemic	2	0	0	0	0.0
CO		1	Invertebrate - Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Endemic	2	1	0	3	6.0
CO		1	Invertebrate - Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Endemic	1	0	0	0	0.0
CO		1	Invertebrate - Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Limited	1	0	0	0	0.0
CO		1	Vertebrate - Fish	AFCQC02A40	Etheostoma brevirostrum (Holiday or Ellijay Darter)	Endemic	3	2	2	7	41.5
CO		1	Vertebrate - Fish	AFCQC02190	Etheostoma ditrema (Coldwater Darter)	Endemic	2	1	0	5	7.0
CO		1	Vertebrate - Fish	AFCQC02650	Etheostoma rupestre (Rock Darter)	Limited	2	1	1	1	31.0
CO		1	Vertebrate - Fish	AFCQC02810	Etheostoma trisella (Trispot Darter)	Endemic	2	1	1	15	47.0
CO		1	Vertebrate - Fish	AFCJB15040	Hybopsis lineapunctata (Lined Chub)	Endemic	2	0	0	0	0.0
CO		1	Vertebrate - Fish	AFBAA01040	Ichthyomyzon gagei (Southern Brook Lamprey)	Peripheral	2	2	2	4	34.0
CO		1	Vertebrate - Fish	AFCJB28110	Notropis asperifrons (Burrhead Shiner)	Endemic	2	1	1	2	40.0
CO		1	Vertebrate - Fish	AFCJB28360	Notropis chrosomus (Rainbow Shiner)	Endemic	3	1	1	4	43.0
CO		1	Vertebrate - Fish	AFCCKA02170	Noturus munitus (Frecklebelly Madtom)	Limited	2	1	0	1	6.0
CO		1	Vertebrate - Fish	AFCQC04X30	Percina sp. 3 (Muscadine Darter)	Endemic	2	1	1	1	40.0
CO		1	Vertebrate - Fish	AFCQC04340	Percina sp. 9 (Upland Bridled Darter)	Endemic	2	1	1	4	42.0
CO		1	Vertebrate - Fish	AFCJB30010	Phenacobius castotomus (Rifle Minnow)	Endemic	2	1	1	2	39.0
CO		2	Invertebrate - Insect	IIDO008080	Gomphus consanguis (Cherokee Clubtail Dragonfly)	Limited	1	1	0	1	6.0
CO		2	Invertebrate - Insect	IIDO012210	Ophiogomphus alleghaniensis (Allegheny Snaketail)	Limited	1	1	0	1	6.0
CO		2	Invertebrate - Insect	IIDO012080	Ophiogomphus edmundi (Edmund's Snaketail)	Limited	1	1	1	1	35.0
CO		3	Invertebrate - Bivalve	IMBIV16120	Epioblasma othcaloogensis (Southern Acornshell)	Endemic	2	1	0	1	0.0
CO		3	Invertebrate - Bivalve	IMBIV21010	Lampsilis allisii (Fine-lined Pocketbook)	Endemic	3	3	3	9	40.0
CO		3	Invertebrate - Bivalve	IMBIV28010	Medionidus acutissimus (Alabama Moccasinshell)	Endemic	1	1	1	6	44.0
CO		3	Invertebrate - Bivalve	IMBIV28040	Medionidus parvulus (Coosa Moccasinshell)	Endemic	1	1	1	9	47.0
CO		3	Invertebrate - Bivalve	IMBIV35110	Pleurobema decisum (Southern Clubshell)	Endemic	1	0	0	0	0.0
CO		3	Invertebrate - Bivalve	IMBIV35140	Pleurobema georgianum (Southern Pigtoe)	Endemic	2	2	2	14	44.5
CO		3	Invertebrate - Bivalve	IMBIV35230	Pleurobema perovatum (Ovate Clubshell)	Endemic	1	1	1	2	35.0
CO		3	Invertebrate - Bivalve	IMBIV38020	Ptychobranthus greeni (Triangular Kidneyshell)	Endemic	1	2	2	4	38.0
CO		3	Vertebrate - Fish	AFCJB49020	Cyprinella caerulea (Blue Shiner)	Endemic	2	2	2	9	43.0
CO		3	Vertebrate - Fish	AFCQC04010	Percina antesella (Amber Darter)	Endemic	2	2	0	6	6.0

AQUATIC FAUNA										
Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops	# Current Pops.	# Obs.	Avg. Viability
CO		3 Vertebrate - Fish	AFCQC04320	Percina jenkinsi (Conasauga Logperch or Reticulate Logperch)	Endemic	3	2	1	7	36.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	2	1	0	1	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	2	0	2	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	5	5	0	5	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	1	2	0	2	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	1	6	0	6	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Widespread	3	1	1	1	37.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Widespread	3	5	0	5	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	2	6	0	6	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	4	0	4	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	2	0	2	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	5	10	0	11	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	3	0	3	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Widespread	3	5	0	5	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	1	0	1	0.0
CU	LCU	1 Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	3	7	0	7	0.0
CU	LCU	1 Invertebrate - Crustacean	ICMAL07370	Cambarus brachydactylus (Shortfingered Crayfish)	Endemic	6	3	0	3	3.7
CU	LCU	1 Invertebrate - Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnail)	Limited	1	0	0	0	0.0
CU	LCU	1 Invertebrate - Gastropod	IMGASK6041	Lithasia geniculata fuliginosa (Genuiculate River Snail)	Limited	1	2	0	2	6.0
CU	LCU	1 Invertebrate - Gastropod	IMGASK6060	Lithasia jayana (Rugose Rocksnail)	Endemic	1	0	0	0	0.0
CU	LCU	1 Invertebrate - Gastropod	IMGASK6090	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	Limited	1	2	0	2	5.5
CU	LCU	1 Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	4	7	1	10	8.6
CU	LCU	1 Vertebrate - Fish	AFCAA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	3	1	0	1	5.0
CU	LCU	1 Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	2	3	1	3	14.3
CU	LCU	1 Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	1	0	0	0	0.0
CU	LCU	1 Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	4	0	0	0	0.0
CU	LCU	1 Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	1	1	0	1	4.0
CU	LCU	1 Vertebrate - Fish	AFCQC02440	Etheostoma microlepidum (Finescale Darter)	Endemic	7	4	2	7	21.8
CU	LCU	1 Vertebrate - Fish	AFCQC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	3	2	2	4	37.0
CU	LCU	1 Vertebrate - Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Widespread	2	1	1	2	50.0
CU	LCU	2 Invertebrate - Insect	I1OD012010	Ophiogomphus acuminatus (Tennessee Snaketail or Acuminate Snaketail)	Limited	10	5	5	5	35.4
CU	LCU	3 Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	8	0	8	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	1	8	0	8	0.3
CU	LCU	3 Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	1	2	0	2	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	Limited	1	7	0	8	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Widespread	5	5	0	5	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	1	1	0	1	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	2	5	0	5	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	Widespread	1	5	0	5	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	1	5	0	5	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Limited	2	4	0	4	0.0
CU	LCU	3 Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	1	1	0	1	0.0
CU	LCU	3 Invertebrate - Crustacean	ICMAL11160	Orconectes shoupi (Nashville Crayfish)	Endemic	6	2	2	64	54.5
CU	LCU	3 Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	3	0	0	0	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	1	0	1	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	3	3	0	3	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	1	1	0	1	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV28020	Medionidion conradicus (Cumberland Moccasinshell)	Limited	1	2	0	2	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Widespread	1	1	0	1	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	1	1	0	1	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	2	0	2	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	3	0	4	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	4	0	4	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	1	1	0	1	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	2	0	2	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Widespread	1	2	0	2	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	2	0	2	0.0
CU	NB	1 Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	3	7	0	10	0.0
CU	NB	1 Invertebrate - Crustacean	ICMAL07920	Cambarus williamsi (Stones River Crayfish)	Endemic	10	2	2	14	58.5
CU	NB	1 Invertebrate - Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnail)	Limited	1	1	0	1	5.0
CU	NB	1 Invertebrate - Gastropod	IMGASK6060	Lithasia jayana (Rugose Rocksnail)	Endemic	1	0	0	0	0.0
CU	NB	1 Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	2	2	0	3	5.5
CU	NB	1 Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	2	0	0	0	0.0
CU	NB	1 Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	1	0	0	0	0.0
CU	NB	1 Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	4	0	0	0	0.0
CU	NB	1 Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	1	1	0	1	5.0
CU	NB	1 Vertebrate - Fish	AFCQC02440	Etheostoma microlepidum (Finescale Darter)	Endemic	8	4	1	5	11.0
CU	NB	1 Vertebrate - Fish	AFCQC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Endemic	5	1	1	3	34.0
CU	NB	1 Vertebrate - Fish	AFCQC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	1	1	0	1	5.0
CU	NB	1 Vertebrate - Fish	AFCJB14010	Hemitremia flammea (Flame Chub)	Limited	3	1	0	1	2.0
CU	NB	1 Vertebrate - Fish	AFCJB28B20	Notropis rupestris (Bedrock Shiner)	Endemic	15	13	2	20	12.8
CU	NB	1 Vertebrate - Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Widespread	3	2	0	2	6.5
CU	NB	2 Invertebrate - Insect	I1PLE01250	Allocapnia perplexa (Perplexing Snowfly)	Endemic	1	1	1	2	42.0
CU	NB	2 Invertebrate - Insect	I1PLE2P040	Hydroperla rickeri (Tennessee Springfly)	Endemic	1	0	0	0	0.0
CU	NB	2 Invertebrate - Insect	I1EPH33270	Paraleptophlebia kirchneri (a mayfly)	Endemic	1	0	0	0	0.0

AQUATIC FAUNA										
Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability
CU	NB	2	Invertebrate - Insect	IIEPH78150	Plauditus grandis (a mayfly)	Endemic	1	0	0	0.0
CU	NB	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	2	1	23.0
CU	NB	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	1	4	0	1.8
CU	NB	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	Limited	1	4	0	1.3
CU	NB	3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Widespread	2	2	0	6.5
CU	NB	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	2	3	2	29.0
CU	NB	3	Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	1	1	0	26.0
CU	NB	3	Invertebrate - Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Limited	1	2	0	3.0
CU	NB	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	1	2	0	4.5
CU	NB	3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	1	3	1	15.7
CU	NB	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	3	0	0	0.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	3	3	0	4.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	2	3	0	3.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	3	2	2	30.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	1	4	0	4.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	2	5	0	6.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	1	2	0	2.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Limited	1	3	0	3.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	1	2	0	2.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	2	0	2.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	1	0	1.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	4	0	6.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	1	2	1	5.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	1	0	1.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Limited	1	3	0	3.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Widespread	1	3	0	3.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	1	0	1.0
CU	UCU	1	Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	2	5	0	7.0
CU	UCU	1	Invertebrate - Crustacean	ICMAL07140	Cambarus crinipes (Bouchard's Crayfish or Hairylegged Crayfish)	Limited	5	1	0	1.5
CU	UCU	1	Invertebrate - Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Endemic	8	2	0	4.5
CU	UCU	1	Invertebrate - Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Limited	5	1	1	35.0
CU	UCU	1	Invertebrate - Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnail)	Limited	1	1	0	1.5
CU	UCU	1	Invertebrate - Gastropod	IMGASK6010	Lithasia amigera (Armored Rocksnail)	Widespread	5	5	0	9.2
CU	UCU	1	Invertebrate - Gastropod	IMGASK6041	Lithasia geniculata fuliginosa (Geniculate River Snail)	Limited	1	2	0	2.6
CU	UCU	1	Invertebrate - Gastropod	IMGASK6042	Lithasia geniculata pinguis (Small Geniculate River Snail)	Endemic	8	8	0	8.6
CU	UCU	1	Invertebrate - Gastropod	IMGASK6060	Lithasia jayana (Rugose Rocksnail)	Endemic	1	0	0	0.0
CU	UCU	1	Invertebrate - Gastropod	IMGASK7070	Pleurocera curta (Shortspire Hornsail)	Limited	1	0	0	0.0
CU	UCU	1	Invertebrate - Gastropod	IMGASK7190	Pleurocera walkeri (Telescope Hornsail)	Limited	1	0	0	0.0
CU	UCU	1	Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	4	3	2	28.3
CU	UCU	1	Vertebrate - Amphibian	AAAAD03090	Desmognathus walteri (Black Mountain Salamander)	Limited	5	3	0	10.6
CU	UCU	1	Vertebrate - Fish	AFCAA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	2	1	0	2.6
CU	UCU	1	Vertebrate - Fish	AFCJC01030	Carpilodes vellifer (Highfin Carpsucker)	Widespread	1	1	0	2.0
CU	UCU	1	Vertebrate - Fish	AFCQC01010	Crystallaria asprella (Crystal Darter)	Widespread	3	2	0	3.2
CU	UCU	1	Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	1	1	0	2.6
CU	UCU	1	Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	3	0	0	0.0
CU	UCU	1	Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	6	6	0	6.2
CU	UCU	1	Vertebrate - Fish	AFCQC02B30	Etheostoma forbesi (Barrens Darter)	Endemic	10	5	4	13.8
CU	UCU	1	Vertebrate - Fish	AFCQC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Endemic	10	6	6	16.3
CU	UCU	1	Vertebrate - Fish	AFCNB04240	Fundulus julisia (Barrens Topminnow)	Limited	7	7	6	25.7
CU	UCU	1	Vertebrate - Fish	AFCJB14010	Hemitremia flammea (Flame Chub)	Limited	12	9	8	40.7
CU	UCU	1	Vertebrate - Fish	AFCJB28B20	Notropis rupestris (Bedrock Shiner)	Endemic	12	12	4	19.6
CU	UCU	1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	Limited	1	2	0	2.5
CU	UCU	2	Invertebrate - Insect	IIPLE0H060	Amphinemura mockfordi (Tennessee Forestfly)	Limited	1	0	0	0.0
CU	UCU	2	Invertebrate - Insect	IODO12210	Ophiogomphus alleghaniensis (Allegheny Snaketail)	Limited	1	1	0	1.6
CU	UCU	3	Invertebrate - Bivalve	IMBIV10020	Cyprogenia stegaria (Eastern Fanshell Pearlymussel)	Widespread	1	1	1	10.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	3	1	4.3
CU	UCU	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	1	3	1	3.7
CU	UCU	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	1	4	1	4.2
CU	UCU	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	Limited	1	1	0	1.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Widespread	3	3	0	3.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV20010	Hemistena lata (Cracking Pearlymussel)	Widespread	1	1	0	1.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	1	2	1	2.6
CU	UCU	3	Invertebrate - Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Widespread	1	2	0	2.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	1	2	0	2.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Limited	2	2	1	4.5
CU	UCU	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	1	1	0	1.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	Endemic	10	9	7	15.4
CU	UCU	3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	1	2	0	2.0
CU	UCU	3	Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	2	4	1	4.4
CU	UCU	3	Vertebrate - Fish	AFCQC02XD0	Etheostoma doration sp. (Bluemask Darter or Jewel Darter)	Endemic	10	7	6	17.3
CU	CM	1	Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	3	1	0	1.0
CU	CM	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	2	0	2.0
CU	CM	1	Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	3	1	0	1.0
CU	CM	1	Invertebrate - Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Limited	1	1	0	1.0
CU	CM	1	Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	3	1	0	1.0

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Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability
CU	CM	1 Invertebrate - Crustacean	ICMAL07030	Cambarus bouchardi (Big South Fork Crayfish)	Endemic	5	1	1	12	43.0
CU	CM	1 Invertebrate - Crustacean	ICMAL07140	Cambarus crinipes (Bouchard's Crayfish or Hairlegged Crayfish)	Limited	5	3	0	3	5.0
CU	CM	1 Invertebrate - Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Limited	1	0	0	0	0.0
CU	CM	1 Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	2	1	0	1	2.0
CU	CM	1 Vertebrate - Amphibian	AAAAD03090	Desmognathus welleri (Black Mountain Salamander)	Limited	12	8	3	104	19.1
CU	CM	1 Vertebrate - Fish	AFCQC01010	Crystallaria asprella (Crystal Darter)	Widespread	1	1	0	1	0.0
CU	CM	1 Vertebrate - Fish	AFCJB60010	Erycymba buccata (Silverjaw Minnow)	Peripheral	3	3	1	7	16.7
CU	CM	1 Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	2	1	1	2	31.0
CU	CM	1 Vertebrate - Fish	AFCQC02910	Etheostoma baileyi (Emerald Darter)	Limited	20	20	18	88	36.9
CU	CM	1 Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	12	12	9	30	31.2
CU	CM	1 Vertebrate - Fish	AFCQC02660	Etheostoma sagitta (Arrow Darter)	Endemic	15	11	10	92	40.4
CU	CM	1 Vertebrate - Fish	AFCQC02D40	Etheostoma susanae (Cumberland Johnny Darter)	Endemic	3	1	1	2	58.0
CU	CM	1 Vertebrate - Fish	AFCQC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	1	1	1	2	41.0
CU	CM	1 Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)		5	1	1	1	26.0
CU	CM	1 Vertebrate - Fish	AFCQC04280	Percina squamata (Olive Darter)	Limited	5	1	0	1	7.0
CU	CM	3 Invertebrate - Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Endemic	12	9	9	23	40.4
CU	CM	3 Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	3	2	2	10	45.0
CU	CM	3 Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	1	1	0	1	0.0
CU	CM	3 Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffshell)	Limited	3	1	1	3	44.0
CU	CM	3 Invertebrate - Bivalve	IMBIV20010	Hemistena lata (Cracking Pearlymussel)	Widespread	1	1	0	1	0.0
CU	CM	3 Invertebrate - Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Limited	3	1	1	3	43.0
CU	CM	3 Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	2	2	2	4	41.5
CU	CM	3 Vertebrate - Fish	AFCQC02X30	Etheostoma percnurum (Duskytail Darter)	Limited	5	1	1	2	41.0
CU	CM	3 Vertebrate - Fish	AFCJB28A90	Notropis albizonatus (Palezone Shiner (S. Fk. Cumberland Dr.))	Limited	1	0	0	0	0.0
CU	CM	3 Vertebrate - Fish	AFCJB31010	Phoxinus cumberlandensis (Mountain Blackside Dace)	Endemic	15	9	9	42	39.1
TN	LTN	1 Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	2	1	0	1	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV02110	Alasmidonta irididis (Slippershell Mussel)	Widespread	1	1	0	1	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	3	2	1	2	19.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	1	1	0	1	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Endemic	1	6	0	6	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	4	5	0	6	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Endemic	5	8	3	10	13.1
TN	LTN	1 Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Widespread	3	5	0	5	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	3	5	0	5	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	3	5	0	6	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	2	0	2	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	10	13	0	15	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	2	4	2	4	16.5
TN	LTN	1 Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	3	0	4	0.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Widespread	5	6	3	10	15.3
TN	LTN	1 Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	1	1	1	35.0
TN	LTN	1 Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	3	4	0	4	0.0
TN	LTN	1 Invertebrate - Crustacean	ICMAL11320	Orconectes alabamensis (Stateline Crayfish)	Endemic	8	6	5	12	31.5
TN	LTN	1 Invertebrate - Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Endemic	3	1	1	2	37.0
TN	LTN	1 Invertebrate - Crustacean	ICMAL11370	Orconectes cooperi (Flintbriar Crayfish)	Endemic	2	0	0	0	0.0
TN	LTN	1 Invertebrate - Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Endemic	6	0	0	0	0.0
TN	LTN	1 Invertebrate - Crustacean	ICMAL11550	Orconectes wrighti (Hardin County Crayfish)	Endemic	6	2	2	2	36.0
TN	LTN	1 Invertebrate - Gastropod	IMGASK6030	Lithasia duttoniana (Helmet Rocksnail)	Limited	3	6	0	9	6.0
TN	LTN	1 Invertebrate - Gastropod	IMGASK6041	Lithasia geniculata fuliginosa (Genuiculate River Snail)	Limited	6	12	0	16	6.0
TN	LTN	1 Invertebrate - Gastropod	IMGASK6090	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	Limited	3	6	0	44	6.0
TN	LTN	1 Invertebrate - Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Endemic	1	0	0	0	0.0
TN	LTN	1 Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	7	11	2	29	12.4
TN	LTN	1 Vertebrate - Fish	AFCAA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	1	0	0	0	0.0
TN	LTN	1 Vertebrate - Fish	AFCQC01070	Ammocrypta vivax (Scaly Sand Darter)		1	1	0	2	6.0
TN	LTN	1 Vertebrate - Fish	AFCJC01030	Carpionodes velifer (Highfin Carpsucker)	Widespread	2	2	2	3	36.0
TN	LTN	1 Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	1	2	1	2	19.0
TN	LTN	1 Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	5	1	1	1	30.0
TN	LTN	1 Vertebrate - Fish	AFCQC02010	Etheostoma aquali (Coppercheek Darter)	Endemic	20	19	13	35	27.2
TN	LTN	1 Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	5	4	1	4	14.8
TN	LTN	1 Vertebrate - Fish	AFCQC02A50	Etheostoma corona (Crown Darter)	Endemic	5	4	4	13	35.5
TN	LTN	1 Vertebrate - Fish	AFCQC02C20	Etheostoma denoncourtii (Golden Darter)	Endemic	5	3	2	6	26.3
TN	LTN	1 Vertebrate - Fish	AFCQC02470	Etheostoma neopterum (Lollipop Darter)	Endemic	15	15	15	43	29.9
TN	LTN	1 Vertebrate - Fish	AFCQC02A60	Etheostoma pseudovulatum (Egg-mimic Darter)	Endemic	15	8	8	24	39.3
TN	LTN	1 Vertebrate - Fish	AFCQC02750	Etheostoma striatulum (Striated Darter)	Endemic	3	1	1	1	32.0
TN	LTN	1 Vertebrate - Fish	AFCQC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	1	0	0	0	0.0
TN	LTN	1 Vertebrate - Fish	AFCJB14010	Hemitremia flammea (Flame Chub)	Limited	8	8	3	21	16.5
TN	LTN	1 Vertebrate - Fish	AFCJA02260	Noturus sp. 3 (Saddled Madtom)	Endemic	22	21	13	28	22.1
TN	LTN	1 Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	Limited	15	10	7	18	28.3
TN	LTN	1 Vertebrate - Fish	AFCQC04120	Percina macrocephala (Longhead Darter)	Widespread	1	1	0	1	6.0
TN	LTN	1 Vertebrate - Reptile	ARAAG01020	Apalone mutica (Smooth Softshell Turtle)	Widespread	5	5	3	8	18.2
TN	LTN	1 Vertebrate - Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Widespread	10	9	5	29	26.2
TN	LTN	2 Invertebrate - Insect	IITR1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Endemic	1	0	0	0	0.0
TN	LTN	2 Invertebrate - Insect	IIOD012010	Ophiogomphus acuminatus (Tennessee Snaketail or Acuminate Snaketail)	Limited	20	17	17	23	35.4
TN	LTN	3 Invertebrate - Bivalve	IMBIV10020	Cyprogenia stegaria (Eastern Fanshell Pearlymussel)	Widespread	5	2	2	12	41.5
TN	LTN	3 Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	5	3	0	3	0.0

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TN	LTN	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	3	3	0	4	0.7
TN	LTN	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	1	2	1	4	20.5
TN	LTN	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffshell)	Limited	1	3	0	3	0.7
TN	LTN	3	Invertebrate - Bivalve	IMBIV20010	Hemistena lata (Cracking Pearlymussel)	Widespread	1	4	0	6	3.3
TN	LTN	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	5	8	5	29	26.6
TN	LTN	3	Invertebrate - Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Endemic	1	1	1	1	35.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Endemic	2	3	0	5	2.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Widespread	1	1	0	1	0.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	10	10	1	19	7.3
TN	LTN	3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Widespread	1	4	1	7	10.8
TN	LTN	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	5	7	3	24	22.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	Widespread	1	4	1	5	9.8
TN	LTN	3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	1	5	1	8	9.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Limited	1	1	0	1	0.0
TN	LTN	3	Invertebrate - Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Endemic	3	4	0	5	1.5
TN	LTN	3	Vertebrate - Fish	AFCJB15080	Cyprinella monacha (Spoffin Chub)	Endemic	5	2	2	4	34.5
TN	LTN	3	Vertebrate - Fish	AFCOC02080	Etheostoma boschungii (Slackwater Darter)	Endemic	10	6	4	15	25.8
TN	LTN	3	Vertebrate - Fish	AFCOA02210	Noturus stanauli (Pygmy Madtom)	Endemic	5	2	1	3	19.5
TN	LTN	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	5	0	0	0	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	5	4	0	4	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	4	0	4	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	4	5	1	6	8.8
TN	NB	1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Endemic	5	9	0	13	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	3	4	0	4	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Widespread	3	1	1	1	39.0
TN	NB	1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	1	1	0	1	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV25010	Lexingtonia dolabellioides (Slabside Pearlymussel)	Endemic	14	14	7	74	22.0
TN	NB	1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	7	7	2	22	16.7
TN	NB	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	0	0	0	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	2	0	2	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	4	0	5	0.0
TN	NB	1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	3	5	2	20	18.8
TN	NB	1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	2	1	3	21.0
TN	NB	1	Invertebrate - Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Limited	1	4	0	6	2.5
TN	NB	1	Invertebrate - Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Widespread	6	6	4	63	34.0
TN	NB	1	Invertebrate - Bivalve	IMBIV43030	Toxolasma lividum (Purple Lilliput)	Widespread	6	8	4	12	15.8
TN	NB	1	Invertebrate - Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Widespread	1	2	0	8	5.0
TN	NB	1	Invertebrate - Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Limited	8	10	0	12	0.0
TN	NB	1	Invertebrate - Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnail)	Limited	2	3	0	3	4.0
TN	NB	1	Invertebrate - Gastropod	IMGASK6030	Lithasia duttoniana (Helmet Rocksnail)	Limited	4	8	0	35	5.3
TN	NB	1	Invertebrate - Gastropod	IMGASK6041	Lithasia geniculata fuliginosa (Genuculate River Snail)	Limited	5	10	0	28	6.0
TN	NB	1	Invertebrate - Gastropod	IMGASK6042	Lithasia geniculata pinguis (Small Genuculate River Snail)		2	3	0	4	5.3
TN	NB	1	Invertebrate - Gastropod	IMGASK6070	Lithasia lima (Warty Rocksnail)	Endemic	6	12	0	20	5.8
TN	NB	1	Invertebrate - Gastropod	IMGASK6090	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	Limited	1	1	0	1	6.0
TN	NB	1	Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	4	6	1	17	10.5
TN	NB	1	Vertebrate - Fish	AFCJC01030	Carpododes velifer (Highfin Carpsucker)	Widespread	1	1	1	1	35.0
TN	NB	1	Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	5	0	0	0	0.0
TN	NB	1	Vertebrate - Fish	AFCOC02010	Etheostoma aquali (Coppercheek Darter)	Endemic	15	14	9	33	27.1
TN	NB	1	Vertebrate - Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Limited	10	8	6	10	30.9
TN	NB	1	Vertebrate - Fish	AFCOC02C20	Etheostoma denoncourti (Golden Darter)	Endemic	5	4	2	15	22.3
TN	NB	1	Vertebrate - Fish	AFCOC02750	Etheostoma striatulum (Striated Darter)	Endemic	15	15	9	26	23.1
TN	NB	1	Vertebrate - Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	1	0	0	0	0.0
TN	NB	1	Vertebrate - Fish	AFCNB04240	Fundulus julisia (Barrens Topminnow)	Limited	8	4	1	6	14.3
TN	NB	1	Vertebrate - Fish	AFCJB14010	Hemitemia flammea (Flame Chub)	Limited	25	24	13	56	23.0
TN	NB	1	Vertebrate - Fish	AFCOA02260	Noturus sp. 3 (Saddled Madtom)	Endemic	3	2	1	4	20.5
TN	NB	1	Vertebrate - Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Limited	3	2	0	3	6.0
TN	NB	1	Vertebrate - Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Widespread	2	2	0	3	6.0
TN	NB	2	Invertebrate - Insect	I1ODO08390	Gomphus sandrius (Tennessee Clubtail Dragonfly)	Endemic	10	8	7	9	33.0
TN	NB	3	Invertebrate - Bivalve	IMBIV10020	Cyprogenia stegaria (Eastern Fanshell Pearlymussel)	Widespread	2	1	1	2	42.0
TN	NB	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	1	0	1	2.0
TN	NB	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	5	5	2	6	13.8
TN	NB	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	4	4	3	15	33.5
TN	NB	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffshell)	Limited	3	7	1	12	7.1
TN	NB	3	Invertebrate - Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Endemic	3	4	0	8	6.0
TN	NB	3	Invertebrate - Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Endemic	2	5	1	15	11.4
TN	NB	3	Invertebrate - Bivalve	IMBIV20010	Hemistena lata (Cracking Pearlymussel)	Widespread	1	3	2	7	28.3
TN	NB	3	Invertebrate - Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Endemic	5	5	3	42	32.2
TN	NB	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	1	1	0	1	4.0
TN	NB	3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Limited	1	1	0	1	0.0
TN	NB	3	Invertebrate - Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Endemic	6	6	1	30	14.8
TN	NB	3	Invertebrate - Bivalve	IMBIV43020	Toxolasma cyllindrellus (Pale Lilliput)	Limited	2	8	1	14	5.0
TN	NB	3	Vertebrate - Fish	AFCOC02A20	Etheostoma wapiti (Boulder Darter)	Endemic	10	6	6	11	46.0
TN	CP	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	1	0	1	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	2	2	1	2	7.0
TN	CP	1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	1	2	0	2	0.0

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Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability	
TN	CP	1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Endemic	2	3	0	4	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	3	5	0	5	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	1	2	0	2	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Endemic	1	1	0	1	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Limited	1	1	0	1	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	1	2	0	2	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	2	0	2	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	4	0	5	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	3	5	3	7	22.4
TN	CP	1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	2	1	2	14.0
TN	CP	1	Invertebrate - Bivalve	IMBIV39041	Quadrla cylindrica cylindrica (Rabbitsfoot)	Widespread	1	2	0	2	0.0
TN	CP	1	Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	1	0	1	0.0
TN	CP	1	Invertebrate - Crustacean	ICMAL07140	Cambarus crinipes (Bouchard's Crayfish or Hairylegged Crayfish)	Limited	3	1	0	2	5.0
TN	CP	1	Invertebrate - Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Endemic	3	2	1	3	16.5
TN	CP	1	Invertebrate - Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Limited	2	0	0	0	0.0
TN	CP	1	Invertebrate - Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Endemic	5	2	0	2	6.0
TN	CP	1	Invertebrate - Gastropod	IMGASK2670	Elimia teres (Elegant Elimia)	Endemic	3	0	0	0	0.0
TN	CP	1	Invertebrate - Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Endemic	2	1	0	1	5.0
TN	CP	1	Invertebrate - Gastropod	IMGASK7060	Pleurocera corpulenta (Corpulent Hornsnail)	Endemic	1	0	0	0	0.0
TN	CP	1	Invertebrate - Gastropod	IMGASK7070	Pleurocera curta (Shortspire Hornsnail)	Limited	1	0	0	0	0.0
TN	CP	1	Invertebrate - Gastropod	IMGASK7160	Pleurocera trochiformis (Sulcate Hornsnail)	Endemic	1	0	0	0	0.0
TN	CP	1	Invertebrate - Gastropod	IMGASK7190	Pleurocera walkeri (Telescope Hornsnail)	Limited	1	0	0	0	0.0
TN	CP	1	Invertebrate - Gastropod	IMGASJ2030	Somatogyryus aureus (Golden Pebblesnail)	Endemic	1	1	1	1	37.0
TN	CP	1	Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	7	7	2	12	14.1
TN	CP	1	Vertebrate - Amphibian	AAAAD03090	Desmognathus welleri (Black Mountain Salamander)	Limited	12	9	6	37	24.9
TN	CP	1	Vertebrate - Fish	AFCOA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	1	1	0	1	3.0
TN	CP	1	Vertebrate - Fish	AFCJC01030	Carpilodes velifer (Highfin Carpsucker)	Widespread	2	2	2	3	36.0
TN	CP	1	Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	2	0	0	0	0.0
TN	CP	1	Vertebrate - Fish	AFCQC02070	Etheostoma blenniuss sequatchiense (Sequatchie Blenny Darter)	Endemic	10	3	3	4	28.3
TN	CP	1	Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	2	1	1	2	35.0
TN	CP	1	Vertebrate - Fish	AFCQC02C20	Etheostoma denoncourtii (Golden Darter)	Endemic	5	2	2	3	37.0
TN	CP	1	Vertebrate - Fish	AFCQC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	1	0	0	0	0.0
TN	CP	1	Vertebrate - Fish	AFCQC02A10	Etheostoma vulneratum (Wounded Darter)	Endemic	2	0	0	0	0.0
TN	CP	1	Vertebrate - Fish	AFCJB14010	Hemitremia flammea (Flame Chub)	Limited	7	7	1	10	9.0
TN	CP	1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	Endemic	15	11	6	25	24.0
TN	CP	1	Vertebrate - Fish	AFCQC04120	Percina macrocephala (Longhead Darter)	Widespread	1	1	0	4	6.0
TN	CP	1	Vertebrate - Fish	AFCQC04280	Percina squamata (Olive Darter)	Limited	5	1	1	1	30.0
TN	CP	1	Vertebrate - Fish	AFCJB31070	Phoxinus saylori (Laurel Dace)	Endemic	8	4	4	7	36.3
TN	CP	1	Vertebrate - Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Endemic	7	5	4	7	29.0
TN	CP	1	Vertebrate - Reptile	ARAAG01030	Apalone spinifera (Spiny Softshell Turtle)	Widespread	2	1	0	1	4.0
TN	CP	2	Invertebrate - Insect	IIPLE0H060	Amphinemura mockfordi (Tennessee Forestfly)	Limited	1	0	0	0	0.0
TN	CP	2	Invertebrate - Insect	IITR114020	Glyphopsyche sequatchie (Sequatchie Caddisfly)	Endemic	3	2	2	2	38.0
TN	CP	2	Invertebrate - Insect	IIODO08080	Gomphus consanguis (Cherokee Clubtail Dragonfly)	Limited	1	1	0	1	7.0
TN	CP	2	Invertebrate - Insect	IIODO08190	Gomphus septima (Septima's Clubtail)	Widespread	1	0	0	0	0.0
TN	CP	2	Invertebrate - Insect	IIEPH40050	Stenonema sinclairi (a mayfly)	Limited	1	0	0	0	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV10020	Cyprogenia stegaria (Eastern Fanshell Pearlymussel)	Widespread	1	1	1	3	37.0
TN	CP	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	6	0	8	3.0
TN	CP	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	1	1	0	1	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	1	1	0	1	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Rifflshell)	Limited	1	1	0	1	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Endemic	1	1	0	1	2.0
TN	CP	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	2	5	2	17	20.2
TN	CP	3	Invertebrate - Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Endemic	1	4	0	5	2.5
TN	CP	3	Invertebrate - Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Endemic	1	2	0	2	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	1	1	0	1	0.0
TN	CP	3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	1	4	0	7	8.0
TN	CP	3	Invertebrate - Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Limited	1	1	0	3	4.0
TN	CP	3	Invertebrate - Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Endemic	4	4	2	8	22.3
TN	CP	3	Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	2	4	0	4	13.8
TN	CP	3	Invertebrate - Gastropod	IMGASK5141	Leptoxis crassa anthonyi (Anthony's River Snail)	Endemic	6	4	3	6	25.5
TN	CP	3	Invertebrate - Gastropod	IMGASJ0450	Marstonia ogmorhapha (Royal Springsnail)	Endemic	3	2	2	4	50.5
TN	CP	3	Vertebrate - Fish	AFCJB15080	Cyprinella monacha (Spoffin Chub)	Endemic	10	7	2	18	16.7
TN	CP	3	Vertebrate - Fish	AFCQC04290	Percina tanasi (Snail Darter)	Endemic	6	6	0	18	6.8
TN	CP	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	2	0	0	0	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	8	6	0	7	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta iridis (Slippershell Mussel)	Widespread	2	3	0	3	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	15	11	3	29	14.5
TN	RV	1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	7	9	2	34	13.1
TN	RV	1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Endemic	15	18	0	20	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	20	26	0	29	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	8	10	0	10	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Endemic	10	13	2	18	6.5
TN	RV	1	Invertebrate - Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Limited	5	1	0	1	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Widespread	1	4	1	4	9.3
TN	RV	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	12	17	3	43	9.5

AQUATIC FAUNA											
Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability	
TN	RV	1	Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	3	0	4	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	5	8	0	9	0.0
TN	RV	1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	3	9	0	17	3.3
TN	RV	1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	3	5	0	7	2.6
TN	RV	1	Invertebrate - Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Limited	8	22	4	62	9.6
TN	RV	1	Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	3	0	3	0.0
TN	RV	1	Invertebrate - Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Endemic	10	3	0	66	0.0
TN	RV	1	Invertebrate - Crustacean	ICMAL07460	Cambarus deweesae (Valley Flame Crayfish)	Endemic	4	0	0	0	0.0
TN	RV	1	Invertebrate - Crustacean	ICMAL11410	Orconectes forceps (Surgeon Crayfish)	Endemic	5	1	0	1	0.0
TN	RV	1	Invertebrate - Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Endemic	1	0	0	0	0.0
TN	RV	1	Invertebrate - Gastropod	IMGASK2070	Elimia aterina (Coal Elimia)	Endemic	5	4	4	5	29.3
TN	RV	1	Invertebrate - Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Limited	1	0	0	0	0.0
TN	RV	1	Invertebrate - Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Endemic	5	4	4	5	29.3
TN	RV	1	Invertebrate - Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Endemic	3	3	3	3	29.0
TN	RV	1	Invertebrate - Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Endemic	25	25	6	53	17.4
TN	RV	1	Invertebrate - Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Endemic	3	0	0	0	0.0
TN	RV	1	Invertebrate - Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Endemic	1	0	0	0	0.0
TN	RV	1	Invertebrate - Gastropod	IMGASJ2200	Somatogyryus parvulus (Sparrow Pebblesnail)	Endemic	1	0	0	0	0.0
TN	RV	1	Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	17	15	7	35	18.5
TN	RV	1	Vertebrate - Amphibian	AAAAD03090	Desmognathus welleri (Black Mountain Salamander)	Limited	5	3	0	14	6.0
TN	RV	1	Vertebrate - Fish	AFCOA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	2	1	1	1	36.0
TN	RV	1	Vertebrate - Fish	AFCOC01040	Ammocrypta clara (Western Sand Darter)	Peripheral	3	1	1	1	27.0
TN	RV	1	Vertebrate - Fish	AFCJC01030	Carpodius velifer (Highfin Carpsucker)	Widespread	3	4	1	4	10.8
TN	RV	1	Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	4	7	0	7	5.1
TN	RV	1	Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	8	8	8	8	22.8
TN	RV	1	Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	2	3	3	3	25.3
TN	RV	1	Vertebrate - Fish	AFCOC02890	Etheostoma aculeiceps (Sharphead Darter)	Endemic	5	2	0	4	2.5
TN	RV	1	Vertebrate - Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Limited	3	1	1	1	40.0
TN	RV	1	Vertebrate - Fish	AFCOC02C20	Etheostoma denoncourtii (Golden Darter)	Endemic	5	3	3	11	38.7
TN	RV	1	Vertebrate - Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Widespread	2	1	1	1	21.0
TN	RV	1	Vertebrate - Fish	AFCOC02A10	Etheostoma vulneratum (Wounded Darter)	Endemic	9	2	2	2	23.0
TN	RV	1	Vertebrate - Fish	AFCJJB14010	Hemitemeria flammea (Flame Chub)	Limited	6	6	4	23	26.2
TN	RV	1	Vertebrate - Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Endemic	15	12	10	29	31.4
TN	RV	1	Vertebrate - Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Limited	5	4	3	6	29.0
TN	RV	1	Vertebrate - Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Widespread	2	2	0	3	2.5
TN	RV	1	Vertebrate - Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Endemic	15	14	11	43	27.6
TN	RV	1	Vertebrate - Reptile	ARAAG01030	Apalone spinifera (Spiny Softshell Turtle)	Widespread	5	3	0	4	4.0
TN	RV	2	Invertebrate - Insect	IIPLE01010	Allocapnia brooksi (Sevier Snowfly)	Endemic	2	0	0	0	0.0
TN	RV	2	Invertebrate - Insect	IITRI36120	Ceratopsyche etnieri (Buffalo Springs Caddisfly)	Endemic	1	0	0	0	0.0
TN	RV	2	Invertebrate - Insect	IODO08080	Gomphus consanguis (Cherokee Clubtail Dragonfly)	Limited	2	4	0	5	2.8
TN	RV	3	Invertebrate - Bivalve	IMBIV10020	Cyprogenia stegaria (Eastern Fanshell Pearlymussel)	Widespread	8	4	3	16	34.3
TN	RV	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	10	15	5	44	16.1
TN	RV	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	12	17	5	52	13.8
TN	RV	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	10	8	4	33	25.0
TN	RV	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	Limited	3	6	0	8	0.0
TN	RV	3	Invertebrate - Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Endemic	14	16	3	40	11.9
TN	RV	3	Invertebrate - Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Endemic	10	14	5	44	16.6
TN	RV	3	Invertebrate - Bivalve	IMBIV20010	Hemistena lata (Cracking Pearlymussel)	Widespread	5	7	3	23	20.1
TN	RV	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	5	8	4	13	21.0
TN	RV	3	Invertebrate - Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Endemic	10	13	2	25	8.2
TN	RV	3	Invertebrate - Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Widespread	1	4	0	4	0.0
TN	RV	3	Invertebrate - Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Widespread	1	3	0	3	0.0
TN	RV	3	Invertebrate - Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Limited	1	3	0	4	0.0
TN	RV	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	1	6	1	11	8.7
TN	RV	3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	Limited	5	8	1	13	6.3
TN	RV	3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Endemic	5	6	4	26	32.0
TN	RV	3	Invertebrate - Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Endemic	3	6	1	17	10.8
TN	RV	3	Invertebrate - Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Endemic	3	4	1	11	14.0
TN	RV	3	Invertebrate - Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Endemic	4	4	2	9	21.3
TN	RV	3	Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	1	3	1	4	10.7
TN	RV	3	Vertebrate - Fish	AFCJJB15080	Cyprinella monacha (Spotfin Chub)	Endemic	5	8	6	15	27.5
TN	RV	3	Vertebrate - Fish	AFCJB50010	Erimystax cahni (Slender Chub)	Endemic	7	7	1	14	9.7
TN	RV	3	Vertebrate - Fish	AFCOC02X30	Etheostoma percnurum (Duskytail Darter)	Limited	3	1	0	1	3.0
TN	RV	3	Vertebrate - Fish	AFCKA02060	Noturus flavipinnis (Yellowfin Madtom)	Endemic	5	4	1	7	15.0
TN	RV	3	Vertebrate - Fish	AFCKA02210	Noturus stanauili (Pygmy Madtom)	Endemic	3	1	1	2	38.0
TN	RV	3	Vertebrate - Fish	AFCOC04290	Percina tanasi (Snail Darter)	Endemic	5	2	1	7	25.5
TN	RV	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	3	1	1	1	27.0
TN	BR	1	Invertebrate - Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Widespread	6	6	0	7	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Widespread	1	6	0	6	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Widespread	5	3	0	6	4.7
TN	BR	1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Widespread	1	2	0	3	3.5
TN	BR	1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Endemic	12	17	0	17	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Widespread	8	12	0	12	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Limited	7	8	0	8	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV22060	Lasmigona subviridis (Green Floater)	Peripheral	1	1	0	1	0.0

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Region/ Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Regional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability	
TN	BR	1	Invertebrate - Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Endemic	1	5	0	5	2.0
TN	BR	1	Invertebrate - Bivalve	IMBIV28020	Medionidius conradicus (Cumberland Moccasinshell)	Limited	2	5	0	5	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Widespread	1	5	0	5	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Widespread	1	0	0	0	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Widespread	1	9	0	9	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Limited	4	7	1	8	5.4
TN	BR	1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Widespread	1	2	0	2	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Limited	1	3	0	3	0.0
TN	BR	1	Invertebrate - Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Widespread	1	3	0	3	0.0
TN	BR	1	Invertebrate - Crustacean	ICMAL07400	Cambarus conasaugaensis (a crayfish)	Limited	1	0	0	0	0.0
TN	BR	1	Invertebrate - Crustacean	ICMAL07570	Cambarus hiwasseeensis (a crayfish)	Endemic	2	0	0	0	0.0
TN	BR	1	Invertebrate - Crustacean	ICMAL11410	Orconectes forseps (Surgeon Crayfish)	Endemic	10	4	0	5	0.0
TN	BR	1	Invertebrate - Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Endemic	1	0	0	0	0.0
TN	BR	1	Invertebrate - Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Endemic	5	3	3	5	37.7
TN	BR	1	Invertebrate - Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Limited	1	0	0	0	0.0
TN	BR	1	Invertebrate - Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Endemic	6	3	0	6	5.7
TN	BR	1	Invertebrate - Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Endemic	3	1	1	1	37.0
TN	BR	1	Invertebrate - Gastropod	IMGASK7070	Pleurocera curta (Shortspire Hornsail)	Limited	1	0	0	0	0.0
TN	BR	1	Invertebrate - Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Endemic	2	1	1	1	37.0
TN	BR	1	Vertebrate - Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Widespread	25	29	7	87	12.3
TN	BR	1	Vertebrate - Amphibian	AAAAD05020	Eurycea junaluska (Junaluska Salamander)	Endemic	7	5	1	19	11.8
TN	BR	1	Vertebrate - Fish	AFCAA01020	Acipenser fulvescens (Lake Sturgeon)	Widespread	2	2	2	3	40.5
TN	BR	1	Vertebrate - Fish	AFCJC01030	Carpionodes vellifer (Highfin Carpsucker)	Widespread	7	9	4	13	17.3
TN	BR	1	Vertebrate - Fish	AFCJB05021	Clinostomus funduloides ssp. 1 (Smoky Dace)	Endemic	7	5	5	43	40.8
TN	BR	1	Vertebrate - Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Widespread	3	6	3	9	22.8
TN	BR	1	Vertebrate - Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Widespread	1	1	1	1	28.0
TN	BR	1	Vertebrate - Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Limited	6	6	6	6	26.7
TN	BR	1	Vertebrate - Fish	AFCQC02890	Etheostoma acuticeps (Sharphead Darter)	Endemic	10	6	4	16	24.7
TN	BR	1	Vertebrate - Fish	AFCQC02061	Etheostoma blennioides gitselli (Tuckaseegee Darter)	Endemic	5	2	2	2	36.0
TN	BR	1	Vertebrate - Fish	AFCQC02130	Etheostoma cinereum (Ashy Darter)	Limited	5	2	2	8	23.5
TN	BR	1	Vertebrate - Fish	AFCQC02A10	Etheostoma vulneratum (Wounded Darter)	Endemic	9	2	2	2	22.0
TN	BR	1	Vertebrate - Fish	AFCJB14010	Hemimremia flammea (Flame Chub)	Limited	5	5	4	8	27.6
TN	BR	1	Vertebrate - Fish	AFCCKA02270	Noturus sp. 4 (Chucky Madtom)	Endemic	3	1	1	1	34.0
TN	BR	1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	Endemic	15	20	16	62	30.3
TN	BR	1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	Limited	10	8	4	18	20.1
TN	BR	1	Vertebrate - Fish	AFCQC04120	Percina macrocephala (Longhead Darter)	Widespread	10	8	3	15	18.5
TN	BR	1	Vertebrate - Fish	AFCQC04280	Percina squamata (Olive Darter)	Limited	5	0	0	0	0.0
TN	BR	1	Vertebrate - Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Endemic	15	17	9	31	20.8
TN	BR	1	Vertebrate - Reptile	ARAAG01030	Apalone spinifer (Spiny Softshell Turtle)	Widespread	5	3	0	4	5.3
TN	BR	2	Invertebrate - Insect	IIPLE01010	Allocaupnia brooksi (Sevier Snowfly)	Endemic	1	0	0	0	0.0
TN	BR	2	Invertebrate - Insect	IITRI22040	Cheumatopsyche helma (Helma's Net-spinning Caddisfly)	Limited	1	1	0	1	7.0
TN	BR	2	Invertebrate - Insect	IIDOD26070	Macromia margarita (Mountain River Cruiser)	Limited	2	1	1	1	30.0
TN	BR	2	Invertebrate - Insect	IIPLE0G060	Megaleuctra williamsae (Williams' Rare Winter Stonefly)	Endemic	1	0	0	0	0.0
TN	BR	2	Invertebrate - Insect	IIPLE25010	Oconoperla innubila (a stonefly)	Endemic	1	0	0	0	0.0
TN	BR	2	Invertebrate - Insect	IIDOD12210	Ophiogomphus alleghaniensis (Allegheny Snaketail)	Limited	2	2	0	2	6.5
TN	BR	2	Invertebrate - Insect	IIPLE0U010	Zapada chila (a stonefly)	Endemic	1	0	0	0	0.0
TN	BR	3	Invertebrate - Bivalve	IMBIV02060	Alasmidonta raveneliana (Appalachian Elktoe)	Endemic	2	1	1	2	33.0
TN	BR	3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Limited	1	3	0	5	0.0
TN	BR	3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Limited	1	2	0	2	0.0
TN	BR	3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	Limited	2	6	1	6	6.2
TN	BR	3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	Limited	4	7	1	9	7.6
TN	BR	3	Invertebrate - Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Endemic	1	3	0	3	3.7
TN	BR	3	Invertebrate - Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Widespread	2	3	1	3	15.0
TN	BR	3	Invertebrate - Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Endemic	1	2	0	2	0.0
TN	BR	3	Invertebrate - Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Limited	1	0	0	0	0.0
TN	BR	3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	Widespread	1	2	0	2	1.0
TN	BR	3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Endemic	1	1	0	1	5.0
TN	BR	3	Invertebrate - Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Limited	4	5	2	12	17.4
TN	BR	3	Vertebrate - Fish	AFCJB15080	Cyprinella monacha (Spottfin Chub)	Endemic	5	4	2	7	23.0
TN	BR	3	Vertebrate - Fish	AFCQC02X30	Etheostoma percnurum (Duskytail Darter)	Limited	7	4	4	9	39.8
TN	BR	3	Vertebrate - Fish	AFCCKA02020	Noturus baileyi (Smoky Madtom)	Endemic	5	2	2	21	49.5
TN	BR	3	Vertebrate - Fish	AFCCKA02060	Noturus flavipinnis (Yellowfin Madtom)	Endemic	5	2	2	9	45.0
TN	BR	3	Vertebrate - Fish	AFCQC04290	Percina tanasi (Snail Darter)	Endemic	15	10	7	20	28.4
TN	BR	3	Vertebrate - Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Widespread	3	0	0	0	0.0

SUBTERRANEAN FAUNA											
Region/Subregion	Tier	Taxonomic Group	NS ELCODE	Species Name	Subregional Distribution	Subreg. Goal	# Pops.	# Current Pops.	# Obs.	Avg. Viability	
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARA30280	Kleptochthonius pluto (a cave obligate pseudoscorpion)	Endemic	4	1	0	2	5.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARA30290	Kleptochthonius rex (a cave obligate pseudoscorpion)	Endemic	3	1	0	2	5.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARASWG03	Kleptochthonius sp. (a cave obligate pseudoscorpion)	Endemic	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARASWG04	Liocranoides sp. (a cave two-clawed spider)	Endemic	5	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARA36260	Nesticus stygius (a cave obligate spider)	Endemic	3	1	0	1	7.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARA36010	Nesticus tennesseensis (a spider)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARAB2010	Phalangodes appalachius (Appalachian Cave Harvestman)	Endemic	5	5	0	5	3.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILACA02020	Poclophysis weyerensis (a cave mite)	Endemic	3	2	0	2	2.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARAU4010	Theromaster sp. 1 (a cave obligate harvestman)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Arachnid	ILARAD2290	Tyrannochthonius steevesi (a cave obligate pseudoscorpion)	Endemic	2	1	1	2	38.0
C-R	Eastern Highland Rim	2	Invertebrate - Flatworm	IPTURSWG01	Sphalloplana sp. (a cave obligate flatworm)	Endemic	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Flatworm	IPTUR04X20	Sphalloplana sp. 2 (Rumbling Falls Cave Flatworm)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLJM020	Alcoconota diversiseta (a rove beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLSWG01	Anillinus sp. (Flag Trail Cave Beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLLSWG01	Arhopalites sp. (a cave obligate springtail)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL93040	Atheta lucifuga (Light Shunning Rove Beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL88060	Batrasiymodes jeanneli (a cave obligate beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL88070	Batrasiymodes quisnamus (a cave obligate beetle)	Limited	5	2	0	2	4.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLA8220	Batrisesodes clypeospecus (a cave obligate beetle)	Endemic	7	3	0	5	4.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLA8280	Batrisesodes pannosus (a cave obligate beetle)	Endemic	3	1	0	2	5.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLA8100	Batrisesodes valentini (a cave obligate beetle)	Limited	5	1	0	1	4.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLJ5010	Darlingtonia kentuckensis (a ground beetle)	Endemic	4	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL10060	Folsomia sp. 2 nr. macrochaeta (a cave obligate springtail)	Endemic	5	1	1	1	42.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IIOIRT9G030	Hadenococcus opilionides (a cave obligate cricket)	Endemic	2	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL09100	Hypogastrura sp. 1 (a vtiatica group springtail)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Endemic	2	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IITHSSWG02	Litocampa sp. TN #6 (Buffalo Cove Cave Dipluran)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IITHSSWG03	Litocampa sp. TN #7 (Mill Hollow Cave Dipluran)	Endemic	4	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IITHSSWG04	Litocampa sp. TN #8 (Mountain Eye Cave Dipluran)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL12040	Neanura sp. 1 (Swamp River Cave Neanura)	Endemic	3	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLL8010	Nelsonites walteri (a cave obligate beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL17110	Onychiurus sp. 2 (Swamp River Cave Onychiurus)	Endemic	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EB90	Pseudanophthalmus farelli (a cave obligate beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4E260	Pseudanophthalmus fowlerae (Fowler's Cave Beetle)	Endemic	5	1	0	2	7.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EAV0	Pseudanophthalmus humeralis (a cave obligate beetle)	Endemic	4	2	0	2	2.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4E350	Pseudanophthalmus inquisitor (Searcher Cave Beetle)	Endemic	4	1	0	2	7.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EBB0	Pseudanophthalmus macradeti (a cave obligate beetle)	Endemic	2	1	0	2	3.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EBG0	Pseudanophthalmus productus (a cave obligate beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4E640	Pseudanophthalmus simplex (Simple Cave Beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EX40	Pseudanophthalmus sp. 27 (Rumbling Falls Cave Beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLSWG03	Pseudanophthalmus sp. TN #1 SCA or TN #28? (a cave obligate beetle)	Endemic	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLSWG04	Pseudanophthalmus sp. TN #29 (a cave obligate beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EBP0	Pseudanophthalmus templetoni (a cave obligate beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4E670	Pseudanophthalmus tullahoma (Duck River Cave Beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EBS0	Pseudanophthalmus valentini (a cave obligate beetle)	Endemic	5	4	0	4	3.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOL4EC10	Pseudanophthalmus vanburensis (a cave obligate beetle)	Endemic	2	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01280	Pseudosinella aera (a cave obligate springtail)	Endemic	2	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01200	Pseudosinella christianseni (Christiansen's Cave Springtail)	Widespread	4	2	0	2	5.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Widespread	3	2	0	2	3.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01030	Pseudosinella orba (a cave obligate springtail)	Limited	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01290	Pseudosinella sp. 5 (Swamp River Cave Pseudosinella)	Endemic	2	1	1	1	41.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01300	Pseudosinella sp. 6 (a cave obligate springtail)	Endemic	5	1	1	1	42.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01310	Pseudosinella sp. 7 nr. Nata (a cave obligate springtail)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL01250	Pseudosinella spinosa (Spinose Cave Springtail)	Limited	7	8	1	8	7.8
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLA7090	Ptomaphagus fecundus (a cave obligate beetle)	Endemic	2	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLA7140	Ptomaphagus hubrichti (a cave obligate beetle)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL05090	Sinella basidens (a cave obligate springtail)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLSWG05	Trechus cumberlandus (Cumberland Ground Beetle)	Endemic	2	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICLL27010	Triacanthella copelandi (Copeland's Cave Springtail)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Insect	IICOLJE030	Tychoblythrus strinatii (a cave obligate beetle)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUNISWG01	Chaetaspis mollis (a cave obligate millipede)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN63020	Chaetaspis sp. 1 (Thunder Run Cave Millipede)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUNISWG03	Pseudotremia acheron (a cave obligate millipede)	Endemic	3	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN03200	Pseudotremia cercops (a cave obligate millipede)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN03250	Pseudotremia lictor (a cave obligate millipede)	Limited	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUNISWG04	Pseudotremia sp. (new TN species #4 = SCA #4) (Wallace's Cave Millipede)	Endemic	5	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUNISWG05	Pseudotremia sp. (new TN species #5 = SCA #3) (Mann's Cave Millipede)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN01030	Scoterpes copei (a cave obligate millipede)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Endemic	5	2	2	2	41.5
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN170010	Tetracion jonesi (a cave obligate millipede)	Endemic	1	0	0	0	0.0
C-R	Eastern Highland Rim	2	Invertebrate - Millipede	ITUN170020	Tetracion tennesseensis (a cave obligate millipede)	Endemic	5	4	2	6	23.3
C-R	Eastern Highland Rim	2	Invertebrate - Roundworm	IAOL107020	Cambarincola alienus (a cave obligate roundworm)	Endemic	5	1	0	2	5.0
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICMAL01200	Caecidotea stygia (a cave obligate isopod)	Peripheral	1	0	0	0	0.0
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICCOPSWG01	Diacyclops sp. (Indiana Groundwater Copepod)	Limited	5	0	0	0	0.0
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICCOP02040	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	Endemic	5	2	1	2	23.5
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICMAL11010	Orocnectes australis (Blind Crayfish)	Endemic	15	19	10	27	24.9
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICMALSWG02	Stygobromus sp. (a cave obligate amphipod)	Endemic	4	0	0	0	0.0
C-R	Cumberland Escarpment	1	Invertebrate - Crustacean	ICMAL05X80	Stygobromus sp. 22 (Swamp River Cave Amphipod)	Endemic	6	4	4	4	41.8
C-R	Cumberland Escarpment	1	Invertebrate - Gastropod	IMGAS50070	Helicodiscus hadenocensis (Crickle Coil or Cave Disc Snail)	Endemic	5	1	1	1	39.0
C-R	Cumberland Escarpment	1	Vertebrate - Amphibian	AAAA06012	Gyrinophilus pallidus neotroides (Big Mouth Cave Salamander)	Endemic	5	1	1	13	63.0
C-R	Cumberland Escarpment	1	Vertebrate - Fish	AFCLA04010	Typhlichthys subterraneanus (Southern Cavefish)	Limited	15	12	5	14	22.0
C-R	Cumberland Escarpment	2	Invertebrate - Arachnid	ILARASWG01	Appaleptoneta sp. (a cave leptonetid spider)	Endemic	5	0	0	0	0.0
C-R	Cumberland Escarpment	2	Invertebrate - Arachnid	ILARAU3010	Appaleptoneta sp. 1 (a cave leptonetid spider)	Endemic	5	1	1	1	42.0
C-R	Cumberland Escarpment	2	Invertebrate - Arachnid	ILARASWG02	Callioptus pantoplus (an amaurobiid spider)	Limited	5	0	0	0	0.0
C-R	Cumberland Escarpment	2	Invertebrate - Arachnid	ILARA31050	Chitrella archeri (a cave obligate pseudoscorpion)	Endemic	3	0	0	0	0.0

APPENDIX D. Habitat Information for GCN Species

CWCS Habitat Hierarchy for Tennessee				
Level 1	Level 2	Level 3	Level 4	Level 5
Habitat Category	Habitat Class	Habitat Alliance	Habitat Group	Natural Ecological Systems
Terrestrial	Natural	Forestland	Upland Deciduous Forest	1) Allegheny-Cumberland Dry Oak Forest and Woodland, 2) Central and Southern Appalachian Northern Hardwood Forest, 3) East Gulf Coastal Plain Limestone Forest, 4) East Gulf Coastal Plain Northern Dry Upland Hardwood Forest, 5) East Gulf Coastal Plain Northern Loess Bluff Forest, 6) East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland, 7) East Gulf Coastal Plain Northern Mesic Hardwood Forest, 8) South-Central Interior / Upper Coastal Plain Flatwoods, 9) South-Central Interior Mesophytic Forest, 10) Southern Interior Low Plateau Dry Oak Forest, 11) Southern and Central Appalachian Cove Forest, 12) Southern and Central Appalachian Oak Forest
			Upland Coniferous Forest	1) Central and Southern Appalachian Spruce-Fir Forest, 2) Southern Appalachian Low Mountain Pine Forest, 3) Southern Appalachian Montane Pine Forest and Woodland
			Upland Mixed Forest	1) Appalachian Hemlock-Hardwood Forest, 2) East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest
			Forested Rock Outcrop	1) Allegheny-Cumberland Sandstone Box Canyon and Rockhouse, 2) Central Interior Acidic Cliff and Talus, 3) Central Interior Calcareous Cliff and Talus, 4) Cumberland Acid Cliff, 5) North-Central Appalachian Acidic Cliff and Talus, 6) North-Central Appalachian Circumneutral Cliff and Talus, 7) Southern Appalachian Montane Cliff & Talus, 8) Southern Appalachian Spray Cliff, 9) Southern Interior Calcareous Cliff, 10) Southern Interior Sinkhole Wall
		Grassland / Woodland	Prairie / Barrens	1) East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland, 2) East Gulf Coastal Plain Jackson Plain Prairie and Barrens, 3) Eastern Highland Rim Prairie and Barrens, 4) Pennyroyal Karst Plain Prairie and Barrens, 5) Southern Ridge and Valley Patch Prairie, 6) Western Highland Rim Prairie and Barrens
			Glade / Barrens	1) Appalachian Shale Barrens, 2) Central Interior Highlands Calcareous Glade and Barrens, 3) Central Interior Highlands Dry Acidic Glade and Barrens, 4) Cumberland Sandstone Glade and Barrens, 5) Nashville Basin Limestone Glade, 6) Ridge and Valley Calcareous Valley Bottom Glade and Woodland, 7) Southern and Central Appalachian Mafic Glade and Barrens
			Bald / Summit	1) Southern Appalachian Grass and Shrub Bald, 2) Southern Appalachian Rocky Summit
		Wetland	Riparian Wetland	1) Cumberland Riverscour, 2) East Gulf Coastal Plain Large River Floodplain Forest, 3) East Gulf Coastal Plain Northern Seepage Swamp 4) East Gulf Coastal Plain Small Stream and River Floodplain Forest, 5) Lower Mississippi River Bottomland and Floodplain Forest, 6) Lower Mississippi River Bottomland Depressions, 7) South-Central Interior Large Floodplain, 8) South-Central Interior Small Stream and Riparian
			Isolated Wetland	1) Central Interior Highlands and Appalachian Sinkhole and Depression Pond, 2) Cumberland Seepage Forest, 3) South-Central Interior / Upper Coastal Plain Wet Flatwoods, 4) Southern and Central Appalachian Bog and Fen, 5) Southern Appalachian Seepage Wetland, 6) Western Highland Rim Seepage Fen
		Semi-natural	Forestland	Forest Plantation
	Urban / Suburban Managed Forest			(Not applicable)
	Grassland / Woodland			Old Field / Successional
	Grassland / Woodland		Pasture	(Not applicable)
			Cropland	(Not applicable)
			Urban / Suburban Managed Grassland	(Not applicable)
			Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	(Not applicable)
	Wetland		Converted Wetland (Palustrine)	(Not applicable)
			Converted Wetland (Riverine)	(Not applicable)
			Converted Wetland (Lacustrine)	(Not applicable)
	Non-natural	Developed Land	Edifice / Other Man-made Structure	(Not applicable)
Impervious Landscape			(Not applicable)	
Aquatic	Natural	Riverine	Large River	8 Large River Aquatic Systems - (note: see FWI aquatic system classification for more details)
			Medium River	11 Medium River Aquatic Systems - (note: see FWI aquatic system classification for more details)
			Small River	20 Small River Aquatic Systems - (note: see FWI aquatic system classification for more details)
			Creek / Headwater Stream	90 Creek/Headwater Aquatic Systems - (note: see FWI aquatic system classification for more details)
	Semi-natural	Lacustrine	Lake	(note: covered under riverine aquatic systems in FWI)
		Riverine	Channelized River / Stream	(Not applicable)
Semi-natural	Lacustrine	Reservoir	(Not applicable)	
	Subterranean	Natural	Karst	Cave / Sinkhole
Semi-natural		Artificial Karst	Excavated Land (Mine Shaft / Rock Quarry / Tunnel)	(Not applicable)

DISTRIBUTION OF NATURESERVE TERRESTRIAL ECOLOGICAL SYSTEMS											
Ecological System	Natural	Vegetated	Upland	Wetland	Spatial Scale & Pattern	TN CWCS Ecoregions					
						MSAP	UGCP	ILP	CP&M	R&V	SBR
Allegheny-Cumberland Dry Oak Forest and Woodland	TRUE	TRUE	TRUE	FALSE	1				Yes	Yes	No? (small)
Allegheny-Cumberland Sandstone Box Canyon and Rockhouse	TRUE	FALSE	TRUE	FALSE	2		No?		Yes		
Appalachian Hemlock-Hardwood Forest	TRUE	TRUE	TRUE	FALSE	1				Yes?	Yes?	Yes
Appalachian Shale Barrens	TRUE	FALSE	TRUE	FALSE	3				Yes	Yes	Yes
Central and Southern Appalachian Northern Hardwood Forest	TRUE	TRUE	TRUE	FALSE	2						Yes
Central and Southern Appalachian Spruce-Fir Forest	TRUE	TRUE	TRUE	FALSE	2						Yes
Central Interior Acidic Cliff and Talus	TRUE	FALSE	TRUE	FALSE	3			Yes			
Central Interior Calcareous Cliff and Talus	TRUE	FALSE	TRUE	FALSE	3			Yes			
Central Interior Highlands and Appalachian Sinkhole and Depression Ponc	TRUE	TRUE	FALSE	TRUE	3			Yes	Yes	Yes	
Central Interior Highlands Calcareous Glade and Barrens	TRUE	TRUE	TRUE	FALSE	3		Yes	Yes	No?	No?	
Central Interior Highlands Dry Acidic Glade and Barrens	TRUE	TRUE	TRUE	FALSE	3		Yes	Yes			
Cumberland Acid Cliff (old name = Southern Interior Acid Cliff)	TRUE	FALSE	TRUE	FALSE	3				Yes	No?	
Cumberland Riverscour	TRUE	TRUE	FALSE	TRUE	4				Yes		
Cumberland Sandstone Glade and Barrens	TRUE	TRUE	TRUE	FALSE	3				Yes		
Cumberland Seepage Forest	TRUE	TRUE	FALSE	TRUE	3				Yes	No?	
East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland	TRUE	TRUE	TRUE	FALSE	2		Yes				
East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest	TRUE	TRUE	TRUE	FALSE	1		Yes				
East Gulf Coastal Plain Jackson Plain Prairie and Barrens		TRUE	TRUE	FALSE	2		Yes				
East Gulf Coastal Plain Large River Floodplain Forest	TRUE	TRUE	FALSE	TRUE	4		Yes				
East Gulf Coastal Plain Limestone Forest	TRUE	TRUE	TRUE	FALSE	2		Yes				
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest (old name = East Gulf Coastal Plain N. Pontotoc Ridge, Upper Loam Hills Dry Hardwood Upland)	TRUE	TRUE	TRUE	FALSE	1		Yes				
East Gulf Coastal Plain Northern Loess Bluff Forest	TRUE	TRUE	TRUE	FALSE	2		Yes				
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	TRUE	TRUE	TRUE	FALSE	1		Yes				
East Gulf Coastal Plain Northern Mesic Hardwood Forest	TRUE	TRUE	TRUE	FALSE	2		Yes				
East Gulf Coastal Plain Northern Seepage Swamp	TRUE	TRUE	FALSE	TRUE	2		Yes				
East Gulf Coastal Plain Small Stream and River Floodplain Forest	TRUE	TRUE	FALSE	TRUE	4		Yes				
Eastern Highland Rim Prairie and Barrens	TRUE	TRUE	TRUE	FALSE	3			Yes			
Lower Mississippi River Bottomland and Floodplain Forest	TRUE	TRUE	FALSE	TRUE	1	Yes					
Lower Mississippi River Bottomland Depressions	TRUE	TRUE	FALSE	TRUE	2	Yes					
Nashville Basin Limestone Glade	TRUE	TRUE	TRUE	FALSE	3			Yes			
North-Central Appalachian Acidic Cliff and Talus	TRUE	FALSE	TRUE	FALSE	3						Yes
North-Central Appalachian Circumneutral Cliff and Talus	TRUE	FALSE	TRUE	FALSE	3						Yes?
Northeastern Interior Dry Oak Forest	TRUE	TRUE	TRUE	FALSE	1						No?
Pennyroyal Karst Plain Prairie and Barrens	TRUE	TRUE	TRUE	FALSE	3			Yes			
Ridge and Valley Calcareous Valley Bottom Glade and Woodland	TRUE	TRUE	TRUE	FALSE	3						Yes
South-Central Interior Large Floodplain	TRUE	TRUE	TRUE	TRUE	4			Yes	Yes	Yes	Yes
South-Central Interior / Upper Coastal Plain Flatwoods (old name = East Gulf Coastal Plain Jackson Plain Dry Flatwoods)	TRUE	TRUE	TRUE	FALSE	2		Yes	Yes?			
South-Central Interior / Upper Coastal Plain Wet Flatwoods (old name = East Gulf Coastal Plain Jackson Plain Wet Flatwoods)	TRUE	TRUE	FALSE	TRUE	2		Yes	Yes?			
South-Central Interior Mesophytic Forest	TRUE	TRUE	TRUE	FALSE	2		Yes	Yes	Yes	Yes	
South-Central Interior Small Stream and Riparian	TRUE	TRUE	TRUE	TRUE	4		No?	Yes	Yes	Yes	Yes
Southern and Central Appalachian Bog and Fen	TRUE	TRUE	FALSE	TRUE	3					No?	Yes
Southern and Central Appalachian Cove Forest	TRUE	TRUE	TRUE	FALSE	2				Yes	Yes	Yes
Southern and Central Appalachian Mafic Glade and Barrens	TRUE	TRUE	TRUE	FALSE	3						Yes
Southern and Central Appalachian Oak Forest	TRUE	TRUE	TRUE	FALSE	2					Yes	Yes
Southern Appalachian Grass and Shrub Bald	TRUE	TRUE	TRUE	FALSE	3						Yes
Southern Appalachian Low Mountain Pine Forest	TRUE	TRUE	TRUE	FALSE	2			No?	Yes	Yes	Yes
Southern Appalachian Montane Cliff and Talus (old name = Southern Appalachian Montane Cliff)	TRUE	TRUE	TRUE	FALSE	3				Yes?	Yes?	Yes
Southern Appalachian Montane Pine Forest and Woodland (old name = Southern Appalachian Montane Pine Forest)	TRUE	TRUE	TRUE	FALSE	2				Yes	Yes	Yes
Southern Appalachian Rocky Summit	TRUE	FALSE	TRUE	FALSE	2						Yes
Southern Appalachian Seepage Wetland	TRUE	TRUE	FALSE	TRUE	3						Yes
Southern Appalachian Spray Cliff	TRUE	FALSE	TRUE	FALSE	3				Yes?	Yes?	Yes
Southern Interior Calcareous Cliff	TRUE	FALSE	TRUE	FALSE	3				No?	Yes	Yes?
Southern Interior Low Plateau Dry Oak Forest (old name = South-Central Interior Highlands Dry Oak Forest)	TRUE	TRUE	TRUE	FALSE	1			Yes			
Southern Interior Sinkhole Wall	TRUE	FALSE	TRUE	FALSE	3			Yes		Yes	Yes
Southern Ridge and Valley Patch Prairie	TRUE	TRUE	TRUE	FALSE	3					Yes	
Western Highland Rim Prairie and Barrens	TRUE	TRUE	TRUE	FALSE	3			Yes			
Western Highland Rim Seepage Fen	TRUE	TRUE	FALSE	TRUE	3			Yes			

DESCRIPTIONS OF NATURESERVE TERRESTRIAL ECOLOGICAL SYSTEMS	
Ecological System Name	Description
Allegheny-Cumberland Dry Oak Forest and Woodland	This system encompasses dry hardwood forests on predominately acidic substrates in the Allegheny and Cumberland plateaus, and ridges in the Ridge and Valley. This system can also be found as small isolated patches in the Southern Blue Ridge. Its range is more or less consistent with the "Mixed Mesophytic Forest Region" of Braun (1950) and Greller (1988), although it is not a mesic forest type. These forests are typically dominated by <i>Quercus alba</i> , <i>Quercus falcata</i> , <i>Quercus prinus</i> , <i>Quercus coccinea</i> , with lesser amounts of <i>Acer rubrum</i> , <i>Carya glabra</i> , and <i>Carya alba</i> . Small inclusions of <i>Pinus echinata</i> and/or <i>Pinus virginiana</i> may occur, particularly adjacent to escarpments or following fire. In addition, <i>Pinus strobus</i> may be invading some stands in the absence of fire. These occur in a variety of situations, including on nutrient-poor or acidic soils. Sprouts of <i>Castanea dentata</i> can often be found where it was formerly a common tree.
Allegheny-Cumberland Sandstone Box Canyon and Rockhouse	This system includes a mosaic of cavelike features (often called "rockhouses") and associated sandstone box canyons in the western Appalachian foothills regions of Kentucky, Alabama, West Virginia, and possibly southeastern Ohio. The rockhouses are the most unique and diagnostic feature of the system. The unusual geological features are created by spray and rock-cracking from seasonal flowing waterfalls at the heads of canyons amidst thick layers of sandstones from the Pennsylvanian geological period. The ceiling of the rockhouse may be 50 meters tall, and they can be as much as 100 meters deep. They require sufficient flowing water and freezing and thawing to weather the thick beds of sandstone. These conditions seem to be restricted to the western margin of the Appalachian Plateau. Examples of this system usually include a vegetational mosaic that includes hemlock bluffs, sandstone cliffs, overhangs near the base of a cliff (often with sandy area beneath the overhang which is shaded and protected from direct rainfall, as well as glade-like vegetation at the horizontal portion of the cliffs). The rockhouses in the southern parts of the range are habitats for the rare vascular plant species such as <i>Minuartia cumberlandensis</i> and <i>Ageratina luciae-brauniae</i> and sometimes support populations of rare nonvascular plants. In Kentucky, one obligate rare plant is <i>Solidago algopilosa</i> .
Appalachian Hemlock-Hardwood Forest	This forested system of the northeastern U.S. ranges from central New England west to Lake Erie and south to Virginia, continuing down the Appalachians to Georgia. It is one of the matrix forest types in the northern part of the Central Interior and Appalachian Division, in which <i>Tsuga canadensis</i> (or in some cases <i>Pinus strobus</i>) is mixed with northern hardwoods such as <i>Acer saccharum</i> and <i>Fagus grandifolia</i> , as well as with <i>Quercus</i> spp. (most commonly <i>Quercus rubra</i>), <i>Liriodendron tulipifera</i> , <i>Prunus serotina</i> , and <i>Betula lenta</i> (or other <i>Betula</i> spp.). It is of more limited extent and more ecologically constrained to the south of this area.
Appalachian Shale Barrens	This system encompasses the distinctive shale barrens of the central and southern Appalachians. These open to partially wooded barrens are found at low to mid elevations. The exposure and lack of soil create extreme conditions for plant growth. Vegetation is mostly classified as woodland but may include large open areas of sparse vegetation. The substrate includes areas of solid rock as well as unstable areas of shale scree, usually steeply sloped. The fully exposed areas are extremely dry. These barrens are high in endemic species.
Central and Southern Appalachian Northern Hardwood Forest	This system consists of hardwood forests of the higher elevation zones of the Southern Appalachians, generally above 4500 feet. Included are classic northern hardwood forests as well as high-elevation oak forests. Thus, examples may be dominated by <i>Quercus rubra</i> or various combinations of mesophytic hardwoods. High-elevation climate is the most important ecological factor. Included in this system are limited areas locally known as "beech gaps" and "boulderfields."
Central and Southern Appalachian Spruce-Fir Forest	This system consists of forests in the highest elevation zone of the Southern Blue Ridge, generally dominated by <i>Picea rubens</i> or <i>Abies fraseri</i> . Examples occur above 5500 feet, up to the highest peaks. Elevation and orographic effects make the climate cool and wet, with heavy moisture input from fog as well as high rainfall. Strong winds, extreme cold, rime ice, and other extreme weather are periodically important.
Central Interior Acidic Cliff and Talus	This system is found primarily in the Interior Highlands including the Ozark, Ouachita, and Interior Low Plateau ecoregions. Sandstone outcrops and talus ranging from moist to dry typify this system. It is typically sparsely vegetated, however, on moister sites with more soil development several fern species and sedges (<i>Carex</i> spp.) can establish. Wind and water erosion are the major dynamics influencing this system.
Central Interior Calcareous Cliff and Talus	This system is found primarily in non-Appalachian portions of the Central Interior Division. It ranges from the Ouachitas east to the Cumberlands and north into the Western Allegheny Plateau and Lake states. Limestone and dolomite outcrops and talus distinguish this system. Examples range from moist to dry and from sparsely to moderately well-vegetated. Woodland species such as <i>Thuja occidentalis</i> can establish along the ridgetops. Understory species can range from grassland species such as <i>Andropogon gerardii</i> on drier slopes to more mesic species in areas with higher moisture and more soil development. Wind and water erosion along with fire are the primary natural dynamics influencing this system.
Central Interior Highlands and Appalachian Sinkhole and Depression Pond	This system of ponds and wetlands is found in the Interior Highlands of the Ozark, Ouachita, and Interior Low Plateau regions, ranging north from the southern and central Appalachians to the Northern Piedmont regions. Stands occur in basins of sinkholes or other isolated depressions on uplands. Soils are very poorly drained, and surface water may be present for extended periods of time, rarely becoming dry. Water depth may vary greatly on a seasonal basis, and may be a meter deep or more in the winter. Some examples become dry in the summer. Soils may be deep (100 cm or more), consisting of peat or muck, with parent material of peat, muck or alluvium. Ponds vary from open water to herb-, shrub-, or tree-dominated systems. Tree-dominated examples typically contain <i>Quercus</i> species, <i>Platanus occidentalis</i> , <i>Fraxinus pennsylvanica</i> , <i>Acer saccharinum</i> or <i>Nyssa</i> species, or a combination of these. In addition, <i>Liquidambar styraciflua</i> may be present in southern examples. <i>Cephalanthus occidentalis</i> is a typical shrub component. The herbaceous layer is widely variable depending on geography.
Central Interior Highlands Calcareous Glade and Barrens	This system is found primarily in the Interior Highlands of the Ozark, Ouachita, and Interior Low Plateau regions along moderate to steep slopes and steep valleys on primarily southerly to westerly facing slopes. Limestone and/or dolomite bedrock typify this system with shallow, moderately to well-drained soils interspersed with rocks. These soils often dry out during the summer and autumn, and then become saturated during the winter and spring. <i>Schizachyrium scoparium</i> dominates this system and is commonly associated with <i>Andropogon gerardii</i> , <i>Bouteloua curtipendula</i> , and calcium-loving plant species. Stunted woodlands primarily dominated by <i>Quercus muehlenbergii</i> interspersed with <i>Juniperus virginiana</i> occur on variable-depth-to-bedrock soils. Fire is the primary natural dynamic, and prescribed fires help manage this system by restricting woody growth and maintaining the more open glade structure.
Central Interior Highlands Dry Acidic Glade and Barrens	This system is found in the Interior Highlands of the Ozark, Ouachita, and Interior Low Plateau regions. It occurs along moderate to steep slopes or valley walls of rivers along most aspects. Parent material includes chert, igneous and/or sandstone bedrock with well-to excessively well-drained, shallow soils interspersed with rock and boulders. These soils are typically dry during the summer and autumn, becoming saturated during the spring and winter. Grasses such as <i>Schizachyrium scoparium</i> and <i>Sorghastrum nutans</i> dominate this system with stunted oak species (<i>Quercus stellata</i> , <i>Quercus marilandica</i>) and shrub species such as <i>Vaccinium</i> spp. occurring on variable depth soils. This system also includes dry <i>Quercus stellata</i> -dominated barrens on Cretaceous-aged gravel substrates on the northern fringes of the Upper East Gulf Coastal Plain Ecoregion in southern Illinois and western Kentucky. This system is influenced by drought and infrequent to occasional fires. Prescribed fires help manage this system by maintaining an open glade structure.
Cumberland Acid Cliff (old name = Southern Interior Acid Cliff)	This sandstone cliff system is found in the Cumberland Plateau and Mountain regions of the southeastern United States. Examples are extremely steep or vertical rock faces exposed along bluffs often associated with rivers. Aspect is variable, but best developed south and west. Vascular plants, lichens, and nonvascular plants are all infrequent, due to the lack of crevices capable of accumulating soil, the highly acidic nature of the bedrock, and the frequent weathering and erosion of the substrate. These cliffs are also prone to harsh climatic conditions, and frequent disturbances include drought stress and wind and storm damage. As a result, examples are characterized by sparse herbaceous cover vegetation and few, if any, trees, are present. Vegetation consists of scattered individuals of <i>Asplenium montanum</i> , <i>Silene rotundifolia</i> , and other species rooted in crevices and erosion pockets. In some parts of its range, this system is the primary or sole habitat for rare endemic species, such as <i>Minuartia cumberlandensis</i> .
Cumberland Riverscour	Examples of this river scour-influenced system may occur on high-gradient and very high-gradient streams in the gorges of the Cumberland Plateau, the Cumberland Mountains, and the more rugged parts of the Ridge and Valley, in Kentucky, Tennessee, and Alabama, and possibly in Georgia. The succession of woody plants (particularly trees) is retarded by the force of "flashy", high-velocity water traveling down the stream channels. This system may occur on flood-scoured acidic or calcareous bedrock, cobble, pebble, or sandbar substrates of sandstone, limestone, dolomite, and possibly other sedimentary and weakly metamorphosed geologies. The most distinctive parts of the system are dominated by shrubs, perennial grasses, and forbs. In some areas, a riparian woodland composed of <i>Betula nigra</i> and <i>Platanus occidentalis</i> may be a component association. Some common shrub component species include <i>Alnus serrulata</i> , <i>Betula nigra</i> , <i>Cephalanthus occidentalis</i> , <i>Cornus amomum</i> , <i>Fothergilla major</i> , <i>Itea virginica</i> , <i>Salix caroliniana</i> , <i>Rhododendron arborescens</i> , <i>Toxicodendron radicans</i> , and <i>Juniperus virginiana</i> var. <i>virginiana</i> . Some grasses (typical of prairies) include <i>Andropogon gerardii</i> , <i>Sorghastrum nutans</i> , <i>Schizachyrium scoparium</i> , <i>Chasmanthium latifolium</i> , <i>Tripsacum dactyloides</i> and/or <i>Panicum virgatum</i> . Forbs are diverse and variable from occurrence to occurrence. This system is prone to flooding in the upper regions and deposition in the topographically lower areas. There is typically a gradient from dry acidic conditions higher on the bank to moist, fairly enriched conditions lower down may exist at any one site. It is prone to severe drought periods that may stress or kill some vegetation. Flood scouring is a powerful and ecologically important abrasive force along the riverbanks where this system is found.
Cumberland Sandstone Glade and Barrens	This system encompasses a complex of sparsely vegetated rock outcrops, perennial grasslands, and woodlands on shallow soils on the Cumberland Plateau of Tennessee, Alabama, and Georgia. Herbaceous plants, including <i>Diamorpha smallii</i> and <i>Minuartia glabra</i> , are typical of the outcrops in Tennessee. In Alabama, <i>Bigelovia nuttallii</i> and <i>Schizachyrium scoparium</i> are important. <i>Pinus virginiana</i> and <i>Acer rubrum</i> are typical of the woodlands surrounding these outcrops on the Cumberland Plateau. Scattered shrubs, such as <i>Vaccinium arboreum</i> and <i>Chionanthus virginicus</i> , occur on the margins in patches of deeper soil. Fruticose lichens such as <i>Cladonia</i> spp. and <i>Cladina</i> spp. may be prominent in some examples. To the west, in the Interior Highlands (Ozark, Ouachita, and Interior Low Plateau regions), this system is replaced by Central Interior Highlands Dry Acidic Glade and Barrens (CES202.692) (both are found in Kentucky, with the latter in the Shawnee Hills of the Interior Low Plateau).
Cumberland Seepage Forest	This system of seepage-influenced, primarily forested wetlands is found in the Cumberland Plateau and Ridge and Valley regions of Alabama, Tennessee, West Virginia, and Kentucky. Examples most often occur in streamhead swales or on broad sandstone ridges where soils are sandy and saturated due to a combination of perched water table and seepage flow. Examples range in condition from open woodlands to forests, and some may lack a canopy and then will be dominated by shrubs or herbs. Typical woody species, when present, include <i>Acer rubrum</i> , <i>Nyssa sylvatica</i> , <i>Liriodendron tulipifera</i> , <i>Liquidambar styraciflua</i> , <i>Ilex opaca</i> var. <i>opaca</i> , <i>Oxydendrum arboreum</i> , and <i>Kalmia latifolia</i> .
East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland	This system includes natural grassland vegetation and associated wooded vegetation in a relatively small natural region (approximately 480 km (300 miles) long and 40-50 km (25-30 miles) wide) of Mississippi and Alabama north to a small part of southern Tennessee (Black Belt Subsection 231Ba of Keys et al. 1995; Blackland Prairie Ecoregion 65a of Griffith et al. 2001). This region, which generally derives its name from the nearly black, rich topsoil that developed over Selma Chalk, has long been noted as a distinct topographic region in the state of Mississippi (Lowe 1921). Examples occur over relatively deep soils (as opposed to "glades and barrens"), with circumneutral surface soil pH. However, like other Mississippi Embayment Prairie systems, this type occurs in a matrix of acid soils and generally forested vegetation. In most cases individual prairie openings are small and isolated from one another, but were formerly more extensive prior to European settlement forming a mosaic of grasslands and woodlands under frequent fire regimes. Much of the natural vegetation of the region has been converted to pasture and agricultural uses, but even old-field vegetation reflects the distinctive composition of the flora and ecological dynamics. The flora has much in common with other prairies of the Mississippi Embayment as well as the classic Midwestern prairies.

Appendix D. Habitat Information for GCN Species

<p>East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest</p>	<p>This forested system of the East Gulf Coastal Plain occurs most extensively on generally rolling uplands north of the range of <i>Pinus palustris</i>. It was the historical matrix in large areas of the region in Alabama and Mississippi, particularly between about 32 degrees 30 minutes N latitude (the approximate local northern limit of the historic range of <i>Pinus palustris</i>), and about 35 degrees N latitude (the approximate limit where relatively extensive examples of <i>Pinus echinata</i> are replaced by predominantly hardwood-dominated systems, although isolated examples of this system may occur both north and south of these boundaries in limited areas. Stands tend to occur on generally well-drained sandy or clayey soils with dry to dry-mesic moisture regimes. <i>Pinus echinata</i> is the dominant pine species of the generalized "dry and dry-mesic oak-pine" forest type in the Gulf Coastal Plain (White and Lloyd 1998) and is the most characteristic floristic component of this system. The actual amount of <i>Pinus echinata</i> present varies based on a number of factors, but intact examples of this system often include stands that are dominated by <i>Pinus echinata</i> grading into stands with a mixture of upland hardwoods. Locally, on mid to lower slopes, <i>Pinus taeda</i> may be a component, extending further upslope in the absence of fire. Fire is possibly the most important natural process affecting the floristic composition and vegetation structure of this system, although fire-return intervals are lower than those associated with the East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland (CES203.496). <i>Pinus echinata</i> may have difficulty replacing itself in the absence of fire, particularly on sites other than the driest ones (Eyre 1980). Landers (1989) inferred a fire-return interval of 10 times per century for <i>Pinus echinata</i>. Local topographic conditions affecting natural fire compartment size generally lend themselves to this fire frequency, although some examples may have more frequent fires and some less than this generalized value. Where fire is most frequent the system may develop a relatively pure canopy of <i>Pinus echinata</i> typified by a very open woodland structure with scattered overstory trees and an herbaceous-dominated understory: such examples are rare on the modern landscape. More typical are areas in which <i>Quercus</i> spp., <i>Carya</i> spp., <i>Liquidambar styraciflua</i>, <i>Liriodendron tulipifera</i>, <i>Acer</i> spp., and <i>Nyssa sylvatica</i> have become prominent in the midstory and even overstory and in which herbaceous patches are rare. Although the general distributional boundaries described above, indicate where this system formed an historical landscape matrix, smaller patches of the system may also be present in limited areas both north and south of these boundaries. Although Lawson (1990) maps the native range of shortleaf throughout a relatively large area of western Tennessee, the actual distribution of the species appears to be much more confined and almost ???</p>
<p>East Gulf Coastal Plain Jackson Plain Prairie and Barrens</p>	<p>This ecological system was locally dominant in the Jackson Purchase area of western Kentucky, extending into limited areas of adjacent Tennessee. This central region, called the Barrens, has been historically subdivided from the rest of the Coastal Plain region of Kentucky (Davis 1923, Bryant and Martin 1988). A number of early reports mentioned extensive prairies in this region, and also emphasized the importance of annual fires in maintaining these grasslands [see references in Bryant and Martin (1988)]. Interspersed among the extensive grasslands were likely scattered groves of oaks, especially those tolerant of frequent fires (M. Evans pers. comm.). Among the most frequent trees historically present in the entire region were <i>Quercus stellata</i>, <i>Quercus velutina</i>, and <i>Quercus marilandica</i> (Bryant and Martin 1988). With fire suppression groves of trees rapidly expanded and largely replaced the prairies. In general, this system was found on gravelly uplands (Evans 1991) and possibly other xeric upland, shallow soil environments in the northern part of the Upper East Gulf ecoregion. High-quality examples would support a dense herbaceous layer dominated by tall grasses such as <i>Schizachyrium scoparium</i>, but the floristic composition of this type is poorly known since so few extant examples remain (M. Evans pers. comm.).</p>
<p>East Gulf Coastal Plain Large River Floodplain Forest</p>	<p>This system represents a geographic subset of Kuchler's (1964) Southern Floodplain Forest. Examples may be found along large rivers of the East and Upper East Gulf Coastal Plain, especially the Apalachicola, Alabama, Tombigbee, Pascagoula, and Pearl rivers, all of which ultimately drain into the Gulf of Mexico. Several distinct plant communities can be recognized within this system that may be related to the array of different geomorphologic features present within the floodplain. Some of the major geomorphic features associated with different community types include natural levees, point bars, meander scrolls, oxbows, and sloughs (Sharitz and Mitsch 1993). Vegetation generally includes forests dominated by bottomland hardwood species and other trees tolerant of flooding. However, herbaceous and shrub vegetation may be present in certain areas as well.</p>
<p>East Gulf Coastal Plain Limestone Forest</p>	<p>This system represents deciduous forests of the East Gulf Coastal Plain where limestone or other calcareous substrate occurs near enough to the surface to influence vegetation composition. Examples are most common in the Black Belt region of Alabama and Mississippi, but are also present in more isolated patches in other portions of the region, including western Alabama, northern Florida, and western Tennessee. Generally, the vegetation consists of forests and woodlands on well-developed, deep soils. Related vegetation surrounding rock outcrops and calcareous prairies is accommodated under other ecological systems.</p>
<p>East Gulf Coastal Plain Northern Dry Upland Hardwood Forest (old name = East Gulf Coastal Plain N. Pontotoc Ridge, Upper Loam Hills Dry Hardwood Upland)</p>	<p>This system represents dry, upland, predominately hardwood forests of limited portions of the Coastal Plain of western Kentucky and Tennessee, northern Mississippi and Alabama. The core range of this type lies within the Northern Hilly Coastal Plain (Level IV ecoregion 65e) of Omernik (EPA 2001), which includes the Northern Pontotoc Ridge (222Cf), Upper Loam Hills (222Cg), and Northern Loessal Hills (222Ce) subsections of Keys et al. (1995). These areas occupy the eastern margin of the upper Coastal Plain where elevation is greatest and influence of loess is less than adjacent areas to the west. The vegetation has been broadly considered distinct from other Coastal Plain forests (Bryant et al. 1993, Fralish and Franklin 2002) but has received almost no specific study. Although vastly forested when compared to the loess plains to the west (USGS 1992), most of the vegetation is recovering from one or more forms of severe disturbance (Franklin and Kupfer 2000). <i>Quercus alba</i> dominates the upland forests which have been studied in a limited portion of this area (Franklin and Kupfer 2000), but communities have not been described to the same detail as in other ecological systems.</p>
<p>East Gulf Coastal Plain Northern Loess Bluff Forest</p>	<p>This system is largely confined to steep bluffs bordering the northern portion of the eastern edge of the Mississippi River Alluvial Plain. The geology is typically mapped as the Jackson Formation. These bluffs extend up to 150 m (500 feet) in elevation and from 30 to 60 m (100-200 feet) above the adjacent plain. They consist of a belt of Pleistocene and Tertiary eolian deposits (Braun 1950) that are often deeply eroded and very steep, with fertile top soil and abundant moisture (Miller and Neiswander 1987). The vegetation is often richer than surrounding non-loessal areas, or those with only thin loess deposits. The forests found on these bluffs are intermediate in soil moisture for the region, and may best be thought of as mesic. The vegetation may be sometimes referred to as western mesophytic forest, and may share some superficial similarities with cove forests of the Interior Highlands. In many cases, these bluffs provide habitat for plant species that are rare or absent from other parts of the Coastal Plain. Braun (1950) noted that the composition of forest changes from north to south along the bluffs: more southerly examples are represented by the East Gulf Coastal Plain Southern Loess Bluff Forest (CES203.556), and these would contain <i>Magnolia grandiflora</i> as an important component. As currently defined this system ranges from about 32 degrees N latitude (where the Big Black River cuts through the bluffs), and occurs only in the westernmost portions of the Upper East Gulf Coastal Plain, including northern and central Mississippi, western Tennessee, and western Kentucky.</p>
<p>East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland</p>	<p>This is the former matrix hardwood system flanking the loess bluffs of the most northern portions of the Upper East Gulf Coastal Plain of western Tennessee, western Kentucky, southern Illinois, and northern Mississippi. The core distribution of this system is mapped as the Loess Plains (Level IV ecoregion 74b) of Omernick (EPA 2001). Extensive forests once covered this broad area of generally flat to rolling uplands. Most have been cleared for agriculture due to the rich, productive soils derived from relatively thick loess deposits. The areal extent of this forested system has been so heavily reduced, that the component community types remain undocumented and speculative at best.</p>
<p>East Gulf Coastal Plain Northern Mesic Hardwood Forest</p>	<p>This system includes mesic deciduous hardwood forests of inland portions of the East Gulf Coastal Plain, including Alabama, Mississippi, western Kentucky, and western Tennessee. This system covers parts of the more mesic forests in the Western Mesophytic Forest Region of Braun (1950) referred to as mesophytic mixed hardwoods, as well as mesic forests in the adjacent "Oak-Pine-Hickory" region to the south (Greller 1988). Examples of this system occur on slopes and ravines between dry uplands and stream bottoms. Mesic forests of the loess bluffs are treated in separate ecological systems, being confined to that landform of steep bluffs and ravines on deep loess. The most characteristic feature of the vegetation in some examples may be <i>Fagus grandifolia</i>, but a variety of other hardwood species may also be found in the overstory, and <i>Fagus grandifolia</i> may not always be present. Some stands may be dominated by <i>Fagus grandifolia</i> and <i>Quercus alba</i>, others by <i>Quercus alba</i> or <i>Quercus pagoda</i> with other mesic hardwoods. In addition, <i>Pinus taeda</i> may be common in some examples in the southern portion of the range, and depending on previous disturbance and site conditions may be locally dominant [see CEG004763]. To the south this system is replaced by East Gulf Coastal Plain Southern Mesic Slope Forest (CES203.476), which are within the range of <i>Pinus glabra</i> and <i>Magnolia grandiflora</i>. Most of the vegetation is recovering from one or more forms of severe disturbance (Franklin and Kupfer 2000).</p>
<p>East Gulf Coastal Plain Northern Seepage Swamp</p>	<p>This wetland system of the East Gulf Coastal Plain consists of forested wetlands in acidic, seepage-influenced habitats. These are mostly deciduous forests (and less commonly herbaceous communities) generally found at the base of slopes or other habitats where seepage flow is concentrated. Resulting moisture conditions are saturated or even inundated. The vegetation is characterized by <i>Nyssa sylvatica</i>, <i>Nyssa biflora</i>, and <i>Acer rubrum</i>. Examples occur in portions of the Coastal Plain north of the range of <i>Persea borbonia</i>, <i>Magnolia grandiflora</i>, and the limit where <i>Magnolia virginiana</i> is an important or even dominant species. To the south this system grades into Southern Coastal Plain Seepage Swamp and Baygall (CES203.505), where evergreen species are important in the canopy and understory. Due to excessive wetness, these habitats are normally protected from fire except those which occur during extreme droughty periods. These environments are prone to long-duration standing water, and tend to occur on highly acidic, nutrient-poor soils.</p>
<p>East Gulf Coastal Plain Small Stream and River Floodplain Forest</p>	<p>This is a predominately forested system of the East Gulf Coastal Plain associated with small brownwater rivers and creeks. In contrast to East Gulf Coastal Plain Large River Floodplain Forest (CES203.489), it has fewer major geomorphic floodplain features typically associated with large rivers floodplains. Those features that are present tend to be smaller and more closely intermixed with one another, resulting in less obvious vegetational zonation. Bottomland hardwood tree species are typically important and diagnostic, although mesic hardwood species are also present in areas with less inundation, such as upper terraces and possibly second bottoms. As a whole, flooding occurs annually, but the water table usually is well below the soil surface throughout most of the growing season. Areas impacted by beaver impoundments are also included in this system.</p>
<p>Eastern Highland Rim Prairie and Barrens</p>	<p>This system represents "The Barrens" of the Southeast Highland Rim of Tennessee. This is a distinctive part of the state and ecoregion (the "Dickson-Mountview-Guthrie" Soil Association of Elder and Springer 1978, Springer and Elder 1980). It includes a series of plant communities with open canopies, ranging from herbaceous-dominated barrens (some of which are maintained today by mowing instead of fire and grazing) through savanna and woodland types. Open ponds and other wetlands are scattered throughout the landscape. The variety of relatively open habitats which are present here include prairie-like areas, as well as savanna woodlands and upland depression ponds.</p>

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Lower Mississippi River Bottomland and Floodplain Forest	This system includes the floodplain communities of the lower Mississippi River (from southern Illinois to the Gulf of Mexico) and its larger tributaries. The larger tributaries included in this system are particularly well-developed west of the Mississippi. These tributaries include the eastern portions of the Arkansas River, the lower Ouachita River, the St. Francis River, and the Red River. Collectively, this system represents the largest single example of Southern Floodplain Forest (Kuchler 1964). The north-south extent of this ecosystem is approximately 750 km. As described here, this system includes substantial hydrological and floristic variation. Changes of a few centimeters in elevation may produce great variation in hydrologic conditions, soils, and vegetation (Sharitz and Mitsch 1993). The hydroperiod and its timing ultimately determine the species composition and influences structure and function. Component stands may be temporarily or seasonally flooded, and typically exhibit dominance by <i>Quercus</i> spp., e.g., <i>Quercus texana</i> , <i>Quercus shumardii</i> , <i>Quercus michauxii</i> , <i>Quercus nigra</i> , <i>Quercus phellos</i> , <i>Quercus laurifolia</i> , <i>Quercus lyrata</i> , as well as <i>Nyssa biflora</i> . It is typically thought of as being composed of hardwoods, but some stands may exhibit local codominance by <i>Pinus taeda</i> , particularly following disturbance. There are also stands dominated by various combinations of <i>Acer</i> spp., <i>Celtis</i> spp., <i>Ulmus</i> spp., and/or <i>Platanus occidentalis</i> . Certain early-succession stands may be dominated by <i>Salix nigra</i> , or mixtures of this species and <i>Populus deltoides</i> . Levee and riverfront forests, which have a distinctive composition (typically <i>Betula nigra</i> , <i>Platanus occidentalis</i> , <i>Populus deltoides</i>) but are related by proximity and common processes, are included here. Deeper water areas (e.g., semipermanently flooded depression swamps), which are recognized as a distinct ecological system (Lower Mississippi River Bottomland Depression (CES203.490)), usually support stands of <i>Nyssa aquatica</i> , <i>Taxodium distichum</i> , and a few other taxa which favor longer hydroperiods. The environment for this system potentially occurs wherever the Mississippi River and the specified larger tributaries flood at least occasionally beyond their banks (Sharitz and Mitsch 1993). Processes are typically erosional rather than depositional in this system. These may range up to several kilometers wide. This system is thought to have occupied the majority of the inland wetland acreage in the described range at the time of European settlement (Sharitz and Mitsch 1993). Extensive areas have been converted to agricultural uses, particularly the more elevated terraces, which would flood less frequently. The construction of artificial levees and other flood control devices throughout the range of the type has severely altered the dynamics of much of the remaining acreage. Estimates of the remaining area of floodplain ecosystems in the southeastern states (this area extending beyond the range of this Mississippi River ecosystem type) range from about 6.6 million hectares to about twice this amount.
Lower Mississippi River Bottomland Depression	This system represents semipermanently flooded to saturated depressional areas of the lower Mississippi River Alluvial Valley.
Nashville Basin Limestone Glade	This system encompasses a range of plant communities associated with thin soils on flat areas of Ordovician limestone in the Inner Nashville Basin of Tennessee (Ecoregion 71i of Griffith et al. 1998, EPA 2001; Subsection 222Ed of Keys et al. 1995). The vegetation of this system includes sparsely vegetated rock outcrops, annual <i>Sporobolus</i> spp.-dominated grasslands, <i>Schizachyrium scoparium</i> -dominated perennial grasslands, seasonally wet herbaceous washes and seeps, shrublands, and <i>Juniperus virginiana</i> woodlands. <i>Echinacea tennesseensis</i> and <i>Astragalus bibullatus</i> are completely endemic to this system. There are numerous other disjunct and near-endemic plants.
North-Central Appalachian Acidic Cliff and Talus	Sparsely vegetated to partially wooded cliffs and talus slopes in the Central Appalachians occurring on rocks of acidic lithology and lacking any indicators of enriched conditions. This cliff system occurs at low to mid elevations from central New England south to Tennessee. It consists of vertical or near-vertical cliffs and the talus slopes below, formed on hills of granitic, sandstone, or otherwise acidic bedrock. Most of the substrate is dry and exposed, but small (occasionally large) areas of seepage are often present. Vegetation in seepage areas tends to be more well-developed and floristically different from the surrounding dry cliffs. The vegetation is patchy and often sparse, punctuated with patches of small trees that may form woodlands in places. <i>Juniperus virginiana</i> is a characteristic tree species, <i>Toxicodendron radicans</i> a characteristic woody vine, and <i>Polypodium virginianum</i> a characteristic fern.
North-Central Appalachian Circumneutral Cliff and Talus	This cliff system occurs at low to mid elevations from central New England south to Virginia. It consists of vertical or near-vertical cliffs and steep talus slopes, where weathering and/or bedrock lithology produce circumneutral to calcareous pH and enriched nutrient availability. Substrates include limestone, dolomite, and other rocks. The vegetation varies from sparse, to patches of small trees, in places forming woodland or even forest vegetation. <i>Fraxinus</i> spp., <i>Tilia americana</i> , and <i>Staphylea trifolia</i> are woody indicators of the enriched setting. The herb layer includes at least some species that are indicators of enriched conditions, e.g., <i>Impatiens pallida</i> , <i>Pellaea atropurpurea</i> , <i>Asplenium platyneuron</i> , or <i>Woodсия obtusa</i> .
Pennyroyal Karst Plain Prairie and Barrens	This system consists of open, prairie-like vegetation of the northern Highland Rim (Pennyroyal Plateau) of Tennessee and adjacent Kentucky (Ecoregion 71e [Western Pennyroyal Karst Plain] of Griffith et al. 1998; part of Subsection 222Eh of Keys et al. 1995). Stands are dominated by grasses and forbs with scattered shrubby vegetation and, occasionally, trees. The scattered trees are mainly <i>Quercus falcata</i> and <i>Quercus imbricaria</i> . The primary dominant grass is <i>Schizachyrium scoparium</i> , with some <i>Sorghastrum nutans</i> present. Other more mesic grasses (<i>Andropogon gerardii</i> , <i>Tripsacum dactyloides</i>) are restricted to ditches. This system occurs on the northwestern Highland Rim / Pennyroyal Karst Plain of Tennessee and Kentucky. The largest extant examples are presently found on Fort Campbell Military Reservation, where ecological burning and fires from live-fire munitions use result in open herbaceous-dominated landscapes. This vegetation was the predominant type here in the early 1800s, and probably originated from burning by Native Americans.
Ridge and Valley Calcareous Valley Bottom Glade and Woodland	This system consists of open glades and surrounding woodlands on shallow, high pH, rich soils of the Ridge and Valley region from Virginia southward. These glades occur in broad valley bottoms or rolling basins where soils are shallow over flat-lying limestone strata. The flat terrain and locally xeric soils may have been especially susceptible to periodic fires that helped maintain the prairie-like openings and savanna-like woodlands. Today, much of the system is currently somewhat more closed and brushy, suggesting fire suppression.
South-Central Interior / Upper Coastal Plain Flatwoods (old name = East Gulf Coastal Plain Jackson Plain Dry Flatwoods)	This system represents hardwood-dominated "flatwoods" of limited areas of the most inland portions of the East Gulf Coastal Plain in western Kentucky, as well as in the nearby Pennyroyal Plain in the western Interior Low Plateau. The core of the area from which this system was initially described is referred to as the Jackson Purchase or "Jackson Plain," where these areas have long been recognized as a distinctive subdivision within this region (Davis 1923, Bryant and Martin 1988). There is some local variability in the expression of this system along a hydrologic/microtopographic gradient. The elevated ridges are composed of somewhat coarser-textured soils and retain less moisture than do the lower areas, although both occur in a tight local mosaic. The soils appear to have well-developed subsurface hardpans, the impermeability of which contributes to shallowly perched water tables during portions of the year when precipitation is greatest and evapotranspiration is lowest (not due to overbank flooding). Thus, soil moisture fluctuates widely throughout the growing season, from saturated to very dry, a condition sometimes referred to as xerohydric (Evans 1991). Fire was an important natural process in this system, and well-burned examples tend to be relatively open-canopied with well-developed herbaceous layers (M. Evans pers. comm.).
South-Central Interior / Upper Coastal Plain Wet Flatwoods (old name = East Gulf Coastal Plain Jackson Plain Wet Flatwoods)	This system represents predominately wet flatwoods of limited areas of the most inland portions of the East Gulf Coastal Plain in western Kentucky, as well as related broad, flat areas of the western Interior Low Plateau. This part of the Coastal Plain is referred to as the Jackson Purchase or "Jackson Plain." Flatwoods have long been recognized as a distinctive subdivision within this region (Davis 1923, Bryant and Martin 1988). Examples in the Pennyroyal Plain (of the western Interior Low Plateau) have been referred to as "ponywoods" or "crawfishy land" (Chester et al. 1995), and have been known for many years. They tend to be confined to relatively small areas near the eastern flank of the region where loess deposits thin out. Unlike South-Central Interior / Upper Coastal Plain Flatwoods (CES203.479) of the same general region (which are typified by complex microtopography), this system occupies broad flats underlain by fragipans. These fragipans impede the downward migration of water resulting in wet conditions for portions of the year. Fire was an important natural process in this system, probably maintaining relatively open-canopied stands (M. Evans pers. comm.). Stands are dominated by hardwood trees, including <i>Quercus</i> spp., <i>Liquidambar styraciflua</i> , <i>Carya</i> spp., and <i>Acer rubrum</i> (Chester et al. 1995).
South-Central Interior Large Floodplain	This floodplain system is found in the Interior Highlands as far west as eastern Oklahoma, as well as throughout the Interior low Plateau, Cumberlandns, Southern Ridge and Valley, and Western Allegheny Plateau, and lower elevations of the Southern Blue Ridge. Examples occur along large rivers or streams where topography and alluvial processes have resulted in a well-developed floodplain. A single occurrence may extend from river's edge across the outermost extent of the floodplain or to where it meets a wet meadow or upland system. Many examples of this system will contain well-drained levees, terraces and stabilized bars, and some will include herbaceous sloughs and shrub wetlands resulting, in part, from beaver activity. A variety of soil types may be found within the floodplain from very well-drained sandy substrates to very dense clays. It is this variety of substrates in combination with different flooding regimes that creates the mix of vegetation. Most areas, except for the montane alluvial forests, are inundated at some point each spring; microtopography determines how long the various habitats are inundated. Although vegetation is quite variable in this broadly defined system, examples may include <i>Acer saccharinum</i> , <i>Platanus occidentalis</i> , <i>Liquidambar styraciflua</i> , and <i>Quercus</i> spp. Understory species are mixed, but include shrubs, such as <i>Cephalanthus occidentalis</i> and <i>Arundinaria gigantea</i> ssp. <i>gigantea</i> , and sedges (<i>Carex</i> spp.). This system likely floods at least once annually and can be altered by occasional severe floods. Impoundments and conversion to agriculture can also impact this system.
South-Central Interior Mesophytic Forest	These high-diversity, predominately deciduous forests occur on deep and enriched soils (due to the presence of limestone or related base-rich geology), usually in somewhat protected landscape positions such as coves or lower slopes. The core distribution of this system lies in the Cumberland and Allegheny Mountains and Plateaus, extending into portions of the Interior Low Plateau where it is located entirely south of the glacial boundary. Dominant species include <i>Acer saccharum</i> , <i>Fagus grandifolia</i> , <i>Liriodendron tulipifera</i> , <i>Tilia americana</i> , <i>Quercus rubra</i> , <i>Magnolia acuminata</i> , and <i>Juglans nigra</i> . <i>Tsuga canadensis</i> may be a component of some stands. Trees may grow very large in undisturbed areas. The herb layer is very rich, often with abundant spring ephemerals. Many examples may be bisected by small streams.
South-Central Interior Small Stream and Riparian	This system is found throughout the Interior Low Plateau, Southern Ridge and Valley, Western Allegheny Plateau, and lower elevations of the Southern Blue Ridge. Examples occur along small streams and floodplains with low to moderately high gradients. There may be little to moderate floodplain development. Flooding and scouring both influence this system, and the nature of the landscape prevents the kind of floodplain development found on larger rivers. This system may contain cobble bars with adjacent wooded vegetation and rarely have any marsh development, except through occasional beaver impoundments. The vegetation is a mosaic of forests, woodlands, shrublands, and herbaceous communities. Canopy cover can vary within examples of this system, but typical tree species may include <i>Platanus occidentalis</i> , <i>Acer rubrum</i> var. <i>trilobum</i> , <i>Betula nigra</i> , <i>Liquidambar styraciflua</i> , and <i>Quercus</i> spp. Shrubs and herbaceous layers can vary in richness and cover. Some characteristic shrubs may include <i>Hypericum densiflorum</i> , <i>Salix</i> spp., and <i>Alnus</i> spp. Small seeps dominated by sedges (<i>Carex</i> spp.), ferns (<i>Osmunda</i> spp.), and other herbaceous species can often be found within this system, especially at the headwaters and terraces of streams.
Southern and Central Appalachian Bog and Fen	This system consists of wetlands associated with flat sites in the Southern Blue Ridge, Central Appalachians, and possibly Upper Piedmont and adjacent Ridge and Valley. These sites occur at elevations below 4000 feet in poorly drained bottomlands on soils which are often saturated and wet. Muckness results from a combination of ground water input, seepage from adjacent slopes, rainfall, and impeded drainage. The amount of seepage water input is variable between examples. Vegetation is at least partially open, with herbaceous-dominated areas as well as shrub thickets and often forested zones.
Southern and Central Appalachian Cove Forest	This system consists of mesophytic hardwood forests of sheltered topographic positions in the Southern Blue Ridge and Central Appalachians, and possibly adjacent areas. Examples are generally found on concave slopes that promote moist conditions. The system includes a mosaic of acid and "rich" coves that may be distinguished by individual plant communities based on perceived differences in soil fertility and species richness (rich examples have higher diversity and density in the herbaceous layer). Both acid and rich coves may occur in the same "cove," with the acid coves potentially creeping out of the draw up to at least midslope on well-protected north-facing slopes. Characteristic species in the canopy include <i>Aesculus flava</i> , <i>Acer saccharum</i> , <i>Fraxinus americana</i> , <i>Tilia americana</i> , <i>Liriodendron tulipifera</i> , <i>Halesia tetraptera</i> , <i>Tsuga canadensis</i> , <i>Fagus grandifolia</i> , and <i>Magnolia fraseri</i> .
Southern and Central Appalachian Mafic Glade and Barrens	This Southern and Central Appalachian system consists of vegetation associated with shallow soils over predominately mafic bedrock, usually with significant areas of rock outcrop. Bedrock includes a variety of igneous and metamorphic rock types such as greenstone and amphibolite. These areas support a patchy mosaic of open woodland and grassy herbaceous vegetation sometimes with a predominant woody short-shrub community present.

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Southern and Central Appalachian Oak Forest	This system consists of predominately dry-mesic to dry forests occurring on open and exposed topography at lower to mid elevations in the Southern Blue Ridge, Southern Ridge and Valley, and Central Appalachians ecoregions. Substrate of stands included in this system can range from acidic to circumneutral or basic, and the vegetation varies accordingly. Typically, the vegetation consists of forests dominated by oaks, especially <i>Quercus prinus</i> , <i>Quercus alba</i> , <i>Quercus rubra</i> , and <i>Quercus coccinea</i> , with varying amounts of <i>Carya</i> spp., <i>Acer rubrum</i> , and other species. This system concept also includes many successional communities that have been impacted by logging or agriculture such as types dominated by <i>Liriodendron tulipifera</i> , <i>Pinus</i> spp., and <i>Robinia pseudoacacia</i> .
Southern Appalachian Grass and Shrub Bald	This system consists of dense herbaceous and shrubland communities in the highest elevation zone of the Southern Appalachians, generally above 5000 feet but occasionally to 4000 feet. Vegetation consists either of dense shrub-dominated areas (heath balds) or dense herbaceous cover dominated by grasses or sedges (grassy balds). The combination of high-elevation, non-wetland sites, and dense herbaceous or shrub vegetation without appreciable rock outcrop conceptually distinguishes this system from all others in the Southern Appalachians. However, the widespread areas of degraded spruce-fir system with grass and shrub cover, and the invasion of grassy balds by trees blur the distinction somewhat.
Southern Appalachian Low Mountain Pine Forest	This system consists of shortleaf pine- and Virginia pine-dominated forests in the lower elevation Southern Appalachians and adjacent areas of the Cumberland Plateau and Piedmont. Also included here are naturally occurring shortleaf pine stands of the Interior Low Plateau of Kentucky and Tennessee. Examples can occur on a variety of topographic and landscape positions including ridgetops, upper and midslopes, as well as lower elevations (generally below 700 m [2300 feet]) in the Southern Appalachians such as mountain valleys. Examples occur on a variety of acidic bedrock types. Frequent, low-intensity fires coupled with severe fires (Harrod and White 1999) may have been the sole factor determining the occurrence of this system rather than hardwood forests under natural conditions.
Southern Appalachian Montane Cliff and Talus (old name = Southern Appalachian Montane Cliff)	This system consists of steep to vertical or overhanging rock outcrops (and related steep talus slopes) of the Southern Blue Ridge and adjacent parts of other ecoregions. It occurs on lower slopes, usually in river gorges or bluffs. The sparse vegetation is limited to plants growing on bare rock, small ledges, and crevices. Vegetation is primarily bryophytes, lichens, and herbs, with sparse trees and shrubs rooted in deeper soil pockets and crevices.
Southern Appalachian Montane Pine Forest and Woodland (old name = Southern Appalachian Montane Pine Forest)	This system consists of forests on strongly exposed topography at moderate to upper elevations in the Southern Blue Ridge, Ridge and Valley, and adjacent ecoregions. In the Southern Blue Ridge, this system is best developed above 700 m (2300 feet) in elevation. Most examples are dominated by either <i>Pinus rigida</i> or <i>Pinus pungens</i> , and occasionally <i>Tsuga caroliniana</i> . (Stands with <i>Pinus echinata</i> present are generally accommodated by Southern Appalachian Low Mountain Pine Forest (CES202.332)). Fire is a very important ecological process in this system (Harrod and White 1999). Pines may be able to maintain dominance due to edaphic conditions such as very shallow soil or extreme exposure in some areas, but most sites appear eventually to succeed to oak dominance in the absence of fire. Fire is also presumably a strong influence on vegetation structure, producing a more open woodland canopy structure and more herbaceous ground cover.
Southern Appalachian Rocky Summit	This system represents treeless, high-elevation (1200-2030 m) rock outcrops of the southern Appalachian Mountains, primarily in western North Carolina and eastern Tennessee. Outcrops may be vertical to horizontal, rugged or fractured rock outcrops of peaks, ridgetops, upper slopes, and other topographically exposed locations (Schafale and Weakley 1990). These outcrops occur on felsic to mafic rocks and are distinguished from surrounding systems by the prevalence of bare or lichen-encrusted rocks. Vegetation component of this system is generally characterized by a mix of low-growing lifeforms, especially lichens, mosses, and short-statured forbs. Less commonly graminoids and low shrubs are encountered. Species common to all outcrop vegetation types include <i>Carex misera</i> , <i>Saxifraga michauxii</i> , and <i>Vaccinium corymbosum</i> (Wiser and White 1999).
Southern Appalachian Seepage Wetland	This system consists of seepage-fed wetlands in the Southern Appalachians on gentle slopes, with substantial seepage flow. Vegetation is variable, both within and among examples, but lacks vegetation characteristic of bogs or floodplains. This is a small-patch system occurring over a wide elevational range, nearly to the highest peaks, but is generally lacking from flat valley bottoms.
Southern Appalachian Spray Cliff	This system consists of rock outcrops that are kept wet by spray from waterfalls, primarily in the Southern Blue Ridge, and possibly elsewhere in the Southern Appalachians region. The rocks are often densely or moderately covered with bryophytes or algae. The sparse vascular vegetation is limited to plants growing on bare rock, small ledges, and crevices.
Southern Interior Calcareous Cliff	This system encompasses calcareous cliffs of the southern Ridge and Valley and adjacent areas of the Interior Low Plateau with a few disjunct localities in the Southern Appalachians. This system includes vertical to near vertical rock faces of limestone and dolomite. These cliffs are typically dry, but may contain relatively small embedded seepage patches. Both wet and, more commonly, dry expressions are included. Due to harsh edaphic conditions, including verticality, these cliffs are nearly unvegetated. However, <i>Asplenium ruta-muraria</i> and <i>Pellaea atropurpurea</i> may be characteristic plants. Some cliffs have scattered <i>Thuja occidentalis</i> trees which may be very old (>800 years) and genetically diverse. This system also covers a narrow zone of vegetation, often herbaceous, at the horizontal cliff top where growing conditions are harsh and often glade-like.
Southern Interior Low Plateau Dry Oak Forest (old name = South-Central Interior Highlands Dry Oak Forest)	This system of upland hardwood-dominated forests occurs in the Interior Low Plateau region of the southeastern United States along ridgetops and slopes of various aspects. The system includes essentially all upland hardwood stands of the region except for mesic hardwood forests (which are accommodated by CES202.887). The floristic expression of different stands included in this system varies considerably with aspect and soil type. Included here are a variety of associations ranging along a moisture gradient from submesic to drier ones. The submesic to dry-mesic expressions tend to be found on midslopes with northerly to easterly aspects. The drier ones on southerly to westerly aspects, and on broad ridges. Parent material can range from calcareous to acidic with very shallow, well- to excessively well-drained soils in the drier expressions and moderately well-drained in the submesic to dry-mesic ones. The canopy closure of this system ranges from closed to somewhat open in the drier examples. Historically, these examples may have been more open under conditions of more frequent fire.
Southern Interior Sinkhole Wall	This system represents vertical shaft sinkholes and the characteristic vegetation associated with their steep walls in the southern Ridge and Valley and adjacent Interior Low Plateau regions of the southeastern United States. Related examples in the Southern Blue Ridge are also covered here. Examples are normally dominated by <i>Cystopteris bulbifera</i> and <i>Asplenium rhizophyllum</i> or the liverwort <i>Dumortiera hirsuta</i> .
Southern Ridge and Valley Patch Prairie	This system is a collection of deep soil prairies and barrens found historically in the Coosa Valley of northwestern Georgia and adjacent Alabama and related areas including barrens at Oak Ridge, Tennessee. This system was formerly widespread, but is now found only in scattered and isolated remnants (DeSelm and Murdock 1993). Vegetation is typically prairie-like and may have supported scattered trees depending upon fire-return interval.
Western Highland Rim Prairie and Barrens	This system includes open, fire-maintained vegetation (often called "barrens") on uplands in western Tennessee. Although the region is highly dissected, extensive areas formerly supported well-burned vegetation. Haywood (1959) noted extensive prairie in the southern portion of Land Between the Lakes, and DeSelm (1988) noted the existence of barrens remnants in the region. As noted by Shanks (1958) and described by DeSelm (1989), these barrens occur, at least in part, on Cretaceous gravels which cap Mississippian limestone strata on hills in the Tennessee counties of Dickson, Hickman, Lewis, and Lawrence (these mapped in Miller et al. 1966). The general terrain is flat to gently sloping. Shanks (1958) also specifically refers to barrens on "cherty residuum, elsewhere characterized by Planosols with impeded drainage." Some proposed factors which have functioned to maintain their openness include the droughty, gravelly soils and resulting stresses to vegetation, as well as fire. The same gravels are mapped in the Land Between the Lakes (LBL), and this vegetation could be expected there (if all examples have not succeeded to woody vegetation due to lack of fire).
Western Highland Rim Seepage Fen	This system accommodates small-scale, herbaceous-dominated seepage areas found in a limited area of the Western Highland Rim region of Tennessee. These features have been generally known as "seepage fens," and are fed by mineral-rich groundwater. Examples are associated with stream drainages, but are generally not affected by stream-related hydrology. Soils contain a thin organic layer over limestone gravel, over a less permeable layer of more solid rock. The vegetation is dominated by herbaceous plants. Characteristic species include <i>Carex atlantica</i> , <i>Carex lurida</i> , <i>Carex leptalea</i> ssp. <i>harperi</i> , <i>Parnassia grandifolia</i> , <i>Juncus brachycephalus</i> , <i>Rudbeckia fulgida</i> var. <i>umbrosa</i> , <i>Cardamine bulbosa</i> , <i>Impatiens capensis</i> , <i>Juncus coriaceus</i> , <i>Juncus effusus</i> , <i>Lobelia puberula</i> , <i>Lobelia cardinalis</i> , <i>Oxypolis rigidior</i> , <i>Phlox glaberrima</i> , <i>Rhynchospora capitellata</i> , <i>Scirpus atrovirens</i> , <i>Scirpus cyperinus</i> , <i>Solidago patula</i> var. <i>patula</i> , and <i>Thelypteris palustris</i> var. <i>pubescens</i> . Woody species include <i>Alnus serrulata</i> , <i>Salix humilis</i> , <i>Salix caroliniana</i> , <i>Cornus amomum</i> , and <i>Acer rubrum</i> , which may invade the herbaceous seep. This system is restricted to the Western Highland Rim of Tennessee (Lewis, Cheatham, and Williamson counties). <i>Xyris tennesseensis</i> is endemic to this system and occurs in 50% or more of its occurrences. There are rare occurrences of this system in the Eastern Highland Rim of Tennessee and limited areas of Kentucky.

DESCRIPTIONS OF FRESHWATER INITIATIVE AQUATIC SYSTEMS									
Aq Sys	Description	Size Class	Elevation Class	Geology Class	HW Gradient Class	Creek Gradient Class	River Origin	DS Connectivity Class	
A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley	large river	low, moderate	limestone, calcareous shale			Ridge and Valley, Blue Ridge, Cumberland Plateau	large rivers	
A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley	large river	low	limestone, calcareous shale, chert			Ridge and Valley, Blue Ridge, Cumberland Plateau	large rivers	
A010	large alluvial plain rivers, origin in continental interior	large river	low	alluvium			Continental Interior	large rivers, bays	
B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley	medium river	low, moderate	limestone, calcareous shale			Blue Ridge, Ridge and Valley	medium rivers	
B002	medium Ridge and Valley rivers, origin in the Ridge and Valley	medium river	low, moderate	limestone, calcareous shale			Ridge and Valley	medium rivers	
B005	medium Nashville Basin rivers, origin in the Highland Rim	medium river	low	limestone, calcareous shale, chert			Highland Rim	medium rivers	
B006	medium Nashville Basin rivers, origin in the Cumberland Mountains/Cumberland Plateau	medium river	low	limestone, calcareous shale, chert			Cumberland Mountains, Cumberland Plateau	medium rivers	
B007	medium Blue Ridge rivers, origin in the Blue Ridge	medium river	low, moderate	granite/gneiss, sandstone/meta-sandstone, schist/phyllite			Blue Ridge	medium rivers	
B013	medium Gulf Coastal Plain rivers, origin in the Coastal Plain	medium river	low	sands, clays, gravels			Coastal Plain	medium rivers, bays	
C001	small ridge and valley rivers, origin in ridge and valley	small river	moderate, low	limestone, calcareous shale			Ridge and Valley	small rivers	
C002	small Ridge and Valley River, origin in the Cumberland Plateau	small river	moderate, low	limestone, calcareous shale			Cumberland Plateau	small rivers	
C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont	small river	moderate, low	limestone, calcareous shale			Blue Ridge, Piedmont	small rivers	
C005	small Cumberland Mountain/Coal Fields rivers, origin in the Cumberland Mountains	small river	moderate, low	sandstone			Cumberland Mountains	small rivers	
C006	small Cumberland Plateau rivers, in moderate elevation, origin in Cumberland Plateau	small river	moderate	sandstone			Cumberland Plateau	small rivers	
C009	small Highland Rim rivers, origin in the Cumberland Plateau	small river	low	limestone, calcareous shale, chert			Cumberland Plateau	small rivers	
C010	small Highland Rim rivers, origin in Highland Rim	small river	low	limestone, calcareous shale, chert			Highland Rim	small rivers	
C011	small Nashville Basin rivers, origin in Highland Rim	small river	low	limestone, calcareous shale, chert			Highland Rim	small rivers	
C012	small Blue Ridge rivers, origin in Blue Ridge	small river	moderate	granite/gneiss, sandstone/meta-sandstone, schist/phyllite			Blue Ridge	small rivers	
C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau	small river	low	sands, clays, gravels			Highland Rim, Cumberland Plateau	small rivers	
C018	small Coastal Plain rivers, origin in Coastal Plain	small river	low	sands, clays, gravels			Coastal Plain	small rivers	
C031	small alluvial plain rivers, in Holocene alluvium, origin in the coastal plain, East	small river	low	Holocene alluvium			Coastal Plain	small rivers	
D002	ridge and valley streams	headwater, creek	moderate	sandstone, acidic shale to limestone, calcareous shale	high, moderate	low, moderate		all	
D003	ridge and valley streams	headwater, creek	moderate	sandstone, acidic shale to limestone, calcareous shale	moderate	low, moderate		all	
D004	ridge and valley streams	headwater, creek	low	sandstone, acidic shale to calcareous shale, limestone	moderate	low, very low		all	
D005	ridge and valley streams	headwater, creek	low	sandstone, acidic shale to calcareous shale, limestone	low	low, very low		all	
D006	ridge and valley streams	headwater, creek	high, moderate	calcareous shale, limestone	high	low, moderate		small rivers, creeks	
D007	ridge and valley streams	headwater, creek	moderate	calcareous shale, limestone	high	low, moderate		all	
D008	ridge and valley streams	headwater, creek	moderate	calcareous shale, limestone	moderate	low, very low		all	
D009	ridge and valley streams	headwater, creek	moderate	calcareous shale, limestone	low	low, very low		all	
D010	ridge and valley streams	headwater, creek	low	calcareous shale, limestone	moderate	low, very low		all	
D011	ridge and valley streams	headwater, creek	low	limestone, calcareous shale	low	low, very low		small rivers, creeks	
D015	transitional streams, Cumberland plateau to ridge and valley, escarpment	headwater, creek	moderate, low	sandstone to limestone, calcareous shale	high, moderate	low, moderate		large rivers	
D016	transitional streams, Cumberland plateau to ridge and valley, escarpment	headwater, creek	moderate, low	sandstone to limestone, calcareous shale	high, moderate	low, moderate		small rivers, creeks	
D019	transitional streams, Cumberland plateau to ridge and valley	headwater, creek	moderate, low	sandstone to limestone, calcareous shale	moderate, low	moderate, low		small rivers, creeks	
D020	ridge and valley streams, few headwaters in plateau sandstones	headwater, creek	moderate, low	limestone, calcareous shale, some sandstone	moderate, low	low, moderate		large rivers	
D021	ridge and valley streams, few headwaters in plateau sandstones	headwater, creek	moderate, low	limestone, calcareous shale, some sandstone	moderate, low	low, moderate		small rivers, creeks	
D022	Cumberland mountain streams	headwater, creek	high, moderate	sandstone	high, moderate	low, very low		small rivers, creeks	
D023	Cumberland mountain streams	headwater, creek	moderate	sandstone	high, moderate	low, very low		small rivers, creeks	
D024	Cumberland mountain, plateau streams	headwater, creek	moderate, low	sandstone	moderate	low, very low		small rivers, creeks	
D025	Cumberland mountain, plateau streams	headwater, creek	low	sandstone	low, very low	low, very low		small rivers, creeks	
D026	transitional streams Cumberland plateau to Highland Rim	headwater, creek	moderate	sandstone to limestone, calcareous shale	high, moderate	moderate, low		small rivers, creeks	
D027	transitional streams southern Cumberland plateau to Highland Rim	headwater, creek	moderate	sandstone to limestone, sandstone, calcareous shale	moderate, high	low, very low		all	
D029	Highland Rim streams, some headwaters in plateau sandstones	headwater, creek	moderate, low	limestone, calcareous shale, some sandstone	high	moderate, low		all	
D030	Highland Rim streams	headwater, creek	low, moderate	limestone, chert, calcareous shale	low	low, very low		small rivers, creeks	
D031	Highland Rim streams	headwater, creek	low, moderate	limestone, chert, calcareous shale	low	low, very low		large rivers	
D032	Highland Rim streams	headwater, creek	low, moderate	limestone, chert, calcareous shale	moderate, low	low, very low		small rivers, creeks	
D033	Highland Rim streams	headwater, creek	low, moderate	limestone, chert, calcareous shale	moderate, low	low, very low		large rivers	
D034	Nashville Basin streams	headwater, creek	low, moderate	limestone, calcareous shale	low	low, very low		small rivers, creeks	
D035	Nashville Basin streams	headwater, creek	low, moderate	limestone, calcareous shale	low	low, very low		large rivers	
D036	Highland Rim streams	headwater, creek	low, moderate	limestone, calcareous shale	moderate, low	low, very low		small rivers, creeks	
D037	Highland Rim streams	headwater, creek	low, moderate	limestone, calcareous shale	moderate, low	low, very low		large rivers	
D038	outer Highland Rim streams	headwater, creek	low, moderate	limestone, chert, calcareous shale	low, very low	low, very low		small rivers, creeks	
D039	transitional streams, Blue Ridge to Ridge and Valley	headwater, creek	high, moderate	granite/gneiss to calcareous shale, limestone	high	moderate, low		small rivers, creeks	
D040	transitional streams, Blue Ridge to Ridge and Valley	headwater, creek	high, moderate	sandstone/metasediment, schist/phyllite to calcareous shale, limestone	high	moderate, low		small rivers, creeks	
D042	Blue Ridge foothill streams with limestone contribution	headwater, creek	high, moderate	sandstone/meta-sandstone, granite/gneiss, limestone, calcareous shale	high	moderate, low		small rivers, creeks	
D044	Blue Ridge streams	headwater, creek	high	granite/gneiss	high	moderate, low		small rivers, creeks	
D050	Blue Ridge streams	headwater, creek	high, moderate	sandstone/metasediment	high	moderate, low		small rivers, creeks	
D072	transitional streams, coastal plain to Highland Rim	headwater, creek	low	clayey sands, coarse sands, gravels to limestone, calcareous shale, chert	moderate, low	low, very low		large rivers	

DESCRIPTIONS OF FRESHWATER INITIATIVE AQUATIC SYSTEMS									
Aq Sys	Description	Size Class	Elevation Class	Geology Class	HW Gradient Class	Creek Gradient Class	River Origin	DS Connectivity Class	
D077	coastal plain streams	headwater, creek	low	clayey sands, coarse sands, gravels, acidic clays	low	very low		all	
D079	coastal plain streams, transitional to alluvium	headwater, creek	low	clayey sands, coarse sands to alluvium	low	very low		large rivers	
D083	coastal plain streams, acidic clays	headwater, creek	low	acidic clays, clayey sands, coarse sands, alluvium	low	very low		small rivers, creeks	
D085	coastal plain streams, calcareous clays, sands	headwater, creek	low	calcareous clays, coarse sands, clayey sands	very low, low	very low		all	
D098	coastal plain streams, loess veneer over sands	headwater, creek	low	loess, clayey sands	low, very low	very low		all	
D101	coastal plain streams, loess veneer over sands	headwater, creek	low	loess, clayey sands	very low	very low		small rivers, creeks	
D112	alluvial plain streams, in Holocene alluvium, primarily meander belts	headwater, creek	low	Holocene alluvium (meander belt)	very low	very low		small rivers, creeks	
D113	alluvial plain streams, in Holocene alluvium, primarily meander belts, connect to large rivers	headwater, creek	low	Holocene alluvium (meander belt)	very low	very low		large rivers	
D114	alluvial plain streams, in Holocene alluvium, primarily backswamps	headwater, creek	low	Holocene alluvium (backswamp)	very low	very low		small rivers, creeks	

Terrestrial Habitat Preferences										
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE					
					MAP	UGCP	ILP	CPM	RV	SBR
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Suit		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Southern Appalachian Low Mountain Pine Forest				Marg		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Southern Appalachian Montane Pine Forest and Woodland				Marg		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Southern and Central Appalachian Cove Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53110	Anguispira alabama (Alabama Tigersnail)	Appalachian Hemlock-Hardwood Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Suit		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Southern Appalachian Low Mountain Pine Forest				Marg		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Southern Appalachian Montane Pine Forest and Woodland				Marg		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Southern and Central Appalachian Cove Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53020	Anguispira cumberlandiana (Cumberland Tigersnail)	Appalachian Hemlock-Hardwood Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern Interior Calcareous Cliff					Suit	
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern and Central Appalachian Cove Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern and Central Appalachian Oak Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Appalachian Hemlock-Hardwood Forest				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Southern Ridge and Valley Patch Prairie				Suit		
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS53060	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS53070	Anguispira kochi (Banded Tigershell)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Invertebrate - Gastropod	IMGAS96020	Daedalochila auriformis (Rockpile Liptooth)	Eastern Highland Rim Prairie and Barrens				Pref		
1	Invertebrate - Gastropod	IMGAS96020	Daedalochila auriformis (Rockpile Liptooth)	Western Highland Rim Prairie and Barrens				Suit		
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern Interior Calcareous Cliff					Suit	Suit
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern Interior Sinkhole Wall					Suit	Suit
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit		
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern and Central Appalachian Cove Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Southern and Central Appalachian Oak Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGAS54010	Discus bryanti (Sawtooth Disc)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGAS54040	Discus clappi (Channelled Disc)	Southern Interior Low Plateau Dry Oak Forest				Suit		
1	Invertebrate - Gastropod	IMGAS54040	Discus clappi (Channelled Disc)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Southern Interior Sinkhole Wall					Suit	Suit
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Southern Appalachian Low Mountain Pine Forest					Marg	Marg
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	South-Central Interior Mesophytic Forest				Suit		
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Southern and Central Appalachian Cove Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Southern and Central Appalachian Oak Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGASSWG03	Euchemotrema fraternum montanum (a pillsnail)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Southern and Central Appalachian Cove Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Southern and Central Appalachian Oak Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94040	Fumonelix archeri (Ocoee Covert)	Appalachian Hemlock-Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Southern and Central Appalachian Cove Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Southern and Central Appalachian Oak Forest					Suit	
1	Invertebrate - Gastropod	IMGAS94070	Fumonelix christyi (Glossy Covert)	Appalachian Hemlock-Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Central and Southern Appalachian Spruce-Fir Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Southern and Central Appalachian Cove Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Southern and Central Appalachian Oak Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95170	Fumonelix jonesiana (Big-tooth Covert (= Newfound Gap Helix))	Appalachian Hemlock-Hardwood Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Central and Southern Appalachian Spruce-Fir Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Central and Southern Appalachian Northern Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Southern and Central Appalachian Cove Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Southern and Central Appalachian Oak Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95240	Fumonelix orestes (Engraved Covert)	Appalachian Hemlock-Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Southern Appalachian Low Mountain Pine Forest					Marg	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Southern Appalachian Montane Pine Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	South-Central Interior Mesophytic Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Southern and Central Appalachian Cove Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95360	Fumonelix wetherbyi (Cliffy Covert)	Appalachian Hemlock-Hardwood Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Central and Southern Appalachian Spruce-Fir Forest					Suit	
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Southern Appalachian Low Mountain Pine Forest					Marg	

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95370	Fumonelix wheatleyi (Cinnamon Covert)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95371	Fumonelix wheatleyi clingmanicus (Clingman Covert)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73070	Glyphyalinia junaluskana (Dark Glyph)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73070	Glyphyalinia junaluskana (Dark Glyph)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS73070	Glyphyalinia junaluskana (Dark Glyph)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS73110	Glyphyalinia ocoae (Blue-gray Glyph)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	South-Central Interior Mesophytic Forest							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS73130	Glyphyalinia pentadelphia (Pink Glyph)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Central Interior Calcareous Cliff and Talus							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Southern Interior Sinkhole Wall							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Southern Interior Low Plateau Dry Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	South-Central Interior Mesophytic Forest							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS73180	Glyphyalinia rimula (Tongued Glyph)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Central and Southern Appalachian Spruce-Fir Forest							Marg
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS73230	Glyphyalinia vanattai (Honey Glyph)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lanceetooth)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Central Interior Acidic Cliff and Talus							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Central Interior Calcareous Cliff and Talus							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Southern Appalachian Montane Pine Forest and Woodland							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Cumberland Acid Cliff							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Southern Interior Low Plateau Dry Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	South-Central Interior Mesophytic Forest							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Southern Interior Calcareous Cliff							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Southern Interior Sinkhole Wall							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	South-Central Interior Mesophytic Forest							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Allegheny-Cumberland Dry Oak Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	South-Central Interior Mesophytic Forest							Suit
1	Invertebrate - Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Southern Appalachian Low Mountain Pine Forest							Suit

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Southern Appalachian Montane Pine Forest and Woodland					Suit		Suit
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit		
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	South-Central Interior Mesophytic Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Southern and Central Appalachian Cove Forest					Suit		Suit
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Appalachian Hemlock-Hardwood Forest					Suit		Suit
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Central Interior Highlands Calcareous Glade and Barrens				Suit	Suit		
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Central Interior Highlands Dry Acidic Glade and Barrens				Suit			
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Cumberland Sandstone Glade and Barrens					Marg		
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Nashville Basin Limestone Glade				Marg			
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Eastern Highland Rim Prairie and Barrens				Suit			
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Penroyal Karst Plain Prairie and Barrens				Suit			
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Western Highland Rim Prairie and Barrens				Suit			
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Invertebrate - Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Southern Appalachian Low Mountain Pine Forest					Marg		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Southern Appalachian Montane Pine Forest and Woodland					Marg		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	South-Central Interior Mesophytic Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Southern and Central Appalachian Cove Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Appalachian Hemlock-Hardwood Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95340	Inflectarius subpallatus (Velvet Covert)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Southern Appalachian Low Mountain Pine Forest					Marg		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Southern Appalachian Montane Pine Forest and Woodland					Marg		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	South-Central Interior Mesophytic Forest					Suit		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Southern and Central Appalachian Cove Forest					Suit		
1	Invertebrate - Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Appalachian Hemlock-Hardwood Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Southern and Central Appalachian Cove Forest							Marg
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Southern and Central Appalachian Oak Forest							Marg
1	Invertebrate - Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Southern and Central Appalachian Oak Forest							Suit
1	Invertebrate - Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Southern Appalachian Montane Cliff and Talus					Suit		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	South-Central Interior Mesophytic Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Southern and Central Appalachian Cove Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Appalachian Hemlock-Hardwood Forest					Suit		
1	Invertebrate - Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Cumberland Seepage Forest					Marg		
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Southern and Central Appalachian Cove Forest							Suit
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Southern and Central Appalachian Oak Forest							Marg
1	Invertebrate - Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Appalachian Hemlock-Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Southern Interior Sinkhole Wall						Suit	Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Southern Appalachian Low Mountain Pine Forest					Marg	Marg	Marg
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	Marg
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	South-Central Interior Mesophytic Forest					Suit	Suit	
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Invertebrate - Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
1	Invertebrate - Gastropod	IMGAS75140	Mesomphix subplanus (Flat Button)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Invertebrate - Gastropod	IMGAS75140	Mesomphix subplanus (Flat Button)	Southern Appalachian Low Mountain Pine Forest							Marg

Terrestrial Habitat Preferences							REGIONAL HABITAT PREFERENCE				
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate - Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Southern and Central Appalachian Oak Forest						Marg	
1	Invertebrate - Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS68260	Succinea greerii (Dryland Ambersnail)	Central Interior Acidic Cliff and Talus					Suit		
1	Invertebrate - Gastropod	IMGAS68260	Succinea greerii (Dryland Ambersnail)	Central Interior Calcareous Cliff and Talus					Suit		
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGASA2060	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	South-Central Interior Mesophytic Forest						Suit	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Southern Interior Sinkhole Wall						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Central and Southern Appalachian Spruce-Fir Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	South-Central Interior Mesophytic Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Central and Southern Appalachian Spruce-Fir Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Suit	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Southern Interior Low Plateau Dry Oak Forest					Suit		
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	South-Central Interior Mesophytic Forest					Suit	Suit	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Central and Southern Appalachian Spruce-Fir Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Southern Appalachian Low Mountain Pine Forest					Marg	Marg	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	South-Central Interior Mesophytic Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	South-Central Interior Mesophytic Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS82160	Ventridens percallosus (Tennessee Dome)	Urban / Suburban Managed Forestland	Suit	Suit	Suit	Suit	Suit	Suit	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Southern Appalachian Low Mountain Pine Forest						Marg	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20270	Vertigo parvula (Smallmouth Vertigo)	Central and Southern Appalachian Northern Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20270	Vertigo parvula (Smallmouth Vertigo)	Southern and Central Appalachian Cove Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20270	Vertigo parvula (Smallmouth Vertigo)	Southern and Central Appalachian Oak Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20270	Vertigo parvula (Smallmouth Vertigo)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond						Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	South-Central Interior Large Floodplain						Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	South-Central Interior Small Stream and Riparian						Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Invertebrate - Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Converted Wetland (Lucustrine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Invertebrate - Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitellip)	Lower Mississippi River Bottomland and Floodplain Forest	Suit						
1	Invertebrate - Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitellip)	Lower Mississippi River Bottomland Depression	Pref						
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Suit	
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Central Interior Calcareous Cliff and Talus						Suit	
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Southern Interior Low Plateau Dry Oak Forest						Suit	

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	South-Central Interior Mesophytic Forest			Suit				
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Southern and Central Appalachian Cove Forest				Suit			
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Appalachian Hemlock-Hardwood Forest				Marg			
1	Invertebrate - Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Central Interior Highlands Calcareous Glade and Barrens					Marg		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Southern Appalachian Low Mountain Pine Forest					Marg		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Southern Appalachian Montane Pine Forest and Woodland					Marg		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	South-Central Interior Mesophytic Forest					Suit		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Southern and Central Appalachian Cove Forest					Suit		
1	Invertebrate - Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Appalachian Hemlock-Hardwood Forest					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	South-Central Interior / Upper Coastal Plain Flatwoods					Marg		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	South-Central Interior / Upper Coastal Plain Wet Flatwoods					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	East Gulf Coastal Plain Large River Floodplain Forest					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	East Gulf Coastal Plain Northern Seepage Swamp					Pref		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	East Gulf Coastal Plain Small Stream and River Floodplain Forest					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Lower Mississippi River Bottomland and Floodplain Forest					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Lower Mississippi River Bottomland Depression					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	South-Central Interior Small Stream and Riparian					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Converted Wetland (Palustrine)					Suit		
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Converted Wetland (Riverine)					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Converted Wetland (Lacustrine)					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Southern Interior Low Plateau Dry Oak Forest					Marg		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	South-Central Interior Mesophytic Forest					Suit		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond					Marg		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Western Highland Rim Seepage Fen					Suit		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	South-Central Interior Large Floodplain					Marg		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	South-Central Interior Small Stream and Riparian					Pref		
1	Vertebrate - Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Converted Wetland (Palustrine)					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Pref	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Central Interior Acidic Cliff and Talus					Suit		
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Central Interior Calcareous Cliff and Talus					Pref		
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern Appalachian Montane Cliff and Talus					Suit	Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Cumberland Acid Cliff					Suit	Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern Interior Calcareous Cliff						Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern Interior Sinkhole Wall					Marg		Marg
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Allegheny-Cumberland Dry Oak Forest and Woodland						Marg	Marg
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern Interior Low Plateau Dry Oak Forest					Marg		
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	South-Central Interior Mesophytic Forest					Marg	Suit	Suit
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern and Central Appalachian Cove Forest					Suit	Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Southern and Central Appalachian Oak Forest						Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Central Interior Highlands Calcareous Glade and Barrens					Pref	Marg	Suit
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Central Interior Highlands Dry Acidic Glade and Barrens					Suit		
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Cumberland Sandstone Glade and Barrens						Marg	
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Nashville Basin Limestone Glade					Pref		
1	Vertebrate - Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Suit	
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Central and Southern Appalachian Spruce-Fir Forest							Marg
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern and Central Appalachian Oak Forest							Marg
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern and Central Appalachian Bog and Fen							Suit
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Southern Appalachian Seepage Wetland							Suit
1	Vertebrate - Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	South-Central Interior Small Stream and Riparian							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Central and Southern Appalachian Spruce-Fir Forest							Pref
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Southern Appalachian Low Mountain Pine Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Southern Appalachian Montane Pine Forest and Woodland							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Allegheny-Cumberland Dry Oak Forest and Woodland							Marg
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	South-Central Interior Mesophytic Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond					Pref	Pref	Pref
1	Vertebrate - Amphibian	AAAAD08010	Hemidactylium scutatum (Four-toed Salamander)	Cumberland Seepage Forest							Suit
1	Vertebrate - Amphibian	AAAAD08010	Hemidactylium scutatum (Four-toed Salamander)	Southern and Central Appalachian Bog and Fen							Suit
1	Vertebrate - Amphibian	AAAAD08010	Hemidactylium scutatum (Four-toed Salamander)	Southern Appalachian Seepage Wetland							Pref
1	Vertebrate - Amphibian	AAAAD08010	Hemidactylium scutatum (Four-toed Salamander)	Western Highland Rim Seepage Fen							Suit
1	Vertebrate - Amphibian	AAAAD08010	Hemidactylium scutatum (Four-toed Salamander)	Converted Wetland (Palustrine)					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABC02100	Hyla gratiosa (Barking Treefrog)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond							Pref
1	Vertebrate - Amphibian	AAABC02100	Hyla gratiosa (Barking Treefrog)	Cumberland Seepage Forest							Suit
1	Vertebrate - Amphibian	AAABC02100	Hyla gratiosa (Barking Treefrog)	South-Central Interior / Upper Coastal Plain Wet Flatwoods							Suit

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	South-Central Interior Large Floodplain				Marg			
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	South-Central Interior Small Stream and Riparian				Marg		Marg	
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond					Pref	Pref	
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Cumberland Seepage Forest					Pref		
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Southern and Central Appalachian Bog and Fen					Suit	Pref	
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Southern Appalachian Seepage Wetland							Suit
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	South-Central Interior Large Floodplain					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	South-Central Interior Small Stream and Riparian					Suit	Suit	Suit
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland					Pref		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens					Pref		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	South-Central Interior / Upper Coastal Plain Wet Flatwoods					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	East Gulf Coastal Plain Large River Floodplain Forest					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	East Gulf Coastal Plain Northern Seepage Swamp					Suit		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	East Gulf Coastal Plain Small Stream and River Floodplain Forest					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Lower Mississippi River Bottomland and Floodplain Forest					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Lower Mississippi River Bottomland Depression					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	South-Central Interior Small Stream and Riparian					Marg		
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Old Field / Successional					Suit	Suit	Suit
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Pasture					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Cropland					Marg	Marg	Marg
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Urban / Suburban Managed Grassland					Suit	Suit	Suit
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)					Suit	Suit	Suit
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Converted Wetland (Palustrine)					Suit	Suit	Suit
1	Vertebrate - Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Converted Wetland (Riverine)					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Appalachian Low Mountain Pine Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Appalachian Montane Pine Forest and Woodland						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	South-Central Interior / Upper Coastal Plain Flatwoods					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Limestone Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Northern Loess Bluff Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Northern Mesic Hardwood Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Interior Low Plateau Dry Oak Forest						Suit	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	South-Central Interior Mesophytic Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern and Central Appalachian Cove Forest						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Appalachian Hemlock-Hardwood Forest						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Appalachian Grass and Shrub Bald							Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Appalachian Rocky Summit							Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Central Interior Highlands Calcareous Glade and Barrens					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Central Interior Highlands Dry Acidic Glade and Barrens					Marg	Suit	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Cumberland Sandstone Glade and Barrens						Marg	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Nashville Basin Limestone Glade						Marg	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland							Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Eastern Highland Rim Prairie and Barrens						Suit	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Pennyroyal Karst Plain Prairie and Barrens						Suit	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Southern Ridge and Valley Patch Prairie							Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Western Highland Rim Prairie and Barrens						Suit	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	South-Central Interior / Upper Coastal Plain Wet Flatwoods					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Western Highland Rim Seepage Fen						Marg	
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Large River Floodplain Forest					Pref		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Northern Seepage Swamp					Marg		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	East Gulf Coastal Plain Small Stream and River Floodplain Forest					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Lower Mississippi River Bottomland and Floodplain Forest					Pref		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Lower Mississippi River Bottomland Depression					Suit		
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	South-Central Interior Large Floodplain						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	South-Central Interior Small Stream and Riparian						Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Forest Plantation					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Urban / Suburban Managed Forestland					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Old Field / Successional					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Pasture					Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Cropland					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Urban / Suburban Managed Grassland					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Converted Wetland (Palustrine)					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Converted Wetland (Riverine)					Marg	Marg	Marg
1	Vertebrate - Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Converted Wetland (Lacustrine)					Marg	Marg	Marg
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Central and Southern Appalachian Spruce-Fir Forest							Pref
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	South-Central Interior Mesophytic Forest							Suit
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Southern and Central Appalachian Cove Forest							Suit

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Appalachian Hemlock-Hardwood Forest						Pref	Suit
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern Appalachian Low Mountain Pine Forest			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern Appalachian Montane Pine Forest and Woodland					Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	South-Central Interior / Upper Coastal Plain Flatwoods			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Limestone Forest			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Northern Loess Bluff Forest			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Marg				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern Interior Low Plateau Dry Oak Forest				Marg			
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	South-Central Interior Mesophytic Forest			Marg	Marg	Marg	Marg	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern and Central Appalachian Cove Forest					Marg	Marg	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern and Central Appalachian Oak Forest						Marg	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Appalachian Hemlock-Hardwood Forest					Marg	Marg	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Suit				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit	Suit			
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Cumberland Sandstone Glade and Barrens					Suit		
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Nashville Basin Limestone Glade					Suit		
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Suit	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Pref				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Eastern Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Pennyroyal Karst Plain Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Southern Ridge and Valley Patch Prairie						Pref	
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Western Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Forest Plantation			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Urban / Suburban Managed Forestland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Pasture			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Urban / Suburban Managed Grassland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Appalachian Shale Barrens						Marg	
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Central Interior Highlands Calcareous Glade and Barrens					Suit	Suit	
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Central Interior Highlands Dry Acidic Glade and Barrens					Suit		
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Cumberland Sandstone Glade and Barrens						Suit	
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Nashville Basin Limestone Glade					Suit		
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Eastern Highland Rim Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Pennyroyal Karst Plain Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Western Highland Rim Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Pasture			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Cropland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Urban / Suburban Managed Grassland			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit	Suit			
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Cumberland Sandstone Glade and Barrens						Marg	
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Nashville Basin Limestone Glade					Suit		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland					Pref		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Eastern Highland Rim Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Pennyroyal Karst Plain Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Southern Ridge and Valley Patch Prairie						Pref	
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Western Highland Rim Prairie and Barrens					Pref		
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Pasture			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Cropland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Urban / Suburban Managed Grassland			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Lower Mississippi River Bottomland and Floodplain Forest			Pref				
1	Vertebrate - Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Lower Mississippi River Bottomland Depression			Suit				
1	Vertebrate - Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Converted Wetland (Palustrine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Converted Wetland (Riverine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Converted Wetland (Lacustrine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern Appalachian Montane Cliff and Talus						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Cumberland Acid Cliff						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern Interior Calcareous Cliff						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern Appalachian Low Mountain Pine Forest						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern Appalachian Montane Pine Forest and Woodland						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	South-Central Interior Mesophytic Forest						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern and Central Appalachian Cove Forest						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern and Central Appalachian Oak Forest						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Central Interior Highlands Calcareous Glade and Barrens						Marg	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Southern Ridge and Valley Patch Prairie						Suit	
1	Vertebrate - Bird	ABNGA04040	Ardea alba (Great Egret)	Lower Mississippi River Bottomland and Floodplain Forest			Suit				
1	Vertebrate - Bird	ABNGA04040	Ardea alba (Great Egret)	Lower Mississippi River Bottomland Depression			Pref				
1	Vertebrate - Bird	ABNGA04040	Ardea alba (Great Egret)	Converted Wetland (Palustrine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA04040	Ardea alba (Great Egret)	Converted Wetland (Riverine)			Suit	Suit	Suit	Suit	Suit

Terrestrial Habitat Preferences										
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE					
					MAP	UGCP	ILP	CPM	RV	SBR
1	Vertebrate - Bird	ABNGA04040	Ardea alba (Great Egret)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Central Interior Highlands Calcareous Glade and Barrens			Suit			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Nashville Basin Limestone Glade			Suit			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Eastern Highland Rim Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Pennyroyal Karst Plain Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Western Highland Rim Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Marg			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Western Highland Rim Seepage Fen			Marg			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	South-Central Interior Large Floodplain			Marg			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	South-Central Interior Small Stream and Riparian			Marg			
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Lower Mississippi River Bottomland Depression	Pref					
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Western Highland Rim Seepage Fen			Suit			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	East Gulf Coastal Plain Large River Floodplain Forest			Pref			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	East Gulf Coastal Plain Northern Seepage Swamp			Suit			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Suit			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Lower Mississippi River Bottomland Depression	Pref					
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	South-Central Interior Large Floodplain			Pref			
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	South-Central Interior Small Stream and Riparian			Suit	Suit		
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Lower Mississippi River Bottomland Depression	Pref					
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11020	Calidris canutus (Red Knot)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Lower Mississippi River Bottomland and Floodplain Forest	Pref					
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Lower Mississippi River Bottomland Depression	Suit					
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11190	Calidris himantopus (Stilt Sandpiper)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Lower Mississippi River Bottomland Depression	Pref					
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Southern Appalachian Low Mountain Pine Forest			Suit		Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Southern Appalachian Montane Pine Forest and Woodland					Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Central and Southern Appalachian Northern Hardwood Forest						Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Limestone Forest			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Marg			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Caprimulgus carolinensis (Chuck-will's-widow)			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Southern Interior Low Plateau Dry Oak Forest				Suit		
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	South-Central Interior Mesophytic Forest			Suit	Suit		Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Southern and Central Appalachian Cove Forest					Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Southern and Central Appalachian Oak Forest					Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Appalachian Hemlock-Hardwood Forest					Suit	Suit
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Suit			
1	Vertebrate - Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit		

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Pasture							
1	Vertebrate - Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Central Interior Highlands Calcareous Glade and Barrens				Suit			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Central Interior Highlands Dry Acidic Glade and Barrens				Suit			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Nashville Basin Limestone Glade				Suit			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Eastern Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Penroyal Karst Plain Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Western Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Pref			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Western Highland Rim Seepage Fen				Suit			
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	Marg	
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	South-Central Interior / Upper Coastal Plain Flatwoods				Suit			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Limestone Forest				Suit			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest				Marg			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Northern Loess Bluff Forest				Marg			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland				Marg			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Northern Mesic Hardwood Forest				Pref			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Southern Interior Low Plateau Dry Oak Forest					Suit		
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	South-Central Interior Mesophytic Forest				Suit	Pref	Pref	Pref
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Southern and Central Appalachian Cove Forest						Pref	Pref
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Appalachian Hemlock-Hardwood Forest						Suit	Suit
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest				Marg			
1	Vertebrate - Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Central and Southern Appalachian Spruce-Fir Forest							Pref
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern and Central Appalachian Oak Forest							Marg
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern Appalachian Grass and Shrub Bald							Marg
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern and Central Appalachian Bog and Fen							Suit
1	Vertebrate - Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Southern Appalachian Seepage Wetland							Suit
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg		
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Southern Appalachian Montane Pine Forest and Woodland					Marg		
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Southern Interior Low Plateau Dry Oak Forest				Suit			
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	South-Central Interior Mesophytic Forest					Pref	Suit	
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Southern and Central Appalachian Cove Forest						Suit	
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Appalachian Hemlock-Hardwood Forest						Suit	
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Urban / Suburban Managed Forestland	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	North-Central Appalachian Acidic Cliff and Talus							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Appalachian Montane Cliff and Talus						Suit	Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Cumberland Acid Cliff						Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Interior Calcareous Cliff							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Interior Sinkhole Wall							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Appalachian Low Mountain Pine Forest						Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Appalachian Montane Pine Forest and Woodland						Suit	Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	South-Central Interior Mesophytic Forest						Suit	
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern and Central Appalachian Cove Forest						Suit	Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Appalachian Hemlock-Hardwood Forest						Suit	Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Appalachian Grass and Shrub Bald							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Southern Appalachian Rocky Summit							Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAV10110	Corvus corax (Common Raven)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	South-Central Interior Mesophytic Forest						Suit	
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Southern and Central Appalachian Cove Forest						Suit	Suit
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Appalachian Hemlock-Hardwood Forest						Pref	Pref
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland						Suit	Suit
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	South-Central Interior / Upper Coastal Plain Flatwoods						Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Limestone Forest						Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest						Marg	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Northern Loess Bluff Forest						Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland						Marg	

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Southern Interior Low Plateau Dry Oak Forest			Marg				
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	South-Central Interior Mesophytic Forest		Suit	Pref	Pref	Pref		
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Southern and Central Appalachian Oak Forest					Suit	Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Marg				
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Large River Floodplain Forest		Pref					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Northern Seepage Swamp		Suit					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit					
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Lower Mississippi River Bottomland and Floodplain Forest	Pref						
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Lower Mississippi River Bottomland Depression	Suit						
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	South-Central Interior Large Floodplain			Suit				
1	Vertebrate - Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	South-Central Interior Small Stream and Riparian		Suit	Suit	Marg	Marg		
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Appalachian Shale Barrens					Marg	Marg	
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Central Interior Highlands Calcareous Glade and Barrens		Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Central Interior Highlands Dry Acidic Glade and Barrens		Suit	Suit				
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Cumberland Sandstone Glade and Barrens				Pref			
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Nashville Basin Limestone Glade			Suit				
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland					Marg		
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland	Pref						
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens	Pref						
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Eastern Highland Rim Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Penroyal Karst Plain Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Southern Ridge and Valley Patch Prairie						Pref	
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Western Highland Rim Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Southern Appalachian Low Mountain Pine Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Suit	Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit		
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	South-Central Interior Mesophytic Forest					Suit	Suit	
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Central and Southern Appalachian Spruce-Fir Forest							Marg
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Southern Appalachian Low Mountain Pine Forest					Marg	Suit	Marg
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Southern Appalachian Montane Pine Forest and Woodland					Marg		Marg
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit		
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	South-Central Interior Mesophytic Forest					Suit		
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Southern and Central Appalachian Cove Forest					Suit		Suit
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Appalachian Hemlock-Hardwood Forest					Pref		Suit
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Pref			
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Western Highland Rim Seepage Fen			Suit				
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	East Gulf Coastal Plain Large River Floodplain Forest		Suit					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	East Gulf Coastal Plain Northern Seepage Swamp		Pref					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Lower Mississippi River Bottomland and Floodplain Forest		Suit					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Lower Mississippi River Bottomland Depression		Pref					
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	South-Central Interior Large Floodplain				Suit			
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	South-Central Interior Small Stream and Riparian			Suit	Pref			
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Converted Wetland (Palustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Converted Wetland (Riverine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNGA06040	Egretta caerulea (Little Blue Heron)	Converted Wetland (Lacustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Suit				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Lower Mississippi River Bottomland and Floodplain Forest		Pref					
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Lower Mississippi River Bottomland Depression		Suit					
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	South-Central Interior Small Stream and Riparian			Suit				
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Converted Wetland (Palustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Converted Wetland (Riverine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNKC04010	Elanoides forficatus (Swallow-tailed Kite)	Converted Wetland (Lacustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Central and Southern Appalachian Spruce-Fir Forest							Pref
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern Appalachian Montane Pine Forest and Woodland							Marg
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern and Central Appalachian Oak Forest							Marg
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern Appalachian Grass and Shrub Bald							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern and Central Appalachian Bog and Fen							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	Southern Appalachian Seepage Wetland							Suit
1	Vertebrate - Bird	ABPAE33030	Empidonax alorum (Alder Flycatcher)	South-Central Interior Small Stream and Riparian							Suit
1	Vertebrate - Bird	ABPAE33070	Empidonax minimus (Least Flycatcher)	Central and Southern Appalachian Northern Hardwood Forest							Suit

Terrestrial Habitat Preferences										
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE					
					MAP	UGCP	ILP	CPM	RV	SBR
1	Vertebrate - Bird	ABNNF08020	Limosa haemastica (Hudsonian Godwit)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF08020	Limosa haemastica (Hudsonian Godwit)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF08020	Limosa haemastica (Hudsonian Godwit)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF08020	Limosa haemastica (Hudsonian Godwit)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern Appalachian Low Mountain Pine Forest			Marg	Suit	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit	
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Central and Southern Appalachian Northern Hardwood Forest						Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Limestone Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Marg				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Marg				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern Interior Low Plateau Dry Oak Forest			Marg			
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	South-Central Interior Mesophytic Forest		Suit	Suit	Suit	Suit	
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern and Central Appalachian Oak Forest					Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Appalachian Hemlock-Hardwood Forest				Marg	Marg	Marg
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Eastern Highland Rim Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Pennyroyal Karst Plain Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern Ridge and Valley Patch Prairie					Suit	
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Western Highland Rim Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Marg	Marg	
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern and Central Appalachian Bog and Fen					Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Southern Appalachian Seepage Wetland						Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Western Highland Rim Seepage Fen			Marg			
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Large River Floodplain Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Northern Seepage Swamp		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Lower Mississippi River Bottomland and Floodplain Forest		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Lower Mississippi River Bottomland Depression		Suit				
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	South-Central Interior Large Floodplain				Pref	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Urban / Suburban Managed Forestland		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Old Field / Successional		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Pasture		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNYF04040	Melanerpes erythrocephalus (Red-headed Woodpecker)	Urban / Suburban Managed Grassland		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF07020	Numenius phaeopus (Whimbrel)	Lower Mississippi River Bottomland and Floodplain Forest		Suit				
1	Vertebrate - Bird	ABNNF07020	Numenius phaeopus (Whimbrel)	Lower Mississippi River Bottomland Depression		Pref				
1	Vertebrate - Bird	ABNNF07020	Numenius phaeopus (Whimbrel)	Converted Wetland (Palustrine)		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF07020	Numenius phaeopus (Whimbrel)	Converted Wetland (Riverine)		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF07020	Numenius phaeopus (Whimbrel)	Converted Wetland (Lacustrine)		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Central and Southern Appalachian Spruce-Fir Forest						Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland				Marg	Marg	
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Central and Southern Appalachian Northern Hardwood Forest						Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Limestone Forest		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Marg				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Marg				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Pref				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern Interior Low Plateau Dry Oak Forest			Marg			
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	South-Central Interior Mesophytic Forest		Suit	Pref	Suit	Suit	
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern and Central Appalachian Oak Forest					Marg	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Appalachian Hemlock-Hardwood Forest				Pref	Pref	Pref
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Cumberland Seepage Forest				Suit		
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern and Central Appalachian Bog and Fen					Suit	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Southern Appalachian Seepage Wetland						Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Western Highland Rim Seepage Fen			Suit			
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Large River Floodplain Forest		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Northern Seepage Swamp		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Lower Mississippi River Bottomland and Floodplain Forest		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Lower Mississippi River Bottomland Depression		Suit				
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	South-Central Interior Large Floodplain				Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Forest Plantation		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Urban / Suburban Managed Forestland		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Converted Wetland (Palustrine)		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Converted Wetland (Riverine)		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX11010	Oporornis formosus (Kentucky Warbler)	Converted Wetland (Lacustrine)		Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX02010	Parula americana (Northern Parula)	Lower Mississippi River Bottomland and Floodplain Forest		Pref				
1	Vertebrate - Bird	ABPBX02010	Parula americana (Northern Parula)	Lower Mississippi River Bottomland Depression		Pref				
1	Vertebrate - Bird	ABPBX02010	Parula americana (Northern Parula)	Converted Wetland (Palustrine)		Marg	Marg	Marg	Marg	Marg

Terrestrial Habitat Preferences										
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE					
					MAP	UGCP	ILP	CPM	RV	SBR
1	Vertebrate - Bird	ABPBX02010	Parula americana (Northern Parula)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX02010	Parula americana (Northern Parula)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Appalachian Shale Barrens				Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Central Interior Highlands Calcareous Glade and Barrens	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Central Interior Highlands Dry Acidic Glade and Barrens	Suit	Suit				
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Cumberland Sandstone Glade and Barrens				Suit		
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Nashville Basin Limestone Glade			Suit			
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland					Suit	
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Southern and Central Appalachian Mafic Glade and Barrens						Suit
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit				
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens	Suit					
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Eastern Highland Rim Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Pennyroyal Karst Plain Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Southern Ridge and Valley Patch Prairie					Suit	
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Western Highland Rim Prairie and Barrens			Suit			
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX99010	Passerculus sandwichensis (Savannah Sparrow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Lower Mississippi River Bottomland Depression	Suit					
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX64060	Passerina ciris (Painted Bunting)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNB02030	Pluvialis dominica (American Golden Plover)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABNNB02030	Pluvialis dominica (American Golden Plover)	Lower Mississippi River Bottomland Depression	Suit					
1	Vertebrate - Bird	ABNNB02030	Pluvialis dominica (American Golden Plover)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNB02030	Pluvialis dominica (American Golden Plover)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNB02030	Pluvialis dominica (American Golden Plover)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Central and Southern Appalachian Spruce-Fir Forest						Pref
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Southern Appalachian Low Mountain Pine Forest						Suit
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Southern Appalachian Montane Pine Forest and Woodland						Pref
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Central and Southern Appalachian Northern Hardwood Forest						Suit
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Southern and Central Appalachian Cove Forest						Suit
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Southern and Central Appalachian Oak Forest						Suit
1	Vertebrate - Bird	ABPAW01010	Poecile atricapillus (Black-capped Chickadee)	Appalachian Hemlock-Hardwood Forest						Suit
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Appalachian Shale Barrens				Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Central Interior Highlands Calcareous Glade and Barrens	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Central Interior Highlands Dry Acidic Glade and Barrens	Suit	Suit				
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Cumberland Sandstone Glade and Barrens				Suit		
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Nashville Basin Limestone Glade			Suit			
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland					Suit	
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Southern and Central Appalachian Mafic Glade and Barrens						Marg
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Pref				
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Pref				
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Eastern Highland Rim Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Pennyroyal Karst Plain Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Southern Ridge and Valley Patch Prairie					Pref	
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Western Highland Rim Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX95010	Poocetes gramineus (Vesper Sparrow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Marg	Marg	
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	South-Central Interior / Upper Coastal Plain Wet Flatwoods	Suit					
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Southern and Central Appalachian Bog and Fen					Suit	Suit
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Southern Appalachian Seepage Wetland						Marg
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Western Highland Rim Seepage Fen			Suit			
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Cumberland Riverscour				Marg		
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	East Gulf Coastal Plain Large River Floodplain Forest		Pref				
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	East Gulf Coastal Plain Northern Seepage Swamp		Suit				
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit				
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Lower Mississippi River Bottomland and Floodplain Forest		Pref				
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Lower Mississippi River Bottomland Depression		Pref				
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	South-Central Interior Large Floodplain			Pref	Pref	Pref	Pref
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	South-Central Interior Small Stream and Riparian		Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX07010	Protonotaria citrea (Prothonotary Warbler)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Marg		
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	East Gulf Coastal Plain Large River Floodplain Forest		Pref				
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	East Gulf Coastal Plain Northern Seepage Swamp		Suit				
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Pref				
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Lower Mississippi River Bottomland and Floodplain Forest		Pref				
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Lower Mississippi River Bottomland Depression		Pref				
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	South-Central Interior Large Floodplain			Pref			
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	South-Central Interior Small Stream and Riparian		Suit	Pref			
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit

Terrestrial Habitat Preferences										
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE					
					MAP	UGCP	ILP	CPM	RV	SBR
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNME05020	Rallus elegans (King Rail)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Central and Southern Appalachian Spruce-Fir Forest						Pref
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Southern Appalachian Low Mountain Pine Forest						Marg
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Southern Appalachian Montane Pine Forest and Woodland						Suit
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Central and Southern Appalachian Northern Hardwood Forest						Marg
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Southern and Central Appalachian Cove Forest						Marg
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Southern and Central Appalachian Oak Forest						Marg
1	Vertebrate - Bird	ABPB05010	Regulus satrapa (Golden-crowned Kinglet)	Appalachian Hemlock-Hardwood Forest						Suit
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Lower Mississippi River Bottomland and Floodplain Forest	Suit					
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Lower Mississippi River Bottomland Depression	Suit					
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAU08010	Riparia riparia (Bank Swallow)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Cumberland Riverscour					Marg	
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	East Gulf Coastal Plain Large River Floodplain Forest	Suit					
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Pref				
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Lower Mississippi River Bottomland and Floodplain Forest	Pref					
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	Lower Mississippi River Bottomland Depression	Pref					
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	South-Central Interior Large Floodplain			Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX10030	Seiurus motacilla (Louisiana Waterthrush)	South-Central Interior Small Stream and Riparian		Pref	Pref	Pref	Pref	Pref
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Central and Southern Appalachian Spruce-Fir Forest						Pref
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Southern Appalachian Low Mountain Pine Forest						Marg
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Southern Appalachian Montane Pine Forest and Woodland						Marg
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Central and Southern Appalachian Northern Hardwood Forest						Marg
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Southern and Central Appalachian Cove Forest						Suit
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Southern and Central Appalachian Oak Forest						Marg
1	Vertebrate - Bird	ABPAZ01010	Sitta canadensis (Red-breasted Nuthatch)	Appalachian Hemlock-Hardwood Forest						Suit
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Southern Appalachian Low Mountain Pine Forest						Pref
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Southern Appalachian Montane Pine Forest and Woodland						Pref
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Allegheny-Cumberland Dry Oak Forest and Woodland						Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Central and Southern Appalachian Northern Hardwood Forest						Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	South-Central Interior / Upper Coastal Plain Flatwoods			Marg			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Limestone Forest			Marg			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Northern Loess Bluff Forest			Marg			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Marg			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	South-Central Interior Mesophytic Forest			Marg			Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Southern and Central Appalachian Cove Forest						Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Southern and Central Appalachian Oak Forest						Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Appalachian Hemlock-Hardwood Forest						Marg
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Pref			
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Forest Plantation	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAZ01040	Sitta pusilla (Brown-headed Nuthatch)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNYF05010	Sphyrapicus varius (Yellow-bellied Sapsucker)	Central and Southern Appalachian Northern Hardwood Forest						Pref
1	Vertebrate - Bird	ABNYF05010	Sphyrapicus varius (Yellow-bellied Sapsucker)	Southern and Central Appalachian Cove Forest						Suit
1	Vertebrate - Bird	ABNYF05010	Sphyrapicus varius (Yellow-bellied Sapsucker)	Southern and Central Appalachian Oak Forest						Suit
1	Vertebrate - Bird	ABNYF05010	Sphyrapicus varius (Yellow-bellied Sapsucker)	Appalachian Hemlock-Hardwood Forest						Suit
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit	Suit	
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit	Suit		
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Cumberland Sandstone Glade and Barrens					Suit	
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Nashville Basin Limestone Glade				Suit		
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Pref			
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Eastern Highland Rim Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Pennroyal Karst Plain Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Western Highland Rim Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX65010	Spiza americana (Dickcissel)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Appalachian Shale Barrens						Marg
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit	Suit		
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Cumberland Sandstone Glade and Barrens					Suit	
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Nashville Basin Limestone Glade			Suit			
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Suit
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Southern and Central Appalachian Mafic Glade and Barrens						Suit
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Pref			
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Pref			
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Eastern Highland Rim Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Pennroyal Karst Plain Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Southern Ridge and Valley Patch Prairie						Pref
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Western Highland Rim Prairie and Barrens				Pref		
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBG07010	Thryomanes bewickii (Bewick's Wren)	Edifice / Other Man-made Structure	Marg	Marg	Marg	Marg	Marg	Marg

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Central and Southern Appalachian Spruce-Fir Forest							Suit
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Southern Appalachian Low Mountain Pine Forest							Marg
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Southern Appalachian Montane Pine Forest and Woodland							Suit
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Southern and Central Appalachian Oak Forest							Marg
1	Vertebrate - Bird	ABPBG09050	Troglodytes troglodytes (Winter Wren)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Lower Mississippi River Bottomland and Floodplain Forest	Suit						
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Lower Mississippi River Bottomland Depression	Pref						
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNNF14010	Tryngites subruficollis (Buff-breasted Sandpiper)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Central Interior Highlands Calcareous Glade and Barrens							Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Central Interior Highlands Dry Acidic Glade and Barrens							Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Nashville Basin Limestone Glade							Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Eastern Highland Rim Prairie and Barrens							Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Pennyroyal Karst Plain Prairie and Barrens							Pref
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Western Highland Rim Prairie and Barrens							Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNLC13010	Tympanuchus cupido (Greater Prairie-chicken)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Central Interior Highlands Calcareous Glade and Barrens							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Central Interior Highlands Dry Acidic Glade and Barrens							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Nashville Basin Limestone Glade							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland							Pref
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens							Pref
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Eastern Highland Rim Prairie and Barrens							Pref
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Pennyroyal Karst Plain Prairie and Barrens							Pref
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Western Highland Rim Prairie and Barrens							Pref
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	South-Central Interior / Upper Coastal Plain Wet Flatwoods							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Western Highland Rim Seepage Fen							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	East Gulf Coastal Plain Large River Floodplain Forest							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	East Gulf Coastal Plain Northern Seepage Swamp							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	East Gulf Coastal Plain Small Stream and River Floodplain Forest							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Lower Mississippi River Bottomland and Floodplain Forest	Marg						
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Lower Mississippi River Bottomland Depression	Marg						
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	South-Central Interior Large Floodplain							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	South-Central Interior Small Stream and Riparian							Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPAE52100	Tyrannus forficatus (Scissor-tailed Flycatcher)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	South-Central Interior / Upper Coastal Plain Flatwoods							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Central Interior Highlands Calcareous Glade and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Central Interior Highlands Dry Acidic Glade and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Cumberland Sandstone Glade and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Nashville Basin Limestone Glade							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland							Pref
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens							Pref
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Eastern Highland Rim Prairie and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Pennyroyal Karst Plain Prairie and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Southern Ridge and Valley Patch Prairie							Pref
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Western Highland Rim Prairie and Barrens							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	South-Central Interior / Upper Coastal Plain Wet Flatwoods							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Southern and Central Appalachian Bog and Fen							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Southern Appalachian Seepage Wetland							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Western Highland Rim Seepage Fen							Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABNSA01010	Tyto alba (Barn Owl)	Edifice / Other Man-made Structure	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	South-Central Interior Mesophytic Forest							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern and Central Appalachian Cove Forest							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern and Central Appalachian Oak Forest							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Appalachian Hemlock-Hardwood Forest							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern Appalachian Grass and Shrub Bald							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern Appalachian Rocky Summit							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Appalachian Shale Barrens							Marg
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Central Interior Highlands Calcareous Glade and Barrens							Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Cumberland Sandstone Glade and Barrens							Pref
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland							Pref

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern and Central Appalachian Mafic Glade and Barrens						Suit	Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Southern Ridge and Valley Patch Prairie						Suit	
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01030	Vermivora chrysoptera (Golden-winged Warbler)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland				Marg	Marg	Marg	
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Central and Southern Appalachian Northern Hardwood Forest							Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	South-Central Interior / Upper Coastal Plain Flatwoods		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Limestone Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Northern Loess Bluff Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern Interior Low Plateau Dry Oak Forest			Marg				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	South-Central Interior Mesophytic Forest		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern and Central Appalachian Cove Forest					Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern and Central Appalachian Oak Forest						Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Appalachian Hemlock-Hardwood Forest				Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Appalachian Shale Barrens				Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Central Interior Highlands Calcareous Glade and Barrens		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Central Interior Highlands Dry Acidic Glade and Barrens		Suit	Suit				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Cumberland Sandstone Glade and Barrens				Suit			
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Nashville Basin Limestone Glade			Suit				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Suit	
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern and Central Appalachian Mafic Glade and Barrens							Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Pref					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Pref					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Eastern Highland Rim Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Pennington Karst Plain Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern Ridge and Valley Patch Prairie						Pref	
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Western Highland Rim Prairie and Barrens			Pref				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Cumberland Seepage Forest				Marg			
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern and Central Appalachian Bog and Fen						Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Southern Appalachian Seepage Wetland							Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Western Highland Rim Seepage Fen			Suit				
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Cumberland Riverscours				Marg			
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Large River Floodplain Forest		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Northern Seepage Swamp		Marg					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Lower Mississippi River Bottomland and Floodplain Forest		Suit					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Lower Mississippi River Bottomland Depression		Suit					
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	South-Central Interior Large Floodplain				Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBX01020	Vermivora pinus (Blue-winged Warbler)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Central Interior Highlands Calcareous Glade and Barrens		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Central Interior Highlands Dry Acidic Glade and Barrens		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Marg					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	East Gulf Coastal Plain Large River Floodplain Forest		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Pref					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Lower Mississippi River Bottomland and Floodplain Forest		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Lower Mississippi River Bottomland Depression		Suit					
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	South-Central Interior Small Stream and Riparian			Pref				
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBW01110	Vireo bellii (Bell's Vireo)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit		
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Central and Southern Appalachian Northern Hardwood Forest							Pref
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Southern Interior Low Plateau Dry Oak Forest				Suit			
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	South-Central Interior Mesophytic Forest			Pref	Pref	Pref		
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Southern and Central Appalachian Cove Forest					Pref	Pref	Pref
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	South-Central Interior Small Stream and Riparian				Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01170	Vireo flavifrons (Yellow-throated Vireo)	Urban / Suburban Managed Forestland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Lower Mississippi River Bottomland and Floodplain Forest		Pref					
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Lower Mississippi River Bottomland Depression		Suit					

Terrestrial Habitat Preferences							REGIONAL HABITAT PREFERENCE					
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	MAP	UGCP	ILP	CPM	RV	SBR		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Converted Wetland (Riverine)	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBW01020	Vireo griseus (White-eyed Vireo)	Converted Wetland (Lacustrine)	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Allegheny-Cumberland Dry Oak Forest and Woodland				Marg	Marg			
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Limestone Forest		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Marg						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Marg						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern Interior Low Plateau Dry Oak Forest			Marg					
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	South-Central Interior Mesophytic Forest		Suit	Suit	Suit	Suit			
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern and Central Appalachian Oak Forest					Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Marg						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Marg						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Eastern Highland Rim Prairie and Barrens			Marg					
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Pennyroyal Karst Plain Prairie and Barrens			Marg					
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern Ridge and Valley Patch Prairie					Marg			
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Western Highland Rim Prairie and Barrens			Marg					
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Suit	Suit			
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Cumberland Seepage Forest				Suit				
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern and Central Appalachian Bog and Fen					Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Southern Appalachian Seepage Wetland						Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Western Highland Rim Seepage Fen			Suit					
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Large River Floodplain Forest		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Northern Seepage Swamp		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Lower Mississippi River Bottomland and Floodplain Forest		Pref						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Lower Mississippi River Bottomland Depression		Suit						
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	South-Central Interior Large Floodplain				Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Forest Plantation		Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Urban / Suburban Managed Forestland		Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Old Field / Successional		Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Pasture		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Urban / Suburban Managed Grassland		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Converted Wetland (Palustrine)		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Converted Wetland (Riverine)		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Bird	ABPBX16010	Wilsonia citrina (Hooded Warbler)	Converted Wetland (Lacustrine)		Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMABB05010	Condylura cristata (Star-nosed Mole)	Southern and Central Appalachian Bog and Fen						Suit		
1	Vertebrate - Mammal	AMABB05010	Condylura cristata (Star-nosed Mole)	Southern Appalachian Seepage Wetland						Suit		
1	Vertebrate - Mammal	AMABB05010	Condylura cristata (Star-nosed Mole)	South-Central Interior Large Floodplain						Suit		
1	Vertebrate - Mammal	AMABB05010	Condylura cristata (Star-nosed Mole)	South-Central Interior Small Stream and Riparian						Pref		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit			
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern Interior Sinkhole Wall						Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern Appalachian Low Mountain Pine Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern Appalachian Montane Pine Forest and Woodland					Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Limestone Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern Interior Low Plateau Dry Oak Forest			Suit					
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	South-Central Interior Mesophytic Forest		Suit	Suit	Suit	Suit			
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern and Central Appalachian Oak Forest					Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Suit	Suit	Suit			
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Cumberland Seepage Forest				Suit				
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern and Central Appalachian Bog and Fen					Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Southern Appalachian Seepage Wetland						Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Western Highland Rim Seepage Fen			Suit					
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Cumberland Riverscour				Suit				
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Large River Floodplain Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Northern Seepage Swamp		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Lower Mississippi River Bottomland and Floodplain Forest		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Lower Mississippi River Bottomland Depression		Suit						
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	South-Central Interior Large Floodplain				Suit	Suit	Suit		

Terrestrial Habitat Preferences							REGIONAL HABITAT PREFERENCE					
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	MAP	UGCP	ILP	CPM	RV	SBR		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	South-Central Interior Small Stream and Riparian		Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Urban / Suburban Managed Forestland	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC08020	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	Edifice / Other Man-made Structure	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Central and Southern Appalachian Spruce-Fir Forest						Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Southern Appalachian Low Mountain Pine Forest				Suit		Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Southern Appalachian Montane Pine Forest and Woodland				Suit		Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit				
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	South-Central Interior Mesophytic Forest				Suit				
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Southern and Central Appalachian Cove Forest				Suit		Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Southern and Central Appalachian Oak Forest						Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Appalachian Hemlock-Hardwood Forest				Suit		Suit		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	Cumberland Riverscour				Marg				
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	South-Central Interior Large Floodplain				Pref		Pref		
1	Vertebrate - Mammal	AMAJF01020	Martes pennanti (Fisher)	South-Central Interior Small Stream and Riparian				Pref		Pref		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Central and Southern Appalachian Spruce-Fir Forest						Pref		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Southern Appalachian Low Mountain Pine Forest						Pref		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Southern Appalachian Montane Pine Forest and Woodland						Marg		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Central and Southern Appalachian Northern Hardwood Forest						Pref		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Southern and Central Appalachian Cove Forest						Suit		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Southern and Central Appalachian Oak Forest						Suit		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	Appalachian Hemlock-Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	South-Central Interior Large Floodplain						Suit		
1	Vertebrate - Mammal	AMAFF11091	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	South-Central Interior Small Stream and Riparian						Pref		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Appalachian Shale Barrens				Marg	Suit	Marg		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Central Interior Highlands Calcareous Glade and Barrens				Suit	Suit			
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Cumberland Sandstone Glade and Barrens				Suit				
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland					Suit			
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Southern and Central Appalachian Mafic Glade and Barrens						Suit		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Southern Ridge and Valley Patch Prairie					Suit			
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	South-Central Interior Large Floodplain				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	South-Central Interior Small Stream and Riparian				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAJF02020	Mustela nivalis (Least Weasel)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Limestone Forest				Marg				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest				Marg				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Northern Loess Bluff Forest				Marg				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland				Marg				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Northern Mesic Hardwood Forest				Suit				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	South-Central Interior Mesophytic Forest				Suit				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest				Marg				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	South-Central Interior / Upper Coastal Plain Wet Flatwoods				Suit				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Large River Floodplain Forest				Pref				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Northern Seepage Swamp				Suit				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	East Gulf Coastal Plain Small Stream and River Floodplain Forest				Pref				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Lower Mississippi River Bottomland and Floodplain Forest				Pref				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Lower Mississippi River Bottomland Depression				Pref				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	South-Central Interior Small Stream and Riparian				Suit				
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01030	Myotis austroriparius (Southeastern Bat)	Edifice / Other Man-made Structure	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Suit				
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Central Interior Acidic Cliff and Talus				Suit				
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Central Interior Calcareous Cliff and Talus				Suit				
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	North-Central Appalachian Acidic Cliff and Talus						Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Appalachian Montane Cliff and Talus				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Cumberland Acid Cliff				Suit	Suit			
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Interior Calcareous Cliff					Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Interior Sinkhole Wall				Suit		Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Central and Southern Appalachian Spruce-Fir Forest						Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Appalachian Low Mountain Pine Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Appalachian Montane Pine Forest and Woodland				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit			
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Interior Low Plateau Dry Oak Forest				Suit				
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	South-Central Interior Mesophytic Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern and Central Appalachian Oak Forest					Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern and Central Appalachian Bog and Fen					Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Southern Appalachian Seepage Wetland						Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Cumberland Riverscour				Suit				
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	South-Central Interior Large Floodplain				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	South-Central Interior Small Stream and Riparian				Suit	Suit	Suit		

Terrestrial Habitat Preferences							REGIONAL HABITAT PREFERENCE					
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	MAP	UGCP	ILP	CPM	RV	SBR		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMACC01130	Myotis leibii (Eastern Small-footed Bat)	Edifice / Other Man-made Structure	Marg	Marg	Marg	Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Allegheny-Cumberland Dry Oak Forest and Woodland				Marg	Marg			
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	South-Central Interior Mesophytic Forest				Suit	Suit			
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Southern and Central Appalachian Oak Forest					Marg	Suit		
1	Vertebrate - Mammal	AMAFH02010	Napaeozapus insignis (Woodland Jumping Mouse)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	North-Central Appalachian Acidic Cliff and Talus						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern Appalachian Montane Cliff and Talus						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern Interior Calcareous Cliff						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern Interior Sinkhole Wall						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern and Central Appalachian Cove Forest						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern and Central Appalachian Oak Forest						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Appalachian Hemlock-Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern and Central Appalachian Bog and Fen						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	Southern Appalachian Seepage Wetland						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	South-Central Interior Large Floodplain						Suit		
1	Vertebrate - Mammal	AMAFF08015	Neotoma floridana haematoresia (Southern Appalachian Woodrat)	South-Central Interior Small Stream and Riparian						Pref		
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	South-Central Interior / Upper Coastal Plain Flatwoods				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Limestone Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest				Marg				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Northern Loess Bluff Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland				Marg				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Northern Mesic Hardwood Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	South-Central Interior Mesophytic Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest				Marg				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	South-Central Interior / Upper Coastal Plain Wet Flatwoods				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Large River Floodplain Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Northern Seepage Swamp				Pref				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	East Gulf Coastal Plain Small Stream and River Floodplain Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	Lower Mississippi River Bottomland and Floodplain Forest				Suit				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	Lower Mississippi River Bottomland Depression				Pref				
1	Vertebrate - Mammal	AMAFF08016	Neotoma floridana illinoensis (Eastern Woodrat)	South-Central Interior Small Stream and Riparian				Suit				
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Pref		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Central Interior Acidic Cliff and Talus					Pref			
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Central Interior Calcareous Cliff and Talus					Pref			
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	North-Central Appalachian Acidic Cliff and Talus						Pref		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Appalachian Montane Cliff and Talus					Pref	Pref		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Cumberland Acid Cliff					Marg	Marg		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Interior Calcareous Cliff						Marg		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Interior Sinkhole Wall				Suit		Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Appalachian Low Mountain Pine Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Appalachian Montane Pine Forest and Woodland					Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit			
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern Interior Low Plateau Dry Oak Forest				Suit				
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	South-Central Interior Mesophytic Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern and Central Appalachian Cove Forest					Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Southern and Central Appalachian Oak Forest						Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	Appalachian Hemlock-Hardwood Forest					Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	South-Central Interior Large Floodplain				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF08100	Neotoma magister (Allegheny Woodrat)	South-Central Interior Small Stream and Riparian				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Central and Southern Appalachian Northern Hardwood Forest						Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	South-Central Interior / Upper Coastal Plain Flatwoods				Suit				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Limestone Forest				Suit				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest				Marg				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Northern Loess Bluff Forest				Suit				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland				Marg				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Northern Mesic Hardwood Forest				Suit				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Interior Low Plateau Dry Oak Forest					Marg			
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	South-Central Interior Mesophytic Forest				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern and Central Appalachian Cove Forest					Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern and Central Appalachian Oak Forest						Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Appalachian Hemlock-Hardwood Forest					Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	South-Central Interior Large Floodplain				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	South-Central Interior Small Stream and Riparian				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	Marg		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland				Pref				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens				Pref				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Eastern Highland Rim Prairie and Barrens					Pref			
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Pennsylvanian Karst Plain Prairie and Barrens					Pref			
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Ridge and Valley Patch Prairie						Pref		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Western Highland Rim Prairie and Barrens					Pref			
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Cumberland Seepage Forest					Suit			
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	South-Central Interior / Upper Coastal Plain Wet Flatwoods				Suit				
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern and Central Appalachian Bog and Fen					Suit	Suit		
1	Vertebrate - Mammal	AMAFF04010	Ochrotomys nuttalli (Golden Mouse)	Southern Appalachian Seepage Wetland						Suit		

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	South-Central Interior / Upper Coastal Plain Flatwoods		Marg					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Northern Loess Bluff Forest		Marg					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	South-Central Interior Mesophytic Forest		Suit	Suit	Suit	Suit		
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Southern and Central Appalachian Oak Forest					Marg	Suit	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Appalachian Hemlock-Hardwood Forest				Suit	Suit	Suit	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Eastern Highland Rim Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Pennyrroyal Karst Plain Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Southern Ridge and Valley Patch Prairie						Suit	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Western Highland Rim Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond		Pref	Pref	Pref			
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Cumberland Seepage Forest				Pref			
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	South-Central Interior / Upper Coastal Plain Wet Flatwoods		Suit					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Southern and Central Appalachian Bog and Fen					Pref	Pref	
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Southern Appalachian Seepage Wetland							Pref
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Western Highland Rim Seepage Fen			Pref				
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Large River Floodplain Forest		Marg					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Northern Seepage Swamp		Pref					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Marg					
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	South-Central Interior Large Floodplain			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	South-Central Interior Small Stream and Riparian		Marg	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFF17010	Synaptomys cooperi (Southern Bog Lemming)	Old Field / Successional		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Eastern Highland Rim Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Pennyrroyal Karst Plain Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Southern Ridge and Valley Patch Prairie						Suit	
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Western Highland Rim Prairie and Barrens			Suit				
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond			Pref	Pref	Pref		
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Cumberland Seepage Forest					Pref		
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Southern and Central Appalachian Bog and Fen						Pref	Pref
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Southern Appalachian Seepage Wetland							Pref
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Western Highland Rim Seepage Fen			Pref				
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	East Gulf Coastal Plain Large River Floodplain Forest		Pref					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	East Gulf Coastal Plain Northern Seepage Swamp		Suit					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Suit					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Lower Mississippi River Bottomland and Floodplain Forest		Pref					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Lower Mississippi River Bottomland Depression		Suit					
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	South-Central Interior Small Stream and Riparian			Suit	Pref	Pref	Pref	Pref
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Old Field / Successional		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Pasture		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Cropland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Urban / Suburban Managed Grassland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Converted Wetland (Palustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Converted Wetland (Rivine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Mammal	AMAFH01010	Zapus hudsonius (Meadow Jumping Mouse)	Converted Wetland (Lacustrine)		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Central Interior Acidic Cliff and Talus				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Central Interior Calcareous Cliff and Talus				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	North-Central Appalachian Acidic Cliff and Talus							Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Appalachian Montane Cliff and Talus					Marg	Marg	Marg
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Cumberland Acid Cliff					Suit	Suit	
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Interior Calcareous Cliff						Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Appalachian Low Mountain Pine Forest				Suit	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	Marg
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	South-Central Interior / Upper Coastal Plain Flatwoods				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Limestone Forest				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Marg				
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Northern Mesic Hardwood Forest				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Interior Low Plateau Dry Oak Forest					Suit		
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Marg				
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Marg		Marg	
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Cumberland Seepage Forest						Marg	
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	South-Central Interior / Upper Coastal Plain Wet Flatwoods				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Southern Appalachian Seepage Wetland							Marg
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Western Highland Rim Seepage Fen					Marg		
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Large River Floodplain Forest				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Northern Seepage Swamp				Marg			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	East Gulf Coastal Plain Small Stream and River Floodplain Forest				Suit			
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	South-Central Interior Large Floodplain					Marg		Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	South-Central Interior Small Stream and Riparian					Marg	Marg	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Urban / Suburban Managed Forestland				Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARACF01010	Anolis carolinensis (Green Anole)	Edifice / Other Man-made Structure			Marg	Marg	Marg	Marg	Marg

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central Interior Acidic Cliff and Talus			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central Interior Calcareous Cliff and Talus			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	North-Central Appalachian Acidic Cliff and Talus							Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Appalachian Montane Cliff and Talus				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Allegheny-Cumberland Dry Oak Forest and Woodland					Pref	Suit	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	South-Central Interior / Upper Coastal Plain Flatwoods			Marg				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Northern Loess Bluff Forest			Pref				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Interior Low Plateau Dry Oak Forest				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern and Central Appalachian Oak Forest						Pref	Pref
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Appalachian Grass and Shrub Bald							Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Appalachian Shale Barrens					Marg		
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central Interior Highlands Calcareous Glade and Barrens			Marg	Suit	Marg	Marg	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central Interior Highlands Dry Acidic Glade and Barrens			Marg	Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Cumberland Sandstone Glade and Barrens					Marg		
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Nashville Basin Limestone Glade				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Marg				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Marg				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Eastern Highland Rim Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Pennyroyal Karst Plain Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Ridge and Valley Patch Prairie						Marg	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Western Highland Rim Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Cumberland Seepage Forest					Marg		
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Southern Appalachian Seepage Wetland							Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Northern Seepage Swamp			Marg				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Suit				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Lower Mississippi River Bottomland and Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Lower Mississippi River Bottomland Depression			Pref				
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Forest Plantation			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Urban / Suburban Managed Forestland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Pasture			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Cropland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Urban / Suburban Managed Grassland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Converted Wetland (Palustrine)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Converted Wetland (Riverine)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE02040	Crotalus horridus (Timber Rattlesnake)	Converted Wetland (Lacustrine)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse					Suit		
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern Appalachian Low Mountain Pine Forest				Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	Marg
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg	
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	South-Central Interior / Upper Coastal Plain Flatwoods			Marg				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Marg				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Marg				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern Interior Low Plateau Dry Oak Forest				Marg			
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern and Central Appalachian Cove Forest					Suit	Marg	Suit
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern and Central Appalachian Oak Forest						Marg	Marg
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Appalachian Hemlock-Hardwood Forest					Pref	Pref	Pref
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Marg				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Cumberland Seepage Forest					Suit		
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Southern and Central Appalachian Bog and Fen						Suit	Suit
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	Western Highland Rim Seepage Fen				Suit			
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARACH01010	Eumeces anthracinus (Coal Skink)	South-Central Interior Small Stream and Riparian			Pref	Pref	Pref	Pref	Pref
1	Vertebrate - Reptile	ARAAD02040	Glyptemys muhlenbergii (Bog Turtle)	Southern and Central Appalachian Bog and Fen							Pref
1	Vertebrate - Reptile	ARAAD02040	Glyptemys muhlenbergii (Bog Turtle)	Southern Appalachian Seepage Wetland							Suit

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Reptile	ARAAD02040	Glyptemys mhlenbergii (Bog Turtle)	South-Central Interior Small Stream and Riparian							Suit
1	Vertebrate - Reptile	ARAAD02040	Glyptemys mhlenbergii (Bog Turtle)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Reptile	ARAAD02040	Glyptemys mhlenbergii (Bog Turtle)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Reptile	ARAAD02040	Glyptemys mhlenbergii (Bog Turtle)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Marg			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	North-Central Appalachian Acidic Cliff and Talus							Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Appalachian Montane Cliff and Talus				Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Appalachian Low Mountain Pine Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Allegheny-Cumberland Dry Oak Forest and Woodland				Suit	Suit		
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Interior Low Plateau Dry Oak Forest				Suit			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern and Central Appalachian Oak Forest						Suit	Suit
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Appalachian Hemlock-Hardwood Forest					Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Pref				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Central Interior Highlands Calcareous Glade and Barrens			Marg	Marg	Marg	Marg	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Central Interior Highlands Dry Acidic Glade and Barrens			Marg	Marg			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Cumberland Sandstone Glade and Barrens					Marg		
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Nashville Basin Limestone Glade				Marg			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Eastern Highland Rim Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Pennyroyal Karst Plain Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Ridge and Valley Patch Prairie						Suit	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Western Highland Rim Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Cumberland Seepage Forest					Marg		
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern and Central Appalachian Bog and Fen						Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Southern Appalachian Seepage Wetland							Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Large River Floodplain Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Suit				
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Forest Plantation			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Urban / Suburban Managed Forestland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Pasture			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Cropland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Urban / Suburban Managed Grassland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB17020	Heterodon platirhinos (Eastern Hognosed Snake)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	South-Central Interior Mesophytic Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Central Interior Highlands Calcareous Glade and Barrens			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Central Interior Highlands Dry Acidic Glade and Barrens			Suit				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Pref				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Pref				
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Forest Plantation			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Urban / Suburban Managed Forestland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Pasture			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Cropland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB21020	Masticophis flagellum (Coachwhip)	Urban / Suburban Managed Grassland			Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Marg				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	Lower Mississippi River Bottomland and Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	Lower Mississippi River Bottomland Depression			Pref				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	South-Central Interior Small Stream and Riparian			Pref				
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	Converted Wetland (Palustrine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	Converted Wetland (Riverine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB22010	Nerodia cyclopion (Green Water Snake)	Converted Wetland (Lacustrine)			Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Marg				
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	East Gulf Coastal Plain Northern Seepage Swamp			Marg				
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Lower Mississippi River Bottomland and Floodplain Forest			Pref				

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Lower Mississippi River Bottomland Depression	Pref						
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	South-Central Interior Small Stream and Riparian		Pref					
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB22022	Nerodia erythrogaster flavigaster (Yellowbelly Water Snake)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern Appalachian Low Mountain Pine Forest			Suit	Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern Appalachian Montane Pine Forest and Woodland				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Limestone Forest		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern Interior Low Plateau Dry Oak Forest			Suit				
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	South-Central Interior Mesophytic Forest		Suit	Suit	Suit	Suit		
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern and Central Appalachian Cove Forest				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern and Central Appalachian Oak Forest					Suit	Suit	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Appalachian Hemlock-Hardwood Forest				Marg	Marg	Marg	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Suit					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Appalachian Shale Barrens				Marg	Marg	Marg	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Central Interior Highlands Calcareous Glade and Barrens		Marg	Marg	Marg	Marg		
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Central Interior Highlands Dry Acidic Glade and Barrens		Marg	Marg				
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Cumberland Sandstone Glade and Barrens				Marg			
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Nashville Basin Limestone Glade			Marg				
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Pref					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Pref					
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Eastern Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Penryroyal Karst Plain Prairie and Barrens				Pref			
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Southern Ridge and Valley Patch Prairie					Pref		
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Western Highland Rim Prairie and Barrens				Pref			
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Forest Plantation		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Urban / Suburban Managed Forestland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Old Field / Successional		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Urban / Suburban Managed Grassland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARACB02012	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern Appalachian Low Mountain Pine Forest			Suit	Pref	Pref	Pref	
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern Appalachian Montane Pine Forest and Woodland				Suit	Suit	Suit	
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Central and Southern Appalachian Northern Hardwood Forest							Suit
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern Interior Low Plateau Dry Oak Forest			Suit				
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit		
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern and Central Appalachian Cove Forest				Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern and Central Appalachian Oak Forest					Suit	Suit	
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Appalachian Hemlock-Hardwood Forest					Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Appalachian Shale Barrens					Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Central Interior Highlands Calcareous Glade and Barrens			Marg	Marg	Marg		
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Central Interior Highlands Dry Acidic Glade and Barrens			Marg				
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Cumberland Sandstone Glade and Barrens					Marg		
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Nashville Basin Limestone Glade			Marg				
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Eastern Highland Rim Prairie and Barrens			Suit				
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Penryroyal Karst Plain Prairie and Barrens			Suit				
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Southern Ridge and Valley Patch Prairie					Suit		
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Western Highland Rim Prairie and Barrens				Suit			
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Forest Plantation		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Urban / Suburban Managed Forestland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Old Field / Successional		Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Pasture		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Urban / Suburban Managed Grassland		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)		Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Southern Appalachian Low Mountain Pine Forest			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Southern Interior Low Plateau Dry Oak Forest				Suit			
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	South-Central Interior Mesophytic Forest			Suit	Suit			
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Pref				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond				Suit			
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Western Highland Rim Seepage Fen					Marg		
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Pref				
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	South-Central Interior Large Floodplain				Pref			
1	Vertebrate - Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	South-Central Interior Small Stream and Riparian			Pref	Suit			
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Limestone Forest			Suit				
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	South-Central Interior Mesophytic Forest		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Marg					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Central Interior Highlands Calcareous Glade and Barrens		Marg					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Central Interior Highlands Dry Acidic Glade and Barrens		Marg					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit					
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
1	Vertebrate - Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	South-Central Interior / Upper Coastal Plain Flatwoods		Suit					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Limestone Forest		Suit					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Marg					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Marg					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	South-Central Interior Mesophytic Forest		Suit					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Large River Floodplain Forest		Pref					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Northern Seepage Swamp		Marg					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	East Gulf Coastal Plain Small Stream and River Floodplain Forest		Pref					
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Lower Mississippi River Bottomland and Floodplain Forest	Pref						
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Lower Mississippi River Bottomland Depression	Suit						
2	Invertebrate - Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	South-Central Interior Small Stream and Riparian		Suit					
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Appalachian Shale Barrens				Suit	Suit		
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Central Interior Highlands Calcareous Glade and Barrens			Suit	Suit	Suit		
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Central Interior Highlands Dry Acidic Glade and Barrens			Pref				
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Cumberland Sandstone Glade and Barrens				Suit			
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Nashville Basin Limestone Glade			Suit				
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland					Suit		
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Eastern Highland Rim Prairie and Barrens			Suit				
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Pennyroyal Karst Plain Prairie and Barrens			Suit				
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Southern Ridge and Valley Patch Prairie					Suit		
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Western Highland Rim Prairie and Barrens			Suit				
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
2	Invertebrate - Insect	IILEPE2220	Callophrys irus (Frosted Elf)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IICOL02070	Cicindela ancocisconensis (a tiger beetle)	Cumberland Riverscour					Pref		
2	Invertebrate - Insect	IICOL02070	Cicindela ancocisconensis (a tiger beetle)	South-Central Interior Large Floodplain					Suit		
2	Invertebrate - Insect	IICOL02070	Cicindela ancocisconensis (a tiger beetle)	South-Central Interior Small Stream and Riparian					Suit		
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Central and Southern Appalachian Spruce-Fir Forest							Pref
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Southern Appalachian Low Mountain Pine Forest							Marg
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Southern Appalachian Montane Pine Forest and Woodland							Marg
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Central and Southern Appalachian Northern Hardwood Forest							Suit
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Southern and Central Appalachian Cove Forest							Marg
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Southern and Central Appalachian Oak Forest							Marg
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Appalachian Hemlock-Hardwood Forest							Suit
2	Invertebrate - Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Central and Southern Appalachian Northern Hardwood Forest							Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	South-Central Interior Mesophytic Forest					Suit	Suit	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Southern and Central Appalachian Oak Forest							Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Appalachian Shale Barrens					Marg	Marg	Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Central Interior Highlands Calcareous Glade and Barrens					Suit	Suit	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Cumberland Sandstone Glade and Barrens					Suit		
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Suit	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Southern Ridge and Valley Patch Prairie						Suit	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Cumberland Riverscour						Marg	
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	South-Central Interior Large Floodplain					Suit	Suit	Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	South-Central Interior Small Stream and Riparian					Suit	Suit	Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
2	Invertebrate - Insect	IILEPJ6010	Speyeria diana (Diana Fritillary)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
2	Invertebrate - Tardigrade	IRPRT02010	Calohypsibius schusteri (Schuster's Tardigrade)	Central and Southern Appalachian Spruce-Fir Forest							Pref
2	Invertebrate - Tardigrade	IRPRT03010	Hypsibius roanensis (Roan Tardigrade)	Central and Southern Appalachian Spruce-Fir Forest							Pref
2	Invertebrate - Tardigrade	IRPRT03010	Hypsibius roanensis (Roan Tardigrade)	Southern Appalachian Montane Pine Forest and Woodland							Suit
3	Invertebrate - Arachnid	ILARA33010	Microhexura montivaga (Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula)	Central and Southern Appalachian Spruce-Fir Forest							Pref
3	Invertebrate - Arachnid	ILARA33010	Microhexura montivaga (Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula)	Appalachian Hemlock-Hardwood Forest							Marg
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Suit	
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Southern Appalachian Low Mountain Pine Forest					Marg		
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Southern Appalachian Montane Pine Forest and Woodland						Marg	
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Allegheny-Cumberland Dry Oak Forest and Woodland						Marg	
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	South-Central Interior Mesophytic Forest						Suit	
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Southern and Central Appalachian Cove Forest						Suit	
3	Invertebrate - Gastropod	IMGASS3080	Anguispira picta (Painted Tigershell or Painted Disc)	Appalachian Hemlock-Hardwood Forest						Suit	
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS EL CODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Limestone Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Northern Loess Bluff Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Northern Mesic Hardwood Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	South-Central Interior Mesophytic Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens		Suit					
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Forest Plantation	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Urban / Suburban Managed Forestland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Invertebrate - Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Lower Mississippi River Bottomland and Floodplain Forest		Suit					
3	Vertebrate - Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Lower Mississippi River Bottomland Depression		Pref					
3	Vertebrate - Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Lower Mississippi River Bottomland and Floodplain Forest		Suit					
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Lower Mississippi River Bottomland Depression		Pref					
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Urban / Suburban Managed Grassland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse				Suit			
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central Interior Acidic Cliff and Talus			Suit				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central Interior Calcareous Cliff and Talus			Suit				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	North-Central Appalachian Acidic Cliff and Talus							Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Appalachian Montane Cliff and Talus				Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Cumberland Acid Cliff				Suit	Suit		
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Interior Calcareous Cliff				Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Interior Sinkhole Wall			Suit				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central and Southern Appalachian Spruce-Fir Forest							Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Appalachian Montane Pine Forest and Woodland				Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Allegheny-Cumberland Dry Oak Forest and Woodland				Marg	Marg	Marg	
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central and Southern Appalachian Northern Hardwood Forest							Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Interior Low Plateau Dry Oak Forest			Marg				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	South-Central Interior Mesophytic Forest			Marg	Marg	Marg		
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern and Central Appalachian Cove Forest				Marg	Marg	Marg	
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern and Central Appalachian Oak Forest					Marg	Marg	
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Appalachian Hemlock-Hardwood Forest					Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Appalachian Grass and Shrub Bald							Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Appalachian Shale Barrens					Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central Interior Highlands Calcareous Glade and Barrens			Marg	Marg	Marg		
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Central Interior Highlands Dry Acidic Glade and Barrens			Marg				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Cumberland Sandstone Glade and Barrens					Marg		
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Nashville Basin Limestone Glade			Marg				
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Ridge and Valley Calcareous Valley Bottom Glade and Woodland						Marg	
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern and Central Appalachian Mafic Glade and Barrens							Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Eastern Highland Rim Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Penryroyal Karst Plain Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Southern Ridge and Valley Patch Prairie						Suit	
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Western Highland Rim Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	South-Central Interior Large Floodplain					Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	South-Central Interior Small Stream and Riparian					Suit	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Urban / Suburban Managed Forestland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Old Field / Successional	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Pasture	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Cropland	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Urban / Suburban Managed Grassland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Excavated Land (Strip Mine / Road Cut / Rock Quarry / Gravel Pit)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Converted Wetland (Palustrine)	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Edifice / Other Man-made Structure	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	South-Central Interior Large Floodplain							Suit
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	South-Central Interior Small Stream and Riparian							Marg
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Old Field / Successional	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Pasture	Marg	Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Cropland	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Converted Wetland (Palustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Converted Wetland (Riverine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNMK01030	Grus americana (Whooping Crane)	Converted Wetland (Lacustrine)	Suit	Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse						Marg	
3	Vertebrate - Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Central Interior Acidic Cliff and Talus				Suit			
3	Vertebrate - Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Central Interior Calcareous Cliff and Talus				Suit			
3	Vertebrate - Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Southern Appalachian Montane Cliff and Talus					Suit	Suit	
3	Vertebrate - Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Cumberland Acid Cliff					Suit	Suit	

Terrestrial Habitat Preferences											
Tier	Taxonomic Group	NS ELCODE	Species Name	Habitat Type	REGIONAL HABITAT PREFERENCE						
					MAP	UGCP	ILP	CPM	RV	SBR	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern Interior Calcareous Cliff						Suit	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern Appalachian Low Mountain Pine Forest			Marg	Marg	Marg		
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern Appalachian Montane Pine Forest and Woodland					Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Allegheny-Cumberland Dry Oak Forest and Woodland					Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	South-Central Interior / Upper Coastal Plain Flatwoods			Marg				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Limestone Forest			Marg				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Marg				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Marg				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern Interior Low Plateau Dry Oak Forest				Marg			
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	South-Central Interior Mesophytic Forest			Suit	Marg	Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern and Central Appalachian Cove Forest					Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Southern and Central Appalachian Oak Forest						Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Appalachian Hemlock-Hardwood Forest					Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Marg				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Suit				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Large River Floodplain Forest			Pref				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Northern Seepage Swamp			Suit				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Pref				
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Lower Mississippi River Bottomland and Floodplain Forest		Pref					
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Lower Mississippi River Bottomland Depression		Suit					
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	South-Central Interior Large Floodplain				Pref	Pref	Pref	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	South-Central Interior Small Stream and Riparian			Marg	Marg	Marg	Marg	
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Converted Wetland (Palustrine)		Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Converted Wetland (Riverine)		Suit	Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNKC10010	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Converted Wetland (Lacustrine)		Marg	Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Allegheny-Cumberland Dry Oak Forest and Woodland					Suit	Suit	
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Central and Southern Appalachian Northern Hardwood Forest							Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	South-Central Interior / Upper Coastal Plain Flatwoods			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Limestone Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Northern Loess Bluff Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Northern Mesic Hardwood Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Southern Interior Low Plateau Dry Oak Forest				Suit			
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	South-Central Interior Mesophytic Forest			Suit	Suit	Suit	Suit	
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Southern and Central Appalachian Cove Forest					Suit	Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Southern and Central Appalachian Oak Forest						Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Appalachian Hemlock-Hardwood Forest					Suit	Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Jackson Plain Prairie and Barrens			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Eastern Highland Rim Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Pennyrroyal Karst Plain Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Southern Ridge and Valley Patch Prairie						Suit	
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Western Highland Rim Prairie and Barrens				Suit			
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Central Interior Highlands and Appalachian Sinkhole and Depression Pond					Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Cumberland Seepage Forest					Marg		
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	South-Central Interior / Upper Coastal Plain Wet Flatwoods			Marg				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Southern and Central Appalachian Bog and Fen						Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Large River Floodplain Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Northern Seepage Swamp			Marg				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	East Gulf Coastal Plain Small Stream and River Floodplain Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Lower Mississippi River Bottomland and Floodplain Forest			Suit				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Lower Mississippi River Bottomland Depression			Marg				
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	South-Central Interior Large Floodplain				Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	South-Central Interior Small Stream and Riparian			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Old Field / Successional			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Pasture			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Cropland			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Converted Wetland (Palustrine)			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Converted Wetland (Riverine)			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNF19020	<i>Scolopax minor</i> (American Woodcock)	Converted Wetland (Lacustrine)			Marg	Marg	Marg	Marg	Marg
3	Vertebrate - Bird	ABNNM08102	<i>Sterna antillarum athalassos</i> (Interior Least Tern)	Lower Mississippi River Bottomland and Floodplain Forest			Suit				
3	Vertebrate - Bird	ABNNM08102	<i>Sterna antillarum athalassos</i> (Interior Least Tern)	Lower Mississippi River Bottomland Depression			Pref				
3	Vertebrate - Bird	ABNNM08102	<i>Sterna antillarum athalassos</i> (Interior Least Tern)	Converted Wetland (Palustrine)			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNM08102	<i>Sterna antillarum athalassos</i> (Interior Least Tern)	Converted Wetland (Riverine)			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Bird	ABNNM08102	<i>Sterna antillarum athalassos</i> (Interior Least Tern)	Converted Wetland (Lacustrine)			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Mammal	AMACC08012	<i>Corynorhinus townsendii virginianus</i> (Virginia Big-eared Bat)	Central and Southern Appalachian Northern Hardwood Forest							Suit
3	Vertebrate - Mammal	AMACC08012	<i>Corynorhinus townsendii virginianus</i> (Virginia Big-eared Bat)	Southern and Central Appalachian Cove Forest							Suit
3	Vertebrate - Mammal	AMACC08012	<i>Corynorhinus townsendii virginianus</i> (Virginia Big-eared Bat)	Southern and Central Appalachian Oak Forest							Suit
3	Vertebrate - Mammal	AMACC08012	<i>Corynorhinus townsendii virginianus</i> (Virginia Big-eared Bat)	Appalachian Hemlock-Hardwood Forest							Suit
3	Vertebrate - Mammal	AMACC08012	<i>Corynorhinus townsendii virginianus</i> (Virginia Big-eared Bat)	Edifice / Other Man-made Structure			Suit	Suit	Suit	Suit	Suit
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Central and Southern Appalachian Spruce-Fir Forest							Pref
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Southern Appalachian Montane Pine Forest and Woodland							Suit
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Central and Southern Appalachian Northern Hardwood Forest							Pref
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Southern and Central Appalachian Cove Forest							Suit
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Southern and Central Appalachian Oak Forest							Suit
3	Vertebrate - Mammal	AMAFB09022	<i>Glaucmys sabrinus coloratus</i> (Carolina Northern Flying Squirrel)	Appalachian Hemlock-Hardwood Forest							Suit
3	Vertebrate - Mammal	AMAE03010	<i>Lepus americanus</i> (Snowshoe Hare)	Central and Southern Appalachian Spruce-Fir Forest							Pref
3	Vertebrate - Mammal	AMAE03010	<i>Lepus americanus</i> (Snowshoe Hare)	Southern Appalachian Montane Pine Forest and Woodland							Suit
3	Vertebrate - Mammal	AMAE03010	<i>Lepus americanus</i> (Snowshoe Hare)	Central and Southern Appalachian Northern Hardwood Forest							Pref
3	Vertebrate - Mammal	AMAE03010	<i>Lepus americanus</i> (Snowshoe Hare)	Southern and Central Appalachian Cove Forest							Suit
3	Vertebrate - Mammal	AMAE03010	<i>Lepus americanus</i> (Snowshoe Hare)	Southern and Central Appalachian Oak Forest							Suit

AQUATIC HABITAT PREFERENCES																					
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification				Subregional Habitat Preference													
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR								
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR				
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau									Suit							
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D002	ridge and valley streams														Marg		
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D003	ridge and valley streams														Marg		
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D030	Highland Rim streams								Suit								
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D032	Highland Rim streams							Suit	Suit	Suit							
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D033	Highland Rim streams							Suit									
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D035	Nashville Basin streams								Suit								
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D036	Highland Rim streams								Suit								
1	Invertebrate - Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	D037	Highland Rim streams								Suit								
1	Invertebrate - Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	D005	ridge and valley streams								Suit								
1	Invertebrate - Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	D040	transitional streams, Blue Ridge to Ridge and Valley								Pref								
1	Invertebrate - Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	D005	ridge and valley streams								Suit								
1	Invertebrate - Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	D040	transitional streams, Blue Ridge to Ridge and Valley								Pref								
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley													Pref	Pref		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley								Pref	Suit	Suit						
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley														Pref		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	C001	small ridge and valley rivers, origin in ridge and valley														Pref		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont														Suit	Pref	
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	C009	small Highland Rim rivers, origin in the Cumberland Plateau								Suit								
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	C010	small Highland Rim rivers, origin in Highland Rim								Suit								
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	C011	small Nashville Basin rivers, origin in Highland Rim													Pref			
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D002	ridge and valley streams														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D007	ridge and valley streams														Pref		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D008	ridge and valley streams															Suit	
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D010	ridge and valley streams														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D026	transitional streams Cumberland plateau to Highland Rim									Pref							
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D027	transitional streams southern Cumberland plateau to Highland Rim														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D030	Highland Rim streams								Suit								
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D031	Highland Rim streams														Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D032	Highland Rim streams									Suit					Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D033	Highland Rim streams									Suit					Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D034	Nashville Basin streams									Suit					Suit		
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D036	Highland Rim streams									Suit							
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D038	outer Highland Rim streams									Suit							
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D040	transitional streams, Blue Ridge to Ridge and Valley															Suit	
1	Invertebrate - Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	D077	coastal plain streams										Suit						
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley														Suit	Pref	Pref
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley													Pref			
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley															Pref	Pref
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley														Suit	Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C001	small ridge and valley rivers, origin in ridge and valley															Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C002	small Ridge and Valley River, origin in the Cumberland Plateau															Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont														Suit	Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C006	small Cumberland Plateau rivers, in moderate elevation, origin in Cumberland Plateau														Suit		
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C010	small Highland Rim rivers, origin in Highland Rim														Pref		
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C011	small Nashville Basin rivers, origin in Highland Rim														Pref	Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C012	small Blue Ridge rivers, origin in Blue Ridge																Pref
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	C018	small Coastal Plain rivers, origin in Coastal Plain														Suit		
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D002	ridge and valley streams															Pref	
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D003	ridge and valley streams																Suit
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D005	ridge and valley streams									Suit							
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D007	ridge and valley streams															Suit	Suit
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D008	ridge and valley streams															Pref	Pref
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D009	ridge and valley streams															Suit	Suit
1	Invertebrate - Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	D010	ridge and valley streams														Suit	Suit	

AQUATIC HABITAT PREFERENCES																			
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification				Subregional Habitat Preference											
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR						
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR		
1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	D033	Highland Rim streams				Pref					Pref					
1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	D037	Highland Rim streams				Suit										
1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	D072	transitional streams, coastal plain to Highland Rim									Suit					
1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	D077	coastal plain streams									Suit					
1	Invertebrate - Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	D098	coastal plain streams, loess veneer over sands		Suit												
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley											Suit	Suit	Suit	
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley				Pref		Suit		Suit						
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley												Pref	Pref	
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley												Pref		
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	B005	medium Nashville Basin rivers, origin in the Highland Rim														
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C001	small ridge and valley rivers, origin in ridge and valley						Suit		Suit					Suit	
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C002	small Ridge and Valley River, origin in the Cumberland Plateau												Pref		
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont														Pref
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C009	small Highland Rim rivers, origin in the Cumberland Plateau							Pref							
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C010	small Highland Rim rivers, origin in Highland Rim				Pref				Pref						
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C011	small Nashville Basin rivers, origin in Highland Rim						Pref				Pref				
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	C018	small Coastal Plain rivers, origin in Coastal Plain											Suit			
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D008	ridge and valley streams														Suit
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment													Suit	
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D016	transitional streams, Cumberland plateau to ridge and valley, escarpment													Suit	
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D021	ridge and valley streams, few headwaters in plateau sandstones												Suit		
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D029	Highland Rim streams, some headwaters in plateau sandstones							Suit							
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D030	Highland Rim streams				Suit										
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D031	Highland Rim streams				Suit										
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D032	Highland Rim streams				Suit		Suit		Suit	Suit					
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D033	Highland Rim streams						Suit		Suit						
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D034	Nashville Basin streams												Pref		
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D036	Highland Rim streams				Suit	Suit									
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D040	transitional streams, Blue Ridge to Ridge and Valley														Suit
1	Invertebrate - Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	D077	coastal plain streams									Suit					
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley												Pref	Pref	Pref
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley				Pref	Pref	Pref		Pref						
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Pref	Pref
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley													Pref	
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	B013	medium Gulf Coastal Plain rivers, origin in the Coastal Plain		Pref												
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C001	small ridge and valley rivers, origin in ridge and valley													Pref	
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C002	small Ridge and Valley River, origin in the Cumberland Plateau												Suit		
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Suit	Pref
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C009	small Highland Rim rivers, origin in the Cumberland Plateau							Suit							
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C010	small Highland Rim rivers, origin in Highland Rim				Pref										
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau									Suit					
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	C018	small Coastal Plain rivers, origin in Coastal Plain									Suit					
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D002	ridge and valley streams													Pref	
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D004	ridge and valley streams														Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D006	ridge and valley streams														Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D007	ridge and valley streams													Pref	
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D008	ridge and valley streams													Pref	Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D010	ridge and valley streams												Suit	Suit	Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment												Suit		
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D020	ridge and valley streams, few headwaters in plateau sandstones												Suit		
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D027	transitional streams southern Cumberland plateau to Highland Rim													Suit	
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D032	Highland Rim streams				Suit		Pref								Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D033	Highland Rim streams				Suit	Suit	Suit		Suit						
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D037	Highland Rim streams						Suit								
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D040	transitional streams, Blue Ridge to Ridge and Valley														Suit
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D072	transitional streams, coastal plain to Highland Rim												Suit		
1	Invertebrate - Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	D077	coastal plain streams		Suit									Suit			

AQUATIC HABITAT PREFERENCES																		
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification					Subregional Habitat Preference									
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR					
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR	
1	Invertebrate - Bivalve	IMBIV35170	Pleurobema johannis (Alabama Pigtoe)	D005	ridge and valley streams				Suit									
1	Invertebrate - Bivalve	IMBIV35170	Pleurobema johannis (Alabama Pigtoe)	D040	transitional streams, Blue Ridge to Ridge and Valley				Suit									
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley										Pref	Suit		
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley								Suit					
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley											Pref	Suit	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	B005	medium Nashville Basin rivers, origin in the Highland Rim							Suit		Pref				
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C001	small ridge and valley rivers, origin in ridge and valley												Pref	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C002	small Ridge and Valley River, origin in the Cumberland Plateau										Pref			
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C006	small Cumberland Plateau rivers, in moderate elevation, origin in Cumberland Plateau											Pref		
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C010	small Highland Rim rivers, origin in Highland Rim									Pref				
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C011	small Nashville Basin rivers, origin in Highland Rim										Pref			
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	C012	small Blue Ridge rivers, origin in Blue Ridge													Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D002	ridge and valley streams												Suit	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D003	ridge and valley streams													Suit
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D004	ridge and valley streams													Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D007	ridge and valley streams												Suit	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D008	ridge and valley streams												Suit	Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D009	ridge and valley streams													Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment												Suit	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D016	transitional streams, Cumberland plateau to ridge and valley, escarpment												Suit	
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D021	ridge and valley streams, few headwaters in plateau sandstones									Pref				
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D024	Cumberland mountain, plateau streams											Pref		
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D026	transitional streams Cumberland plateau to Highland Rim							Pref						
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D027	transitional streams southern Cumberland plateau to Highland Rim													Suit
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D029	Highland Rim streams, some headwaters in plateau sandstones													Suit
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D032	Highland Rim streams									Suit	Suit			
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D034	Nashville Basin streams								Pref		Pref			
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D040	transitional streams, Blue Ridge to Ridge and Valley													Pref
1	Invertebrate - Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	D050	Blue Ridge streams													Suit
1	Invertebrate - Bivalve	IMBIV35280	Pleurobema rubellum (Warrior Pigtoe)	D005	ridge and valley streams								Suit					
1	Invertebrate - Bivalve	IMBIV35280	Pleurobema rubellum (Warrior Pigtoe)	D040	transitional streams, Blue Ridge to Ridge and Valley								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley											Pref	Pref	Pref
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Pref	Suit		Pref		
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley												Pref	Pref
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley												Suit	
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	B005	medium Nashville Basin rivers, origin in the Highland Rim								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	C001	small ridge and valley rivers, origin in ridge and valley												Pref	
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	C010	small Highland Rim rivers, origin in Highland Rim								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	C011	small Nashville Basin rivers, origin in Highland Rim									Pref		Pref		
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D008	ridge and valley streams													Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D009	ridge and valley streams													Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D010	ridge and valley streams												Suit	Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment													Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D030	Highland Rim streams								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D031	Highland Rim streams								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D032	Highland Rim streams								Suit					
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D033	Highland Rim streams									Suit	Suit			
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D034	Nashville Basin streams												Suit	
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D036	Highland Rim streams													Suit
1	Invertebrate - Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	D077	coastal plain streams									Suit				
1	Invertebrate - Bivalve	IMBIV35310	Pleurobema troscelianum (Alabama Clubshell)	D005	ridge and valley streams								Suit					
1	Invertebrate - Bivalve	IMBIV35310	Pleurobema troscelianum (Alabama Clubshell)	D040	transitional streams, Blue Ridge to Ridge and Valley								Pref					
1	Invertebrate - Bivalve	IMBIV38050	Ptychobranchus subtentum (Fluted Kidneyshell)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley												Suit	Suit
1	Invertebrate - Bivalve	IMBIV38050	Ptychobranchus subtentum (Fluted Kidneyshell)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley								Suit				Suit	
1	Invertebrate - Bivalve	IMBIV38050	Ptychobranchus subtentum (Fluted Kidneyshell)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley												Suit	Pref

				AQUATIC HABITAT PREFERENCES																	
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification							Subregional Habitat Preference										
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR								
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR				
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	C018	small Coastal Plain rivers, origin in Coastal Plain													Suit			
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D030	Highland Rim streams													Suit			
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D032	Highland Rim streams													Pref	Suit		
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D033	Highland Rim streams													Suit			
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D034	Nashville Basin streams														Suit		
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D072	transitional streams, coastal plain to Highland Rim													Pref			
1	Vertebrate - Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	D077	coastal plain streams													Suit			
1	Vertebrate - Fish	AFCKA02270	Noturus sp. 4 (Chuckey Madtom)	D008	ridge and valley streams																Pref
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	A010	large alluvial plain rivers, origin in continental interior					Marg											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	B013	medium Gulf Coastal Plain rivers, origin in the Coastal Plain					Pref											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	C018	small Coastal Plain rivers, origin in Coastal Plain					Suit											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	D077	coastal plain streams					Pref											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	D079	coastal plain streams, transitional to alluvium					Suit											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	D083	coastal plain streams, acidic clays					Suit											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	D085	coastal plain streams, calcareous clays, sands					Pref											
1	Vertebrate - Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	D098	coastal plain streams, loess veneer over sands					Suit											
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley															Suit	Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley															Suit	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	B007	medium Blue Ridge rivers, origin in the Blue Ridge																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	C001	small ridge and valley rivers, origin in ridge and valley																Pref
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	C002	small Ridge and Valley River, origin in the Cumberland Plateau															Pref	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont																Pref
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	C006	small Cumberland Plateau rivers, in moderate elevation, origin in Cumberland Plateau															Pref	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	C012	small Blue Ridge rivers, origin in Blue Ridge																Pref
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D002	ridge and valley streams															Suit	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D003	ridge and valley streams																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D005	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D007	ridge and valley streams																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D008	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D009	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D010	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D011	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment															Suit	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D023	Cumberland mountain streams												Suit				
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D024	Cumberland mountain, plateau streams															Suit	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D025	Cumberland mountain, plateau streams															Suit	
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D027	transitional streams southern Cumberland plateau to Highland Rim																Marg
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D039	transitional streams, Blue Ridge to Ridge and Valley																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D040	transitional streams, Blue Ridge to Ridge and Valley																Pref
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D042	Blue Ridge foothill streams with limestone contribution																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D044	Blue Ridge streams																Suit
1	Vertebrate - Fish	AFCQC04020	Percina aurantiaca (Tangerine Darter)	D050	Blue Ridge streams																Suit
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley															Suit	Suit
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	C001	small ridge and valley rivers, origin in ridge and valley																Suit
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont																Pref
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	C009	small Highland Rim rivers, origin in the Cumberland Plateau												Suit				
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	C010	small Highland Rim rivers, origin in Highland Rim															Pref	
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	C012	small Blue Ridge rivers, origin in Blue Ridge																Pref
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D002	ridge and valley streams																Suit
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D003	ridge and valley streams																Pref
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D007	ridge and valley streams																Suit
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D008	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D011	ridge and valley streams																Marg
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D026	transitional streams Cumberland plateau to Highland Rim																Pref
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D030	Highland Rim streams															Suit	
1	Vertebrate - Fish	AFCQC04040	Percina burtoni (Blotchside Logperch)	D032	Highland Rim streams															Suit	Pref

AQUATIC HABITAT PREFERENCES																			
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification						Subregional Habitat Preference									
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR						
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR		
3	Invertebrate - Bivalve	IMBIV10020	Cyprogenia slegaria (Eastern Fanshell Pearlymussel)	D077	coastal plain streams									Marg					
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley											Suit	Suit	Marg	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Pref	Suit					
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Pref	Suit
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley													Suit	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	C001	small ridge and valley rivers, origin in ridge and valley													Pref	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Suit	Pref
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	C009	small Highland Rim rivers, origin in the Cumberland Plateau									Suit					
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	C010	small Highland Rim rivers, origin in Highland Rim							Suit							
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	C011	small Nashville Basin rivers, origin in Highland Rim											Pref			
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D002	ridge and valley streams													Suit	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D005	ridge and valley streams														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D007	ridge and valley streams													Suit	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D008	ridge and valley streams														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D009	ridge and valley streams														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D010	ridge and valley streams												Marg	Marg	Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment													Marg	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D020	ridge and valley streams, few headwaters in plateau sandstones													Suit	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D024	Cumberland mountain, plateau streams													Marg	
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D027	transitional streams southern Cumberland plateau to Highland Rim														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D031	Highland Rim streams														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D032	Highland Rim streams														Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D033	Highland Rim streams								Suit						Marg
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D037	Highland Rim streams								Marg						
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D040	transitional streams, Blue Ridge to Ridge and Valley														Pref
3	Invertebrate - Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	D077	coastal plain streams													Marg	
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley													Suit	Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley									Pref	Pref	Suit		Suit	Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Suit	Pref
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley														Pref
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	B005	medium Nashville Basin rivers, origin in the Highland Rim									Suit					
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	B007	medium Blue Ridge rivers, origin in the Blue Ridge														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C001	small ridge and valley rivers, origin in ridge and valley														Pref
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C005	small Cumberland Mountain/Coal Fields rivers, origin in the Cumberland Mountains													Pref	
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C009	small Highland Rim rivers, origin in the Cumberland Plateau														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C010	small Highland Rim rivers, origin in Highland Rim								Suit						
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C011	small Nashville Basin rivers, origin in Highland Rim									Suit			Pref	Pref	
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	C018	small Coastal Plain rivers, origin in Coastal Plain														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D002	ridge and valley streams														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D005	ridge and valley streams														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D007	ridge and valley streams														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D008	ridge and valley streams														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D024	Cumberland mountain, plateau streams														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D027	transitional streams southern Cumberland plateau to Highland Rim														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D030	Highland Rim streams								Marg	Marg					
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D032	Highland Rim streams								Marg	Marg	Suit				Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D033	Highland Rim streams								Marg	Marg	Suit				Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D034	Nashville Basin streams									Marg	Suit				Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D035	Nashville Basin streams									Marg					
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D036	Highland Rim streams								Marg						
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D037	Highland Rim streams									Marg					
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D038	outer Highland Rim streams									Suit					
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D040	transitional streams, Blue Ridge to Ridge and Valley														Suit
3	Invertebrate - Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	D077	coastal plain streams														Suit
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley													Suit	Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley									Pref		Pref			

AQUATIC HABITAT PREFERENCES																
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification						Subregional Habitat Preference						
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR			
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley										Suit	Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley											Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	B006	medium Nashville Basin rivers, origin in the Cumberland Mountains/Cumberland Plateau							Pref				
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C001	small ridge and valley rivers, origin in ridge and valley											Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont										Suit	Suit
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C005	small Cumberland Mountain/Coal Fields rivers, origin in the Cumberland Mountains							Pref				
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C009	small Highland Rim rivers, origin in the Cumberland Plateau							Suit				
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C010	small Highland Rim rivers, origin in Highland Rim								Pref			
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	C011	small Nashville Basin rivers, origin in Highland Rim								Pref	Pref		
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D002	ridge and valley streams											Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D005	ridge and valley streams											Suit
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D007	ridge and valley streams											Pref
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D008	ridge and valley streams										Suit	Suit
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D010	ridge and valley streams										Suit	Suit
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment										Suit	
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D024	Cumberland mountain, plateau streams							Suit				
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D030	Highland Rim streams						Suit					
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D032	Highland Rim streams						Suit		Pref	Suit		
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D033	Highland Rim streams							Suit				
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D034	Nashville Basin streams									Suit		
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D036	Highland Rim streams						Suit					
3	Invertebrate - Bivalve	IMBIV16040	Epioblasma capsaeformis (Oyster Mussel)	D040	transitional streams, Blue Ridge to Ridge and Valley											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley										Suit	Suit
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley						Pref	Pref				Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	B005	medium Nashville Basin rivers, origin in the Highland Rim							Pref				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C001	small ridge and valley rivers, origin in ridge and valley											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C005	small Cumberland Mountain/Coal Fields rivers, origin in the Cumberland Mountains								Pref			
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C009	small Highland Rim rivers, origin in the Cumberland Plateau							Suit				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C010	small Highland Rim rivers, origin in Highland Rim							Pref				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C011	small Nashville Basin rivers, origin in Highland Rim								Pref	Pref		
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	C012	small Blue Ridge rivers, origin in Blue Ridge											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D002	ridge and valley streams										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D007	ridge and valley streams										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D008	ridge and valley streams										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D010	ridge and valley streams										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D011	ridge and valley streams											Suit
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment										Suit	
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D024	Cumberland mountain, plateau streams								Suit			
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D029	Highland Rim streams, some headwaters in plateau sandstones							Suit				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D030	Highland Rim streams						Suit					
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D032	Highland Rim streams						Suit		Suit	Suit		
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D033	Highland Rim streams						Pref					
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D034	Nashville Basin streams									Pref		
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D036	Highland Rim streams						Suit	Suit				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D037	Highland Rim streams							Suit				
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D038	outer Highland Rim streams						Suit					
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D040	transitional streams, Blue Ridge to Ridge and Valley											Pref
3	Invertebrate - Bivalve	IMBIV16062	Epioblasma florentina walkeri (Tan Riffleshell)	D050	Blue Ridge streams											Pref
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Pref	Pref	Suit	
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	B006	medium Nashville Basin rivers, origin in the Cumberland Mountains/Cumberland Plateau								Pref			
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	C009	small Highland Rim rivers, origin in the Cumberland Plateau								Suit			
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	C010	small Highland Rim rivers, origin in Highland Rim							Suit				
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	D030	Highland Rim streams						Suit					
3	Invertebrate - Bivalve	IMBIV16111	Epioblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	D032	Highland Rim streams						Pref	Suit	Suit			

AQUATIC HABITAT PREFERENCES																				
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification							Subregional Habitat Preference									
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR							
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR			
3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	D032	Highland Rim streams					Suit		Suit								
3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	D033	Highland Rim streams							Suit			Suit					
3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	D037	Highland Rim streams							Pref								
3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	D072	transitional streams, coastal plain to Highland Rim										Suit					
3	Invertebrate - Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	D077	coastal plain streams										Pref					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley											Pref	Pref	Suit		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Suit		Pref					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Pref	Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley													Pref		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	C001	small ridge and valley rivers, origin in ridge and valley													Pref		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Pref	Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	C011	small Nashville Basin rivers, origin in Highland Rim										Pref	Suit				
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau										Suit					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	C018	small Coastal Plain rivers, origin in Coastal Plain										Suit					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D002	ridge and valley streams													Pref		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D004	ridge and valley streams														Pref	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D006	ridge and valley streams														Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D007	ridge and valley streams														Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D008	ridge and valley streams														Suit	Suit
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D010	ridge and valley streams												Suit	Suit	Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment													Suit		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D020	ridge and valley streams, few headwaters in plateau sandstones													Pref		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D024	Cumberland mountain, plateau streams													Suit		
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D027	transitional streams southern Cumberland plateau to Highland Rim														Suit	
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D032	Highland Rim streams										Suit					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D033	Highland Rim streams							Suit	Suit		Suit					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D034	Nashville Basin streams												Suit			
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D037	Highland Rim streams							Pref								
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D072	transitional streams, coastal plain to Highland Rim										Suit					
3	Invertebrate - Bivalve	IMBIV34020	Plethobasus cooperianus (Orange-foot Pimpleback)	D077	coastal plain streams										Pref					
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley													Suit	Pref	
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Pref	Pref		Pref				
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley														Suit	
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	C002	small Ridge and Valley River, origin in the Cumberland Plateau												Pref			
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	C009	small Highland Rim rivers, origin in the Cumberland Plateau								Suit							
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	C010	small Highland Rim rivers, origin in Highland Rim							Suit								
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau										Suit					
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D008	ridge and valley streams														Suit	
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D030	Highland Rim streams							Suit								
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D031	Highland Rim streams							Suit								
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D032	Highland Rim streams							Suit		Suit						
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D033	Highland Rim streams								Suit	Suit		Suit				
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D038	outer Highland Rim streams							Suit								
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D072	transitional streams, coastal plain to Highland Rim										Suit					
3	Invertebrate - Bivalve	IMBIV35060	Pleurobema clava (Clubshell)	D077	coastal plain streams										Pref					
3	Invertebrate - Bivalve	IMBIV35140	Pleurobema georgianum (Southern Pigtoe)	D005	ridge and valley streams						Suit									
3	Invertebrate - Bivalve	IMBIV35140	Pleurobema georgianum (Southern Pigtoe)	D040	transitional streams, Blue Ridge to Ridge and Valley						Pref									
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley												Pref	Pref	Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Suit	Suit		Pref				
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Pref	Pref	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley														Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C001	small ridge and valley rivers, origin in ridge and valley														Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont														Suit	Suit
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C009	small Highland Rim rivers, origin in the Cumberland Plateau									Pref						
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C010	small Highland Rim rivers, origin in Highland Rim							Suit								
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C011	small Nashville Basin rivers, origin in Highland Rim										Suit	Suit				
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau										Suit					

AQUATIC HABITAT PREFERENCES																		
Tier	Taxonomic Group	NS ELCODE	Species Name	TNC'S Freshwater Initiative Aquatic Habitat Classification					Subregional Habitat Preference									
				Sys. Class	Description	MSR: CP	BAR	COR	CUR				TNR					
									LCUR	NB	UCUR	CM	LTNR	NB	CP	RV	BR	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D007	ridge and valley streams												Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D008	ridge and valley streams													Suit
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D010	ridge and valley streams												Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment												Suit	
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D026	transitional streams Cumberland plateau to Highland Rim							Pref						
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D029	Highland Rim streams, some headwaters in plateau sandstones							Pref			Pref			
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D030	Highland Rim streams							Suit						
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D031	Highland Rim streams							Suit						
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D032	Highland Rim streams							Suit			Suit	Suit		
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D033	Highland Rim streams							Suit	Suit		Suit			
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D038	outer Highland Rim streams							Suit						
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D040	transitional streams, Blue Ridge to Ridge and Valley													Suit
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D072	transitional streams, coastal plain to Highland Rim										Suit			
3	Invertebrate - Bivalve	IMBIV35150	Pleurobema gibberum (Cumberland Pigtoe)	D077	coastal plain streams										Suit			
3	Invertebrate - Bivalve	IMBIV35230	Pleurobema perovatulum (Ovate Clubshell)	D005	ridge and valley streams													
3	Invertebrate - Bivalve	IMBIV35230	Pleurobema perovatulum (Ovate Clubshell)	D040	transitional streams, Blue Ridge to Ridge and Valley													
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley											Pref	Pref	Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref	Pref	Pref		Pref		
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley											Suit	Pref	Pref
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley												Pref	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C001	small ridge and valley rivers, origin in ridge and valley												Pref	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C002	small Ridge and Valley River, origin in the Cumberland Plateau											Suit		
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont												Suit	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C010	small Highland Rim rivers, origin in Highland Rim							Suit						
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C017	small Coastal Plain rivers, origin in the Highland Rim/Southern Cumberland Plateau										Suit			
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	C018	small Coastal Plain rivers, origin in Coastal Plain										Suit			
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D002	ridge and valley streams												Suit	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D004	ridge and valley streams													Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D006	ridge and valley streams													Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D008	ridge and valley streams													Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D009	ridge and valley streams												Suit	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D010	ridge and valley streams												Suit	Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D015	transitional streams, Cumberland plateau to ridge and valley, escarpment												Suit	Suit
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D020	ridge and valley streams, few headwaters in plateau sandstones												Suit	
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D030	Highland Rim streams							Suit						
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D031	Highland Rim streams							Suit						
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D032	Highland Rim streams							Suit	Suit	Suit				
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D033	Highland Rim streams							Suit	Suit	Suit		Suit		
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D035	Nashville Basin streams										Suit			
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D037	Highland Rim streams										Pref			
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D072	transitional streams, coastal plain to Highland Rim										Suit			
3	Invertebrate - Bivalve	IMBIV35240	Pleurobema plenum (Rough Pigtoe)	D077	coastal plain streams										Suit			
3	Invertebrate - Bivalve	IMBIV38020	Ptychobranthus greeni (Triangular Kidneyshell)	D005	ridge and valley streams													
3	Invertebrate - Bivalve	IMBIV38020	Ptychobranthus greeni (Triangular Kidneyshell)	D040	transitional streams, Blue Ridge to Ridge and Valley													
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	A001	large Ridge and Valley rivers, origin in Blue Ridge and Ridge and Valley												Suit	
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	B001	medium Ridge and Valley rivers, origin in the Blue Ridge/Ridge and Valley													Suit
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	B002	medium Ridge and Valley rivers, origin in the Ridge and Valley												Suit	
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	C001	small ridge and valley rivers, origin in ridge and valley												Pref	
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	C003	small Ridge and Valley rivers, origin in the Blue Ridge/Piedmont													Pref
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	D002	ridge and valley streams												Suit	
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	D007	ridge and valley streams												Suit	Suit
3	Invertebrate - Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	D008	ridge and valley streams													Suit
3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	A003	large Nashville Basin and Highland Rim rivers, origin in Blue Ridge and Ridge and Valley							Pref						
3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	C010	small Highland Rim rivers, origin in Highland Rim							Pref						
3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	C011	small Nashville Basin rivers, origin in Highland Rim										Pref	Pref		
3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	D032	Highland Rim streams							Suit			Suit	Suit		
3	Invertebrate - Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	D033	Highland Rim streams							Pref						

APPENDIX E. Stress Rankings and Problems Affecting GCN Species

Terrestrial Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	
1	Invertebrate- Gastropod	IMGAS36080	Haplotrema kendeighi (Blue-footed Lancetooth)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes	2.75
1	Invertebrate- Gastropod	IMGAS50210	Helicodiscus aldrichianus (Burrowing Coil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High				Yes		6.5
1	Invertebrate- Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS50050	Helicodiscus enneodon (Bluff Coil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes		4.75
1	Invertebrate- Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Gastropod	IMGAS50060	Helicodiscus fimbriatus (Fringed Coil)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes	2.75
1	Invertebrate- Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5
1	Invertebrate- Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes			3
1	Invertebrate- Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS50080	Helicodiscus hexodon (Toothy Coil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes			3
1	Invertebrate- Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		Yes	6
1	Invertebrate- Gastropod	IMGAS95110	Inflectarius downieanus (Dwarf Globelet)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High			Yes			3.25
1	Invertebrate- Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25
1	Invertebrate- Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High					Yes	3
1	Invertebrate- Gastropod	IMGAS95140	Inflectarius ferrissi (Smokey Mountain Covert)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes	2.75
1	Invertebrate- Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Agricultural Conversion	All Phys Env Reg	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes			6.5
1	Invertebrate- Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Commercial/Industrial Development	All Phys Env Reg	0- 25%	V.High	Current	None	V.High		Yes				4.75
1	Invertebrate- Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Forest Type Conversion	All Phys Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes			3
1	Invertebrate- Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Incompatible Grazing/Pasture Management Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Gastropod	IMGAS95180	Inflectarius kalmianus (Brown Globelet)	Primary Residential Development	All Phys Env Reg	0- 25%	V.High	Current	None	V.High		Yes	Yes			4.75
1	Invertebrate- Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes			3
1	Invertebrate- Gastropod	IMGAS95330	Inflectarius smithi (Alabama Shagreen)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS95340	Inflectarius subpalliatius (Velvet Covert)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5
1	Invertebrate- Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes			3
1	Invertebrate- Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGASQ0030	Megapallifera wetherbyi (Blotchy Mantleslug)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High					Yes	4.25
1	Invertebrate- Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High				Yes		3
1	Invertebrate- Gastropod	IMGAS95390	Mesodon altivagus (Wandering Globe)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low				Yes		2.75
1	Invertebrate- Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25
1	Invertebrate- Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Gastropod	IMGAS95010	Mesodon andrewsae (Balsam Globe)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes		4.75
1	Invertebrate- Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High			Yes			3.25
1	Invertebrate- Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes			3
1	Invertebrate- Gastropod	IMGAS95300	Mesodon sanus (Squat Globelet)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25
1	Invertebrate- Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High					Yes	3
1	Invertebrate- Gastropod	IMGAS75010	Mesomphix andrewsae (Mountain Button)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes	2.75
1	Invertebrate- Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25
1	Invertebrate- Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High			Yes			3.25
1	Invertebrate- Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Commercial/Industrial Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS75130	Mesomphix rugeli (Wrinkled Button)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS75140	Mesomphix subplanus (Flat Button)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25
1	Invertebrate- Gastropod	IMGAS75140	Mesomphix subplanus (Flat Button)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Gastropod	IMGAS75140	Mesomphix subplanus (Flat Button)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low				Yes		2.75
1	Invertebrate- Gastropod	IMGAS78010	Paravitrea alethia (Goddess Supercoll)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5
1	Invertebrate- Gastropod	IMGAS78010	Paravitrea alethia (Goddess Supercoll)	Commercial/Industrial Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS78010	Paravitrea alethia (Goddess Supercoll)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS78010	Paravitrea alethia (Goddess Supercoll)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS78030	Paravitrea andrewsae (High Mountain Supercoll)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Gastropod	IMGAS78050	Paravitrea bellona (Club Supercoll)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Gastropod	IMGAS78050	Paravitrea bellona (Club Supercoll)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes			4
1	Invertebrate- Gastropod	IMGAS78050	Paravitrea bellona (Club Supercoll)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS78070	Paravitrea blarina (Shrew Supercoll)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes	Yes		6.5
1	Invertebrate- Gastropod	IMGAS78070	Paravitrea blarina (Shrew Supercoll)	Commercial/Industrial Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes			4.75
1	Invertebrate- Gastropod	IMGAS78070	Paravitrea blarina (Shrew Supercoll)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS78070	Paravitrea blarina (Shrew Supercoll)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes		4.75
1	Invertebrate- Gastropod	IMGAS78080	Paravitrea calcicola (Pearl Supercoll)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values						Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate- Gastropod	IMGAS78080	Paravitrea calcicola (Pearl Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High				Yes			3
1	Invertebrate- Gastropod	IMGAS78080	Paravitrea calcicola (Pearl Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes			6
1	Invertebrate- Gastropod	IMGAS78080	Paravitrea calcicola (Pearl Supercoil)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High				Yes			4
1	Invertebrate- Gastropod	IMGAS78080	Paravitrea calcicola (Pearl Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes			4.75
1	Invertebrate- Gastropod	IMGAS78110	Paravitrea clappi (Mirey Ridge Supercoil)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High						Yes	4.25
1	Invertebrate- Gastropod	IMGAS78110	Paravitrea clappi (Mirey Ridge Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS78110	Paravitrea clappi (Mirey Ridge Supercoil)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS78170	Paravitrea lamellidens (Lamellate Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS78170	Paravitrea lamellidens (Lamellate Supercoil)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS78180	Paravitrea lapilla (Gem Supercoil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes					6.5
1	Invertebrate- Gastropod	IMGAS78180	Paravitrea lapilla (Gem Supercoil)	Commercial/Industrial Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes					4.75
1	Invertebrate- Gastropod	IMGAS78180	Paravitrea lapilla (Gem Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High		Yes					6
1	Invertebrate- Gastropod	IMGAS78180	Paravitrea lapilla (Gem Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes					4.75
1	Invertebrate- Gastropod	IMGAS78190	Paravitrea metallacta (Caney Fork Supercoil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes				6.5
1	Invertebrate- Gastropod	IMGAS78190	Paravitrea metallacta (Caney Fork Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS78190	Paravitrea metallacta (Caney Fork Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes				6
1	Invertebrate- Gastropod	IMGAS78190	Paravitrea metallacta (Caney Fork Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes	Yes				4.75
1	Invertebrate- Gastropod	IMGAS78220	Paravitrea petrophila (Cherokee Supercoil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes	Yes			6.5
1	Invertebrate- Gastropod	IMGAS78220	Paravitrea petrophila (Cherokee Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS78220	Paravitrea petrophila (Cherokee Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS78220	Paravitrea petrophila (Cherokee Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes	Yes		4.75
1	Invertebrate- Gastropod	IMGAS78390	Paravitrea placentula (Glossy Supercoil)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High				Yes			3.25
1	Invertebrate- Gastropod	IMGAS78390	Paravitrea placentula (Glossy Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS78390	Paravitrea placentula (Glossy Supercoil)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS78390	Paravitrea placentula (Glossy Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High					Yes		4.75
1	Invertebrate- Gastropod	IMGAS78250	Paravitrea reesei (Round Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS78250	Paravitrea reesei (Round Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High					Yes		4.75
1	Invertebrate- Gastropod	IMGAS78300	Paravitrea subtilis (Slender Supercoil)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High		Yes					3.25
1	Invertebrate- Gastropod	IMGAS78300	Paravitrea subtilis (Slender Supercoil)	Forest Type Conversion	All Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes				6
1	Invertebrate- Gastropod	IMGAS78300	Paravitrea subtilis (Slender Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes				6
1	Invertebrate- Gastropod	IMGAS78300	Paravitrea subtilis (Slender Supercoil)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Low	High			Yes	Yes			3.5
1	Invertebrate- Gastropod	IMGAS78300	Paravitrea subtilis (Slender Supercoil)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes	Yes				4.75
1	Invertebrate- Gastropod	IMGAS78310	Paravitrea tantilla (Teasing Supercoil)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes	Yes			6.5
1	Invertebrate- Gastropod	IMGAS78310	Paravitrea tantilla (Teasing Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High				Yes			3
1	Invertebrate- Gastropod	IMGAS78310	Paravitrea tantilla (Teasing Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS78310	Paravitrea tantilla (Teasing Supercoil)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Low	High			Yes	Yes			3.5
1	Invertebrate- Gastropod	IMGAS78310	Paravitrea tantilla (Teasing Supercoil)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes				9.5
1	Invertebrate- Gastropod	IMGAS78320	Paravitrea ternaria (Sculpted Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS78350	Paravitrea tridens (White-foot Supercoil)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High				Yes			3.25
1	Invertebrate- Gastropod	IMGAS78350	Paravitrea tridens (White-foot Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS78350	Paravitrea tridens (White-foot Supercoil)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High					Yes		9.5
1	Invertebrate- Gastropod	IMGAS78360	Paravitrea umbilicaris (Open Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS78360	Paravitrea umbilicaris (Open Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			Yes	6
1	Invertebrate- Gastropod	IMGAS78360	Paravitrea umbilicaris (Open Supercoil)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes				4
1	Invertebrate- Gastropod	IMGAS78360	Paravitrea umbilicaris (Open Supercoil)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS78370	Paravitrea variabilis (Variable Supercoil)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS78370	Paravitrea variabilis (Variable Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS78370	Paravitrea variabilis (Variable Supercoil)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes				4
1	Invertebrate- Gastropod	IMGAS78380	Paravitrea variidens (Roan Supercoil)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS95080	Patera clarki (Dwarf Proud Globe)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS95080	Patera clarki (Dwarf Proud Globe)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS64060	Phiomycus sellatus (Alabama Mantleslug)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS64060	Phiomycus sellatus (Alabama Mantleslug)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS64040	Phiomycus virginicus (Virginia Mantleslug)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High				Yes			6.5
1	Invertebrate- Gastropod	IMGAS64040	Phiomycus virginicus (Virginia Mantleslug)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes			6
1	Invertebrate- Gastropod	IMGAS64040	Phiomycus virginicus (Virginia Mantleslug)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes			4.75
1	Invertebrate- Gastropod	IMGAS79010	Pilsbryna aurea (Ornate Bud)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS79020	Pilsbryna castanea (Prominent Bud)	Forest Type Conversion	All Phys Hab Struc	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS79020	Pilsbryna castanea (Prominent Bud)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS79020	Pilsbryna castanea (Prominent Bud)	Incompatible Mining Practices	All Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High			Yes				8
1	Invertebrate- Gastropod	IMGAS98020	Stenotrema allispira (Highland Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGAS98010	Stenotrema angellum (Kentucky Siltmouth)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes				6.5

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score	
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV		SBR
1	Invertebrate- Gastropod	IMGAS98010	Stenotrema angellum (Kentucky Siltmouth)	Commercial/Industrial Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High							4.75
1	Invertebrate- Gastropod	IMGAS98010	Stenotrema angellum (Kentucky Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes			6
1	Invertebrate- Gastropod	IMGAS98010	Stenotrema angellum (Kentucky Siltmouth)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Low	High				Yes			3.5
1	Invertebrate- Gastropod	IMGAS98010	Stenotrema angellum (Kentucky Siltmouth)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes			4.75
1	Invertebrate- Gastropod	IMGAS98070	Stenotrema calvescens (Chattanooga Siltmouth)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High				Yes	Yes		6.5
1	Invertebrate- Gastropod	IMGAS98070	Stenotrema calvescens (Chattanooga Siltmouth)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes	Yes		9.5
1	Invertebrate- Gastropod	IMGAS98070	Stenotrema calvescens (Chattanooga Siltmouth)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High				Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS98070	Stenotrema calvescens (Chattanooga Siltmouth)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes	Yes		9.5
1	Invertebrate- Gastropod	IMGAS98080	Stenotrema cohuttense (Cohutta Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High						Yes	3
1	Invertebrate- Gastropod	IMGAS98080	Stenotrema cohuttense (Cohutta Siltmouth)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS98100	Stenotrema depilatum (Great Smoky Siltmouth)	Acid Rain	All Phys Hab Struc	0- 25%	V.High	Current	None	High						Yes	4.25
1	Invertebrate- Gastropod	IMGAS98100	Stenotrema depilatum (Great Smoky Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High						Yes	3
1	Invertebrate- Gastropod	IMGAS98100	Stenotrema depilatum (Great Smoky Siltmouth)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low						Yes	2.75
1	Invertebrate- Gastropod	IMGAS98110	Stenotrema edgarianum (Sequatchie Siltmouth)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS98110	Stenotrema edgarianum (Sequatchie Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS98110	Stenotrema edgarianum (Sequatchie Siltmouth)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes				4
1	Invertebrate- Gastropod	IMGAS98130	Stenotrema exodon (Alabama Siltmouth)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS98130	Stenotrema exodon (Alabama Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Invertebrate- Gastropod	IMGAS98130	Stenotrema exodon (Alabama Siltmouth)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes				4
1	Invertebrate- Gastropod	IMGAS98170	Stenotrema magnafumosum (Appalachian Siltmouth)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS98170	Stenotrema magnafumosum (Appalachian Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Invertebrate- Gastropod	IMGAS98200	Stenotrema pilula (Pygmy Siltmouth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Invertebrate- Gastropod	IMGAS98200	Stenotrema pilula (Pygmy Siltmouth)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes		2.75
1	Invertebrate- Gastropod	IMGAS98200	Stenotrema pilula (Pygmy Siltmouth)	Secondary Home/Resort Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High					Yes		4.75
1	Invertebrate- Gastropod	IMGAS98250	Stenotrema waldense (Doaks Creek Siltmouth)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High				Yes			3.25
1	Invertebrate- Gastropod	IMGAS98250	Stenotrema waldense (Doaks Creek Siltmouth)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	0- 25%	High	Current	Medium	High				Yes			3
1	Invertebrate- Gastropod	IMGAS98250	Stenotrema waldense (Doaks Creek Siltmouth)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes				4.75
1	Invertebrate- Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Invertebrate- Gastropod	IMGAS81010	Striatura exigua (Ribbed Striate)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes		2.75
1	Invertebrate- Gastropod	IMGAS68260	Succinea greerii (Dryland Ambersnail)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High					Yes		3.25
1	Invertebrate- Gastropod	IMGAS68260	Succinea greerii (Dryland Ambersnail)	Incompatible Forestry Practices	All Phys Env Reg	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS68260	Succinea greerii (Dryland Ambersnail)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGASA2060	Triodopsis anteridion (Carter Three-tooth or Buttress Three-tooth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Invertebrate- Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High				Yes			6.5
1	Invertebrate- Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes			6
1	Invertebrate- Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	0- 25%	High	Current	Medium	High				Yes			3
1	Invertebrate- Gastropod	IMGASA1070	Triodopsis claibornensis (Claiborne Three-tooth)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes			4.75
1	Invertebrate- Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High					Yes		3.25
1	Invertebrate- Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS82050	Ventridens coelaxis (Bidentate Dome)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes			9.5
1	Invertebrate- Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Invertebrate- Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes		2.75
1	Invertebrate- Gastropod	IMGAS82070	Ventridens decussatus (Crossed Dome)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High					Yes		4.75
1	Invertebrate- Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High			Yes				3.25
1	Invertebrate- Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes			6
1	Invertebrate- Gastropod	IMGAS82090	Ventridens eutropis (Carinate Dome)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes			4.75
1	Invertebrate- Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Agricultural Conversion	All Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High				Yes			3.25
1	Invertebrate- Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Forest Type Conversion	All Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes				3
1	Invertebrate- Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	Medium	Current	Medium	High			Yes	Yes	Yes		5.5
1	Invertebrate- Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Incompatible Mining Practices	All Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High			Yes				4
1	Invertebrate- Gastropod	IMGAS82120	Ventridens lasmodon (Hollow Dome)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes	Yes		9.5
1	Invertebrate- Gastropod	IMGAS82160	Ventridens percallousus (Tennessee Dome)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes		Yes		6.5
1	Invertebrate- Gastropod	IMGAS82160	Ventridens percallousus (Tennessee Dome)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes			6
1	Invertebrate- Gastropod	IMGAS82160	Ventridens percallousus (Tennessee Dome)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes	Yes			9.5
1	Invertebrate- Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes	Yes			6.5
1	Invertebrate- Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Invertebrate- Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Invasive Exotic Species	All Bio Complnt	0- 25%	High	Current	Low	Low					Yes		2.75
1	Invertebrate- Gastropod	IMGAS20100	Vertigo clappi (Cupped Vertigo)	Primary Residential Development	All Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes			4.75
1	Invertebrate- Gastropod	IMGAS20270	Vertigo parvula (Smallmouth Vertigo)	Incompatible Forestry Practices	All Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Invertebrate- Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes				6.5
1	Invertebrate- Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High			Yes				7
1	Invertebrate- Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High			Yes				6

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values						Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
1	Invertebrate- Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High							6
1	Invertebrate- Gastropod	IMGAS20360	Vertigo teskeyae (Swamp Vertigo)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes				4.75
1	Invertebrate- Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitelip)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes						6.5
1	Invertebrate- Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitelip)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High	Yes						7
1	Invertebrate- Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitelip)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes						6
1	Invertebrate- Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitelip)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes						6
1	Invertebrate- Gastropod	IMGASA1250	Webbhelix multilineata (Striped Whitelip)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes						4.75
1	Invertebrate- Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	V.High			Yes	Yes			7.5
1	Invertebrate- Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes	Yes			3
1	Invertebrate- Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes			6
1	Invertebrate- Gastropod	IMGASA1280	Xolotrema obstrictum (Sharp Wedge)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes			4.75
1	Invertebrate- Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High					Yes		3
1	Invertebrate- Gastropod	IMGAS85040	Zonitoides lateumbilicatus (Striate Gloss)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Commercial/Industrial Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes					4.75
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes					6.5
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes					6.5
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes					6.5
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes					6
1	Vertebrate- Amphibian	AAABC01020	Acris gryllus (Southern Cricket Frog)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes					4.75
1	Vertebrate- Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes				9.5
1	Vertebrate- Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Construction of Roads/Railroads/Utilities	Alt Phys Env Reg	26- 50%	High	Current	Low	V.High			Yes				7.5
1	Vertebrate- Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Vertebrate- Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Vertebrate- Amphibian	AAAAA01170	Ambystoma barbouri (Streamside Salamander)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes				9.5
1	Vertebrate- Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Vertebrate- Amphibian	AAAAD01010	Aneides aeneus (Green Salamander)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High					Yes		4.5
1	Vertebrate- Amphibian	AAAAD03010	Desmognathus aeneus (Seepage Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Vertebrate- Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Acid Rain	Alt Chem Env Reg	26- 50%	High	Current	Low	High						Yes	6.5
1	Vertebrate- Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Acid Rain	Alt Phys Hab Struc	26- 50%	V.High	Current	None	High						Yes	8.5
1	Vertebrate- Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Vertebrate- Amphibian	AAAAD03100	Desmognathus wrighti (Pigmy Salamander)	Parasites/Pathogens	Alt Bio Complnt	26- 50%	High	Current	Low	Medium						Yes	6
1	Vertebrate- Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes	Yes	Yes	Yes	9.5
1	Vertebrate- Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High			Yes	Yes	Yes		7
1	Vertebrate- Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Vertebrate- Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Vertebrate- Amphibian	AAAAD08010	Hemidactylum scutatum (Four-toed Salamander)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes	Yes	Yes	Yes	9.5
1	Vertebrate- Amphibian	AAABC02100	Hyla gratiola (Barking Treefrog)	Commercial/Industrial Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes			4.75
1	Vertebrate- Amphibian	AAABC02100	Hyla gratiola (Barking Treefrog)	Forest Type Conversion	Alt Phys Hab Struc	26- 50%	V.High	Current	Low	High			Yes	Yes	Yes		7.5
1	Vertebrate- Amphibian	AAABC02100	Hyla gratiola (Barking Treefrog)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes		6
1	Vertebrate- Amphibian	AAABC02100	Hyla gratiola (Barking Treefrog)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes				6.5
1	Vertebrate- Amphibian	AAABC02100	Hyla gratiola (Barking Treefrog)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes			4.75
1	Vertebrate- Amphibian	AAABC02130	Hyla versicolor (Gray Treefrog)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes					7
1	Vertebrate- Amphibian	AAABC02130	Hyla versicolor (Gray Treefrog)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes					6.5
1	Vertebrate- Amphibian	AAABC02130	Hyla versicolor (Gray Treefrog)	Incompatible Species Management Practices	Alt Bio Complnt	76- 100%	Low	Current	High	High	Yes	Yes					9
1	Vertebrate- Amphibian	AAAAD12250	Plethodon aureolus (Tellico Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Vertebrate- Amphibian	AAAAD12090	Plethodon jordani (Red-cheeked Salamander)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Medium	Low						Yes	3
1	Vertebrate- Amphibian	AAAAD12090	Plethodon jordani (Red-cheeked Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High						Yes	9
1	Vertebrate- Amphibian	AAAAD12150	Plethodon richmondi (Ravine Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Vertebrate- Amphibian	AAAAD12150	Plethodon richmondi (Ravine Salamander)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High			Yes				4.5
1	Vertebrate- Amphibian	AAAAD12220	Plethodon wehrlei (Wehrle's Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes				6
1	Vertebrate- Amphibian	AAAAD12220	Plethodon wehrlei (Wehrle's Salamander)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High			Yes				4.5
1	Vertebrate- Amphibian	AAAAD12230	Plethodon welleri (Weller's Salamander)	Acid Rain	Alt Chem Env Reg	51- 75%	High	Current	None	High						Yes	11.25
1	Vertebrate- Amphibian	AAAAD12230	Plethodon welleri (Weller's Salamander)	Acid Rain	Alt Phys Hab Struc	51- 75%	V.High	Current	None	High						Yes	12.75
1	Vertebrate- Amphibian	AAAAD12230	Plethodon welleri (Weller's Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High						Yes	9
1	Vertebrate- Amphibian	AAAAD12240	Plethodon yonahlossee (Yonahlossee Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High						Yes	6
1	Vertebrate- Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	V.High	Current	Low	High					Yes		3.75
1	Vertebrate- Amphibian	AAABC05010	Pseudacris brachyphona (Mountain Chorus Frog)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes		6
1	Vertebrate- Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Commercial/Industrial Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes	Yes	Yes	4.75
1	Vertebrate- Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	V.High	Current	Low	High					Yes		3.75
1	Vertebrate- Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes	Yes	Yes	6
1	Vertebrate- Amphibian	AAAAD13010	Pseudotriton montanus (Mud Salamander)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High			Yes	Yes	Yes	Yes	4.75
1	Vertebrate- Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Agricultural Conversion	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	V.High	Yes	Yes					13.5

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values						Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate- Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes				7	
1	Vertebrate- Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Incompatible Row Crop Agricultural Practices	All Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes				6.5	
1	Vertebrate- Amphibian	AAABH01010	Rana areolata (Crawfish Frog)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	V.High	Current	Low	High	Yes	Yes				7.5	
1	Vertebrate- Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Agricultural Conversion	All Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Medium	High	Yes	Yes	Yes	Yes	Yes	11.25	
1	Vertebrate- Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Incompatible Forestry Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	6	
1	Vertebrate- Bird	ABNKC12020	Accipiter striatus (Sharp-shinned Hawk)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Acid Rain	All Phys Hab Struc	26- 50%	V.High	Current	None	High					Yes	8.5	
1	Vertebrate- Bird	ABNSB15020	Aegolius acadicus (Northern Saw-whet Owl)	Incompatible Forestry Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High				Yes	Yes	6	
1	Vertebrate- Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Fire Suppression	All Phys Hab Struc	26- 50%	High	Current	Medium	Medium		Yes	Yes	Yes	Yes	5.5	
1	Vertebrate- Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	51- 75%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	9	
1	Vertebrate- Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	6	
1	Vertebrate- Bird	ABPBX91050	Aimophila aestivalis (Bachman's Sparrow)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes			9.5	
1	Vertebrate- Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Fire Suppression	All Phys Hab Struc	26- 50%	High	Current	Medium	Medium		Yes	Yes			5.5	
1	Vertebrate- Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes			6	
1	Vertebrate- Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes				6	
1	Vertebrate- Bird	ABPBXA0030	Ammodramus henslowii (Henslow's Sparrow)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes			9.5	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes	Yes	Yes	Yes	6.5	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Fire Suppression	All Phys Hab Struc	26- 50%	High	Current	Medium	Medium	Yes	Yes	Yes	Yes	Yes	5.5	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	6	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	6	
1	Vertebrate- Bird	ABPBXA0020	Ammodramus savannarum (Grasshopper Sparrow)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Incompatible Row Crop Agricultural Practices	All Chem Env Reg	51- 75%	High	Current	Low	High	Yes					9.75	
1	Vertebrate- Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Incompatible Row Crop Agricultural Practices	All Phys Env Reg	51- 75%	Medium	Within 5- 10 Years	Low	Medium	Yes					6	
1	Vertebrate- Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Industrial Discharge	All Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes					9	
1	Vertebrate- Bird	ABNFE01010	Anhinga anhinga (Anhinga)	Recreational Use of Habitats (non-vehicular)	All Bio Complnt	0- 25%	Medium	Current	High	Medium	Yes					2.25	
1	Vertebrate- Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes		9.5	
1	Vertebrate- Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High				Yes		6	
1	Vertebrate- Bird	ABNKC22010	Aquila chrysaetos (Golden Eagle)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High				Yes		9.5	
1	Vertebrate- Bird	ABNGA04040	Ardea alba (Great Egret)	Agricultural Conversion	All Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Medium	High	Yes					7.5	
1	Vertebrate- Bird	ABNGA04040	Ardea alba (Great Egret)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High	Yes					8	
1	Vertebrate- Bird	ABNGA04040	Ardea alba (Great Egret)	Incompatible Row Crop Agricultural Practices	All Chem Env Reg	26- 50%	High	Current	Medium	High	Yes					6	
1	Vertebrate- Bird	ABNGA04040	Ardea alba (Great Egret)	Industrial Discharge	All Chem Env Reg	26- 50%	High	Current	Low	High	Yes					6.5	
1	Vertebrate- Bird	ABNGA04040	Ardea alba (Great Egret)	Municipal Wastewater Treatment/Stormwater Runoff	All Chem Env Reg	26- 50%	High	Current	Low	High	Yes					6.5	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Agricultural Conversion	All Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes				6.5	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes				9.5	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Fire Suppression	All Phys Hab Struc	26- 50%	High	Current	Medium	Medium		Yes				5.5	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes				6	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Incompatible Row Crop Agricultural Practices	All Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes				6	
1	Vertebrate- Bird	ABNSB13040	Asio flammeus (Short-eared Owl)	Primary Residential Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes				9.5	
1	Vertebrate- Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes					12	
1	Vertebrate- Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Incompatible Species Management Practices	All Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes					7.5	
1	Vertebrate- Bird	ABNNF06010	Bartramia longicauda (Upland Sandpiper)	Operation of Drainage/Diversion Systems	All Phys Env Reg	51- 75%	High	Current	Low	High	Yes					9.75	
1	Vertebrate- Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Agricultural Conversion	All Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High	Yes	Yes	Yes			8	
1	Vertebrate- Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High	Yes	Yes	Yes			8	
1	Vertebrate- Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Incompatible Row Crop Agricultural Practices	All Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes			6.5	
1	Vertebrate- Bird	ABNGA01020	Botaurus lentiginosus (American Bittern)	Municipal Wastewater Treatment/Stormwater Runoff	All Chem Env Reg	0- 25%	High	Current	Low	Medium	Yes	Yes	Yes			3	
1	Vertebrate- Bird	ABNNF11020	Calidris canutus (Red Knot)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes					10.5	
1	Vertebrate- Bird	ABNNF11020	Calidris canutus (Red Knot)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes					12	
1	Vertebrate- Bird	ABNNF11020	Calidris canutus (Red Knot)	Incompatible Species Management Practices	All Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes					7.5	
1	Vertebrate- Bird	ABNNF11190	Calidris himantopus (Sillit Sandpiper)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes					12	
1	Vertebrate- Bird	ABNNF11190	Calidris himantopus (Sillit Sandpiper)	Incompatible Species Management Practices	All Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes					7.5	
1	Vertebrate- Bird	ABNNF11190	Calidris himantopus (Sillit Sandpiper)	Operation of Drainage/Diversion Systems	All Phys Env Reg	51- 75%	High	Current	Low	High	Yes					9.75	
1	Vertebrate- Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Construction of Ditches/Dikes/Drainage/Diversion Systems	All Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes					12	
1	Vertebrate- Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Incompatible Species Management Practices	All Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes					7.5	
1	Vertebrate- Bird	ABNNF11050	Calidris mauri (Western Sandpiper)	Operation of Drainage/Diversion Systems	All Phys Env Reg	51- 75%	High	Current	Low	High	Yes					9.75	
1	Vertebrate- Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Commercial/Industrial Development	All Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Incompatible Grazing/Pasture Management Practices	All Phys Hab Struc	51- 75%	High	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	9	
1	Vertebrate- Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Incompatible Row Crop Agricultural Practices	All Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes	Yes	Yes	6.5	

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values						Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate- Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	6		
1	Vertebrate- Bird	ABNTA07010	Caprimulgus carolinensis (Chuck-will's-widow)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High	Yes	Yes	Yes	Yes	3		
1	Vertebrate- Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes	Yes	6.5		
1	Vertebrate- Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Low	High	Yes	Yes	Yes	Yes	6.5		
1	Vertebrate- Bird	ABNTA07070	Caprimulgus vociferus (Whip-poor-will)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABPBA01010	Certhia americana (Brown Creeper)	Acid Rain	Alt Phys Hab Struc	51- 75%	V.High	Current	None	High				Yes	12.75		
1	Vertebrate- Bird	ABNNB03040	Charadrius wilsonia (Wilson's Plover)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes				12		
1	Vertebrate- Bird	ABNNB03040	Charadrius wilsonia (Wilson's Plover)	Incompatible Species Management Practices	Alt Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes				7.5		
1	Vertebrate- Bird	ABNNB03040	Charadrius wilsonia (Wilson's Plover)	Operation of Drainage/Diversion Systems	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes				9.75		
1	Vertebrate- Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High	Yes	Yes	Yes		14.25		
1	Vertebrate- Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Excessive Competition/Predation by Native Species	Alt Bio Complnt	0- 25%	Medium	Current	Low	Medium	Yes	Yes	Yes		2.75		
1	Vertebrate- Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Fire Suppression	Alt Phys Hab Struc	26- 50%	High	Current	Medium	Medium	Yes	Yes	Yes		5.5		
1	Vertebrate- Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes		6		
1	Vertebrate- Bird	ABPBX96010	Chondestes grammacus (Lark Sparrow)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High	Yes	Yes	Yes		14.25		
1	Vertebrate- Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes		6.5		
1	Vertebrate- Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High		Yes	Yes		8		
1	Vertebrate- Bird	ABNKC11010	Circus cyaneus (Northern Harrier)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes	Yes		6.5		
1	Vertebrate- Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High		Yes	Yes		8		
1	Vertebrate- Bird	ABPBG10010	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes	Yes	Yes	6.5		
1	Vertebrate- Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High		Yes	Yes		3		
1	Vertebrate- Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	6		
1	Vertebrate- Bird	ABNRB02020	Coccyzus americanus (Yellow-billed Cuckoo)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABPAE32010	Contopus cooperi (Olive-sided Flycatcher)	Acid Rain	Alt Phys Hab Struc	51- 75%	V.High	Current	None	High				Yes	12.75		
1	Vertebrate- Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Medium	High		Yes	Yes		7.5		
1	Vertebrate- Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Forest Type Conversion	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes		6		
1	Vertebrate- Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes		6		
1	Vertebrate- Bird	ABPAE32060	Contopus virens (Eastern Wood-pewee)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes		9.5		
1	Vertebrate- Bird	ABPAV10110	Corvus corax (Common Raven)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High			Yes	Yes	14.25		
1	Vertebrate- Bird	ABPAV10110	Corvus corax (Common Raven)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High		Yes	Yes	Yes	14.25		
1	Vertebrate- Bird	ABPAV10110	Corvus corax (Common Raven)	Recreational Use of Habitats (non-vehicular)	Alt Bio Complnt	0- 25%	Medium	Current	High	Low				Yes	2		
1	Vertebrate- Bird	ABPAV10110	Corvus corax (Common Raven)	Secondary Home/Resort Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High			Yes	Yes	14.25		
1	Vertebrate- Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Construction of Roads/Railroads/Utilities	Alt Phys Hab Struc	26- 50%	High	Current	None	V.High		Yes	Yes		8.5		
1	Vertebrate- Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes		6		
1	Vertebrate- Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High		Yes	Yes		4		
1	Vertebrate- Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	High	Current	None	V.High			Yes	Yes	8.5		
1	Vertebrate- Bird	ABPBX03050	Dendroica caerulescens (Black-throated Blue Warbler)	Secondary Home/Resort Development	Alt Phys Hab Struc	0- 25%	High	Current	None	V.High				Yes	4.25		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes	Yes	Yes	6.5		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	High	Current	None	V.High	Yes	Yes	Yes	Yes	8.5		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Construction of Roads/Railroads/Utilities	Alt Phys Hab Struc	26- 50%	High	Current	None	V.High	Yes	Yes	Yes	Yes	8.5		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High		Yes	Yes		3		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes	Yes	Yes	6		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	High	Historic- Continuing	Low	High			Yes		3.5		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	High	Current	None	V.High	Yes	Yes	Yes	Yes	8.5		
1	Vertebrate- Bird	ABPBX03240	Dendroica cerulea (Cerulean Warbler)	Secondary Home/Resort Development	Alt Phys Hab Struc	0- 25%	High	Current	None	V.High				Yes	4.25		
1	Vertebrate- Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes	Yes	6.5		
1	Vertebrate- Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Fire Suppression	Alt Phys Hab Struc	0- 25%	High	Current	Medium	Medium	Yes	Yes	Yes	Yes	2.75		
1	Vertebrate- Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	6		
1	Vertebrate- Bird	ABPBX03190	Dendroica discolor (Prairie Warbler)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes	Yes	9.5		
1	Vertebrate- Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Medium	High			Yes	Yes	6.5		
1	Vertebrate- Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Excessive Competition/Predation by Native Species	Alt Bio Complnt	0- 25%	Medium	Current	Low	Low			Yes	Yes	2.5		
1	Vertebrate- Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes		3		
1	Vertebrate- Bird	ABPBX03130	Dendroica dominica (Yellow-throated Warbler)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High			Yes	Yes	6		
1	Vertebrate- Bird	ABPBX03100	Dendroica virens (Black-throated Green Warbler)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Medium	High			Yes		7.5		

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values						Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
1	Vertebrate- Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	Medium	Current	Medium	High		Yes	Yes	Yes	Yes	2.75	
1	Vertebrate- Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Medium	Low		Yes	Yes	Yes	Yes	3	
1	Vertebrate- Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
1	Vertebrate- Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
1	Vertebrate- Reptile	ARADB26012	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High		Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Commercial/Industrial Development	Alt Conn	26- 50%	High	Current	None	V.High		Yes	Yes			8.5	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Construction of Roads/Railroads/Utilities	Alt Conn	26- 50%	High	Current	None	V.High		Yes	Yes			8.5	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Forest Type Conversion	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes			6	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Medium	Low		Yes	Yes			3	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes			6	
1	Vertebrate- Reptile	ARADE03023	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	Primary Residential Development	Alt Conn	26- 50%	High	Current	None	V.High		Yes	Yes			8.5	
1	Vertebrate- Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Construction of Roads/Railroads/Utilities	Alt Conn	26- 50%	High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	8.5	
1	Vertebrate- Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Low	Low	Yes	Yes	Yes	Yes	Yes	3.25	
1	Vertebrate- Reptile	ARAAD08010	Terrapene carolina (Eastern Box Turtle)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes				9	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes				9.5	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Medium	Low	Yes	Yes				3	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes				6	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes				6	
1	Vertebrate- Reptile	ARADB39010	Virginia striatula (Rough Earth Snake)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes				9.5	
2	Invertebrate- Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes				6.5	
2	Invertebrate- Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes				6	
2	Invertebrate- Insect	IILEP80050	Amblyscirtes linda (Linda's Roadside Skipper)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes				6	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes	Yes	Yes	6.5	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Commercial/Industrial Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes		Yes		4.75	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Fire Suppression	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium		Yes	Yes	Yes	Yes	5.5	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IILEPE2220	Callophrys irus (Frosted Eflin)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes		Yes		4.75	
2	Invertebrate- Insect	IICOL02070	Cicindela ancicisconensis (a tiger beetle)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes		Yes		6.5	
2	Invertebrate- Insect	IICOL02070	Cicindela ancicisconensis (a tiger beetle)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes				6	
2	Invertebrate- Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Acid Rain	Alt Chem Env Reg	26- 50%	High	Current	None	V.High					Yes	8.5	
2	Invertebrate- Insect	IILEUOD200	Semiothisa fraserata (Fraser Fir Geometrid Moth)	Acid Rain	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High					Yes	9.5	
2	Invertebrate- Insect	IILEPJ6010	Speyeria diana (Diana Frillillary)	Forest Type Conversion	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes			6	
2	Invertebrate- Insect	IILEPJ6010	Speyeria diana (Diana Frillillary)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IILEPJ6010	Speyeria diana (Diana Frillillary)	Incompatible Mining Practices	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7	
2	Invertebrate- Tardigrade	IRPRT02010	Calohypsibius schusteri (Schuster's Tardigrade)	Acid Rain	Alt Chem Env Reg	0- 25%	V.High	Current	None	High				Yes		4.25	
2	Invertebrate- Tardigrade	IRPRT02010	Calohypsibius schusteri (Schuster's Tardigrade)	Acid Rain	Alt Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25	
2	Invertebrate- Tardigrade	IRPRT03010	Hypsibius roanensis (Roan Tardigrade)	Acid Rain	Alt Chem Env Reg	0- 25%	V.High	Current	None	High				Yes		4.25	
2	Invertebrate- Tardigrade	IRPRT03010	Hypsibius roanensis (Roan Tardigrade)	Acid Rain	Alt Phys Hab Struc	0- 25%	V.High	Current	None	High				Yes		4.25	
3	Invertebrate- Arachnid	ILARA33010	Microhexura montivaga (Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula)	Acid Rain	Alt Chem Env Reg	26- 50%	High	Current	None	High					Yes	7.5	
3	Invertebrate- Arachnid	ILARA33010	Microhexura montivaga (Spruce-Fir Moss Spider or North Carolina Funnelweb Tarantula)	Acid Rain	Alt Phys Hab Struc	51- 75%	V.High	Current	None	High					Yes	12.75	
3	Invertebrate- Gastropod	IMGAS53080	Anguispira picta (Painted Tigershell or Painted Disc)	Agricultural Conversion	Alt Phys Hab Struc	0- 25%	High	Historic- Continuing	Medium	High		Yes				3.25	
3	Invertebrate- Gastropod	IMGAS53080	Anguispira picta (Painted Tigershell or Painted Disc)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6	
3	Invertebrate- Gastropod	IMGAS53080	Anguispira picta (Painted Tigershell or Painted Disc)	Incompatible Mining Practices	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	Low	High				Yes		4	
3	Invertebrate- Gastropod	IMGAS53080	Anguispira picta (Painted Tigershell or Painted Disc)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High				Yes		4.75	
3	Invertebrate- Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes				6.5	
3	Invertebrate- Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Incompatible Grazing/Pasture Management Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes				6	
3	Invertebrate- Insect	IICOL42010	Nicrophorus americanus (American Burying Beetle)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes	Yes				6	
3	Vertebrate- Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes	Yes				12	
3	Vertebrate- Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Incompatible Species Management Practices	Alt Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes	Yes				7.5	
3	Vertebrate- Bird	ABNNB03030	Charadrius alexandrinus (Snowy Plover)	Operation of Drainage/Diversion Systems	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes	Yes				9.75	
3	Vertebrate- Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	V.High	Yes	Yes				15	
3	Vertebrate- Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Incompatible Species Management Practices	Alt Bio Complnt	51- 75%	Medium	Current	Medium	Medium	Yes	Yes				7.5	
3	Vertebrate- Bird	ABNNB03070	Charadrius melodus melodus (Piping Plover)	Operation of Drainage/Diversion Systems	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes	Yes				9.75	
3	Vertebrate- Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High		Yes	Yes	Yes	Yes	6.5	
3	Vertebrate- Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes	Yes	Yes	7	
3	Vertebrate- Bird	ABNKD06070	Falco peregrinus (Peregrine Falcon)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes	Yes	Yes	Yes	10.5	
3	Vertebrate- Bird	ABNMK01030	Grus americana (Whooping Crane)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	0- 25%	Medium	Current	Medium	High				Yes		2.75	
3	Vertebrate- Bird	ABNMK01030	Grus americana (Whooping Crane)	Operation of Drainage/Diversion Systems	Alt Phys Env Reg	0- 25%	Medium	Current	Medium	High				Yes		2.75	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High	Yes	Yes	Yes	Yes	Yes	13	

Terrestrial Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability						Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MAP	UGCP	ILP	CPM	RV	SBR	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes	Yes	Yes	Yes	9.75	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes	Yes	Yes	Yes	9.75	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	4.75	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Recreational Use of Habitats (non-vehicular)	Alt Bio Compl/Int	0- 25%	Medium	Current	Medium	Low	Yes	Yes	Yes	Yes	Yes	2.25	
3	Vertebrate- Bird	ABNKC10010	Haliaeetus leucocephalus (Bald Eagle)	Secondary Home/Resort Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	4.75	
3	Vertebrate- Bird	ABNMF19020	Scolopax minor (American Woodcock)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Medium	High	Yes	Yes	Yes	Yes	Yes	7.5	
3	Vertebrate- Bird	ABNMF19020	Scolopax minor (American Woodcock)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
3	Vertebrate- Bird	ABNMF19020	Scolopax minor (American Woodcock)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High	Yes	Yes	Yes	Yes	Yes	8	
3	Vertebrate- Bird	ABNMF19020	Scolopax minor (American Woodcock)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High	Yes	Yes	Yes	Yes	Yes	9.5	
3	Vertebrate- Bird	ABNNM08102	Sterna antillarum athalassos (Interior Least Tern)	Operation of Drainage/Diversion Systems	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes					9.75	
3	Vertebrate- Bird	ABNNM08102	Sterna antillarum athalassos (Interior Least Tern)	Recreational Vehicles	Alt Bio Compl/Int	0- 25%	V.High	Current	Medium	Low	Yes					3	
3	Vertebrate- Mammal	AMAFB09022	Glaucomys sabrinus coloratus (Carolina Northern Flying Squirrel)	Acid Rain	Alt Phys Hab Struc	26- 50%	V.High	Current	None	High					Yes	8.5	
3	Vertebrate- Mammal	AMAFB09022	Glaucomys sabrinus coloratus (Carolina Northern Flying Squirrel)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High					Yes	6	
3	Vertebrate- Mammal	AMACC01040	Myotis grisescens (Gray Bat)	Incompatible Forestry Practices	Alt Phys Hab Struc	0- 25%	Medium	Current	Medium	High	Yes	Yes	Yes	Yes	Yes	2.75	
3	Vertebrate- Mammal	AMACC01040	Myotis grisescens (Gray Bat)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes	Yes	Yes	6.5	
3	Vertebrate- Mammal	AMACC01100	Myotis sodalis (Indiana Bat)	Forest Type Conversion	Alt Phys Hab Struc	0- 25%	High	Current	Medium	High			Yes	Yes		3	
3	Vertebrate- Mammal	AMACC01100	Myotis sodalis (Indiana Bat)	Incompatible Forestry Practices	Alt Phys Hab Struc	51- 75%	High	Current	Medium	High					Yes	9	
3	Vertebrate- Mammal	AMACC01100	Myotis sodalis (Indiana Bat)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	High	Current	Low	High	Yes	Yes	Yes	Yes	Yes	3.25	
3	Vertebrate- Mammal	AMAEB01050	Sylvilagus transitionalis (Appalachian Cottontail (= New England Cottontail))	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes	6	
3	Vertebrate- Mammal	AMAEB01050	Sylvilagus transitionalis (Appalachian Cottontail (= New England Cottontail))	Incompatible Species Management Practices	Alt Bio Compl/Int	0- 25%	V.High	Current	None	Low					Yes	3.75	
3	Vertebrate- Mammal	AMAFB08010	Tamiasciurus hudsonicus (Red Squirrel)	Acid Rain	Alt Phys Hab Struc	0- 25%	V.High	Current	None	High					Yes	4.25	
3	Vertebrate- Mammal	AMAFB08010	Tamiasciurus hudsonicus (Red Squirrel)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High					Yes	6	
3	Vertebrate- Reptile	ARADB22023	Nerodia erythrogaster neglecta (Copperbelly Water Snake)	Agricultural Conversion	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5	
3	Vertebrate- Reptile	ARADB22023	Nerodia erythrogaster neglecta (Copperbelly Water Snake)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High			Yes			7	
3	Vertebrate- Reptile	ARADB22023	Nerodia erythrogaster neglecta (Copperbelly Water Snake)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Compl/Int	0- 25%	V.High	Current	Medium	Low			Yes			3	
3	Vertebrate- Reptile	ARADB22023	Nerodia erythrogaster neglecta (Copperbelly Water Snake)	Incompatible Row Crop Agricultural Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High			Yes			6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	Medium		Yes	Yes		8.5	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	0- 25%	Medium	Current	Medium	Medium		Yes	Yes		2.5	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes		3	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	High			Yes		3.5	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Mining Practices	Alt Phys Env Reg	0- 25%	High	Historic- Continuing	Low	High			Yes		3.5	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Industrial Discharge	Alt Chem Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium		Yes	Yes		5.5	
1	Invertebrate- Bivalve	IMBIV02040	Alasmidonta marginata (Elktoe)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	High	Current	Low	High			Yes		3.25	
1	Invertebrate- Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV02110	Alasmidonta viridis (Slippershell Mussel)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	High	Current	Low	High			Yes		3.25	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	Medium		Yes	Yes		8.5	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Industrial Discharge	Alt Chem Env Reg	0- 25%	High	Current	Low	High			Yes		3.25	
1	Invertebrate- Bivalve	IMBIV08010	Cumberlandia monodonta (Spectaclecase)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High				Yes	6.5	
1	Invertebrate- Bivalve	IMBIV14030	Elliptio arca (Alabama Spike)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
1	Invertebrate- Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High			Yes		6.5	
1	Invertebrate- Bivalve	IMBIV14040	Elliptio arctata (Delicate Spike)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV16190	Epioblasma triquetra (Snuffbox)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Forest Type Conversion	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes			3	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV17020	Fusconaia barnesiana (Tennessee Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes			9
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low		Yes	Yes			2.5
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV17120	Fusconaia subrotunda (Longsolid)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV21211	Lampsilis straminea clabornensis (Southern Fatmucket)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High				Yes		12
1	Invertebrate- Bivalve	IMBIV21211	Lampsilis straminea clabornensis (Southern Fatmucket)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High				Yes		12
1	Invertebrate- Bivalve	IMBIV21211	Lampsilis straminea clabornensis (Southern Fatmucket)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High				Yes		12
1	Invertebrate- Bivalve	IMBIV21211	Lampsilis straminea clabornensis (Southern Fatmucket)	Residential Sewage/Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium				Yes		12
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	None	High		Yes	Yes	Yes		8
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes	Yes		6.5
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes	Yes	Yes		6.5
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low		Yes	Yes			2.5
1	Invertebrate- Bivalve	IMBIV22012	Lasmigona complanata complanata (White Heelsplitter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes			9
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High				Yes		9.75
1	Invertebrate- Bivalve	IMBIV22050	Lasmigona holstonia (Tennessee Heelsplitter)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes	Yes		6
1	Invertebrate- Bivalve	IMBIV22060	Lasmigona subviridis (Green Floater)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High		Yes				13.5
1	Invertebrate- Bivalve	IMBIV22060	Lasmigona subviridis (Green Floater)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Medium	High		Yes				6
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Construction of Dams/Impoundments	Alt Phys Env Reg	26- 50%	V.High	Historic- Continuing	None	High		Yes				9
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes				6
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes				7
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes				7
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes				6.5
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes				6.5
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes				6.5
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg							Yes				
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
1	Invertebrate- Bivalve	IMBIV25010	Lexingtonia dolabelloides (Slabside Pearlymussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes			9
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes			7
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Bivalve	IMBIV28020	Medionidus conradicus (Cumberland Moccasinshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes			6.5
1	Invertebrate- Bivalve	IMBIV31010	Obovaria jacksoniana (Southern Hickorynut)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes				7
1	Invertebrate- Bivalve	IMBIV31010	Obovaria jacksoniana (Southern Hickorynut)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes				9.75
1	Invertebrate- Bivalve	IMBIV31010	Obovaria jacksoniana (Southern Hickorynut)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes				9.75

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low	Yes	Yes	Yes		2.5	
1	Invertebrate- Bivalve	IMBIV31020	Obovaria olivaria (Hickorynut)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Channelization of Rivers/Streams	Alt Phys Hab Struc	0- 25%	High	Current	Low	High		Yes			3.25	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes			3	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low		Yes	Yes		2.5	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV31050	Obovaria subrotunda (Round Hickorynut)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Channelization of Rivers/Streams	Alt Phys Env Reg	0- 25%	High	Historic- Continuing	Low	High	Yes				3.5	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High		Yes	Yes		13.5	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes	Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low		Yes	Yes		2.5	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV34030	Plethobasus cyphus (Sheepnose)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High		Yes	Yes		13.5	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Bivalve	IMBIV35070	Pleurobema coccineum (Round Pigtoe)	Recreational Use of Habitats (non-vehicular)	Alt Bio Compl/Int	0- 25%	V.High	Current	High	Medium		Yes			3	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Channelization of Rivers/Streams	Alt Phys Env Reg	0- 25%	High	Historic- Continuing	Low	High	Yes				3.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Channelization of Rivers/Streams	Alt Phys Hab Struc	0- 25%	V.High	Current	Low	High		Yes	Yes		3.75	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Commercial Collection of Species	Alt Bio Compl/Int	26- 50%	V.High	Current	Medium	Medium		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	High		Yes			3.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low	Yes	Yes	Yes		2.5	
1	Invertebrate- Bivalve	IMBIV35090	Pleurobema cordatum (Ohio Pigtoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes	Yes	9	
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes	Yes	9	
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High			Yes	9.75		
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High			Yes	9.75		
1	Invertebrate- Bivalve	IMBIV35160	Pleurobema hanleyianum (Georgia Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes	9		
1	Invertebrate- Bivalve	IMBIV35170	Pleurobema johannis (Alabama Pigtoe)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes		12	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Bivalve	IMBIV35170	Pleurobema johannis (Alabama Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium				Yes	12	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Industrial Discharge	Alt Chem Env Reg							Yes	Yes			
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35220	Pleurobema oviforme (Tennessee Clubshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35280	Pleurobema rubellum (Warrior Pigtoe)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High				Yes	12	
1	Invertebrate- Bivalve	IMBIV35280	Pleurobema rubellum (Warrior Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium				Yes	12	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35250	Pleurobema rubrum (Pyramid Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High				Yes	9.75	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV35310	Pleurobema troschelianum (Alabama Clubshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Current	Low	Medium		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High		Yes	Yes		13.5	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes	Yes		10.5	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes	Yes		10.5	
1	Invertebrate- Bivalve	IMBIV38050	Ptychobranthus subtentum (Fluted Kidneyshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes		3	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	Medium	Current	Low	Low		Yes	Yes		5	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV39041	Quadrula cylindrica cylindrica (Rabbitsfoot)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV42010	Strophitus connasaugaensis (Alabama Creekmussel)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High				Yes	9.75	
1	Invertebrate- Bivalve	IMBIV42010	Strophitus connasaugaensis (Alabama Creekmussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High		Yes			8	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV42030	Strophitus undulatus (Squawfoot or Creeper)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes	Yes		9	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes	Yes		9.75	
1	Invertebrate- Bivalve	IMBIV43030	Toxolasma lividus (Purple Lilliput)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV46020	Unioemerus declivis (Tapered Pondhorn)	Channelization of Rivers/Streams	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes				12	
1	Invertebrate- Bivalve	IMBIV46020	Unioemerus declivis (Tapered Pondhorn)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Bivalve	IMBIV46020	Unioemerus declivis (Tapered Pondhorn)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
1	Invertebrate- Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
1	Invertebrate- Bivalve	IMBIV47050	Villosa fabalis (Rayed Bean)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes			9	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Channelization of Rivers/Streams	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Channelization of Rivers/Streams	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High	Yes				12	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Bivalve	IMBIV47070	Villosa lienosa (Little Spectaclecase)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High				Yes	9.75	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High			Yes		9.75	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High			Yes		9.75	
1	Invertebrate- Bivalve	IMBIV47080	Villosa nebulosa (Alabama Rainbow)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	High			Yes		3.5	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Mining Practices	Alt Phys Env Reg	0- 25%	High	Historic- Continuing	Low	High			Yes		3.5	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	High	Current	Low	High			Yes		3.25	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47130	Villosa taeniata (Painted Creekshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High			Yes		9.75	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High			Yes		9.75	
1	Invertebrate- Bivalve	IMBIV47152	Villosa vanuxemensis umbrans (Coosa Creekshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	High	Yes				8	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes			Yes	9	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes			Yes	9	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes			Yes	9.75	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes			Yes	9.75	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Bivalve	IMBIV47170	Villosa vibex (Southern Rainbow)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes			Yes	9	
1	Invertebrate- Crustacean	ICMAL49010	Barbicambarus comutus (Bottlebrush Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL49010	Barbicambarus comutus (Bottlebrush Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL49010	Barbicambarus comutus (Bottlebrush Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL49010	Barbicambarus comutus (Bottlebrush Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes		6	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	High	Current	Low	Low		Yes			5.5	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Oil or Natural Gas Drilling	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL07890	Cambarus angularis (Angled Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Crustacean	ICMAL07030	Cambarus bouchardi (Big South Fork Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07030	Cambarus bouchardi (Big South Fork Crayfish)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Invertebrate- Crustacean	ICMAL07030	Cambarus bouchardi (Big South Fork Crayfish)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL07370	Cambarus brachydactylus (Shortfingered Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07370	Cambarus brachydactylus (Shortfingered Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07370	Cambarus brachydactylus (Shortfingered Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Crustacean	ICMAL07140	Cambarus crinipes (Bouchards's Crayfish or Hairylegged Crayfish)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	High	Current	Low	High		Yes	Yes		3.25	
1	Invertebrate- Crustacean	ICMAL07450	Cambarus cymatilis (Conasauga Blue Burrower Crayfish)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	High	Current	Low	Low				Yes	5.5	
1	Invertebrate- Crustacean	ICMAL07450	Cambarus cymatilis (Conasauga Blue Burrower Crayfish)	Primary Residential Development	Alt Phys Hab Struc	76- 100%	V.High	Next 1- 5 Years	Low	High				Yes	13	
1	Invertebrate- Crustacean	ICMAL07460	Cambarus deweesae (Valley Flame Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07460	Cambarus deweesae (Valley Flame Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07460	Cambarus deweesae (Valley Flame Crayfish)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	High	Current	Low	Low		Yes			5.5	
1	Invertebrate- Crustacean	ICMAL07460	Cambarus deweesae (Valley Flame Crayfish)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Next 1- 5 Years	Low	High		Yes			3.25	
1	Invertebrate- Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Invertebrate- Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Hab Struc	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Invertebrate- Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Industrial Discharge	Alt Chem Env Reg	76- 100%	High	Current	Low	High		Yes			13	
1	Invertebrate- Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium		Yes			12	
1	Invertebrate- Crustacean	ICMAL07190	Cambarus extraneus (Chickamauga Crayfish)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	High	Current	Low	V.High		Yes			7.5	
1	Invertebrate- Crustacean	ICMAL07570	Cambarus hiwasseeensis (a crayfish)	Construction of Dams/Impoundments	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High		Yes			4.5	
1	Invertebrate- Crustacean	ICMAL07570	Cambarus hiwasseeensis (a crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Invertebrate- Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Invertebrate- Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Invertebrate- Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High				Yes	6.5	
1	Invertebrate- Crustacean	ICMAL07630	Cambarus manningi (a crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes	6	
1	Invertebrate- Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High			Yes		7	
1	Invertebrate- Crustacean	ICMAL07200	Cambarus obeyensis (Obey River Crayfish)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High			Yes		7	
1	Invertebrate- Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Low	High			Yes		8.25	
1	Invertebrate- Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Crustacean	ICMAL07690	Cambarus pristinus (Caney Fork Crayfish)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
1	Invertebrate- Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Crustacean	ICMAL07X10	Cambarus sp. 1 (Emory River Crayfish)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Crustacean	ICMAL07920	Cambarus williami (Stones River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Crustacean	ICMAL07920	Cambarus williami (Stones River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
1	Invertebrate- Crustacean	ICMAL07920	Cambarus williami (Stones River Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes		6	
1	Invertebrate- Crustacean	ICMAL15140	Fallicambarus horti (Hatchie Burrowing Crayfish)	Channelization of Rivers/Streams	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	High		Yes			12	
1	Invertebrate- Crustacean	ICMAL15140	Fallicambarus horti (Hatchie Burrowing Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High		Yes			12	
1	Invertebrate- Crustacean	ICMAL11320	Orconectes alabamensis (Stateline Crayfish)	Forest Type Conversion	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes		3	
1	Invertebrate- Crustacean	ICMAL11320	Orconectes alabamensis (Stateline Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL11330	Orconectes barrenensis (a crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Crustacean	ICMAL11330	Orconectes barrenensis (a crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High					6	
1	Invertebrate- Crustacean	ICMAL11330	Orconectes barrenensis (a crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Invertebrate- Crustacean	ICMAL11330	Orconectes barrenensis (a crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes		6	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11800	Orconectes burri (Blood River Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes			3	
1	Invertebrate- Crustacean	ICMAL11370	Orconectes cooperi (Flintbriar Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11370	Orconectes cooperi (Flintbriar Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11370	Orconectes cooperi (Flintbriar Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11370	Orconectes cooperi (Flintbriar Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11410	Orconectes forceps (Surgeon Crayfish)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	High	Current	Low	Low		Yes			5.5	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Forest Type Conversion	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes			3	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current		High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Invertebrate- Crustacean	ICMAL11820	Orconectes pagei (Big Sandy Crayfish)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Crustacean	ICMAL11550	Orconectes wrightii (Hardin County Crayfish)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Crustacean	ICMAL11550	Orconectes wrightii (Hardin County Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11550	Orconectes wrightii (Hardin County Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11550	Orconectes wrightii (Hardin County Crayfish)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Crustacean	ICMAL11550	Orconectes wrightii (Hardin County Crayfish)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High			Yes		13	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	76- 100%	High	Current	Low	High			Yes		13	
1	Invertebrate- Gastropod	IMGASK2010	Elimia acuta (Acute Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium			Yes		12	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Gastropod	IMGASK2060	Elimia arachnoidea (Spider Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Gastropod	IMGASK2070	Elimia aterina (Coal Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2070	Elimia aterina (Coal Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2070	Elimia aterina (Coal Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK2070	Elimia aterina (Coal Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
1	Invertebrate- Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High		Yes			13.5	
1	Invertebrate- Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Invertebrate- Gastropod	IMGASK2430	Elimia interrupta (Knotty Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes			9	
1	Invertebrate- Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
1	Invertebrate- Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
1	Invertebrate- Gastropod	IMGASK2540	Elimia porrecta (Nymph Elimia)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes	Yes		6.5	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High			Yes		6.5	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High			Yes		6.5	
1	Invertebrate- Gastropod	IMGASK2630	Elimia striatula (File Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes		Yes	6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Medium	Medium	Yes				8.25	
1	Invertebrate- Gastropod	IMGASK2640	Elimia strigosa (Brook Elimia)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Current	Low	V.High	Yes				11.25	
1	Invertebrate- Gastropod	IMGASK2670	Elimia teres (Elegant Elimia)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Gastropod	IMGASK2670	Elimia teres (Elegant Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Gastropod	IMGASK2670	Elimia teres (Elegant Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg						Yes					
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Operation of Dams/Reservoirs	Alt Phys Hab Struc						Yes					
1	Invertebrate- Gastropod	IMGASK2680	Elimia troostiana (Mossy Elimia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Forestry Practices	Alt Phys Env Reg						Yes					
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
1	Invertebrate- Gastropod	IMGASK3010	Io fluviialis (Spiny Riversnail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK5140	Leptoxis crassa (Boulder Snail)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes	Yes			13.5	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes			9.75	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes	Yes			9.75	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
1	Invertebrate- Gastropod	IMGASK5120	Leptoxis umbilicata (Umbilicate Rocksnaill)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK5210	Leptoxis virgata (Smooth Mudalia)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing				Yes				
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
1	Invertebrate- Gastropod	IMGASK6010	Lithasia armigera (Armored Rocksnaill)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Invertebrate- Gastropod	IMGASK7190	Pleurocera walkeri (Telescope Hornsnail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
1	Invertebrate- Gastropod	IMGASJ2030	Somatogyrus aureus (Golden Pebblesnail)	Construction of Dams/Impoundments	Alt Phys Hab Struc	76- 100%	V.High	Historic- Continuing	None	High	Yes	Yes			18	
1	Invertebrate- Gastropod	IMGASJ2030	Somatogyrus aureus (Golden Pebblesnail)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High	Yes				13	
1	Invertebrate- Gastropod	IMGASJ2030	Somatogyrus aureus (Golden Pebblesnail)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	76- 100%	High	Current	Low	High	Yes				13	
1	Invertebrate- Gastropod	IMGASJ2030	Somatogyrus aureus (Golden Pebblesnail)	Industrial Discharge	Alt Chem Env Reg	76- 100%	High	Current	Low	High	Yes				13	
1	Invertebrate- Gastropod	IMGASJ2030	Somatogyrus aureus (Golden Pebblesnail)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium	Yes				12	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
1	Invertebrate- Gastropod	IMGASJ2200	Somatogyrus parvulus (Sparrow Pebblesnail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2380	Somatogyrus sp. 2 (Hiwassee Pebblesnail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Invertebrate- Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Invertebrate- Gastropod	IMGASJ2310	Somatogyrus tennesseensis (Opaque Pebblesnail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Construction of Dams/Impoundments	Alt Phys Env Reg	0- 25%	V.High	Next 1- 5 Years	Medium	V.High	Yes	Yes			3.5	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	V.High	Current	Low	V.High	Yes	Yes			4.25	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Incompatible Mining Practices	Alt Phys Env Reg	0- 25%	High	Current	Low	V.High	Yes	Yes			3.75	
1	Vertebrate- Amphibian	AAAAC01010	Cryptobranchus alleganiensis (Hellbender)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	Medium	Current	Low	Low	Yes	Yes			2.5	
1	Vertebrate- Amphibian	AAAAD03090	Desmognathus welteri (Black Mountain Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	V.High	Yes	Yes			7.5	
1	Vertebrate- Amphibian	AAAAD03090	Desmognathus welteri (Black Mountain Salamander)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
1	Vertebrate- Amphibian	AAAAD03090	Desmognathus welteri (Black Mountain Salamander)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
1	Vertebrate- Amphibian	AAAAD05020	Eurycea junaluska (Junaluska Salamander)	Construction of Dams/Impoundments	Alt Conn	51- 75%	Medium	Historic- Continuing	None	V.High	Yes				12.75	
1	Vertebrate- Amphibian	AAAAD05020	Eurycea junaluska (Junaluska Salamander)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	V.High	Yes				15	
1	Vertebrate- Amphibian	AAAAD05020	Eurycea junaluska (Junaluska Salamander)	Construction of Roads/Railroads/Utilities	Alt Conn	26- 50%	Medium	Historic- Continuing	None	Low	Yes				6.5	
1	Vertebrate- Amphibian	AAAAD05020	Eurycea junaluska (Junaluska Salamander)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Vertebrate- Fish	AFCOA01020	Acipenser fulvescens (Lake Sturgeon)	Construction of Dams/Impoundments	Alt Conn	76- 100%	High	Historic- Continuing	None	V.High	Yes	Yes			18	
1	Vertebrate- Fish	AFCOC01040	Ammocrypta clara (Western Sand Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes				9	
1	Vertebrate- Fish	AFCOC01040	Ammocrypta clara (Western Sand Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	Medium	Historic- Continuing	Medium	High	Yes				9	
1	Vertebrate- Fish	AFCOC01040	Ammocrypta clara (Western Sand Darter)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	V.High	Yes				12	
1	Vertebrate- Fish	AFCJC01030	Carpiodes velifer (Highfin Carpsucker)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
1	Vertebrate- Fish	AFCJC01030	Carpiodes velifer (Highfin Carpsucker)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	Medium	Current	Medium	High	Yes	Yes			5.5	
1	Vertebrate- Fish	AFCJB05021	Clinostomus funduloides ssp. 1 (Smoky Dace)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCOC01010	Crystallaria asprella (Crystal Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	Medium	Current	Low	High		Yes			6	
1	Vertebrate- Fish	AFCOC01010	Crystallaria asprella (Crystal Darter)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	V.High		Yes			8	
1	Vertebrate- Fish	AFCOC01010	Crystallaria asprella (Crystal Darter)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	V.High		Yes			8	
1	Vertebrate- Fish	AFCOC01010	Crystallaria asprella (Crystal Darter)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	Medium	Current	Low	Medium		Yes			2.75	
1	Vertebrate- Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Historic- Continuing	None	High	Yes	Yes	Yes		12	
1	Vertebrate- Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	0- 25%	Medium	Next 1- 5 Years	Medium	Medium	Yes	Yes	Yes		2	
1	Vertebrate- Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes	Yes		6	
1	Vertebrate- Fish	AFCJC04010	Cycleptus elongatus (Blue sucker)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes	Yes		6	
1	Vertebrate- Fish	AFCJB60010	Ericymba buccata (Silverjaw Minnow)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Vertebrate- Fish	AFCJB60010	Ericymba buccata (Silverjaw Minnow)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Vertebrate- Fish	AFCJB60010	Ericymba buccata (Silverjaw Minnow)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Vertebrate- Fish	AFCJB60010	Ericymba buccata (Silverjaw Minnow)	Oil or Natural Gas Drilling	Alt Phys Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Vertebrate- Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Vertebrate- Fish	AFCJB50020	Erimystax dissimilis (Streamline Chub)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
1	Vertebrate- Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Agricultural Conversion	Alt Phys Env Reg	26- 50%	Low	Historic- Continuing	Medium	High	Yes	Yes			5.5	
1	Vertebrate- Fish	AFCJB50040	Erimystax insignis (Blotched Chub)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	Low	Historic- Continuing	Medium	High	Yes	Yes			5.5	
1	Vertebrate- Fish	AFCOC02890	Etheostoma aculeiceps (Sharphead Darter)	Construction of Dams/Impoundments	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
1	Vertebrate- Fish	AFCOC02890	Etheostoma aculeiceps (Sharphead Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	None	High	Yes				8	
1	Vertebrate- Fish	AFCOC02890	Etheostoma aculeiceps (Sharphead Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCOC02890	Etheostoma aculeiceps (Sharphead Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCOC02010	Etheostoma aquali (Coppercheek Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	76- 100%	V.High	Within 5- 10 Years	Medium	High	Yes				11	
1	Vertebrate- Fish	AFCOC02010	Etheostoma aquali (Coppercheek Darter)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Low	Medium	Yes				5	
1	Vertebrate- Fish	AFCOC02910	Etheostoma baileyi (Emerald Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
1	Vertebrate- Fish	AFCOC02910	Etheostoma baileyi (Emerald Darter)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Vertebrate- Fish	AFCOC02910	Etheostoma baileyi (Emerald Darter)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High		Yes			10.5	
1	Vertebrate- Fish	AFCOC02040	Etheostoma barbouri (Teardrop Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02040	Etheostoma barbouri (Teardrop Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02040	Etheostoma barbouri (Teardrop Darter)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	Low	V.High			Yes		7.5	
1	Vertebrate- Fish	AFCOC02900	Etheostoma barrenense (Splendid Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02900	Etheostoma barrenense (Splendid Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02900	Etheostoma barrenense (Splendid Darter)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	Low	V.High			Yes		7.5	
1	Vertebrate- Fish	AFCOC02050	Etheostoma bellum (Orangefin Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02050	Etheostoma bellum (Orangefin Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes		7.5	
1	Vertebrate- Fish	AFCOC02050	Etheostoma bellum (Orangefin Darter)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	Low	V.High			Yes		7.5	
1	Vertebrate- Fish	AFCOC02061	Etheostoma blennioides gutselli (Tuckasegee Darter)	Construction of Dams/Impoundments	Alt Conn	0- 25%	High	Historic- Continuing	None	High	Yes				4	
1	Vertebrate- Fish	AFCOC02061	Etheostoma blennioides gutselli (Tuckasegee Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High	Yes				4.5	
1	Vertebrate- Fish	AFCOC02061	Etheostoma blennioides gutselli (Tuckasegee Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Medium	High	Yes				6.5	
1	Vertebrate- Fish	AFCOC02061	Etheostoma blennioides gutselli (Tuckasegee Darter)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
1	Vertebrate- Fish	AFCOC02070	Etheostoma blennius sequatchiense (Sequatchie Blenny Darter)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	0- 25%	Medium	Next 1- 5 Years	Low	High	Yes				2.5	
1	Vertebrate- Fish	AFCOC02070	Etheostoma blennius sequatchiense (Sequatchie Blenny Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High	Yes				3	
1	Vertebrate- Fish	AFCOC02070	Etheostoma blennius sequatchiense (Sequatchie Blenny Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium	Yes				5.5	
1	Vertebrate- Fish	AFCOC02070	Etheostoma blennius sequatchiense (Sequatchie Blenny Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	V.High	Historic- Continuing	Medium	Medium	Yes				3.5	
1	Vertebrate- Fish	AFCOC02A40	Etheostoma brevirostrum (Holiday or Ellijay Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Vertebrate- Fish	AFCOC02E60	Etheostoma cervus (Chickasaw Darter)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	V.High	Yes				8	
1	Vertebrate- Fish	AFCOC02E60	Etheostoma cervus (Chickasaw Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	V.High	Current	Medium	High	Yes				7	
1	Vertebrate- Fish	AFCOC02E60	Etheostoma cervus (Chickasaw Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High	Yes	Yes			4.5	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	High	Yes	Yes			3.5	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
1	Vertebrate- Fish	AFCOC02130	Etheostoma cinereum (Ashy Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	High	Yes	Yes			3.25	
1	Vertebrate- Fish	AFCOC02A50	Etheostoma corona (Crown Darter)	Incompatible Animal Production Practices	Alt Chem Env Reg	51- 75%	High	Next 1- 5 Years	Medium	Medium	Yes				6.75	
1	Vertebrate- Fish	AFCOC02A50	Etheostoma corona (Crown Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Vertebrate- Fish	AFCOC02A50	Etheostoma corona (Crown Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
1	Vertebrate- Fish	AFCOC02C20	Etheostoma denoncourti (Golden Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	V.High	Yes				7	
1	Vertebrate- Fish	AFCOC02C20	Etheostoma denoncourti (Golden Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCOC02C20	Etheostoma denoncourti (Golden Darter)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	V.High	Yes				8	
1	Vertebrate- Fish	AFCOC02190	Etheostoma ditrema (Coldwater Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Vertebrate- Fish	AFCOC02190	Etheostoma ditrema (Coldwater Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	V.High	Current	Medium	High			Yes		7	
1	Vertebrate- Fish	AFCOC02190	Etheostoma ditrema (Coldwater Darter)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
1	Vertebrate- Fish	AFCOC02B30	Etheostoma forbesi (Barrens Darter)	Excessive Groundwater Withdrawal	Alt Phys Env Reg	26- 50%	Medium	Current	Low	High		Yes			6	
1	Vertebrate- Fish	AFCOC02B30	Etheostoma forbesi (Barrens Darter)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
1	Vertebrate- Fish	AFCOC02B30	Etheostoma forbesi (Barrens Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
1	Vertebrate- Fish	AFCOC02440	Etheostoma microlepidum (Finescale Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	V.High	Yes				10	
1	Vertebrate- Fish	AFCOC02440	Etheostoma microlepidum (Finescale Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	Medium	Current	Low	Medium		Yes			5.5	
1	Vertebrate- Fish	AFCOC02470	Etheostoma neopterum (Lollypop Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium	Yes				5.5	
1	Vertebrate- Fish	AFCOC02470	Etheostoma neopterum (Lollypop Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium	Yes				5.5	
1	Vertebrate- Fish	AFCOC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Construction of Dams/Impoundments	Alt Conn	0- 25%	High	Historic- Continuing	None	V.High		Yes			4.5	
1	Vertebrate- Fish	AFCOC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Excessive Surfacewater Withdrawal	Alt Phys Env Reg	0- 25%	Medium	Current	Low	High		Yes			3	
1	Vertebrate- Fish	AFCOC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Vertebrate- Fish	AFCOC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Vertebrate- Fish	AFCOC02530	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
1	Vertebrate- Fish	AFCOC02A60	Etheostoma pseudovulatum (Egg-mimic Darter)	Construction of Dams/Impoundments	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Low	V.High		Yes				9.75
1	Vertebrate- Fish	AFCOC02A60	Etheostoma pseudovulatum (Egg-mimic Darter)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	Medium	Historic- Continuing	Medium	High		Yes				9
1	Vertebrate- Fish	AFCOC02A60	Etheostoma pseudovulatum (Egg-mimic Darter)	Incompatible Mining Practices	Alt Phys Hab Struc	51- 75%	High	Historic- Continuing	Medium	High		Yes				9.75
1	Vertebrate- Fish	AFCOC02990	Etheostoma pyrrhogaster (Firebelly Darter)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	V.High	Yes					8
1	Vertebrate- Fish	AFCOC02990	Etheostoma pyrrhogaster (Firebelly Darter)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	V.High	Yes					8
1	Vertebrate- Fish	AFCOC02990	Etheostoma pyrrhogaster (Firebelly Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	Medium	Yes					5.5
1	Vertebrate- Fish	AFCOC02650	Etheostoma rupestre (Rock Darter)	Incompatible Forestry Practices	Alt Phys Hab Struc	0- 25%	Medium	Current	Medium	Medium				Yes		2.5
1	Vertebrate- Fish	AFCOC02660	Etheostoma sagitta (Arrow Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes			3
1	Vertebrate- Fish	AFCOC02660	Etheostoma sagitta (Arrow Darter)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High			Yes			7
1	Vertebrate- Fish	AFCOC02660	Etheostoma sagitta (Arrow Darter)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Medium	High			Yes			6.5
1	Vertebrate- Fish	AFCOC02750	Etheostoma striatulum (Striped Darter)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	V.High	Current	Medium	High		Yes				10.5
1	Vertebrate- Fish	AFCOC02750	Etheostoma striatulum (Striped Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
1	Vertebrate- Fish	AFCOC02750	Etheostoma striatulum (Striped Darter)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
1	Vertebrate- Fish	AFCOC02D40	Etheostoma susanae (Cumberland Johnny Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
1	Vertebrate- Fish	AFCOC02D40	Etheostoma susanae (Cumberland Johnny Darter)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High			Yes			10.5
1	Vertebrate- Fish	AFCOC02D40	Etheostoma susanae (Cumberland Johnny Darter)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High			Yes			10.5
1	Vertebrate- Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	V.High		Yes	Yes			10
1	Vertebrate- Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Vertebrate- Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Vertebrate- Fish	AFCOC02800	Etheostoma tippecanoe (Tippecanoe Darter)	Oil or Natural Gas Drilling	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	High			Yes			3.5
1	Vertebrate- Fish	AFCOC02810	Etheostoma trisella (Trispot Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCOC02A10	Etheostoma vulneratum (Wounded Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes				9
1	Vertebrate- Fish	AFCOC02A10	Etheostoma vulneratum (Wounded Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
1	Vertebrate- Fish	AFCOC02A10	Etheostoma vulneratum (Wounded Darter)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
1	Vertebrate- Fish	AFCNB04030	Fundulus chrysolus (Golden Topminnow)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	Medium	Yes					8.25
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Construction of Roads/Railroads/Utilities	Alt Conn	0- 25%	High	Current	Low	Medium		Yes	Yes			3
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	Medium		Yes	Yes			5.5
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium		Yes	Yes			5.5
1	Vertebrate- Fish	AFCJB14010	Hemitrema flammea (Flame Chub)	Primary Residential Development	Alt Phys Hab Struc	0- 25%	V.High	Current	None	V.High		Yes	Yes			4.75
1	Vertebrate- Fish	AFCJB15040	Hybopsis lineapunctata (Lined Chub)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCJB15040	Hybopsis lineapunctata (Lined Chub)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9
1	Vertebrate- Fish	AFBAA01040	Ichthyomyzon gagei (Southern Brook Lamprey)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFBAA01040	Ichthyomyzon gagei (Southern Brook Lamprey)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCBA02010	Lepisosteus spatula (Alligator Gar)	Channelization of Rivers/Streams	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes					9
1	Vertebrate- Fish	AFCBA02010	Lepisosteus spatula (Alligator Gar)	Channelization of Rivers/Streams	Alt Phys Hab Struc	51- 75%	High	Historic- Continuing	Low	Medium	Yes					9.75
1	Vertebrate- Fish	AFCBA02010	Lepisosteus spatula (Alligator Gar)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes					9.75
1	Vertebrate- Fish	AFCJB53020	Machybopsis gelida (Sturgeon Chub)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes					6
1	Vertebrate- Fish	AFCJB53020	Machybopsis gelida (Sturgeon Chub)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes					6
1	Vertebrate- Fish	AFCJB53030	Machybopsis meeki (Sicklefin Chub)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes					6
1	Vertebrate- Fish	AFCJB53030	Machybopsis meeki (Sicklefin Chub)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes					6
1	Vertebrate- Fish	AFCJB53030	Machybopsis meeki (Sicklefin Chub)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes					6
1	Vertebrate- Fish	AFCJB28110	Notropis asperifrons (Burrhead Shiner)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Vertebrate- Fish	AFCJB28110	Notropis asperifrons (Burrhead Shiner)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes	6
1	Vertebrate- Fish	AFCJB28360	Notropis chrosomus (Rainbow Shiner)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCJB28360	Notropis chrosomus (Rainbow Shiner)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9
1	Vertebrate- Fish	AFCJB28B20	Notropis rupestris (Bedrock Shiner)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	V.High			Yes			10
1	Vertebrate- Fish	AFCJB28B20	Notropis rupestris (Bedrock Shiner)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	Medium	Current	Low	Medium			Yes			5.5
1	Vertebrate- Fish	AFCJB28B20	Notropis rupestris (Bedrock Shiner)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
1	Vertebrate- Fish	AFCKA02170	Noturus munitus (Frecklebelly Madtom)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCKA02170	Noturus munitus (Frecklebelly Madtom)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Vertebrate- Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
1	Vertebrate- Fish	AFCKA02260	Noturus sp. 3 (Saddled Madtom)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes				6.5
1	Vertebrate- Fish	AFCKA02270	Noturus sp. 4 (Chucky Madtom)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High		Yes				12
1	Vertebrate- Fish	AFCKA02270	Noturus sp. 4 (Chucky Madtom)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High		Yes				12

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
1	Vertebrate- Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
1	Vertebrate- Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	Medium	Yes				6.5	
1	Vertebrate- Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
1	Vertebrate- Fish	AFCKA02220	Noturus stigmosus (Northern Madtom)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium	Yes				3	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	0- 25%	V.High	Historic- Continuing	None	High	Yes				4.5	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Medium	High	Yes	Yes			6.5	
1	Vertebrate- Fish	AFCOC04020	Percina aurantiaca (Tangerine Darter)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Current	Medium	High	Yes				3	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Incompatible Animal Production Practices	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Medium	High	Yes				3.25	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Industrial Discharge	Alt Chem Env Reg	0- 25%	High	Historic- Continuing	Low	Medium	Yes				3.25	
1	Vertebrate- Fish	AFCOC04040	Percina burtoni (Blotchside Logperch)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Current	Medium	High	Yes				3	
1	Vertebrate- Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes		Yes		6	
1	Vertebrate- Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes		Yes		6	
1	Vertebrate- Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Medium	High	Yes		Yes		3	
1	Vertebrate- Fish	AFCOC04120	Percina macrocephala (Longhead Darter)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Current	Low	V.High	Yes		Yes		3.75	
1	Vertebrate- Fish	AFCOC04X30	Percina sp. 3 (Muscadine Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Vertebrate- Fish	AFCOC04X30	Percina sp. 3 (Muscadine Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes	6	
1	Vertebrate- Fish	AFCOC04X30	Percina sp. 3 (Muscadine Darter)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes	6	
1	Vertebrate- Fish	AFCOC04340	Percina sp. 9 (Upland Bridled Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Vertebrate- Fish	AFCOC04340	Percina sp. 9 (Upland Bridled Darter)	Landfill Construction/Operation	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Historic- Continuing	None	High	Yes				8	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes		Yes		7	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Incompatible Forestry Practices	Alt Chem Env Reg	0- 25%	High	Current	Low	High	Yes				3.25	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Medium	Medium	Yes				5.5	
1	Vertebrate- Fish	AFCOC04280	Percina squamata (Olive Darter)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
1	Vertebrate- Fish	AFCJB30010	Phenacobius calostomus (Rifle Minnow)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	0- 25%	Medium	Current	Medium	Medium				Yes	2.5	
1	Vertebrate- Fish	AFCJB31070	Phoxinus saylori (Laurel Dace)	Construction of Dams/Impoundments	Alt Phys Hab Struc	0- 25%	V.High	Next 1- 5 Years	Medium	High	Yes				3	
1	Vertebrate- Fish	AFCJB31070	Phoxinus saylori (Laurel Dace)	Forest Type Conversion	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Medium	High	Yes				9.75	
1	Vertebrate- Fish	AFCJB31070	Phoxinus saylori (Laurel Dace)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Incompatible Forestry Practices	Alt Phys Hab Struc	26- 50%	High	Current	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCJB31060	Phoxinus tennesseensis (Tennessee Dace)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	Medium	Historic- Continuing	Medium	High	Yes				6	
1	Vertebrate- Fish	AFCJC13010	Thoburnia atripinnis (Blackfin Sucker)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	Medium	Current	Medium	High				Yes	5.5	
1	Vertebrate- Fish	AFCJC13010	Thoburnia atripinnis (Blackfin Sucker)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	Low	High				Yes	6.5	
1	Vertebrate- Reptile	ARAAG01020	Apalone mutica (Smooth Softshell Turtle)	Channelization of Rivers/Streams	Alt Phys Hab Struc	0- 25%	High	Historic- Continuing	Low	Medium	Yes				3.25	
1	Vertebrate- Reptile	ARAAG01020	Apalone mutica (Smooth Softshell Turtle)	Commercial Collection of Species	Alt Bio Compl/Int	0- 25%	V.High	Historic- Continuing	Medium	Low	Yes				3.25	
1	Vertebrate- Reptile	ARAAG01020	Apalone mutica (Smooth Softshell Turtle)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Compl/Int	0- 25%	V.High	Historic- Continuing	Medium	Low	Yes	Yes			3.25	
1	Vertebrate- Reptile	ARAAG01030	Apalone spinifer (Spiny Softshell Turtle)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Compl/Int	0- 25%	V.High	Historic- Continuing	Medium	Low	Yes	Yes			3.25	
1	Vertebrate- Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
1	Vertebrate- Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Construction of Dams/Impoundments	Alt Phys Env Reg	0- 25%	High	Historic- Continuing	None	High	Yes	Yes			4	
1	Vertebrate- Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	None	Medium	Yes				7.5	
1	Vertebrate- Reptile	ARAAB02010	Macrochelys temminckii (Alligator Snapping Turtle)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Compl/Int	26- 50%	V.High	Historic- Continuing	Medium	Low	Yes	Yes	Yes		6.5	
2	Invertebrate- Insect	IITRI1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IITRI1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IITRI1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IITRI1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IITRI1H030	Agarodes stannardi (Stannard's Agarodes Caddisfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
2	Invertebrate- Insect	IIPLE01010	Allocaupnia brooksi (Sevier Snowfly)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IIPLE01010	Allocaupnia brooksi (Sevier Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IIPLE01010	Allocaupnia brooksi (Sevier Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IIPLE01010	Allocaupnia brooksi (Sevier Snowfly)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
2	Invertebrate- Insect	IIPLE01010	<i>Allocapnia brooksi</i> (Sevier Snowfly)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High		Yes			7.5	
2	Invertebrate- Insect	IIPLE01010	<i>Allocapnia brooksi</i> (Sevier Snowfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
2	Invertebrate- Insect	IIPLE01010	<i>Allocapnia brooksi</i> (Sevier Snowfly)	Secondary Home/Resort Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High		Yes			7.5	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High			Yes		11.25	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High			Yes		11.25	
2	Invertebrate- Insect	IIPLE01030	<i>Allocapnia cunninghami</i> (Karst Snowfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High			Yes		11.25	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High			Yes		9.75	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High			Yes		11.25	
2	Invertebrate- Insect	IIPLE01250	<i>Allocapnia perplexa</i> (Perplexing Snowfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes		9	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High		Yes	Yes		7.5	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
2	Invertebrate- Insect	IIPLE0H060	<i>Amphinemura mockfordi</i> (Tennessee Forestfly)	Secondary Home/Resort Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High		Yes	Yes		7.5	
2	Invertebrate- Insect	IITRI36120	<i>Ceratopsyche etneri</i> (Buffalo Springs Caddisfly)	Incompatible Species Management Practices	Alt Bio Compl/Int	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IITRI14020	<i>Glyphopsyche sequatchie</i> (Sequatchie Caddisfly)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IITRI14020	<i>Glyphopsyche sequatchie</i> (Sequatchie Caddisfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IITRI14020	<i>Glyphopsyche sequatchie</i> (Sequatchie Caddisfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IITRI14020	<i>Glyphopsyche sequatchie</i> (Sequatchie Caddisfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes			9	
2	Invertebrate- Insect	IIODO08080	<i>Gomphus consanguis</i> (Cherokee Clubtail Dragonfly)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
2	Invertebrate- Insect	IIODO08080	<i>Gomphus consanguis</i> (Cherokee Clubtail Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
2	Invertebrate- Insect	IIODO08080	<i>Gomphus consanguis</i> (Cherokee Clubtail Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes		Yes	6	
2	Invertebrate- Insect	IIODO08080	<i>Gomphus consanguis</i> (Cherokee Clubtail Dragonfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes		Yes	6	
2	Invertebrate- Insect	IIODO08390	<i>Gomphus sandrius</i> (Tennessee Clubtail Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIODO08390	<i>Gomphus sandrius</i> (Tennessee Clubtail Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIODO08390	<i>Gomphus sandrius</i> (Tennessee Clubtail Dragonfly)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High		Yes			11.25	
2	Invertebrate- Insect	IIODO08390	<i>Gomphus sandrius</i> (Tennessee Clubtail Dragonfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes			9	
2	Invertebrate- Insect	IIODO08190	<i>Gomphus septima</i> (Septima's Clubtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIODO08190	<i>Gomphus septima</i> (Septima's Clubtail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIODO08190	<i>Gomphus septima</i> (Septima's Clubtail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIPLE2P040	<i>Hydroperla rickeri</i> (Tennessee Springfly)	Commercial/Industrial Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High			Yes		7.5	
2	Invertebrate- Insect	IIPLE2P040	<i>Hydroperla rickeri</i> (Tennessee Springfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIPLE2P040	<i>Hydroperla rickeri</i> (Tennessee Springfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIPLE2P040	<i>Hydroperla rickeri</i> (Tennessee Springfly)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Next 1- 5 Years	Low	V.High			Yes		7.5	
2	Invertebrate- Insect	IIPLE2P040	<i>Hydroperla rickeri</i> (Tennessee Springfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes		6	
2	Invertebrate- Insect	IIODO26070	<i>Macromia margarita</i> (Mountain River Cruiser)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIODO26070	<i>Macromia margarita</i> (Mountain River Cruiser)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIODO26070	<i>Macromia margarita</i> (Mountain River Cruiser)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIODO26070	<i>Macromia margarita</i> (Mountain River Cruiser)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
2	Invertebrate- Insect	IIPLEOG060	<i>Megaleuctra williamsae</i> (Williams' Rare Winter Stonefly)	Acid Rain	Alt Chem Env Reg	76- 100%	Medium	Current	None	Medium		Yes			13	
2	Invertebrate- Insect	IIPLEOG060	<i>Megaleuctra williamsae</i> (Williams' Rare Winter Stonefly)	Invasive Exotic Species	Alt Bio Compl/Int	26- 50%	High	Current	Medium	Low		Yes			5	
2	Invertebrate- Insect	IIPLE25010	<i>Oconoperla innubila</i> (a stonefly)	Acid Rain	Alt Chem Env Reg	76- 100%	Medium	Current	None	Medium		Yes			13	
2	Invertebrate- Insect	IIPLE25010	<i>Oconoperla innubila</i> (a stonefly)	Invasive Exotic Species	Alt Bio Compl/Int	76- 100%	High	Current	Medium	Low		Yes			10	
2	Invertebrate- Insect	IIODO12010	<i>Ophiogomphus acuminatus</i> (Tennessee Snaketail or Acuminate Snaketail)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
2	Invertebrate- Insect	IIODO12010	<i>Ophiogomphus acuminatus</i> (Tennessee Snaketail or Acuminate Snaketail)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
2	Invertebrate- Insect	IIODO12210	<i>Ophiogomphus alleghaniensis</i> (Allegheny Snaketail)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIODO12210	<i>Ophiogomphus alleghaniensis</i> (Allegheny Snaketail)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIODO12210	<i>Ophiogomphus alleghaniensis</i> (Allegheny Snaketail)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIODO12210	<i>Ophiogomphus alleghaniensis</i> (Allegheny Snaketail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes	Yes	6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
2	Invertebrate- Insect	IODO12080	Ophiogomphus edmundo (Edmund's Snaketail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
2	Invertebrate- Insect	IODO12080	Ophiogomphus edmundo (Edmund's Snaketail)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Channelization of Rivers/Streams	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
2	Invertebrate- Insect	IODO12090	Ophiogomphus howei (Howe's Dragonfly)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High		Yes			11.25	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Construction of Roads/Railroads/Utilities	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	V.High		Yes			12	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Construction of Roads/Railroads/Utilities	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	Low	V.High		Yes			13.5	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	V.High	Next 1- 5 Years	Low	V.High		Yes			11.25	
2	Invertebrate- Insect	IIEPH33270	Paraleptophlebia kirchneri (a mayfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Commercial/Industrial Development	Alt Phys Hab Struc	51- 75%	High	Current	Low	V.High		Yes			11.25	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Construction of Roads/Railroads/Utilities	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	V.High		Yes			12	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Construction of Roads/Railroads/Utilities	Alt Phys Hab Struc	51- 75%	High	Historic- Continuing	Low	V.High		Yes			12	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			9.75	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	High		Yes			9.75	
2	Invertebrate- Insect	IIEPH78150	Plautidius grandis (a mayfly)	Primary Residential Development	Alt Phys Hab Struc	51- 75%	High	Current	Low	V.High		Yes			11.25	
2	Invertebrate- Insect	IIEPH40050	Stenonema sinclairii (a mayfly)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIEPH40050	Stenonema sinclairii (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIEPH40050	Stenonema sinclairii (a mayfly)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
2	Invertebrate- Insect	IIEPH40050	Stenonema sinclairii (a mayfly)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
2	Invertebrate- Insect	IIPLEOU010	Zapada chila (a stonefly)	Acid Rain	Alt Chem Env Reg	76- 100%	Medium	Current	None	Medium		Yes			13	
2	Invertebrate- Insect	IIPLEOU010	Zapada chila (a stonefly)	Invasive Exotic Species	Alt Bio Comp/Int	26- 50%	V.High	Current	Medium	Low		Yes			6	
3	Invertebrate- Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes		6	
3	Invertebrate- Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High			Yes		10.5	
3	Invertebrate- Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High			Yes		7	
3	Invertebrate- Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes		6	
3	Invertebrate- Bivalve	IMBIV02020	Alasmidonta atropurpurea (Cumberland Elktoe)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High			Yes		6.5	
3	Invertebrate- Bivalve	IMBIV02060	Alasmidonta raveneliana (Appalachian Elktoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	Medium			Yes		6.5	
3	Invertebrate- Bivalve	IMBIV10020	Cyrogenia stegaria (Eastern Fanshell Pearlymussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	Medium		Yes	Yes		8.5	
3	Invertebrate- Bivalve	IMBIV10020	Cyrogenia stegaria (Eastern Fanshell Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
3	Invertebrate- Bivalve	IMBIV10020	Cyrogenia stegaria (Eastern Fanshell Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes			6	
3	Invertebrate- Bivalve	IMBIV10020	Cyrogenia stegaria (Eastern Fanshell Pearlymussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Low		Yes	Yes		5.5	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	Medium		Yes	Yes		8.5	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes	Yes		7	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	High	Current	Low	High		Yes	Yes		3.25	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Industrial Discharge	Alt Chem Env Reg	0- 25%	High	Current	Low	High		Yes	Yes		3.25	
3	Invertebrate- Bivalve	IMBIV12010	Dromus dromas (Dromedary Pearlymussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes	Yes		9	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	High	Current	Low	High		Yes	Yes		3.25	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes		6	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Operation of Dams/Reservoirs	Alt Phys Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Recreational Use of Habitats (non-vehicular)	Alt Bio Comp/Int	0- 25%	High	Current	High	Medium			Yes		2.5	
3	Invertebrate- Bivalve	IMBIV16030	Epioblasma brevidens (Cumberlandian Combshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium		Yes	Yes		3	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	0- 25%	High	Current	Low	High	Yes	Yes			3.25	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16040	Epiblasma capsaeformis (Oyster Mussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Construction of Dams/Impoundments	Alt Conn	0- 25%	High	Current	Low	Medium	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes	Yes			7	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Operation of Dams/Reservoirs	Alt Phys Env Reg	0- 25%	High	Current	Low	Medium	Yes				3	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Recreational Use of Habitats (non-vehicular)	Alt Bio Comp/Int	0- 25%	High	Current	High	Medium	Yes				2.5	
3	Invertebrate- Bivalve	IMBIV16062	Epiblasma florentina walker (Tan Riffleshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium		Yes			6	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Invasive Exotic Species	Alt Bio Comp/Int	0- 25%	Medium	Current	Low	Low		Yes			2.5	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
3	Invertebrate- Bivalve	IMBIV16111	Epiblasma obliquata obliquata (Catspaw or Purple Cat's Paw Pearly Mussel)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes			6	
3	Invertebrate- Bivalve	IMBIV16120	Epiblasma othcaloagensis (Southern Acornshell)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
3	Invertebrate- Bivalve	IMBIV16120	Epiblasma othcaloagensis (Southern Acornshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
3	Invertebrate- Bivalve	IMBIV16120	Epiblasma othcaloagensis (Southern Acornshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes		12	
3	Invertebrate- Bivalve	IMBIV16120	Epiblasma othcaloagensis (Southern Acornshell)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High			Yes		13	
3	Invertebrate- Bivalve	IMBIV16120	Epiblasma othcaloagensis (Southern Acornshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium			Yes		12	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High					6.5	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV17050	Fusconaia cuneolus (Fine-rayed Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium	Yes				3	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV17040	Fusconaia edgariana (Shiny Pigtoe)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes	Yes			13.5	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes	Yes			10.5	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes	Yes			10.5	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Operation of Dams/Reservoirs	Alt Phys Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV20010	Hemistena lala (Cracking Pearlymussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Comp/Int	0- 25%	High	Current	Medium	Medium	Yes	Yes			2.75	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low	Yes	Yes			2.5	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV21110	Lampsilis abrupta (Pink Mucket)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV21010	Lampsilis altilis (Fine-lined Pocketbook)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Invertebrate- Bivalve	IMBIV21010	Lampsilis altilis (Fine-lined Pocketbook)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Invertebrate- Bivalve	IMBIV21010	Lampsilis altilis (Fine-lined Pocketbook)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Invertebrate- Bivalve	IMBIV21010	Lampsilis altilis (Fine-lined Pocketbook)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High				Yes	9.75	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High	Yes				12	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High	Yes				12	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High	Yes				12	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High	Yes				13	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	76- 100%	High	Current	Low	High	Yes				13	
3	Invertebrate- Bivalve	IMBIV21260	Lampsilis virescens (Alabama Lampmussel)	Recreational Vehicles	Alt Phys Hab Struc	76- 100%	High	Current	Medium	Medium	Yes				11	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV23010	Lemiox rimosus (Birdwing Pearly Mussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Construction of Dams/Impoundments	Alt Conn	76- 100%	High	Current	Low	Medium	Yes	Yes			12	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Construction of Dams/Impoundments	Alt Phys Hab Struc	76- 100%	V.High	Historic- Continuing	None	High	Yes	Yes			18	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High	Yes	Yes			12	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	76- 100%	High	Current	Medium	High	Yes	Yes			12	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High	Yes	Yes			12	
3	Invertebrate- Bivalve	IMBIV24020	Leptodea leptodon (Scaleshell)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	76- 100%	High	Current	Low	High	Yes	Yes			13	
3	Invertebrate- Bivalve	IMBIV28010	Medionidus acutissimus (Alabama Moccasinshell)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Invertebrate- Bivalve	IMBIV28010	Medionidus acutissimus (Alabama Moccasinshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
3	Invertebrate- Bivalve	IMBIV28040	Medionidus parvulus (Coosa Moccasinshell)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Invertebrate- Bivalve	IMBIV28040	Medionidus parvulus (Coosa Moccasinshell)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes	9	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	Medium	Yes	Yes			7.5	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Compl/Int	0- 25%	V.High	Current	Medium	Low	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Invasive Exotic Species	Alt Bio Compl/Int	0- 25%	Medium	Current	Low	Low	Yes	Yes			2.5	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV31030	Obovaria retusa (Ring Pink)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Incompatible Mining Practices	Alt Chem Env Reg	76- 100%	High	Historic- Continuing	Low	High	Yes	Yes			14	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Incompatible Mining Practices	Alt Phys Env Reg	76- 100%	High	Historic- Continuing	Low	High	Yes	Yes			14	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High		Yes			6.5	
3	Invertebrate- Bivalve	IMBIV32010	Pegias fabula (Little-wing Pearlymussel)	Recreational Use of Habitats (non-vehicular)	Alt Bio Compl/Int	0- 25%	V.High	Current	High	Medium		Yes			3	
3	Invertebrate- Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Channelization of Rivers/Streams	Alt Phys Hab Struc	76- 100%	High	Current	Low	High	Yes				13	
3	Invertebrate- Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Construction of Dams/Impoundments	Alt Conn	76- 100%	High	Current	Low	Medium	Yes				12	
3	Invertebrate- Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Construction of Dams/Impoundments	Alt Phys Hab Struc	76- 100%	V.High	Historic- Continuing	None	High	Yes				18	
3	Invertebrate- Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	76- 100%	High	Current	Low	High	Yes				13	
3	Invertebrate- Bivalve	IMBIV34010	Plethobasus cicatricosus (White Wartyback)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	76- 100%	High	Current	Low	High	Yes				13	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
3	Invertebrate- Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV39042	Quadrula cylindrica strigillata (Rough Rabbitsfoot Pearlymussel)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Channelization of Rivers/Streams	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	Low	Medium	Yes	Yes			7.5	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Complnt	0- 25%	V.High	Current	Medium	Low	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	0- 25%	High	Current	Medium	High	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High	Yes	Yes			3	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes	Yes			6.5	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV39050	Quadrula fragosa (Winged Mapleleaf)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	High	Yes				7	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Operation of Dams/Reservoirs	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV39070	Quadrula intermedia (Cumberland Monkeyface)	Residential Sewage/Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium	Yes				6	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV39150	Quadrula sparsa (Appalachian Monkeyface)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes				13.5	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High	Yes				9	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Incompatible Row Crop Agricultural Practices	Alt Phys Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Industrial Discharge	Alt Chem Env Reg	51- 75%	High	Current	Low	High	Yes				9.75	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV43020	Toxolasma cylindrellus (Pale Lilliput)	Recreational Vehicles	Alt Phys Hab Struc	0- 25%	V.High	Current	Medium	High	Yes				3.5	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Municipal Wastewater Treatment/Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Oil or Natural Gas Drilling	Alt Chem Env Reg	26- 50%	High	Current	Low	High	Yes				6.5	
3	Invertebrate- Bivalve	IMBIV47110	Villosa perpurpurea (Purple Bean)	Residential Sewage/Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium	Yes				9	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Construction of Dams/Impoundments	Alt Conn	51- 75%	High	Current	Low	Medium	Yes	Yes			9	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Construction of Dams/Impoundments	Alt Phys Hab Struc	51- 75%	V.High	Historic- Continuing	None	High	Yes	Yes			13.5	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Forest Type Conversion	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High	Yes				6	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Incompatible Grazing/Pasture Management Practices	Alt Chem Env Reg	26- 50%	High	Current	Medium	High	Yes	Yes			6	
3	Invertebrate- Bivalve	IMBIV47140	Villosa trabalis (Cumberland Bean)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes	Yes			10.5	

Aquatic Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	MSR	TNR	CUM	BR	CON	
3	Vertebrate- Fish	AFCKA02060	Noturus flavipinnis (Yellowfin Madtom)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
3	Vertebrate- Fish	AFCKA02210	Noturus stanauli (Pygmy Madtom)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes			9	
3	Vertebrate- Fish	AFCKA02210	Noturus stanauli (Pygmy Madtom)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Historic- Continuing	Low	High		Yes			7	
3	Vertebrate- Fish	AFCQC04010	Percina antesella (Amber Darter)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Vertebrate- Fish	AFCQC04010	Percina antesella (Amber Darter)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Vertebrate- Fish	AFCQC04010	Percina antesella (Amber Darter)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	26- 50%	High	Current	Low	High				Yes	6.5	
3	Vertebrate- Fish	AFCQC04320	Percina jenkinsi (Conasauga Logperch or Reticulate Logperch)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Vertebrate- Fish	AFCQC04320	Percina jenkinsi (Conasauga Logperch or Reticulate Logperch)	Incompatible Grazing/Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	9	
3	Vertebrate- Fish	AFCQC04320	Percina jenkinsi (Conasauga Logperch or Reticulate Logperch)	Incompatible Row Crop Agricultural Practices	Alt Chem Env Reg	51- 75%	High	Current	Low	High				Yes	9.75	
3	Vertebrate- Fish	AFCQC04290	Percina tanasi (Snail Darter)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Historic- Continuing	None	High		Yes			8	
3	Vertebrate- Fish	AFCQC04290	Percina tanasi (Snail Darter)	Construction of Dams/Impoundments	Alt Phys Hab Struc	26- 50%	V.High	Historic- Continuing	None	High		Yes			9	
3	Vertebrate- Fish	AFCJB31010	Phoxinus cumberlandensis (Mountain Blackside Dace)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes		9	
3	Vertebrate- Fish	AFCJB31010	Phoxinus cumberlandensis (Mountain Blackside Dace)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Historic- Continuing	Low	High			Yes		10.5	
3	Vertebrate- Fish	AFCJB31010	Phoxinus cumberlandensis (Mountain Blackside Dace)	Incompatible Mining Practices	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High			Yes		10.5	
3	Vertebrate- Fish	AFCJB31010	Phoxinus cumberlandensis (Mountain Blackside Dace)	Incompatible Species Management Practices	Alt Bio Comp/Int	26- 50%	High	Next 1- 5 Years	Medium	Low			Yes		4	
3	Vertebrate- Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Construction of Dams/Impoundments	Alt Conn	26- 50%	High	Historic- Continuing	None	V.High	Yes	Yes	Yes		9	
3	Vertebrate- Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Construction of Ditches/Dikes/Drainage/Diversion Systems	Alt Conn	0- 25%	High	Historic- Continuing	None	Medium	Yes				3.75	
3	Vertebrate- Fish	AFCAB01010	Polyodon spathula (Paddlefish)	Illegal Hunting/Fishing/Collection/Killing	Alt Bio Comp/Int	0- 25%	V.High	Current	Medium	Low	Yes	Yes	Yes		3	
3	Vertebrate- Fish	AFCAA02010	Scaphirhynchus albus (Pallid Sturgeon)	Channelization of Rivers/Streams	Alt Phys Env Reg	51- 75%	High	Historic- Continuing	Low	High	Yes				10.5	
3	Vertebrate- Fish	AFCAA02010	Scaphirhynchus albus (Pallid Sturgeon)	Excessive Competition/Predation by Native Species	Alt Bio Comp/Int	0- 25%	High	Current	Low	Low	Yes				2.75	
3	Vertebrate- Fish	AFCAA02010	Scaphirhynchus albus (Pallid Sturgeon)	Industrial Discharge	Alt Chem Env Reg	26- 50%	High	Current	Medium	Medium	Yes				5.5	

Subterranean Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	
1	Invertebrate- Crustacean	ICMAL02080	Amergoniscus paynei (a cave obligate isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes	6
1	Invertebrate- Crustacean	ICMAL02080	Amergoniscus paynei (a cave obligate isopod)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium					Yes	3
1	Invertebrate- Crustacean	ICMAL02080	Amergoniscus paynei (a cave obligate isopod)	Primary Residential Development	Alt Phys Env Reg	0- 25%	V.High	Next 1- 5 Years	None	V.High					Yes	4.25
1	Invertebrate- Crustacean	ICMAL02080	Amergoniscus paynei (a cave obligate isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium					Yes	3
1	Invertebrate- Crustacean	ICMAL25050	Bactrurus angulus (Cumberland Gap Cave Amphipod)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High					Yes	5
1	Invertebrate- Crustacean	ICMAL25050	Bactrurus angulus (Cumberland Gap Cave Amphipod)	Incompatible Mining Practices	Alt Chem Env Reg	26- 50%	High	Next 1- 5 Years	Low	V.High					Yes	6.5
1	Invertebrate- Crustacean	ICMAL25050	Bactrurus angulus (Cumberland Gap Cave Amphipod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Next 1- 5 Years	Low	Medium					Yes	5
1	Invertebrate- Crustacean	ICMAL01590	Caecidotea circulus (a cave obligate isopod)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
1	Invertebrate- Crustacean	ICMAL01590	Caecidotea circulus (a cave obligate isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
1	Invertebrate- Crustacean	ICMAL01590	Caecidotea circulus (a cave obligate isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Commercial / Industrial Development	Alt Phys Env Reg	0- 25%	High	Within 5- 10 Years	None	V.High				Yes		3.5
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Construction of Roads / Railroads / Utilities	Alt Phys Env Reg	0- 25%	High	Within 5- 10 Years	None	V.High				Yes		3.5
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Excessive Competition / Predation by Native Species	Alt Bio Comp/Int	26- 50%	High	Current	Low	High					Yes	5.5
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Within 5- 10 Years	None	V.High				Yes		3.5
1	Invertebrate- Crustacean	ICMAL01100	Caecidotea incurva (Incurved Cave Isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL01640	Caecidotea nortoni (a cave obligate isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Invertebrate- Crustacean	ICMAL01640	Caecidotea nortoni (a cave obligate isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL01120	Caecidotea recurvata (Southwestern Virginia Cave Isopod)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Crustacean	ICMAL01120	Caecidotea recurvata (Southwestern Virginia Cave Isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Invertebrate- Crustacean	ICMAL01120	Caecidotea recurvata (Southwestern Virginia Cave Isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
1	Invertebrate- Crustacean	ICMAL01680	Caecidotea scyphus (a cave obligate isopod)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
1	Invertebrate- Crustacean	ICMAL01680	Caecidotea scyphus (a cave obligate isopod)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Low			Yes			6.75
1	Invertebrate- Crustacean	ICMAL01200	Caecidotea stygia (a cave obligate isopod)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Crustacean	ICMAL01200	Caecidotea stygia (a cave obligate isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Crustacean	ICMAL01200	Caecidotea stygia (a cave obligate isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
1	Invertebrate- Crustacean	ICMAL07170	Cambarus hamulatus (Nickajack Cave Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Crustacean	ICMAL07170	Cambarus hamulatus (Nickajack Cave Crayfish)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
1	Invertebrate- Crustacean	ICCOPSWG01	Diacyclops sp. (Indiana Groundwater Copepod)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
1	Invertebrate- Crustacean	ICCOPSWG01	Diacyclops sp. (Indiana Groundwater Copepod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
1	Invertebrate- Crustacean	ICCOPSWG01	Diacyclops sp. (Indiana Groundwater Copepod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
1	Invertebrate- Crustacean	ICCOP02040	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Crustacean	ICCOP02040	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
1	Invertebrate- Crustacean	ICCOP02040	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium				Yes		3
1	Invertebrate- Crustacean	ICMAL78013	Ligidium elrodii hancockensis (a cave obligate isopod)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Crustacean	ICMAL78013	Ligidium elrodii hancockensis (a cave obligate isopod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
1	Invertebrate- Crustacean	ICMAL78013	Ligidium elrodii hancockensis (a cave obligate isopod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium				Yes		3
1	Invertebrate- Crustacean	ICMAL11010	Orconectes australis (Blind Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Crustacean	ICMAL11010	Orconectes australis (Blind Crayfish)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
1	Invertebrate- Crustacean	ICMAL11010	Orconectes australis (Blind Crayfish)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium				Yes		3
1	Invertebrate- Crustacean	ICMAL11010	Orconectes australis (Blind Crayfish)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Current	None	V.High				Yes		4.25
1	Invertebrate- Crustacean	ICMAL11010	Orconectes australis (Blind Crayfish)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
1	Invertebrate- Crustacean	ICMAL11460	Orconectes incomptus (Tennessee Cave Crayfish)	Construction of Roads / Railroads / Utilities	Alt Phys Env Reg	26- 50%	High	Current	None	V.High		Yes	Yes			8.5
1	Invertebrate- Crustacean	ICMAL11460	Orconectes incomptus (Tennessee Cave Crayfish)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes			6
1	Invertebrate- Crustacean	ICMAL11460	Orconectes incomptus (Tennessee Cave Crayfish)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High		Yes	Yes			3
1	Invertebrate- Crustacean	ICMAL11460	Orconectes incomptus (Tennessee Cave Crayfish)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	None	V.High		Yes	Yes			7.5
1	Invertebrate- Crustacean	ICMAL11460	Orconectes incomptus (Tennessee Cave Crayfish)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes			6
1	Invertebrate- Crustacean	ICMAL11070	Orconectes pellucidus (Eyeless Crayfish)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
1	Invertebrate- Crustacean	ICMAL11070	Orconectes pellucidus (Eyeless Crayfish)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High		Yes				7.5
1	Invertebrate- Crustacean	ICMAL11070	Orconectes pellucidus (Eyeless Crayfish)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes				9
1	Invertebrate- Crustacean	ICMAL05880	Stygobromus barryi (a cave obligate amphipod)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes		7.5
1	Invertebrate- Crustacean	ICMAL05880	Stygobromus barryi (a cave obligate amphipod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL05900	Stygobromus dicksoni (a cave obligate amphipod)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL05900	Stygobromus dicksoni (a cave obligate amphipod)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
1	Invertebrate- Crustacean	ICMAL05820	Stygobromus fecundus (a cave obligate amphipod)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Low				Yes		7.5
1	Invertebrate- Crustacean	ICMAL05730	Stygobromus finleyi (Finley's Cave Amphipod)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
1	Invertebrate- Crustacean	ICMAL05730	Stygobromus finleyi (Finley's Cave Amphipod)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	High	Current	Low	Low				Yes		8.25

Subterranean Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	
2	Invertebrate- Arachnid	ILARA30180	Kleptochthonius daemonicus (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA30180	Kleptochthonius daemonicus (a cave obligate pseudoscorpion)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA30220	Kleptochthonius infernalis (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA30220	Kleptochthonius infernalis (a cave obligate pseudoscorpion)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	High	Current	Medium	Low				Yes		7.5
2	Invertebrate- Arachnid	ILARA30240	Kleptochthonius magnus (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High				Yes		5
2	Invertebrate- Arachnid	ILARA30260	Kleptochthonius myopius (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High		Yes				7.5
2	Invertebrate- Arachnid	ILARA30260	Kleptochthonius myopius (a cave obligate pseudoscorpion)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	High	Current	Medium	Low		Yes				5
2	Invertebrate- Arachnid	ILARA30280	Kleptochthonius pluto (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Arachnid	ILARA30280	Kleptochthonius pluto (a cave obligate pseudoscorpion)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA30290	Kleptochthonius rex (a cave obligate pseudoscorpion)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Arachnid	ILARASWG03	Kleptochthonius sp. (a cave obligate pseudoscorpion)	Illegal Dumping	Alt Chem Env Reg	26- 50%	Medium	Current	Medium	Low				Yes		4.5
2	Invertebrate- Arachnid	ILARASWG03	Kleptochthonius sp. (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARASWG03	Kleptochthonius sp. (a cave obligate pseudoscorpion)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA30300	Kleptochthonius stygius (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Arachnid	ILARA30310	Kleptochthonius tantalus (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High				Yes		5
2	Invertebrate- Arachnid	ILARASWG04	Liocranoides sp. (a cave two-clawed spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes		7.5
2	Invertebrate- Arachnid	ILARASWG04	Liocranoides sp. (a cave two-clawed spider)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High				Yes		3
2	Invertebrate- Arachnid	ILARA36230	Nesticus barrowsi (a cave obligate spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9
2	Invertebrate- Arachnid	ILARA36230	Nesticus barrowsi (a cave obligate spider)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	High	Current	High	Low					Yes	4.5
2	Invertebrate- Arachnid	ILARA36030	Nesticus ditulus (Grassy Creek Cave Spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA36030	Nesticus ditulus (Grassy Creek Cave Spider)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA36040	Nesticus furtivus (Crystal Caverns Cave Spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA36040	Nesticus furtivus (Crystal Caverns Cave Spider)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High				Yes		11.25
2	Invertebrate- Arachnid	ILARA36040	Nesticus furtivus (Crystal Caverns Cave Spider)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	High	Current	Medium	Low				Yes		7.5
2	Invertebrate- Arachnid	ILARA36100	Nesticus paynei (a cave obligate spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	Yes	9
2	Invertebrate- Arachnid	ILARA36100	Nesticus paynei (a cave obligate spider)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	Yes	9
2	Invertebrate- Arachnid	ILARA36100	Nesticus paynei (a cave obligate spider)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High				Yes		8.5
2	Invertebrate- Arachnid	ILARA36260	Nesticus stygius (a cave obligate spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA36260	Nesticus stygius (a cave obligate spider)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARA36010	Nesticus tennesseensis (a spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes	Yes	9
2	Invertebrate- Arachnid	ILARA36010	Nesticus tennesseensis (a spider)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9
2	Invertebrate- Arachnid	ILARA36060	Nesticus valentini (Valentine's Cave Spider)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARAB2010	Phalangodes appalachius (Appalachian Cave Harvestman)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILARAB2010	Phalangodes appalachius (Appalachian Cave Harvestman)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Arachnid	ILACA02020	Poecilophysis weyerensis (a cave mite)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High				Yes		5
2	Invertebrate- Arachnid	ILARAU4010	Theromaster sp. 1 (a cave obligate harvestman)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Next 1- 5 Years	Medium	High				Yes		10
2	Invertebrate- Arachnid	ILARAD2130	Tyrannochthonius fiskei (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes		7.5
2	Invertebrate- Arachnid	ILARAD2290	Tyrannochthonius steevesi (a cave obligate pseudoscorpion)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes		7.5
2	Invertebrate- Arachnid	ILARAD2290	Tyrannochthonius steevesi (a cave obligate pseudoscorpion)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Flatworm	IPTUR04100	Sphalloplana buchanani (a cave obligate planarian)	Commercial / Industrial Development	Alt Phys Env Reg	76- 100%	High	Current	None	V.High		Yes				17
2	Invertebrate- Flatworm	IPTUR04100	Sphalloplana buchanani (a cave obligate planarian)	Illegal Dumping	Alt Chem Env Reg	76- 100%	High	Current	Medium	Medium		Yes				11
2	Invertebrate- Flatworm	IPTUR04100	Sphalloplana buchanani (a cave obligate planarian)	Industrial Discharge	Alt Chem Env Reg	76- 100%	High	Current	Low	High		Yes				13
2	Invertebrate- Flatworm	IPTUR04100	Sphalloplana buchanani (a cave obligate planarian)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium		Yes				12
2	Invertebrate- Flatworm	IPTURSWG01	Sphalloplana sp. (a cave obligate flatworm)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes		7.5
2	Invertebrate- Flatworm	IPTURSWG01	Sphalloplana sp. (a cave obligate flatworm)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Flatworm	IPTURSWG01	Sphalloplana sp. (a cave obligate flatworm)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
2	Invertebrate- Flatworm	IPTUR04X20	Sphalloplana sp. 2 (Rumbling Falls Cave Flatworm)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Flatworm	IPTUR04X20	Sphalloplana sp. 2 (Rumbling Falls Cave Flatworm)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Flatworm	IPTUR04X20	Sphalloplana sp. 2 (Rumbling Falls Cave Flatworm)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Flatworm	IPTUR04X20	Sphalloplana sp. 2 (Rumbling Falls Cave Flatworm)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOLJM020	Aloconota diversiseta (a rove beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOLJM020	Aloconota diversiseta (a rove beetle)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOLJM020	Aloconota diversiseta (a rove beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOLSWG01	Anillinus sp. (Flag Trail Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	Medium	Next 1- 5 Years	Medium	High				Yes		6.75
2	Invertebrate- Insect	IICLLSWG01	Arrhopalites sp. (a cave obligate springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICLLSWG01	Arrhopalites sp. (a cave obligate springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICLLSWG01	Arrhopalites sp. (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOL93040	Atheta lucifuga (Light Shunning Rove Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9

Subterranean Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	
2	Invertebrate- Insect	IICOL93040	Athela lucifuga (Light Shunning Rove Beetle)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOL93040	Athela lucifuga (Light Shunning Rove Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOL88060	Batriasymmodes jeanneli (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOL88060	Batriasymmodes jeanneli (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOL88060	Batriasymmodes jeanneli (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOL88070	Batriasymmodes quisnamus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
2	Invertebrate- Insect	IICOL88070	Batriasymmodes quisnamus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes		6
2	Invertebrate- Insect	IICOL88070	Batriasymmodes quisnamus (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High			Yes			8.5
2	Invertebrate- Insect	IICOL88070	Batriasymmodes quisnamus (a cave obligate beetle)	Primary Residential Development	Alt Phys Hab Struc	26- 50%	V.High	Current	None	V.High			Yes			9.5
2	Invertebrate- Insect	IICOL88070	Batriasymmodes quisnamus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes	Yes	Yes		9
2	Invertebrate- Insect	IICOLA8210	Batrissodes barri (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOLA8210	Batrissodes barri (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOLA8210	Batrissodes barri (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High		Yes				8.5
2	Invertebrate- Insect	IICOLA8210	Batrissodes barri (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
2	Invertebrate- Insect	IICOLA8220	Batrissodes clypeospecus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICOLA8220	Batrissodes clypeospecus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOLA8220	Batrissodes clypeospecus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOLA8230	Batrissodes ferulifer (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICOLA8230	Batrissodes ferulifer (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICOLA8230	Batrissodes ferulifer (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IICOLA8240	Batrissodes gemmoides (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
2	Invertebrate- Insect	IICOLA8240	Batrissodes gemmoides (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
2	Invertebrate- Insect	IICOLA8240	Batrissodes gemmoides (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Current	None	V.High		Yes				12.75
2	Invertebrate- Insect	IICOLA8240	Batrissodes gemmoides (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes				9
2	Invertebrate- Insect	IICOLA8250	Batrissodes gemmus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
2	Invertebrate- Insect	IICOLA8250	Batrissodes gemmus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High		Yes				9
2	Invertebrate- Insect	IICOLA8250	Batrissodes gemmus (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Current	None	V.High		Yes				12.75
2	Invertebrate- Insect	IICOLA8250	Batrissodes gemmus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium		Yes				9
2	Invertebrate- Insect	IICOLA8280	Batrissodes pannosus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOLA8280	Batrissodes pannosus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOLA8280	Batrissodes pannosus (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High			Yes			8.5
2	Invertebrate- Insect	IICOLA8280	Batrissodes pannosus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOLA8100	Batrissodes valentinei (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	Medium			Yes			5.5
2	Invertebrate- Insect	IICOLA8100	Batrissodes valentinei (a cave obligate beetle)	Incompatible Mining Practices	Alt Phys Env Reg	26- 50%	High	Historic- Continuing	Low	Medium			Yes			6.5
2	Invertebrate- Insect	IICOLA8100	Batrissodes valentinei (a cave obligate beetle)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOLA8100	Batrissodes valentinei (a cave obligate beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	Medium	Current	Medium	Medium			Yes			5
2	Invertebrate- Insect	IICOLA8100	Batrissodes valentinei (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOLJ5010	Darlingtonia kentuckensis (a ground beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Insect	IICOLJ5010	Darlingtonia kentuckensis (a ground beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICLL10060	Folsomia sp. 2 nr. macrochaeta (a cave obligate springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	Medium			Yes			8.25
2	Invertebrate- Insect	IICLL10060	Folsomia sp. 2 nr. macrochaeta (a cave obligate springtail)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes			7.5
2	Invertebrate- Insect	IICLL10060	Folsomia sp. 2 nr. macrochaeta (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IIORT9G030	Hadenococcus opilionides (a cave obligate cricket)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IIORT9G030	Hadenococcus opilionides (a cave obligate cricket)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IIORT9G030	Hadenococcus opilionides (a cave obligate cricket)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICLL09100	Hypogastrura sp. 1 (a viatica group springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	Medium			Yes			8.25
2	Invertebrate- Insect	IICLL09100	Hypogastrura sp. 1 (a viatica group springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IICLL09100	Hypogastrura sp. 1 (a viatica group springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Forest Type Conversion	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes			3
2	Invertebrate- Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IITHS01210	Litocampa sp. 5 (Rumbling Falls Cave Dipluran)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IITHSSWG02	Litocampa sp. TN #6 (Buffalo Cove Cave Dipluran)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Next 1- 5 Years	Low	High			Yes			11
2	Invertebrate- Insect	IITHSSWG02	Litocampa sp. TN #6 (Buffalo Cove Cave Dipluran)	Recreational Use of Habitats (non-vehicular)	Alt Bio Comp/Int	26- 50%	Medium	Current	Medium	Low			Yes			4.5
2	Invertebrate- Insect	IITHSSWG02	Litocampa sp. TN #6 (Buffalo Cove Cave Dipluran)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IITHSSWG03	Litocampa sp. TN #7 (Mill Hollow Cave Dipluran)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	Medium	Current	Medium	Medium			Yes			7.5
2	Invertebrate- Insect	IITHSSWG03	Litocampa sp. TN #7 (Mill Hollow Cave Dipluran)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9

Subterranean Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	
2	Invertebrate- Insect	IICOL4E360	Pseudanophthalmus insularis (Baker Station Cave Beetle)	Landfill Construction / Operation	Alt Chem Env Reg	51- 75%	High	Current	None	Medium						10.5
2	Invertebrate- Insect	IICOL4E360	Pseudanophthalmus insularis (Baker Station Cave Beetle)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Current	None	V.High			Yes			12.75
2	Invertebrate- Insect	IICOL4E380	Pseudanophthalmus jonesi (Grassy Cove Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High				Yes		5
2	Invertebrate- Insect	IICOL4E380	Pseudanophthalmus jonesi (Grassy Cove Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Next 1- 5 Years	Medium	High				Yes		2.5
2	Invertebrate- Insect	IICOL4E380	Pseudanophthalmus jonesi (Grassy Cove Cave Beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOL4EBY0	Pseudanophthalmus loganensis (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOL4EBY0	Pseudanophthalmus loganensis (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High		Yes				8.5
2	Invertebrate- Insect	IICOL4EBY0	Pseudanophthalmus loganensis (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
2	Invertebrate- Insect	IICOL4E410	Pseudanophthalmus longiceps (Long-headed Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOL4EBB0	Pseudanophthalmus macraeae (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4EBB0	Pseudanophthalmus macraeae (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4EBB0	Pseudanophthalmus macraeae (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
2	Invertebrate- Insect	IICOL4E430	Pseudanophthalmus nickajackensis (Nickajack Cave Beetle)	Construction of Dams / Impoundments	Alt Phys Env Reg	51- 75%	High	Current	None	Low				Yes		9.75
2	Invertebrate- Insect	IICOL4E440	Pseudanophthalmus nortoni (Norton's Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High				Yes		12
2	Invertebrate- Insect	IICOL4E440	Pseudanophthalmus nortoni (Norton's Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High				Yes		12
2	Invertebrate- Insect	IICOL4E440	Pseudanophthalmus nortoni (Norton's Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium				Yes		12
2	Invertebrate- Insect	IICOL4E450	Pseudanophthalmus occidentalis (Western Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	Medium	High		Yes				5
2	Invertebrate- Insect	IICOL4E460	Pseudanophthalmus pallidus (Pale Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E460	Pseudanophthalmus pallidus (Pale Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E460	Pseudanophthalmus pallidus (Pale Cave Beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	0- 25%	High	Current	Low	Low				Yes		2.75
2	Invertebrate- Insect	IICOL4E460	Pseudanophthalmus pallidus (Pale Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
2	Invertebrate- Insect	IICOL4E470	Pseudanophthalmus paradoxus (Ridgetop Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg		High	Next 1- 5 Years	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E490	Pseudanophthalmus paulus (Noblelets Cave Beetle)	Commercial / Industrial Development	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	None	V.High				Yes		7.5
2	Invertebrate- Insect	IICOL4E490	Pseudanophthalmus paulus (Noblelets Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E490	Pseudanophthalmus paulus (Noblelets Cave Beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	None	V.High				Yes		7.5
2	Invertebrate- Insect	IICOL4EBG0	Pseudanophthalmus productus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOL4EBG0	Pseudanophthalmus productus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOL4EBG0	Pseudanophthalmus productus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
2	Invertebrate- Insect	IICOL4E550	Pseudanophthalmus pusillus (Tiny Cave Beetle)	Commercial / Industrial Development	Alt Phys Env Reg	76- 100%	High	Current	None	V.High				Yes		17
2	Invertebrate- Insect	IICOL4E550	Pseudanophthalmus pusillus (Tiny Cave Beetle)	Primary Residential Development	Alt Phys Env Reg	76- 100%	High	Current	None	V.High				Yes		17
2	Invertebrate- Insect	IICOL4E550	Pseudanophthalmus pusillus (Tiny Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Low	Medium				Yes		12
2	Invertebrate- Insect	IICOL4E770	Pseudanophthalmus rotundatus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E770	Pseudanophthalmus rotundatus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4E770	Pseudanophthalmus rotundatus (a cave obligate beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	0- 25%	Medium	Current	Low	Low				Yes		2.5
2	Invertebrate- Insect	IICOL4E770	Pseudanophthalmus rotundatus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
2	Invertebrate- Insect	IICOL4EBK0	Pseudanophthalmus scutillus (New Mammoth Cave Beetle or Lean Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes			12
2	Invertebrate- Insect	IICOL4EBK0	Pseudanophthalmus scutillus (New Mammoth Cave Beetle or Lean Cave Beetle)	Incompatible Mining Practices	Alt Chem Env Reg	76- 100%	V.High	Next 1- 5 Years	Low	V.High			Yes			15
2	Invertebrate- Insect	IICOL4EBK0	Pseudanophthalmus scutillus (New Mammoth Cave Beetle or Lean Cave Beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	76- 100%	Medium	Current	High	Low			Yes			8
2	Invertebrate- Insect	IICOL4E630	Pseudanophthalmus sidus (Meredith Cave Beetle)	Secondary Home / Resort Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High				Yes		11.25
2	Invertebrate- Insect	IICOL4E640	Pseudanophthalmus simplex (Simple Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes				6
2	Invertebrate- Insect	IICOL4EX40	Pseudanophthalmus sp. 27 (Rumbling Falls Cave Beetle)	Construction of Roads / Railroads / Utilities	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOL4EX40	Pseudanophthalmus sp. 27 (Rumbling Falls Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4EX40	Pseudanophthalmus sp. 27 (Rumbling Falls Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4EX40	Pseudanophthalmus sp. 27 (Rumbling Falls Cave Beetle)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes		6
2	Invertebrate- Insect	IICOLSWG03	Pseudanophthalmus sp. TN #1 SCA or TN #28? (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Insect	IICOLSWG03	Pseudanophthalmus sp. TN #1 SCA or TN #28? (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOLSWG04	Pseudanophthalmus sp. TN #29 (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOLSWG02	Pseudanophthalmus sp. TN #30 (Ace in the Hole Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Next 1- 5 Years	Medium	High				Yes		10
2	Invertebrate- Insect	IICOL4EBP0	Pseudanophthalmus templetoni (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOL4EBP0	Pseudanophthalmus templetoni (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOL4EBP0	Pseudanophthalmus templetoni (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Insect	IICOL4EBT0	Pseudanophthalmus tennesseensis (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Within 5- 10 Years	Medium	High				Yes		4.5
2	Invertebrate- Insect	IICOL4EBT0	Pseudanophthalmus tennesseensis (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes		6
2	Invertebrate- Insect	IICOL4EBT0	Pseudanophthalmus tennesseensis (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High				Yes		8.5
2	Invertebrate- Insect	IICOL4EBT0	Pseudanophthalmus tennesseensis (a cave obligate beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	High	Current	Low	Low				Yes		5.5
2	Invertebrate- Insect	IICOL4EBT0	Pseudanophthalmus tennesseensis (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium				Yes		3
2	Invertebrate- Insect	IICOL4E660	Pseudanophthalmus tiresias (Indian Graves Point Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes				6
2	Invertebrate- Insect	IICOL4E660	Pseudanophthalmus tiresias (Indian Graves Point Cave Beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	High	Current	Low	Medium		Yes				6

Subterranean Species																	
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability						Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	SBR	
2	Invertebrate- Insect	IICOL4E660	Pseudanophthalmus tiresias (Indian Graves Point Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium						6	
2	Invertebrate- Insect	IICOL4E670	Pseudanophthalmus tullahoma (Duck River Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOL4E670	Pseudanophthalmus tullahoma (Duck River Cave Beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Next 1- 5 Years	None	V.High			Yes			7.5	
2	Invertebrate- Insect	IICOL4E670	Pseudanophthalmus tullahoma (Duck River Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IICOL4E680	Pseudanophthalmus unionis (Union County Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes	6	
2	Invertebrate- Insect	IICOL4E680	Pseudanophthalmus unionis (Union County Cave Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High					Yes	6	
2	Invertebrate- Insect	IICOL4E680	Pseudanophthalmus unionis (Union County Cave Beetle)	Secondary Home / Resort Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High					Yes	8.5	
2	Invertebrate- Insect	IICOL4EBS0	Pseudanophthalmus valentinei (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOL4EBS0	Pseudanophthalmus valentinei (a cave obligate beetle)	Primary Residential Development	Alt Phys Env Reg	26- 50%	High	Current	None	V.High			Yes			8.5	
2	Invertebrate- Insect	IICOL4EBS0	Pseudanophthalmus valentinei (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IICOL4EC10	Pseudanophthalmus vanburensis (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOL4EC10	Pseudanophthalmus vanburensis (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOL4EC10	Pseudanophthalmus vanburensis (a cave obligate beetle)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IICOL4EC10	Pseudanophthalmus vanburensis (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IICOL4E690	Pseudanophthalmus ventus (Blowing Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOL4E690	Pseudanophthalmus ventus (Blowing Cave Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	Medium	Current	Low	High			Yes			6	
2	Invertebrate- Insect	IICOL4E700	Pseudanophthalmus wallacei (Wallace's Cave Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9	
2	Invertebrate- Insect	IICOL4E700	Pseudanophthalmus wallacei (Wallace's Cave Beetle)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High					Yes	11.25	
2	Invertebrate- Insect	IIICLL01280	Pseudosinella aera (a cave obligate springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IIICLL01280	Pseudosinella aera (a cave obligate springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IIICLL01280	Pseudosinella aera (a cave obligate springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IIICLL01280	Pseudosinella aera (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IIICLL01200	Pseudosinella christianseni (Christiansen's Cave Springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IIICLL01200	Pseudosinella christianseni (Christiansen's Cave Springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes		6	
2	Invertebrate- Insect	IIICLL01200	Pseudosinella christianseni (Christiansen's Cave Springtail)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Next 1- 5 Years	None	V.High					Yes	3.75	
2	Invertebrate- Insect	IIICLL01200	Pseudosinella christianseni (Christiansen's Cave Springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes	Yes		6	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Incompatible Mining Practices	Alt Chem Env Reg	0- 25%	High	Next 1- 5 Years	Low	V.High			Yes			3.25	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium			Yes			3	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Primary Residential Development	Alt Phys Env Reg	0- 25%	High	Current	None	V.High			Yes			4.25	
2	Invertebrate- Insect	IIICLL01060	Pseudosinella hirsuta (Hirsute Cave Springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium		Yes	Yes	Yes	Yes	6	
2	Invertebrate- Insect	IIICLL01030	Pseudosinella orba (a cave obligate springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes			3	
2	Invertebrate- Insect	IIICLL01030	Pseudosinella orba (a cave obligate springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes		6	
2	Invertebrate- Insect	IIICLL01030	Pseudosinella orba (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes	Yes		6	
2	Invertebrate- Insect	IIICLL01290	Pseudosinella sp. 5 (Swamp River Cave Pseudosinella)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IIICLL01290	Pseudosinella sp. 5 (Swamp River Cave Pseudosinella)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IIICLL01290	Pseudosinella sp. 5 (Swamp River Cave Pseudosinella)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IIICLL01290	Pseudosinella sp. 5 (Swamp River Cave Pseudosinella)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IIICLL01300	Pseudosinella sp. 6 (a cave obligate springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes			12	
2	Invertebrate- Insect	IIICLL01300	Pseudosinella sp. 6 (a cave obligate springtail)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Medium			Yes			8.25	
2	Invertebrate- Insect	IIICLL01300	Pseudosinella sp. 6 (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	76- 100%	High	Current	Medium	High			Yes			12	
2	Invertebrate- Insect	IIICLL01310	Pseudosinella sp. 7 nr. Nata (a cave obligate springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IIICLL01310	Pseudosinella sp. 7 nr. Nata (a cave obligate springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IIICLL01310	Pseudosinella sp. 7 nr. Nata (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IIICLL01250	Pseudosinella spinosa (Spinose Cave Springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9	
2	Invertebrate- Insect	IIICLL01250	Pseudosinella spinosa (Spinose Cave Springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IIICLL01250	Pseudosinella spinosa (Spinose Cave Springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6	
2	Invertebrate- Insect	IIICLL01250	Pseudosinella spinosa (Spinose Cave Springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IICOLA7050	Ptomaphagus barri (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IICOLA7050	Ptomaphagus barri (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IICOLA7050	Ptomaphagus barri (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IICOLA7060	Ptomaphagus chromolithus (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9	
2	Invertebrate- Insect	IICOLA7060	Ptomaphagus chromolithus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9	
2	Invertebrate- Insect	IICOLA7090	Ptomaphagus fecundus (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6	
2	Invertebrate- Insect	IICOLA7090	Ptomaphagus fecundus (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium			Yes			3	
2	Invertebrate- Insect	IICOLA7140	Ptomaphagus hubrichti (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes	Yes		3	
2	Invertebrate- Insect	IICOLA7140	Ptomaphagus hubrichti (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes	Yes		6	

Subterranean Species																
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability					Stress Score
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	
2	Invertebrate- Insect	IICOLA7140	Plomaphagus hubrichti (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium						6
2	Invertebrate- Insect	IICLL05090	Sinella basidens (a cave obligate springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Insect	IICLL05090	Sinella basidens (a cave obligate springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Within 5- 10 Years	Low	Medium			Yes			6.75
2	Invertebrate- Insect	IICOLSWG05	Trechus cumberlandus (Cumberland Ground Beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Insect	IICOLSWG05	Trechus cumberlandus (Cumberland Ground Beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Current	Medium	High			Yes			3
2	Invertebrate- Insect	IICOLSWG05	Trechus cumberlandus (Cumberland Ground Beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICOLSWG07	Trechus tennesseensis tennesseensis (a carabid beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Insect	IICOLSWG07	Trechus tennesseensis tennesseensis (a carabid beetle)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High				Yes		11.25
2	Invertebrate- Insect	IICOLSWG07	Trechus tennesseensis tennesseensis (a carabid beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IICOL6G110	Trechus tuckaleechee (a carabid beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High					Yes	9
2	Invertebrate- Insect	IICOL6G110	Trechus tuckaleechee (a carabid beetle)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	High	Current	High	Low					Yes	6.75
2	Invertebrate- Insect	IICOL6G110	Trechus tuckaleechee (a carabid beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium					Yes	6
2	Invertebrate- Insect	IICOL6G110	Trechus tuckaleechee (a carabid beetle)	Secondary Home / Resort Development	Alt Phys Hab Struc	51- 75%	V.High	Current	None	V.High					Yes	14.25
2	Invertebrate- Insect	IICLL27010	Triacanthella copelandi (Copeland's Cave Springtail)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICLL27010	Triacanthella copelandi (Copeland's Cave Springtail)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICLL27010	Triacanthella copelandi (Copeland's Cave Springtail)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Insect	IICLL27010	Triacanthella copelandi (Copeland's Cave Springtail)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Insect	IICOLJE030	Tychobythinus strinatii (a cave obligate beetle)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICOLJE030	Tychobythinus strinatii (a cave obligate beetle)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Insect	IICOLJE030	Tychobythinus strinatii (a cave obligate beetle)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNISWG01	Chaetaspis mollis (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNISWG01	Chaetaspis mollis (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNISWG01	Chaetaspis mollis (a cave obligate millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Low			Yes			7.5
2	Invertebrate- Millipede	ITUNISWG01	Chaetaspis mollis (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNI63020	Chaetaspis sp. 1 (Thunder Run Cave Millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNI63020	Chaetaspis sp. 1 (Thunder Run Cave Millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNI63020	Chaetaspis sp. 1 (Thunder Run Cave Millipede)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNI63020	Chaetaspis sp. 1 (Thunder Run Cave Millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNISWG03	Pseudotremia acheron (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Millipede	ITUNISWG03	Pseudotremia acheron (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Millipede	ITUNISWG03	Pseudotremia acheron (a cave obligate millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	0- 25%	Medium	Current	Low	Low			Yes			2.5
2	Invertebrate- Millipede	ITUNISWG03	Pseudotremia acheron (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Millipede	ITUNIO3200	Pseudotremia cercops (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Millipede	ITUNIO3200	Pseudotremia cercops (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNIO3200	Pseudotremia cercops (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNIO3210	Pseudotremia deprehendor (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Millipede	ITUNIO3210	Pseudotremia deprehendor (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High				Yes		9
2	Invertebrate- Millipede	ITUNIO3210	Pseudotremia deprehendor (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes		9
2	Invertebrate- Millipede	ITUNIO3240	Pseudotremia lethe (a cave obligate millipede)	Construction of Roads / Railroads / Utilities	Alt Phys Env Reg	51- 75%	High	Current	None	V.High			Yes			12.75
2	Invertebrate- Millipede	ITUNIO3240	Pseudotremia lethe (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNIO3240	Pseudotremia lethe (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNIO3240	Pseudotremia lethe (a cave obligate millipede)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High			Yes			11.25
2	Invertebrate- Millipede	ITUNIO3240	Pseudotremia lethe (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes			9
2	Invertebrate- Millipede	ITUNIO3250	Pseudotremia lictor (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes			9
2	Invertebrate- Millipede	ITUNIO3290	Pseudotremia rhadamanthus (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Millipede	ITUNISWG04	Pseudotremia sp. (new TN species #4 = SCA #4) (Wallace's Cave Millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes			12
2	Invertebrate- Millipede	ITUNISWG04	Pseudotremia sp. (new TN species #4 = SCA #4) (Wallace's Cave Millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium			Yes			6
2	Invertebrate- Millipede	ITUNISWG05	Pseudotremia sp. (new TN species #5 = SCA #3) (Mann's Cave Millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High			Yes			6
2	Invertebrate- Millipede	ITUNISWG05	Pseudotremia sp. (new TN species #5 = SCA #3) (Mann's Cave Millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	76- 100%	High	Current	Medium	High			Yes			12
2	Invertebrate- Millipede	ITUNISWG05	Pseudotremia sp. (new TN species #5 = SCA #3) (Mann's Cave Millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium			Yes			3
2	Invertebrate- Millipede	ITUNISWG06	Pseudotremia sp. (new TN species #6 = SCA #1) (Roebuck's Cave Millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Millipede	ITUNISWG06	Pseudotremia sp. (new TN species #6 = SCA #1) (Roebuck's Cave Millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Medium			Yes			8.25
2	Invertebrate- Millipede	ITUNISWG07	Pseudotremia sp. (new TN species #7 = SCA #2) (Garland's Cave Millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	76- 100%	High	Next 1- 5 Years	Medium	High			Yes			10
2	Invertebrate- Millipede	ITUNISWG07	Pseudotremia sp. (new TN species #7 = SCA #2) (Garland's Cave Millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	Medium	Current	Low	Medium			Yes			5.5
2	Invertebrate- Millipede	ITUNIO3070	Pseudotremia valga (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Millipede	ITUNIO3070	Pseudotremia valga (a cave obligate millipede)	Incompatible Mining Practices	Alt Chem Env Reg	51- 75%	High	Next 1- 5 Years	Low	V.High			Yes			9.75
2	Invertebrate- Millipede	ITUNIO1030	Scoterpes copei (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High			Yes			7.5
2	Invertebrate- Millipede	ITUNIO1030	Scoterpes copei (a cave obligate millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Medium			Yes			8.25

Subterranean Species																		
Tier	Taxonomic Group	NS ELCODE	Species Name	Source of Stress	Stress Cat.	Assessed Species/Stress Values					Regions of Applicability						Stress Score	
						% Pops.	Severity	Timing	Reversib.	Contrib.	WU	CU	NB	CR	RV	SBR		
2	Invertebrate- Millipede	ITUNI01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes				6
2	Invertebrate- Millipede	ITUNI01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes				6
2	Invertebrate- Millipede	ITUNI01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes				6
2	Invertebrate- Millipede	ITUNI01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	26- 50%	Medium	Current	Low	Medium				Yes				5.5
2	Invertebrate- Millipede	ITUNI01040	Scoterpes ventus (Eastern Tennessee Cave Millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes				6
2	Invertebrate- Millipede	ITUNI70010	Tetracion jonesi (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	0- 25%	High	Next 1- 5 Years	Medium	High				Yes				2.5
2	Invertebrate- Millipede	ITUNI70010	Tetracion jonesi (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	0- 25%	High	Next 1- 5 Years	Medium	High				Yes				2.5
2	Invertebrate- Millipede	ITUNI70010	Tetracion jonesi (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	0- 25%	High	Next 1- 5 Years	Low	Medium				Yes				2.5
2	Invertebrate- Millipede	ITUNI70020	Tetracion tennesseensis (a cave obligate millipede)	Incompatible Forestry Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes				6
2	Invertebrate- Millipede	ITUNI70020	Tetracion tennesseensis (a cave obligate millipede)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	26- 50%	High	Current	Medium	High				Yes				6
2	Invertebrate- Millipede	ITUNI70020	Tetracion tennesseensis (a cave obligate millipede)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	0- 25%	High	Current	Low	Medium				Yes				3
2	Invertebrate- Millipede	ITUNI70020	Tetracion tennesseensis (a cave obligate millipede)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	0- 25%	Medium	Current	Low	Medium				Yes				2.75
2	Invertebrate- Millipede	ITUNI70020	Tetracion tennesseensis (a cave obligate millipede)	Residential Sewage / Septic Systems	Alt Chem Env Reg	26- 50%	High	Current	Low	Medium				Yes				6
2	Invertebrate- Roundworm	IAOLI07020	Cambarincola alienus (a cave obligate roundworm)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High				Yes				7.5
2	Invertebrate- Roundworm	IAOLI07020	Cambarincola alienus (a cave obligate roundworm)	Municipal Wastewater Treatment / Stormwater Runoff	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium				Yes				9
2	Invertebrate- Roundworm	IAOLI07020	Cambarincola alienus (a cave obligate roundworm)	Recreational Use of Habitats (non-vehicular)	Alt Phys Env Reg	51- 75%	Medium	Current	Low	Medium				Yes				8.25
2	Invertebrate- Roundworm	IAOLI07050	Cambarincola leptadenus (a cave obligate roundworm)	Forest Type Conversion	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Low	High		Yes						8.25
2	Invertebrate- Roundworm	IAOLI07050	Cambarincola leptadenus (a cave obligate roundworm)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	Medium	High		Yes						7.5
2	Invertebrate- Roundworm	IAOLI07060	Cambarincola marthae (a cave obligate roundworm)	Construction of Roads / Railroads / Utilities	Alt Phys Env Reg	51- 75%	High	Current	None	V.High			Yes					12.75
2	Invertebrate- Roundworm	IAOLI07060	Cambarincola marthae (a cave obligate roundworm)	Incompatible Forestry Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes					9
2	Invertebrate- Roundworm	IAOLI07060	Cambarincola marthae (a cave obligate roundworm)	Incompatible Grazing / Pasture Management Practices	Alt Phys Env Reg	51- 75%	High	Current	Medium	High			Yes					9
2	Invertebrate- Roundworm	IAOLI07060	Cambarincola marthae (a cave obligate roundworm)	Primary Residential Development	Alt Phys Env Reg	51- 75%	High	Next 1- 5 Years	None	V.High			Yes					11.25
2	Invertebrate- Roundworm	IAOLI07060	Cambarincola marthae (a cave obligate roundworm)	Residential Sewage / Septic Systems	Alt Chem Env Reg	51- 75%	High	Current	Low	Medium			Yes					9

APPENDIX F. Conservation Actions for GCN Species and Habitats

List of Specific Actions			
Action ID	Action Level	General Action	Specific Action Description
1	Regional	Fee-title Ownership	Use federal/state/private funding sources to acquire critical units of aquatic, subterranean, and terrestrial habitats which provide species protection, buffering, connectivity, and/or perpetuation of natural processes.
2	Statewide	Fee-title Ownership	Revive TN Protection Planning Committee to coordinate land acquisition priorities among state/federal agencies and non-governmental organizations.
3	Regional	Permanent Protective Easements	Use federal/state/private funding sources to acquire permanent easements within critical units of aquatic, subterranean, and terrestrial habitats which provide species protection, buffering, connectivity, and/or perpetuation of natural processes.
4	Statewide	Permanent Protective Easements	Revive TN Protection Planning Committee to coordinate acquisition of permanent protective easements among state/federal agencies and non-governmental organizations.
5	Statewide	Communications & Public Relations	Develop a multi-media public outreach campaign to promote the availability of government-funded incentive programs to private landowners.
6	Regional	Communications & Public Relations	Develop a multi-media public outreach campaign to promote awareness of the negative effects of invasive exotic species.
7	Statewide	Communications & Public Relations	Develop a multi-media public outreach campaign to promote the need for conserving rare, threatened, or endangered species and habitats.
8	Regional	Conservation Planning	Develop/participate in regional conservation planning initiatives sponsored by federal and state agencies (e.g. TDEC Recreation Management Plan, State Park planning, State Forest planning, TWRA regional planning, USFWS Joint Venture planning, TVA Reservoir Operations study, etc.)
9	Regional	Conservation Planning	Develop/participate in regional planning initiatives sponsored by non-governmental organizations or public/private partnerships (e.g. TNC ecoregional planning, WWF watershed planning, Cumberland Region Tomorrow - Community Quality Growth Planning, Partners In Flight, Audubon - Important Bird Areas, Habitat Conservation Plans, etc.).
10	Statewide	Conservation Planning	Develop central database to combine/reconcile/maintain state & federal agency, non-governmental organization, and university sources of data for target species and habitats.
11	Statewide	Formal Education, Training, Outdoor Education, & Recreation	Develop outdoor education and recreation programs that inform the public about the effects of recreational vehicles and various other recreational uses on target species and habitats.
12	Statewide	Formal Education, Training, Outdoor Education, & Recreation	Incorporate information about protection of target species and habitats into forestry training programs such as the Cooperative Extension Master Logger Program, TN Wildlife Resources Agency Forestry Outreach, and other formal education programs.
13		Formal Education, Training, Outdoor Education, & Recreation	Develop brochures, land managers guides, posters, and other educational aids for the public that address conservation issues affecting target species and habitats.
14	Statewide	Formal Education, Training, Outdoor Education, & Recreation	Develop school curricula in conjunction with the TN Department of Education to emphasize local, state, & regional conservation issues affecting target species and habitats.
15	Regional	Formal Education, Training, Outdoor Education, & Recreation	Deliver formal presentations for classrooms, public-interest groups, academic conferences, clubs, and other groups to promote conservation issues affecting target species and habitats.
16	Regional	Monitoring	Develop a monitoring program to measure bioaccumulation of contaminants in target species (e.g. fish, mussels, turtles, birds, bats, etc.).
17	Statewide	Monitoring	Expand network of trained volunteers to conduct various types of environmental monitoring for target species and habitats (e.g. "Adopt A Stream" program, PIF bird counts, etc.).
18	Statewide	Monitoring	Develop GIS remote-sensing program to analyze statewide land cover changes, map habitats, evaluate land use practices, etc. at shorter intervals or in greater detail than current national-level programs.
19	Regional	Research	Conduct scientific surveys to discern the geographical distributions of lesser known target species.
20	Regional	Research	Conduct research on life history and ecological needs of target species to establish guidelines for determining population viability.
21		Research	Establish guidelines for determining population viability standards for target species (i.e. size, condition, & landscape context).
22	Regional	Research	Conduct research on problems (i.e. stresses and sources of stress) affecting target species and habitats.
23	Regional	Research	Conduct research to map karst systems, delineate underground watersheds, and identify above-ground linkages to subterranean habitats.
24	Regional	Compatible Resource Use	Utilize government funded incentive programs (e.g. CRP, EQIP, CSP, WRP, WHIP, FLEP, and LIP) to encourage private landowners to protect water quality for target species in critical units of aquatic, subterranean, or terrestrial habitats.
25	Regional	Compatible Resource Use	Utilize government funded incentive programs (e.g. FLEP, WHIP, CRP, EQIP, LIP, Forest Stewardship Program, and Forest Legacy Program) to encourage private landowners to restore and/or protect native forest systems for target species in critical units of aquatic, subterranean, or terrestrial habitats.
26		Compatible Resource Use	Utilize government-funded incentive programs such as WHIP, CRP, WRP, GRP, EQIP, CSP, FLEP, LIP, and rare species protection funding such as FWS Section 6 and other funds to manage or restore populations of target species in critical units of aquatic, subterranean, or terrestrial habitats.
27	Regional	Compatible Resource Use	Develop formal management agreements between private landowners, agencies, and non-governmental organizations to provide financial/technical assistance to manage target species within critical units of aquatic, subterranean, and terrestrial habitats (e.g. TWRA management agreements, USFWS Safe Harbor program, TNC cooperative management agreements, etc.).
28	Regional	Compatible Resource Use	Install exclusionary devices (e.g. gates, barriers, trespass detection equipment, etc.) to limit access to critical units of aquatic, subterranean, or terrestrial habitats for target species vulnerable to human disturbance.
29	Regional	Compatible Resource Use	Participate in environmental review procedures to prevent/mitigate construction of dams, impoundments, drainage ditches, levees, stormwater culverts, and other water diversionary structures that affect target species in critical units of aquatic, subterranean, or terrestrial habitats.
30	Regional	Compatible Resource Use	Participate in environmental review procedures to prevent/mitigate coal mining and oil & natural gas drilling activities that affect target species in critical units of aquatic, subterranean, and terrestrial habitats.
31	Statewide	Compatible Resource Use	Encourage adoption of more stringent sustainable forestry practices on state forests and other public lands that contain critical units of aquatic, subterranean, and terrestrial habitats.
32	Regional	Conservation Area Management	Participate in activities to establish/adjust state wildlife "sanctuaries" and/or federally designated critical habitat areas for target species on multi-use public/private conservation areas across the state.
33	Regional	Conservation Area Management	Develop and implement conservation plans for all public/private conservation areas across the state based on ecosystem-level management principles.
34	Regional	Conservation Area Management	Develop recreation management plans that outline strict guidelines on high-impact recreational uses on public/private conservation areas across the state.
35		Conservation Area Management	Discourage conversion of native habitats to semi/non-natural land types (e.g. pine plantations, golf courses, etc.) on public and private conservation areas across the state.
36	Regional	Control/Prevention of Invasive Exotic Species & Pathogens	Conduct rapid ecological assessments of key populations of target species and critical units of aquatic, subterranean, and terrestrial habitats most susceptible to invasive exotic species & pathogens.
37	Regional	Control/Prevention of Invasive Exotic Species & Pathogens	Implement integrated pest management practices to control or prevent invasive exotic species & pathogens from key populations of target species and critical units of aquatic, subterranean, and terrestrial habitats.
38	Regional	Control/Prevention of Invasive Exotic Species & Pathogens	Organize a TN Exotic Pest Animal Council to coordinate activities with the TN Exotic Pest Plant Council and serve as a clearinghouse of information & decisionmaking to control or prevent outbreaks of invasive exotic species.

List of Specific Actions			
Action ID	Action Level	General Action	Specific Action Description
39	Statewide	Control/Prevention of Invasive Exotic Species & Pathogens	Establish a central GIS database to track occurrences of severe category invasive exotic species and maintain information on control measures & current management efforts statewide.
40	Regional	Control/Prevention of Invasive Exotic Species & Pathogens	Support programs that advocate usage of native or non-invasive exotic plants in ornamental horticulture, erosion control, and wildlife habitat plantings.
41	Regional	Habitat/Natural Processes Restoration	Reintroduce fire via prescribed burning into fire-dependent grassland & woodland systems within critical units of terrestrial habitats.
42	Regional	Habitat/Natural Processes Restoration	Reclaim abandoned coal mines and streams affected by acid mine drainage within critical units of aquatic, subterranean, and terrestrial habitats.
43	Regional	Habitat/Natural Processes Restoration	Restore degraded/converted wetland systems within critical units of aquatic, subterranean, and terrestrial habitats.
44	Regional	Habitat/Natural Processes Restoration	Restore in-stream flows and physical structure to channelized or impounded streams within critical units of aquatic, subterranean, and terrestrial habitats.
45	Regional	Habitat/Natural Processes Restoration	Restore degraded forests and pine plantations to appropriate natural ecological systems in or near critical units of aquatic, subterranean, and terrestrial habitats.
46	Regional	Habitat/Natural Processes Restoration	Restore pastures and other agricultural lands to appropriate natural ecological systems in or near critical units of aquatic, subterranean, and terrestrial habitats.
47	Regional	Habitat/Natural Processes Restoration	Remove or modify physical barriers that disrupt habitat/population connectivity for target species within critical units of aquatic, subterranean, and terrestrial habitats.
48	Regional	Species Restoration	Reintroduce extirpated and historic populations of priority species to appropriate habitats across the state.
49	Statewide	Species Restoration	Utilize ex-situ conservation methods (e.g. captive breeding, gene banking, etc.) to conserve populations of target species on the verge of rangewide extinction or local extinction of unique genotypes.
50	Statewide	Species Restoration	Provide funding to permitted institutions/individuals for rehabilitation of priority target species across the state.
51	Statewide	Species Restoration	Establish a freshwater mollusc propagation facility to increase populations of mussels and aquatic snails for habitat reintroduction.
52	Statewide	Alliances & Partnerships	Develop strategic alliance with Farm Bureau, Natural Resource Conservation Service, Farm Service Agency, TN Division of Water Pollution Control, Cooperative Extension, and other institutions to improve agricultural and animal production industries that affect target species and habitats.
53	Statewide	Alliances & Partnerships	Develop strategic alliance with U.S. Army Corp of Engineers, TN Valley Authority, water utility boards, and other institutions to address water management issues that affect target species and habitats.
54	Regional	Alliances & Partnerships	Develop strategic alliance with TN Dept. of Transportation, county mayors, municipalities, city/county planners, private developers and others to address urban and rural development practices that affect target species and habitats.
55	Regional	Alliances & Partnerships	Develop strategic alliance with TN Division of Forestry, TN Forestry Association, U.S. Forest Service, private timber companies, non-governmental organizations, universities, and other forest resource managers to address forestry practices that affect target species and habitats.
56	Statewide	Alliances & Partnerships	Develop strategic alliance with TN Division of Geology, Office of Surface Mining, U.S. Geological Survey, TN Oil & Gas Association, private companies, and other institutions to address mining and drilling issues that affect target species and habitats.
57	Statewide	Alliances & Partnerships	Develop strategic alliance with the U.S. Environmental Protection Agency, TN Dept. of Environment and Conservation, non-governmental organizations, and other related environmental regulatory agencies to address air and water quality issues affecting target species and habitats.
58	Statewide	Alliances & Partnerships	Develop faunal and/or habitat working groups (e.g. bat working group, cave working group, Partners In Flight/TN Ornithological Society working group, etc.) composed of academics, government and non-government biologists, & others to identify research issues, conduct research, fill data gaps, and disperse scientific information.
59	Statewide	Alliances & Partnerships	Partner with TN Division of Forestry, TN Wildlife Resources Agency, TN Division of Natural Heritage, TN State Parks, U.S. Forest Service, U.S. Fish & Wildlife Service, The Nature Conservancy, and other institutions to establish a statewide burn crew to conduct prescribed burns in fire-dependent grassland & woodland habitats.
60	Regional	Alliances & Partnerships	Develop strategic alliances with state/federal agencies, non-governmental organizations, stakeholders, and other groups focused on improvement of regional landscapes or special natural resources that contain target species in need of conservation (e.g. Alliance for the Cumberlands, Mississippi River Corridor, Cumberland Region Tomorrow, cave conservation groups, etc.).
61	Statewide	Alliances & Partnerships	Partner with state/federal agencies, non-governmental organizations, and various institutions in other states/countries to develop conservation strategies to manage wide-ranging target species and/or abate problems affecting species and habitats of regional/international concern (e.g. U.S. Fish & Wildlife Service Joint Ventures, international partnerships for neo-tropical migratory birds, Southeast Aquatic Resource Partnership, etc.).
62	Statewide	Conservation Finance	Establish a private capital conservation fund to finance and/or provide leverage for priority land acquisition deals across the state.
63	Regional	Conservation Finance	Solicit donations from private individuals and foundations for conservation work being conducted by various state/federal agencies and non-governmental organizations.
64	Statewide	Conservation Finance	Incorporate network of trained volunteers within state agencies as "in-kind" services match for federal funds.
65	Statewide	Institutional Improvement	Increase staffing and funding of state agencies and local offices of federal agencies responsible for managing target species/habitats or monitoring environmental quality.
66	Statewide	Institutional Improvement	Increase staffing and funding of non-governmental organizations that either manage or assist with the protection of target species and habitats.
67	Regional	Institutional Improvement	Create opportunities for cost-shared positions among state agencies, municipal/county governments, non-governmental organizations, and/or other institutions to increase the number of biological staff working on protection of target species and habitats.
68	Regional	Conservation Enterprises	Develop forest banking programs for forest systems at high risk of destruction or degradation within critical units of aquatic, subterranean, or terrestrial habitats.
69	Statewide	Conservation Enterprises	Create ecotourism-based local economies to deter development or natural resource extraction pressures in economically depressed areas that contain critical units of aquatic, subterranean, or terrestrial habitats.
70	Regional	Market Forces	Encourage municipal & county governments to subsidize/offer additional incentives to developers that utilize "green" methods of construction, design, and land-use planning in large residential or commercial developments.
72	Statewide	Compliance & Enforcement	Develop multi-agency network of professional aquatic biologists to assist TN Div. of Water Pollution Control in gathering documentation and supporting evidence to enforce existing water quality laws.
73	Regional	Compliance & Enforcement	Increase compliance monitoring of aquatic resource alteration permits, storm water, & other permits within critical units of aquatic and subterranean habitats.
74	Statewide	Compliance & Enforcement	Work with TN Wildlife Resources Agency and U.S. Fish & Wildlife Service to enforce compliance with rules and other stipulations for scientific collector permits and commercial licenses.
75	Statewide	Compliance & Enforcement	Provide TWRA wildlife officers with non-game funding to assist with compliance and enforcement of state laws protecting target species and habitats.
76	Regional	Land-use Planning & Zoning	Participate in the review and/or revision of county urban growth management plans.
77	Regional	Land-use Planning & Zoning	Encourage municipal and county governments to adopt zoning ordinances that limit or regulate development within critical units of aquatic, subterranean, and terrestrial habitats.
78	Statewide	Land-use Planning & Zoning	Provide funding/resources for the completion of the state's property owner base mapping project for counties that contain critical units of aquatic, subterranean, and terrestrial habitats.
79	Statewide	Legislation	Propose/support state legislation to remove or prevent passage of private legislative acts that negatively effect target species and habitats.
80	Statewide	Legislation	Propose/support state and federal legislation to create dedicated funding sources for conservation programs, acquisition, and/or restoration of critical units of aquatic, subterranean, and terrestrial habitats.
81	Statewide	Legislation	Propose/support state legislation to restrict importation or usage of severe category invasive exotic animal and plant species in the state.
82	Statewide	Legislation	Propose/support state legislation to strengthen penalties for laws regarding poaching, illegal collection, or killing of target species and for violation of current environmental quality or habitat destruction laws.

List of Specific Actions			
Action ID	Action Level	General Action	Specific Action Description
83	Statewide	Legislation	Propose/support federal legislation to support CITES and to increase penalties for illegal trade in wildlife.
84	Statewide	Legislation	Propose/support state & federal legislation to modify current "greenbelt" laws to include tax breaks to landowners for protection of target species and habitats or vital ecosystem services such as forest/watershed protection.
85	Statewide	Legislation	Propose/support federal legislation to fund a national or regional conservation initiative regarding aquatic resource protection (e.g. National/Southeast Aquatic Resources Partnership).
86	Statewide	Legislation	Propose/support state legislation urging the federal Office of Surface Mining to designate critical units of aquatic, subterranean, and terrestrial habitats as "lands unsuitable for mining".
87	Statewide	Legislation	Propose/support federal legislation to encourage greater public participation in federal incentive programs (e.g. CRP, EQIP, LIP, WHIP, WRP, etc.) by revamping current spending limits and cost-share matches for private landowners.
88	Statewide	Policies & Regulations	Enact more stringent policies & regulations regarding issuance of scientific collector permits and commercial licenses for target species within critical units of aquatic, subterranean, and terrestrial habitats.
89		Policies & Regulations	Review current policies & regulations regarding commercial usage of non-game species.
90	Regional	Policies & Regulations	Encourage TN Valley Authority and U.S. Army Corps of Engineers to review policies & regulations regarding operation of dams/impoundments or other water diversionary structures that affect target species and habitats.
91	Statewide	Policies & Regulations	Encourage the federal Office of Surface Mining to designate critical units of aquatic, subterranean, and terrestrial habitats as "lands unsuitable for mining" under current federal policy guidelines.
92	Statewide	Standards	Develop standards for instream-flow regimes that establish minimum water levels required for target species during critical periods and for maintenance of habitat quality.
93	Statewide	Standards	Encourage state/federal agencies to increase clean air standards regarding sulfur-dioxide emissions and other pollutants.
94	Regional	Standards	Develop more stringent standards for forestry "best management practices" based on regional differences in landform and habitats.
95	Statewide	Standards	Evaluate agency standards for conducting environmental reviews of projects that potentially affect target species and habitats.
96	Statewide	Standards	Develop more stringent standards regarding permits for construction projects that potentially affect water quality and/or alter habitat.
97	Statewide	Standards	Evaluate agency standards for reviewing status of state endangered, threatened, proposed endangered, proposed threatened, and "deemed in need of management" species.

Tennessee CWCS Hierarchy of Conservation Actions															
Category	Class	General Action	General Action Description	Specific Action #1	Specific Action #2	Specific Action #3	Specific Action #4	Specific Action #5	Specific Action #6	Specific Action #7	Specific Action #8	Specific Action #9	Specific Action #10	Action Steps	
Conservation Science, Stewardship & Protection	Habitat Acquisition	Fee-little Ownership	Acquire fee-little ownership of critical units of aquatic, subterranean, & terrestrial habitats.	Use federal/state/private funding sources to acquire critical units of aquatic, subterranean, and terrestrial habitats which provide species protection, buffering, connectivity, and/or perpetuation of natural processes.	Revive TN Protection Planning Committee to coordinate land acquisition priorities among state/federal agencies and non-governmental organizations.									To be developed	
		Permanent Protective Easements	Acquire permanent protective easements on critical units of aquatic, subterranean, & terrestrial habitats.	Use federal/state/private funding sources to acquire permanent easements within critical units of aquatic, subterranean, and terrestrial habitats which provide species protection, buffering, connectivity, and/or perpetuation of natural processes.	Revive TN Protection Planning Committee to coordinate acquisition of permanent protective easements among state/federal agencies and non-governmental organizations.									To be developed	
	Information Collection & Dispersal	Communications & Public Relations	Develop communications & public relations programs that benefit target species and habitats.	Develop a multi-media public outreach campaign to promote the availability of government-funded incentive programs to private landowners.	Develop a multi-media public outreach campaign to promote awareness of the negative effects of invasive exotic species.	Develop a multi-media public outreach campaign to promote the need for conserving rare, threatened, or endangered species and habitats.									To be developed
		Conservation Planning	Conduct planning to establish conservation objectives and actions that benefit target species and habitats at state or regional scales.	Develop/participate in regional conservation planning initiatives sponsored by federal and state agencies (e.g. TDEC Recreation Management Plan, State Park planning, State Forest planning, TWRA regional planning, USFWS Joint Venture planning, TVA Reservoir Operations study, etc.)	Develop/participate in regional planning initiatives sponsored by non-governmental organizations or public/private partnerships (e.g. TNC ecoregional planning, WWF watershed planning, Cumberland Region Tomorrow - Community Quality Growth Planning, Partners In Flight, Audubon Important Bird Areas, Habitat Conservation Plans, etc.).	Develop central database to combine/reconcile/maintain state & federal agency, non-governmental organization, and university sources of data for target species and habitats.									To be developed
	Formal Education, Training, Outdoor Education, & Recreation	Support formal education, training, outdoor education, and/or recreation programs that benefit target species and habitats.	Develop outdoor education and recreation programs that inform the public about the effects of recreational vehicles and various other recreational uses on target species and habitats.	Incorporate information about protection of target species and habitats into forestry training programs such as the Cooperative Extension Master Logger Program, TN Wildlife Resources Agency Forestry Outreach, and other formal education programs.	Develop school curricula in conjunction with the TN Department of Education to emphasize local, state, & regional conservation issues affecting target species and habitats.	Deliver formal presentations for classrooms, public-interest groups, academic conferences, clubs, and other groups to promote conservation issues affecting target species and habitats.								To be developed	

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Category	Class	General Action	General Action Description	Specific Action #1	Specific Action #2	Specific Action #3	Specific Action #4	Specific Action #5	Specific Action #6	Specific Action #7	Specific Action #8	Specific Action #9	Specific Action #10	Action Steps
		Monitoring	Develop programs to monitor environmental quality of habitats and/or biological monitoring of species populations.	Develop a monitoring program to measure bioaccumulation of contaminants in target species (e.g. fish, mussels, turtles, birds, bats, etc.).	Expand network of trained volunteers to conduct various types of environmental monitoring for target species and habitats (e.g. "Adopt A Stream" program, PIF bird counts, etc.).	Develop GIS remote-sensing program to analyze statewide land cover changes, map habitats, evaluate land use practices, etc. at shorter intervals or in greater detail than current national-level programs.								<i>To be developed</i>
		Research	Facilitate research programs that benefit target species and habitats.	Conduct scientific surveys to discern the geographical distributions of lesser known target species.	Conduct research on life history and ecological needs of target species to establish guidelines for determining population viability.	Conduct research on problems (i.e. stresses and sources of stress) affecting target species and habitats.	Conduct research to map karst systems, delineate underground watersheds, and identify above-ground linkages to subterranean habitats.							<i>To be developed</i>
	Management & Restoration of Species and Habitats	Compatible Resource Use	Encourage compatible resource uses on public and private lands that contain target species and habitats.	Utilize government funded incentive programs (e.g. CRP, EQIP, CSP, WRP, WHIP, FLEP, and LIP) to encourage private landowners to protect water quality for target species in critical units of aquatic, subterranean, or terrestrial habitats.	Utilize government funded incentive programs (e.g. FLEP, WHIP, CRP, EQIP, LIP, Forest Stewardship Program, and Forest Legacy Program) to encourage private landowners to restore and/or protect native forest systems for target species in critical units of aquatic, subterranean, or terrestrial habitats.	Develop formal management agreements between private landowners, agencies, and non-governmental organizations to provide financial/technical assistance to manage target species within critical units of aquatic, subterranean, and terrestrial habitats (e.g. TWRA management agreements, USFWS Safe Harbor program, TNC cooperative management agreements, etc.).	Install exclusionary devices (e.g. gates, barriers, trespass detection equipment, etc.) to limit access to critical units of aquatic, subterranean, or terrestrial habitats for target species vulnerable to human disturbance.	Participate in environmental review procedures to prevent/mitigate construction of dams, impoundments, drainage ditches, levees, stormwater culverts, and other water diversionary structures that affect target species in critical units of aquatic, subterranean, or terrestrial habitats.	Participate in environmental review procedures to prevent/mitigate coal mining and oil & natural gas drilling activities that affect target species in critical units of aquatic, subterranean, and terrestrial habitats.	Encourage adoption of more stringent sustainable forestry practices on state forests and other public lands that contain critical units of aquatic, subterranean, and terrestrial habitats.				<i>To be developed</i>
		Conservation Area Management	Implement management practices that benefit target species and habitats on public and private conservation areas.	Participate in activities to establish/adjust state wildlife "sanctuaries" and/or federally designated critical habitat areas for target species on multi-use public/private conservation areas across the state.	Develop and implement conservation plans for all public/private conservation areas across the state based on ecosystem-level management principles.	Develop recreation management plans that outline strict guidelines on high-impact recreational uses on public/private conservation areas across the state.								<i>To be developed</i>
		Control/Prevention of Invasive Exotic Species & Pathogens	Implement management practices that control or prevent occurrences of invasive exotic species & pathogens on critical units of aquatic, subterranean, and terrestrial habitats.	Conduct rapid ecological assessments of key populations of target species and critical units of aquatic, subterranean, and terrestrial habitats most susceptible to invasive exotic species & pathogens.	Implement integrated pest management practices to control or prevent invasive exotic species & pathogens from key populations of target species and critical units of aquatic, subterranean, and terrestrial habitats.	Organize a TN Exotic Pest Animal Council to coordinate activities with the TN Exotic Pest Plant Council and serve as a clearinghouse of information & decisionmaking to control or prevent outbreaks of invasive exotic species.	Establish a central GIS database to track occurrences of severe category invasive exotic species and maintain information on control measures & current management efforts statewide.	Support programs that advocate usage of native or non-invasive exotic plants in ornamental horticulture, erosion control, and wildlife habitat plantings.						<i>To be developed</i>

Tennessee CWCS Hierarchy of Conservation Actions														
Category	Class	General Action	General Action Description	Specific Action #1	Specific Action #2	Specific Action #3	Specific Action #4	Specific Action #5	Specific Action #6	Specific Action #7	Specific Action #8	Specific Action #9	Specific Action #10	Action Steps
		Habitat/Natural Processes Restoration	Restore critical units of aquatic, subterranean, and terrestrial habitats and/or natural processes that benefit target species.	Reintroduce fire via prescribed burning into fire-dependent grassland & woodland systems within critical units of terrestrial habitats.	Reclaim abandoned coal mines and streams affected by acid mine drainage within critical units of aquatic, subterranean, and terrestrial habitats.	Restore degraded/converted wetland systems within critical units of aquatic, subterranean, and terrestrial habitats.	Restore in-stream flows and physical structure of channelized or impounded streams within critical units of aquatic, subterranean, and terrestrial habitats.	Restore degraded forests and pine plantations to appropriate natural ecological systems in or near critical units of aquatic, subterranean, and terrestrial habitats.	Restore pastures and other agricultural lands to appropriate natural ecological systems in or near critical units of aquatic, subterranean, and terrestrial habitats.	Remove or modify physical barriers that disrupt habitat/population connectivity for target species within critical units of aquatic, subterranean, and terrestrial habitats.				To be developed
		Species Restoration	Restore populations of target species on critical units of aquatic, subterranean, and terrestrial habitats.	Utilize federal/state funding sources (e.g. USFWS Section 6 Recovery Plan funding, etc.) to reintroduce extirpated and historic populations of priority species to appropriate habitats across the state.	Utilize ex-situ conservation methods (e.g. captive breeding, gene banking, etc.) to conserve populations of target species on the verge of rangewide extinction or local extinction of unique genotypes.	Provide funding to permitted institutions/individuals for rehabilitation of priority target species across the state.	Establish a freshwater mollusc propagation facility to increase populations of mussels and aquatic snails for habitat reintroduction.							To be developed
Conservation Financial, Legal & Political Development	Capacity Building	Alliances & Partnerships	Develop strategic alliances and/or formal partnerships among public & private institutions that benefit target species and habitats.	Develop strategic alliance with Farm Bureau, Natural Resource Conservation Service, Farm Service Agency, TN Division of Water Pollution Control, Cooperative Extension, and other institutions to improve agricultural and animal production industries that affect target species and habitats.	Develop strategic alliance with U.S. Army Corp of Engineers, TN Valley Authority, water utility boards, and other institutions to address water management issues that affect target species and habitats.	Develop strategic alliance with TN Dept. of Transportation, county mayors, municipalities, city/county planners, private developers and others to address urban and rural development practices that affect target species and habitats.	Develop strategic alliance with TN Division of Forestry, TN Forestry Association, U.S. Forest Service, private timber companies, non-governmental organizations, universities, and other forest resource managers to address forestry practices that affect target species and habitats.	Develop strategic alliance with TN Division of Geology, Office of Surface Mining, U.S. Geological Survey, TN Oil & Gas Association, private companies, and other institutions to address mining and drilling issues that affect target species and habitats.	Develop strategic alliance with the U.S. Environmental Protection Agency, TN Dept. of Environment and Conservation, non-governmental organizations, and other related environmental regulatory agencies to address air and water quality issues affecting target species and habitats.	Develop faunal and/or habitat working groups (e.g. bat working group, cave working group, Partners In Flight/TN Ornithological Society working group, etc.) composed of academics, government and non-government biologists, & others to identify research issues, conduct research, fill data gaps, and disperse scientific information.	Partner with TN Division of Forestry, TN Wildlife Resources Agency, TN Division of Natural Heritage, TN State Parks, U.S. Forest Service, U.S. Fish & Wildlife Service, The Nature Conservancy, and other institutions to establish a statewide burn crew to conduct prescribed burns in fire-dependent grassland & woodland habitats.	Develop strategic alliances with state/federal agencies, non-governmental organizations, stakeholders, and other groups focused on improvement of regional landscapes or special natural resources that contain target species in need of conservation (e.g. Alliance for the Cumberlands, Mississippi River Corridor, Cumberland Region Tomorrow, cave conservation groups, etc.).	Partner with state/federal agencies, non-governmental organizations, and various institutions in other states/countries to develop conservation strategies to manage wide-ranging target species and/or abate problems affecting species and habitats of regional/international concern (e.g. U.S. Fish & Wildlife Service Joint Ventures, international partnerships for neo-tropical migratory birds, Southeast Aquatic Resource Partnership, etc.).	To be developed
		Conservation Finance	Develop new sources of conservation funding to increase capacity of federal/state agencies, non-governmental organizations and, other institutions to benefit target species and habitats.	Establish a private capital conservation fund to finance and/or provide leverage for priority land acquisition deals across the state.	Solicit donations from private individuals and foundations for conservation work being conducted by various state/federal agencies and non-governmental organizations.	Incorporate network of trained volunteers within state agencies as "in-kind" services match for federal funds.								To be developed
		Institutional Improvement	Increase internal capacity of public/private institutions to benefit target species and habitats.	Increase staffing and funding of state agencies and local offices of federal agencies responsible for managing target species/habitats or monitoring environmental quality.	Increase staffing and funding of non-governmental organizations that either manage or assist with the protection of target species and habitats.	Create opportunities for cost-shared positions among state agencies, municipal/county governments, non-governmental organizations, and/or other institutions to increase the number of biological staff working on protection of target species and habitats.								To be developed

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Category	Class	General Action	General Action Description	Specific Action #1	Specific Action #2	Specific Action #3	Specific Action #4	Specific Action #5	Specific Action #6	Specific Action #7	Specific Action #8	Specific Action #9	Specific Action #10	Action Steps								
	Commercial Incentives	Conservation Enterprises	Develop commercial enterprises that provide financial incentives for private individuals, industries, and/or small businesses to benefit target species and habitats.	Develop forest banking programs for forest systems at high risk of destruction or degradation within critical units of aquatic, subterranean, or terrestrial habitats.	Create ecotourism-based local economies to deter development or natural resource extraction pressures in economically depressed areas that contain critical units of aquatic, subterranean, or terrestrial habitats.									To be developed								
		Market Forces	Develop marketing strategies to improve patterns of production and consumption of goods and services for the benefit of target species and habitats.	Encourage municipal & county governments to subsidize/offer additional incentives to developers that utilize "green" methods of construction, design, and land-use planning in large residential or commercial developments.											To be developed							
Law & Policy	Compliance & Enforcement	Improve compliance & enforcement programs that benefit target species and habitats.	Develop multi-agency network of professional aquatic biologists to assist TN Div. of Water Pollution Control in gathering documentation and supporting evidence to enforce existing water quality laws.	Increase compliance monitoring of aquatic resource alteration permits, storm water, & other permits within critical units of aquatic and subterranean habitats.	Work with TN Wildlife Resources Agency and U.S. Fish & Wildlife Service to enforce compliance with rules and other stipulations for scientific collector permits and commercial licenses.	Provide TWRA wildlife officers with non-game funding to assist with compliance and enforcement of state laws protecting target species and habitats.								To be developed								
							Land-use Planning & Zoning	Develop land-use planning & zoning ordinances that benefit target species and habitats.	Participate in the review and/or revision of county urban growth management plans.	Encourage municipal and county governments to adopt zoning ordinances that limit or regulate development within critical units of aquatic, subterranean, and terrestrial habitats.	Provide funding/resources for the completion of the state's property owner base mapping project for counties that contain critical units of aquatic, subterranean, and terrestrial habitats.							To be developed				
												Legislation	Enact legislation to benefit target species and habitats.	Propose/support state legislation to remove or prevent passage of private legislative acts that negatively effect target species and habitats.	Propose/support state and federal legislation to create dedicated funding sources for conservation programs, acquisition, and/or restoration of critical units of aquatic, subterranean, and terrestrial habitats.	Propose/support state legislation to restrict importation or usage of severe category invasive exotic animal and plant species in the state.	Propose/support state legislation to strengthen penalties for laws regarding poaching, illegal collection, or killing of target species and for violation of current environmental quality or habitat destruction laws.	Propose/support federal legislation to support CITES and to increase penalties for illegal trade in wildlife.	Propose/support state & federal legislation to modify current "greenbelt" laws to include tax breaks to landowners for protection of target species and habitats or vital ecosystem services such as forest/watershed protection.	Propose/support federal legislation to fund a national or regional conservation initiative regarding aquatic resource protection (e.g. National/Southeast Aquatic Resources Partnership).	Propose/support federal legislation to encourage greater public participation in federal incentive programs (e.g. CRP, EQIP, LIP, WHIP, WRP, etc.) by revamping current spending limits and cost-share matches for private landowners.	To be developed
																						Policies & Regulations

Tennessee CWCS Hierarchy of Conservation Actions														
Category	Class	General Action	General Action Description	Specific Action #1	Specific Action #2	Specific Action #3	Specific Action #4	Specific Action #5	Specific Action #6	Specific Action #7	Specific Action #8	Specific Action #9	Specific Action #10	Action Steps
		Standards	Improve environmental standards that benefit target species and habitats.	Develop standards for instream-flow regimes that establish minimum water levels required for target species during critical periods and for maintenance of habitat quality.	Encourage state/federal agencies to increase clean air standards regarding sulfur-dioxide emissions and other pollutants.	Develop more stringent standards for forestry "best management practices" based on regional differences in landform and habitats.	Evaluate agency standards for conducting environmental reviews of projects that potentially affect target species and habitats.	Develop more stringent standards regarding permits for construction projects that potentially affect water quality and/or alter habitat.	Evaluate agency standards for reviewing status of state endangered, threatened, proposed endangered, and "deemed in need of management" species.					<i>To be developed</i>

Reg.	Source of Stress	# T1 Tgts	Stress-Rarity Score	Stress Abate. Score	Specific Action Reference Codes (values are stress abatement scores)																								
					62	63	64	65	66	67	68	69	70	72	73	75	76	77	78	80	82	84	85	86	87	91	92	94	95
CUp	Primary Residential Development	4	77.8	1,166.3	24	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33	27	33				39	33	51
CUp	Residential Sewage/Septic Systems	5	72.2	789.7		33	36	27	27	24		15	18	18	20	48	27	33	45		33	27	33				39	33	51
CUp	Incompatible Grazing/Pasture Management Practices	5	56.3	808.3	24	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	44					51
CUp	Construction of Roads/Railroads/Utilities	1	36.8	578.8		33	36	27	27	24		15	18	36	40	20	48	27	33	45	26		27				39	33	51
CUp	Incompatible Forestry Practices	2	31.9	478.4	24	33	36	27	27	24	32	15		27	30	20	36		33	45	26	33	27			36		51	
CUp	Excessive Groundwater Withdrawal	1	6.0	70.5	12	33	36	27	27	24		10	18				36	27	33	45		33	27		33		39	33	51
NB	Residential Sewage/Septic Systems	3	45.9	502.6		33	36	27	27	24		15	18	18	20	48	27	33	45		33	27	33				39	33	51
NB	Primary Residential Development	2	45.3	678.8	24	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33	27	33				39	33	51
NB	Construction of Roads/Railroads/Utilities	1	36.8	578.8		33	36	27	27	24		15	18	36	40	20	48	27	33	45	26		27				39	33	51
NB	Incompatible Grazing/Pasture Management Practices	3	30.0	431.1	24	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	44					51
NB	Incompatible Forestry Practices	1	26.3	394.0	24	33	36	27	27	24	32	15		27	30	20	36		33	45	26	33	27			36		51	
NB	Excessive Groundwater Withdrawal	1	6.0	70.5	12	33	36	27	27	24		10	18				36	27	33	45		33	27		33		39	33	51
NB	Municipal Wastewater Treatment/Stormwater Runoff	1	5.6	70.9		33	36	27	27	24		15	18	36	40	48	27	33	45	26	33	27					39	33	51
C-R	Incompatible Forestry Practices	13	257.2	3,860.4	24	33	36	27	27	24	32	15		27	30	20	36		33	45	26	33	27			36			51
C-R	Incompatible Grazing/Pasture Management Practices	10	237.9	3,418.5	24	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	44					51
C-R	Residential Sewage/Septic Systems	12	208.6	2,282.0		33	36	27	27	24		15	18	18	20	48	27	33	45		33	27	33				39	33	51
C-R	Municipal Wastewater Treatment/Stormwater Runoff	3	30.2	381.3		33	36	27	27	24		15	18	36	40	48	27	33	45	26	33	27					39	33	51
C-R	Recreational Use of Habitats (non-vehicular)	1	29.8	361.8	18	33	36	27	27	24		20				30	36			45	39				22				51
C-R	Excessive Groundwater Withdrawal	1	6.0	70.5	12	33	36	27	27	24		10	18				36	27	33	45		33	27		33		39	33	51
C-R	Secondary Home/Resort Development	1	5.9	81.0	24	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33						39	33	51
C-R	Primary Residential Development	1	3.0	44.3	24	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33	27	33				39	33	51
C-R	Forest Type Conversion	1	2.8	40.0	24	33	36	27	27	24	24	15		27	30	36		33	45	26	33	27			36			51	
RV	Residential Sewage/Septic Systems	11	220.5	2,411.9		33	36	27	27	24		15	18	18	20	48	27	33	45		33	27	33				39	33	51
RV	Incompatible Grazing/Pasture Management Practices	8	151.4	2,175.7	24	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	44					51
RV	Municipal Wastewater Treatment/Stormwater Runoff	5	91.2	1,149.7		33	36	27	27	24		15	18	36	40	48	27	33	45	26	33	27					39	33	51
RV	Incompatible Forestry Practices	4	67.2	1,008.5	24	33	36	27	27	24	32	15		27	30	20	36		33	45	26	33	27			36			51
RV	Primary Residential Development	3	59.2	887.8	24	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33	27	33				39	33	51
RV	Recreational Use of Habitats (non-vehicular)	2	39.5	479.5	18	33	36	27	27	24		20				30	36			45	39	27			22				51
RV	Incompatible Mining Practices	1	32.0	439.0	12	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	40	22	40		39	51
RV	Commercial/Industrial Development	2	30.4	453.5	18	33	36	27	27	24	16	15	18	27	30	48	27	33	45	26	33	27	22				39	33	51
RV	Construction of Roads/Railroads/Utilities	2	30.4	478.4		33	36	27	27	24		15	18	36	40	20	48	27	33	45	26		27				39	33	51
RV	Excessive Competition/Predation by Native Species	1	19.3	176.9		33	36	27	27	24							24			45									51
SBR	Recreational Use of Habitats (non-vehicular)	2	66.5	808.6	18	33	36	27	27	24		20				30	36			45	39				22				51
SBR	Residential Sewage/Septic Systems	2	58.1	635.9		33	36	27	27	24		15	18	18	20	48	27	33	45		33	27	33				39	33	51
SBR	Incompatible Forestry Practices	2	52.0	780.5	24	33	36	27	27	24	32	15		27	30	20	36		33	45	26	33	27			36			51
SBR	Incompatible Grazing/Pasture Management Practices	1	18.8	269.4	24	33	36	27	27	24		15		27	30	20	36		33	45	26	33	27	44					51

***APPENDIX G. List of Species and Prioritization Scores by Regional Conservation
& Restoration Portfolios***

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bkls.	Avg. Priority Score	Total Priority Score
MAP	Very High	Amphibian	<i>Acris gryllus</i> (Southern Cricket Frog)	G5/S4	3	2	2	5	2	0.2	0.4
MAP	Very High	Bird	<i>Anhinga anhinga</i> (Anhinga)	G5/S1B	4	2	2	16	2	8.3	16.5
MAP	Very High	Bird	<i>Ardea alba</i> (Great Egret)	G5/S2BS3N	5	2	2	24	2	3.0	6.0
MAP	Very High	Bird	<i>Bartramia longicauda</i> (Upland Sandpiper)	G5/SXB?	3	1	1	31	1	0.3	0.3
MAP	Very High	Bird	<i>Calidris himantopus</i> (Stilt Sandpiper)	G5/S3N	3	1	1	33	1	3.6	3.6
MAP	Very High	Bird	<i>Dendroica cerulea</i> (Cerulean Warbler)	G4/S3B	2	2	2	39	2	7.3	14.6
MAP	Very High	Bird	<i>Egretta caerulea</i> (Little Blue Heron)	G5/S2BS3N	5	1	1	24	1	3.0	3.0
MAP	Very High	Bird	<i>Helminthos vermivorus</i> (Worm-eating Warbler)	G5/S4	1	1	1	24	1	1.7	1.7
MAP	Very High	Bird	<i>Hylocichla mustelina</i> (Wood Thrush)	G5/S4	5	2	2	24	2	1.2	2.4
MAP	Very High	Bird	<i>Icterus spurius</i> (Orchard Oriole)	G5/S4	5	2	2	24	2	1.2	2.4
MAP	Very High	Bird	<i>Ictinia mississippiensis</i> (Mississippi Kite)	G5/S2S3	5	2	2	24	2	4.3	8.7
MAP	Very High	Bird	<i>Ixobrychus exilis</i> (Least Bittern)	G5/S2B	2	1	1	24	1	1.1	1.1
MAP	Very High	Bird	<i>Limothypis swainsonii</i> (Swainson's Warbler)	G4/S3	4	2	2	24	2	4.0	7.9
MAP	Very High	Bird	<i>Melanerpes erythrocephalus</i> (Red-headed Woodpecker)	G5/S4	3	2	2	24	2	1.2	2.4
MAP	Very High	Bird	<i>Oporornis formosus</i> (Kentucky Warbler)	G5/S4	4	2	2	24	2	1.2	2.4
MAP	Very High	Bird	<i>Parula americana</i> (Northern Parula)	G5/S5	4	2	2	24	2	1.0	2.0
MAP	Very High	Bird	<i>Pluvialis dominica</i> (American Golden Plover)	G5/S3N	3	2	2	16	2	1.2	2.5
MAP	Very High	Bird	<i>Protonotaria citrea</i> (Prothonotary Warbler)	G5/S4	5	2	2	24	2	1.7	3.4
MAP	Very High	Bird	<i>Riparia riparia</i> (Bank Swallow)	G5/S3	3	1	1	24	1	2.1	2.1
MAP	Very High	Bird	<i>Scolopax minor</i> (American Woodcock)	G5/S4B	2	1	1	24	1	1.2	1.2
MAP	Very High	Bird	<i>Seiurus motacilla</i> (Louisiana Waterthrush)	G5/S4	3	2	2	24	2	1.7	3.4
MAP	Very High	Bird	<i>Vireo griseus</i> (White-eyed Vireo)	G5/S4	5	2	2	24	2	1.7	3.4
MAP	Very High	Bird	<i>Wilsonia citrina</i> (Hooded Warbler)	G5/S4	3	2	2	24	2	1.7	3.4
MAP	Very High	Gastropod	<i>Webbhelix multilineata</i> (Striped Whitelip)	G4/S1	8	5	5	54.2	5	19.9	99.7
MAP	Very High	Mammal	<i>Corynorhinus rafinesquii</i> (Rafinesque's Big-eared Bat)	G3G4/S3	1	1	1	6	1	0.9	0.9
MAP	Very High	Mammal	<i>Sorex longirostris</i> (Southeastern Shrew)	G5/S4	2	1	1	2	1	0.2	0.2
MAP	Very High	Mammal	<i>Zapus hudsonius</i> (Meadow Jumping Mouse)	G5/S4	2	1	1	3	1	0.2	0.2
MAP	Very High	Reptile	<i>Crotalus horridus</i> (Timber Rattlesnake)	G4/S4	2	1	1	6	1	0.5	0.5
MAP	Very High	Reptile	<i>Nerodia cyclopion</i> (Green Water Snake)	G5/S2	5	2	2	5.5	2	1.5	2.9
MAP	High	Bird	<i>Anhinga anhinga</i> (Anhinga)	G5/S1B	4	2	4	25	16	10.0	159.2
MAP	High	Bird	<i>Ardea alba</i> (Great Egret)	G5/S2BS3N	5	5	13	24.08	28	2.9	81.8
MAP	High	Bird	<i>Calidris canutus</i> (Red Knot)	G5/S2N	3	1	1	32	1	4.0	4.0
MAP	High	Bird	<i>Calidris himantopus</i> (Stilt Sandpiper)	G5/S3N	3	1	1	40	1	3.9	3.9
MAP	High	Bird	<i>Calidris mauri</i> (Western Sandpiper)	G5/S4N	3	2	2	39.5	3	2.0	6.0
MAP	High	Bird	<i>Charadrius wilsonia</i> (Wilson's Plover)	G5/S?	3	1	1	23	1	0.2	0.2
MAP	High	Bird	<i>Dendroica cerulea</i> (Cerulean Warbler)	G4/S3B	2	4	8	27.125	19	4.1	77.5
MAP	High	Bird	<i>Egretta caerulea</i> (Little Blue Heron)	G5/S2BS3N	5	4	12	24	28	2.9	81.1
MAP	High	Bird	<i>Helminthos vermivorus</i> (Worm-eating Warbler)	G5/S4	1	1	2	24	12	1.6	19.6
MAP	High	Bird	<i>Hylocichla mustelina</i> (Wood Thrush)	G5/S4	5	5	11	24	27	1.1	30.0
MAP	High	Bird	<i>Icterus spurius</i> (Orchard Oriole)	G5/S4	5	5	12	24	27	1.1	30.4
MAP	High	Bird	<i>Ictinia mississippiensis</i> (Mississippi Kite)	G5/S2S3	5	4	14	24	28	4.3	119.1
MAP	High	Bird	<i>Ixobrychus exilis</i> (Least Bittern)	G5/S2B	2	1	1	24	2	0.8	1.7
MAP	High	Bird	<i>Limothypis swainsonii</i> (Swainson's Warbler)	G4/S3	4	3	5	24	20	3.6	71.2
MAP	High	Bird	<i>Limosa fedoa</i> (Marbled Godwit)	G5/S?	3	1	1	38	1	0.4	0.4
MAP	High	Bird	<i>Limosa haemastica</i> (Hudsonian Godwit)	G4/S?	3	1	1	39	1	1.5	1.5
MAP	High	Bird	<i>Melanerpes erythrocephalus</i> (Red-headed Woodpecker)	G5/S4	3	5	13	24	28	1.1	31.2
MAP	High	Bird	<i>Oporornis formosus</i> (Kentucky Warbler)	G5/S4	4	5	13	24	28	1.1	30.5
MAP	High	Bird	<i>Parula americana</i> (Northern Parula)	G5/S5	4	5	13	24	28	1.0	26.7
MAP	High	Bird	<i>Passerina ciris</i> (Painted Bunting)	G5/S2	2	1	1	24	1	0.5	0.5
MAP	High	Bird	<i>Pluvialis dominica</i> (American Golden Plover)	G5/S3N	3	2	2	35.5	2	1.8	3.6
MAP	High	Bird	<i>Protonotaria citrea</i> (Prothonotary Warbler)	G5/S4	5	5	13	24	28	1.6	44.6
MAP	High	Bird	<i>Rallus elegans</i> (King Rail)	G4G5/S2	2	1	1	24	7	6.4	44.5
MAP	High	Bird	<i>Riparia riparia</i> (Bank Swallow)	G5/S3	3	4	5	24	18	1.7	31.1
MAP	High	Bird	<i>Scolopax minor</i> (American Woodcock)	G5/S4B	2	1	1	24	5	0.6	3.1
MAP	High	Bird	<i>Seiurus motacilla</i> (Louisiana Waterthrush)	G5/S4	3	2	5	24	18	1.6	28.2
MAP	High	Bird	<i>Tryngites subruficollis</i> (Buff-breasted Sandpiper)	G4/S3N	3	2	2	31.5	2	3.1	6.1
MAP	High	Bird	<i>Vireo griseus</i> (White-eyed Vireo)	G5/S4	5	5	14	24	28	1.6	45.1
MAP	High	Bird	<i>Wilsonia citrina</i> (Hooded Warbler)	G5/S4	3	3	4	24	10	1.4	13.8
MAP	High	Gastropod	<i>Webbhelix multilineata</i> (Striped Whitelip)	G4/S1	8	3	3	3333	4	14.9	59.7
MAP	High	Reptile	<i>Nerodia cyclopion</i> (Green Water Snake)	G5/S2	5	1	4	5.25	6	0.9	5.5
MAP	Medium	Amphibian	<i>Acris gryllus</i> (Southern Cricket Frog)	G5/S4	3	1	2	5	6	0.1	0.8
MAP	Medium	Amphibian	<i>Hyla versicolor</i> (Gray Treefrog)	G5/S5	3	2	2	4	5	0.0	0.1
MAP	Medium	Bird	<i>Ammodramus savannarum</i> (Grasshopper Sparrow)	G5/S4	3	1	1	24	1	1.2	1.2
MAP	Medium	Bird	<i>Anhinga anhinga</i> (Anhinga)	G5/S1B	4	3	4	6667	12	4.4	53.1
MAP	Medium	Bird	<i>Ardea alba</i> (Great Egret)	G5/S2BS3N	5	6	15	24	79	2.2	173.4
MAP	Medium	Bird	<i>Calidris canutus</i> (Red Knot)	G5/S2N	3	1	1	32	4	2.0	7.9
MAP	Medium	Bird	<i>Calidris himantopus</i> (Stilt Sandpiper)	G5/S3N	3	1	1	40	4	1.2	4.6
MAP	Medium	Bird	<i>Calidris mauri</i> (Western Sandpiper)	G5/S4N	3	2	2	39.5	8	1.0	7.8

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
MAP	Medium	Bird	Charadrius wilsonia (Wilson's Plover)	G5/S?	3	1	1	23	4	0.0	0.2
MAP	Medium	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	2	1	1	33	1	10.5	10.5
MAP	Medium	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	2	3	6	6667	16	3.7	58.6
MAP	Medium	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	5	4	16	24	78	2.3	182.4
MAP	Medium	Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	1	2	2	24	6	1.3	7.6
MAP	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	5	8	17	24	76	1.1	85.3
MAP	Medium	Bird	Icterus spurius (Orchard Oriole)	G5/S4	5	7	18	24	80	1.1	86.7
MAP	Medium	Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	5	5	19	23.92	82	4.2	341.8
MAP	Medium	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	2	1	1	24	6	1.1	6.9
MAP	Medium	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	5	1	2	24	2	2.1	4.2
MAP	Medium	Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	4	3	5	20.5	18	1.9	35.1
MAP	Medium	Bird	Limosa haemastica (Hudsonian Godwit)	G4/S?	3	1	1	39	1	0.5	0.5
MAP	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	3	8	19	24	82	1.1	90.8
MAP	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	4	7	16	24	68	1.1	74.1
MAP	Medium	Bird	Parula americana (Northern Parula)	G5/S5	4	8	17	24	77	0.9	72.3
MAP	Medium	Bird	Passerina ciris (Painted Bunting)	G5/S2	2	1	3	24	21	3.7	78.5
MAP	Medium	Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	3	1	1	39	4	1.1	4.4
MAP	Medium	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	5	8	20	24	80	1.6	124.5
MAP	Medium	Bird	Rallus elegans (King Rail)	G4G5/S2	2	1	1	24	4	4.5	18.1
MAP	Medium	Bird	Riparia riparia (Bank Swallow)	G5/S3	3	4	6	24	23	1.5	34.8
MAP	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	2	1	1	24	7	0.4	2.7
MAP	Medium	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	3	2	4	24	13	1.3	16.9
MAP	Medium	Bird	Spiza americana (Dickcissel)	G5/S4	5	1	1	24	1	0.3	0.3
MAP	Medium	Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	3	2	2	31.5	5	1.7	8.4
MAP	Medium	Bird	Tyto alba (Barn Owl)	G5/S3	1	1	1	24	2	1.5	3.0
MAP	Medium	Bird	Vireo griseus (White-eyed Vireo)	G5/S4	5	7	19	24	82	1.6	130.1
MAP	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	3	2	2	24	24	1.6	38.0
MAP	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	1	1	1	6	5	0.3	1.7
MAP	Medium	Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	3	1	1	4	1	0.2	0.2
MAP	Medium	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	2	1	1	4	1	0.3	0.3
MAP	Medium	Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	5	2	7	6667	11	0.9	10.3
MAP	Medium	Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	2	2	2	5	2	0.1	0.2
MAP	Low	Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	3	1	1	3	2	0.0	0.0
MAP	Low	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	3	1	1	24	1	1.2	1.2
MAP	Low	Bird	Anhinga anhinga (Anhinga)	G5/S1B	4	3	3	18	15	2.6	39.3
MAP	Low	Bird	Ardea alba (Great Egret)	G5/S2BS3N	5	7	19	24	111	1.9	214.1
MAP	Low	Bird	Calidris canutus (Red Knot)	G5/S2N	3	2	2	19.5	11	2.9	32.3
MAP	Low	Bird	Calidris himantopus (Stilt Sandpiper)	G5/S3N	3	1	1	40	6	2.5	14.8
MAP	Low	Bird	Calidris mauri (Western Sandpiper)	G5/S4N	3	3	3	6667	10	0.9	9.3
MAP	Low	Bird	Charadrius wilsonia (Wilson's Plover)	G5/S?	3	1	1	23	6	0.1	0.9
MAP	Low	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	2	1	1	33	1	3.4	3.4
MAP	Low	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	2	3	4	24	9	1.5	13.1
MAP	Low	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	5	4	20	24	105	2.0	209.1
MAP	Low	Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	1	2	2	24	3	0.6	1.7
MAP	Low	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	5	12	20	24	115	1.0	112.0
MAP	Low	Bird	Icterus spurius (Orchard Oriole)	G5/S4	5	10	23	24	144	0.9	129.9
MAP	Low	Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	5	6	28	9259	161	2.4	379.8
MAP	Low	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	2	1	1	24	3	0.5	1.4
MAP	Low	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	5	4	9	24	23	1.9	43.2
MAP	Low	Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	4	2	4	20.5	12	1.5	17.4
MAP	Low	Bird	Limosa fedoa (Marbled Godwit)	G5/S?	3	2	2	29	8	0.2	1.5
MAP	Low	Bird	Limosa haemastica (Hudsonian Godwit)	G4/S?	3	1	1	39	6	0.9	5.3
MAP	Low	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	3	12	25	24	124	0.9	107.3
MAP	Low	Bird	Numenius phaeopus (Whimbrel)	G5/S?	3	1	1	39	3	0.0	0.1
MAP	Low	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	4	10	14	24	89	0.9	83.1
MAP	Low	Bird	Parula americana (Northern Parula)	G5/S5	4	10	15	24	93	0.8	73.0
MAP	Low	Bird	Passerina ciris (Painted Bunting)	G5/S2	2	1	3	24	14	2.8	39.0
MAP	Low	Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	3	1	1	39	2	2.2	4.5
MAP	Low	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	5	11	21	24	130	1.4	184.5
MAP	Low	Bird	Riparia riparia (Bank Swallow)	G5/S3	3	6	9	24	66	1.4	94.0
MAP	Low	Bird	Scolopax minor (American Woodcock)	G5/S4B	2	1	1	24	4	0.2	0.9
MAP	Low	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	3	3	3	24	6	0.6	3.3
MAP	Low	Bird	Spiza americana (Dickcissel)	G5/S4	5	4	10	24	18	0.3	5.9
MAP	Low	Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	3	3	3	3333	17	2.2	36.9
MAP	Low	Bird	Tyto alba (Barn Owl)	G5/S3	1	2	2	15	6	1.3	7.6
MAP	Low	Bird	Vireo griseus (White-eyed Vireo)	G5/S4	5	11	24	24	127	1.2	147.7
MAP	Low	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	3	4	5	24	13	0.3	4.4
MAP	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	1	1	1	6	2	0.4	0.7

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bkls.	Avg. Priority Score	Total Priority Score
MAP	Low	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	2	1	1	6	1	0.1	0.1
MAP	Low	Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	5	1	1	2	1	0.1	0.1
UGCP	Very High	Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	11	3	3	3333	14	0.1	1.9
UGCP	Very High	Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	5	1	1	7	5	0.0	0.1
UGCP	Very High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	8	1	1	24	15	1.1	16.5
UGCP	Very High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	10	1	1	24	13	1.6	21.1
UGCP	Very High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	19	4	10	24	46	1.6	72.7
UGCP	Very High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	18	5	9	24	42	1.4	60.5
UGCP	Very High	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	5	2	2	24	38	7.7	292.5
UGCP	Very High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	3	4	24	6	1.3	7.6
UGCP	Very High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	10	10	18	27.375	181	4.0	719.7
UGCP	Very High	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	8	4	10	25.25	55	2.7	147.8
UGCP	Very High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	5	8	24	130	1.6	209.2
UGCP	Very High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	28	13	33	24	193	1.2	224.8
UGCP	Very High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	29	16	33	24	232	1.0	231.1
UGCP	Very High	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	4	1	2	24	19	1.1	21.4
UGCP	Very High	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	18	3	5	24	39	1.8	70.7
UGCP	Very High	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	13	13	20	24	176	3.3	572.5
UGCP	Very High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	20	13	28	24	193	1.2	226.5
UGCP	Very High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	14	30	24	194	1.2	228.2
UGCP	Very High	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	19	13	28	24	187	1.7	309.8
UGCP	Very High	Bird	Rallus elegans (King Rail)	G4G5/S2	1	2	2	24	22	6.2	136.7
UGCP	Very High	Bird	Scolopax minor (American Woodcock)	G5/S4B	8	2	2	24	7	0.7	5.1
UGCP	Very High	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	18	10	21	24	179	1.1	205.8
UGCP	Very High	Bird	Spiza americana (Dickcissel)	G5/S4	20	2	3	24	26	0.3	8.7
UGCP	Very High	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	6	2	2	24	38	2.2	83.9
UGCP	Very High	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	3	1	1	24	25	3.9	98.7
UGCP	Very High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	9	4	4	24	33	0.3	10.5
UGCP	Very High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	7	8	24	131	1.2	152.3
UGCP	Very High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	10	3	4	6	14	0.4	5.0
UGCP	Very High	Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	8	1	1	20	15	2.1	30.8
UGCP	Very High	Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	6	2	2	6.5	5	0.4	1.9
UGCP	Very High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	16	3	3	14	7	0.8	5.4
UGCP	Very High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	7	1	1	6	59	0.3	16.8
UGCP	Very High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	12	3	3	6667	6	0.1	0.7
UGCP	Very High	Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	4	1	1	3	6	0.1	0.4
UGCP	Very High	Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	3	2	4	6667	9	0.3	2.9
UGCP	Very High	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	6	1	1	5	1	0.2	0.2
UGCP	High	Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	5	1	1	7	15	0.0	0.4
UGCP	High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	8	1	1	24	24	1.7	40.2
UGCP	High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	10	3	6	24	39	1.5	58.3
UGCP	High	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	17	2	3	24	35	1.2	41.2
UGCP	High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	19	6	34	24	160	1.5	241.4
UGCP	High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	18	8	32	24	144	1.4	205.4
UGCP	High	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	5	6	6	24	79	7.6	600.1
UGCP	High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	8	24	24	81	1.3	109.2
UGCP	High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	10	18	27	4444	306	3.5	1,074.5
UGCP	High	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	8	7	14	24	87	1.6	140.6
UGCP	High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	12	19	24	171	1.4	238.7
UGCP	High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	28	20	64	24	353	1.2	426.6
UGCP	High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	29	30	67	24	424	0.8	342.4
UGCP	High	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	4	2	3	24	46	1.0	47.7
UGCP	High	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	18	6	10	24	79	1.7	130.8
UGCP	High	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	13	17	29	1765	280	2.4	678.5
UGCP	High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	20	22	50	24	381	1.0	395.4
UGCP	High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	21	55	24	352	1.2	422.8
UGCP	High	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	19	18	45	24	256	1.6	420.2
UGCP	High	Bird	Rallus elegans (King Rail)	G4G5/S2	1	2	2	24	8	5.0	39.8
UGCP	High	Bird	Scolopax minor (American Woodcock)	G5/S4B	8	3	3	24	39	0.4	17.3
UGCP	High	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	18	13	28	24	242	1.1	274.9
UGCP	High	Bird	Spiza americana (Dickcissel)	G5/S4	20	5	8	24	67	0.3	22.1
UGCP	High	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	6	3	3	18	27	1.6	42.6
UGCP	High	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	3	1	1	24	8	3.3	26.0
UGCP	High	Bird	Tyto alba (Barn Owl)	G5/S3	8	1	1	6	9	0.1	0.9
UGCP	High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	9	8	10	24	81	0.3	25.2
UGCP	High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	13	15	24	194	1.1	210.2
UGCP	High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	10	3	4	6	10	0.4	3.7
UGCP	High	Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	8	1	1	20	16	0.9	15.1

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
UGCP	High	Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	6	1	1	7	1	0.7	0.7
UGCP	High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	16	1	1	6	1	0.1	0.1
UGCP	High	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	5	1	1	6	1	0.1	0.1
UGCP	High	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	11	1	1	7	1	0.5	0.5
UGCP	High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	7	1	1	6	24	0.5	12.0
UGCP	High	Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	3	1	1	33	2	15.0	29.9
UGCP	High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	12	2	2	4.5	4	0.1	0.3
UGCP	High	Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	4	2	2	4.5	3	0.1	0.3
UGCP	High	Reptile	Nerodia cyclopiion (Green Water Snake)	G5/S2	3	2	4	3	16	0.2	3.7
UGCP	Medium	Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	11	2	3	4	7	0.2	1.2
UGCP	Medium	Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	5	2	2	4	10	0.0	0.2
UGCP	Medium	Amphibian	Rana areolata (Crawfish Frog)	G4/S4	14	4	4	4	8	0.1	0.4
UGCP	Medium	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	8	5	5	26.2	77	1.6	124.9
UGCP	Medium	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	10	6	11	21	177	3.6	636.5
UGCP	Medium	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	17	3	4	24	31	1.1	35.4
UGCP	Medium	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	19	9	80	24	429	1.4	601.3
UGCP	Medium	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	18	13	69	24	425	1.3	555.8
UGCP	Medium	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	5	7	7	24	59	6.7	393.8
UGCP	Medium	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	13	54	24	390	1.1	437.6
UGCP	Medium	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	10	24	35	24.5	609	3.1	1,863.1
UGCP	Medium	Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	26	1	1	24	1	1.7	1.7
UGCP	Medium	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	8	9	16	555.6	118	2.3	274.5
UGCP	Medium	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	20	31	24	508	1.3	679.2
UGCP	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	28	34	107	24	1005	1.1	1,147.7
UGCP	Medium	Bird	Icterus spurius (Orchard Oriole)	G5/S4	29	42	106	24	975	0.7	711.2
UGCP	Medium	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	4	3	4	24	23	0.9	20.9
UGCP	Medium	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	18	6	9	24	50	1.3	64.0
UGCP	Medium	Bird	Limnithyris swainsonii (Swainson's Warbler)	G4/S3	13	25	39	23.2	487	2.2	1,074.3
UGCP	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	20	40	79	24	742	1.1	786.6
UGCP	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	40	86	24	986	1.1	1,123.2
UGCP	Medium	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	19	33	68	24	534	1.6	846.9
UGCP	Medium	Bird	Rallus elegans (King Rail)	G4G5/S2	1	2	2	24	22	5.6	123.3
UGCP	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	8	4	4	24	58	0.6	37.3
UGCP	Medium	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	18	24	47	24	442	1.1	494.7
UGCP	Medium	Bird	Spiza americana (Dickcissel)	G5/S4	20	5	9	24	40	0.3	13.2
UGCP	Medium	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	6	4	4	14.75	20	1.1	21.5
UGCP	Medium	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	3	2	2	24	7	1.5	10.7
UGCP	Medium	Bird	Tyto alba (Barn Owl)	G5/S3	8	1	1	6	2	0.2	0.5
UGCP	Medium	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	9	11	13	24	224	0.3	67.7
UGCP	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	19	22	24	476	1.0	455.5
UGCP	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	10	4	5	5.75	27	0.3	7.0
UGCP	Medium	Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	8	4	4	12.5	29	1.3	37.8
UGCP	Medium	Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	6	3	3	4	4	0.3	1.3
UGCP	Medium	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	16	3	3	16	3	1.1	3.3
UGCP	Medium	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	5	2	2	15.5	2	0.1	0.3
UGCP	Medium	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	11	2	2	6.5	2	0.5	1.0
UGCP	Medium	Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	3	1	1	33	4	10.9	43.6
UGCP	Medium	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	12	5	5	4.4	20	0.1	1.6
UGCP	Medium	Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	4	1	1	6	2	0.1	0.1
UGCP	Medium	Reptile	Nerodia cyclopiion (Green Water Snake)	G5/S2	3	2	4	4.25	11	0.3	3.3
UGCP	Medium	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	7	2	2	15.5	4	2.9	11.6
UGCP	Low	Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	11	5	5	5	43	0.1	4.1
UGCP	Low	Amphibian	Hyla gratiosa (Barking Treefrog)	G5/S3	12	2	3	33.75	3	2.2	6.6
UGCP	Low	Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	5	2	2	4	2	0.0	0.0
UGCP	Low	Amphibian	Rana areolata (Crawfish Frog)	G4/S4	14	4	4	4	7	0.0	0.3
UGCP	Low	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	8	5	6	26.2	216	1.1	243.6
UGCP	Low	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	10	6	11	21	314	3.0	937.1
UGCP	Low	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	17	18	22	24	166	1.1	188.6
UGCP	Low	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	19	21	127	24	1036	1.2	1,257.2
UGCP	Low	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	18	20	101	24	979	1.2	1,218.8
UGCP	Low	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	5	12	12	16.5	62	4.4	275.2
UGCP	Low	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	26	97	24	792	1.2	921.3
UGCP	Low	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	10	26	37	9231	554	2.6	1,427.0
UGCP	Low	Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	26	3	3	24	3	1.1	3.2
UGCP	Low	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	8	10	25	22.3	210	2.1	446.4
UGCP	Low	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	23	34	24	633	1.2	759.7
UGCP	Low	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	28	61	175	24	2232	1.1	2,520.4
UGCP	Low	Bird	Icterus spurius (Orchard Oriole)	G5/S4	29	66	168	24	2312	0.8	1,741.8

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
UGCP	Low	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	4	3	4	24	77	1.2	94.4
UGCP	Low	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	18	24	46	24	240	1.8	423.0
UGCP	Low	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	13	33	49	0606	814	2.3	1,849.4
UGCP	Low	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	20	61	120	24	1876	1.0	1,817.5
UGCP	Low	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	67	136	24	2014	1.1	2,217.9
UGCP	Low	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	19	56	114	24	1190	1.5	1,828.5
UGCP	Low	Bird	Rallus elegans (King Rail)	G4G5/S2	1	1	1	24	19	4.3	82.0
UGCP	Low	Bird	Scolopax minor (American Woodcock)	G5/S4B	8	7	7	24	134	0.5	71.7
UGCP	Low	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	18	39	67	24	763	1.0	797.3
UGCP	Low	Bird	Spiza americana (Dickcissel)	G5/S4	20	21	39	24	198	0.3	65.4
UGCP	Low	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	6	5	5	24	54	1.6	88.9
UGCP	Low	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	3	2	2	24	64	1.5	95.6
UGCP	Low	Bird	Tyto alba (Barn Owl)	G5/S3	8	4	4	17.75	20	1.4	28.4
UGCP	Low	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	9	13	17	24	374	0.3	107.7
UGCP	Low	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	23	27	24	565	0.8	438.6
UGCP	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	10	5	5	5.8	28	0.2	6.5
UGCP	Low	Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	8	5	5	11	56	1.0	56.1
UGCP	Low	Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	6	2	2	4	3	0.2	0.6
UGCP	Low	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	16	4	4	6.5	6	0.2	1.0
UGCP	Low	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	5	1	1	25	2	0.1	0.2
UGCP	Low	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	11	5	5	12.4	5	0.6	2.9
UGCP	Low	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	7	1	1	6	6	0.3	2.1
UGCP	Low	Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	3	1	1	39	1	7.6	7.6
UGCP	Low	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	12	12	13	6667	36	0.1	2.2
UGCP	Low	Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	4	2	2	4.5	2	0.2	0.3
UGCP	Low	Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	3	2	3	3.25	8	0.2	1.9
UGCP	Low	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	6	3	3	4	6	0.2	1.2
UGCP	Low	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	2	3	3	6667	7	0.1	0.7
UGCP	Low	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	7	2	3	11	12	1.1	13.3
UGCP	Low	Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	8	1	1	5	2	0.2	0.4
ILP	Very High	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	2	1	1	6	2	0.1	0.1
ILP	Very High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	10	2	2	36	2	3.5	7.1
ILP	Very High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	15	14	17	4286	87	1.5	134.0
ILP	Very High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	7	3	3	24	6	1.5	8.8
ILP	Very High	Bird	Ammodramus henslowii (Henslow's Sparrow)	G4/S1B	8	3	8	8889	13	14.5	188.8
ILP	Very High	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	23	2	3	24	8	1.1	8.4
ILP	Very High	Bird	Asio flammeus (Short-eared Owl)	G5/S3N	5	2	4	3333	11	1.7	18.9
ILP	Very High	Bird	Botaurus lentiginosus (American Bittern)	G4/S1	5	2	2	28.5	14	12.6	176.2
ILP	Very High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	23	38	50	24	203	1.2	236.3
ILP	Very High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	20	43	62	24	255	1.1	285.7
ILP	Very High	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	9	4	8	27	37	8.5	313.1
ILP	Very High	Bird	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	G5/S3NSPB	7	1	2	42	3	4.2	12.7
ILP	Very High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	48	85	24	263	1.5	398.0
ILP	Very High	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	30	47	88	24	263	0.9	241.1
ILP	Very High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	12	42	64	5556	239	3.5	835.8
ILP	Very High	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	7	1	1	7	2	0.2	0.5
ILP	Very High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	26	49	81	24	289	0.5	157.8
ILP	Very High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	19	54	66	24	272	1.2	314.0
ILP	Very High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	30	49	88	24	292	1.2	364.1
ILP	Very High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	30	48	97	24	333	0.4	127.9
ILP	Very High	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	6	10	24	39	1.8	72.1
ILP	Very High	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	3	2	2	24	16	2.0	32.7
ILP	Very High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	24	31	33	24	165	0.9	142.7
ILP	Very High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	49	89	24	288	1.3	383.2
ILP	Very High	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	6	1	1	34	3	5.0	14.9
ILP	Very High	Bird	Poocetes gramineus (Vesper Sparrow)	G5/S1BS4N	8	1	1	33	3	2.0	6.1
ILP	Very High	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	14	4	7	24	21	1.5	31.8
ILP	Very High	Bird	Rallus elegans (King Rail)	G4G5/S2	2	1	1	24	8	6.4	51.0
ILP	Very High	Bird	Scolopax minor (American Woodcock)	G5/S4B	13	13	14	24	88	0.6	56.4
ILP	Very High	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	20	5	8	24	30	1.1	32.8
ILP	Very High	Bird	Spiza americana (Dickcissel)	G5/S4	21	1	1	24	4	0.3	1.2
ILP	Very High	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	14	2	4	24	29	2.2	64.6
ILP	Very High	Bird	Tyto alba (Barn Owl)	G5/S3	8	1	1	3	4	0.1	0.4
ILP	Very High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	20	36	45	24	200	0.3	64.8
ILP	Very High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	24	54	77	24	290	1.5	422.4
ILP	Very High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	20	40	55	24	209	1.0	202.3
ILP	Very High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	6	1	1	43	2	4.9	9.9
ILP	Very High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	20	7	8	8571	8	4.0	32.2

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
ILP	Very High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	15	2	2	19	2	0.1	0.2
ILP	Very High	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	6	1	1	43	2	2.6	5.2
ILP	Very High	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	13	1	1	34	1	0.5	0.5
ILP	Very High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	17	7	8	5714	15	0.9	13.9
ILP	Very High	Reptile	Heterodon platirhinos (Eastern Hog-nosed Snake)	G5/S4	10	7	13	3061	42	0.5	20.4
ILP	Very High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	10	9	15	8519	46	1.3	60.9
ILP	Very High	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	10	12	17	5556	33	2.1	70.8
ILP	High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	10	1	2	6	2	0.2	0.3
ILP	High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	15	18	19	24.5	216	1.6	335.0
ILP	High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	7	4	4	26.25	9	1.1	9.6
ILP	High	Bird	Ammodramus henslowii (Henslow's Sparrow)	G4/S1B	8	5	13	37.6	13	12.6	163.8
ILP	High	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	23	4	5	24	48	1.1	53.4
ILP	High	Bird	Asio flammeus (Short-eared Owl)	G5/S3N	5	2	3	40.25	4	0.8	3.1
ILP	High	Bird	Botaurus lentiginosus (American Bittern)	G4/S1	5	2	2	28.5	7	8.3	57.8
ILP	High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	23	50	81	24	406	1.3	544.8
ILP	High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	20	59	86	24	379	1.3	495.0
ILP	High	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	9	5	8	26	80	7.6	610.0
ILP	High	Bird	Circus cyaneus (Northern Harrier)	G5/S4N	5	1	1	39	1	1.9	1.9
ILP	High	Bird	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	G5/S3NSPB	7	1	1	45	1	0.5	0.5
ILP	High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	64	136	24	471	1.5	711.6
ILP	High	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	30	68	146	24	501	0.9	455.7
ILP	High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	12	43	61	3798	388	2.9	1,109.7
ILP	High	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	7	1	1	7	2	0.6	1.2
ILP	High	Bird	Empidonax virens (Acadian Flycatcher)	G5/S5	26	76	131	24	650	0.5	322.7
ILP	High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	19	66	82	24	519	0.9	488.2
ILP	High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	30	73	142	24	640	1.1	721.1
ILP	High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	30	67	156	24	707	0.5	348.4
ILP	High	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	7	11	24	58	2.0	114.4
ILP	High	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	3	3	3	24	25	1.3	31.8
ILP	High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	24	46	55	24	374	1.0	382.9
ILP	High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	70	135	24	659	1.3	839.1
ILP	High	Bird	Poocetes gramineus (Vesper Sparrow)	G5/S1BS4N	8	1	1	33	1	0.8	0.8
ILP	High	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	14	16	23	24	152	1.6	245.3
ILP	High	Bird	Rallus elegans (King Rail)	G4G5/S2	2	1	1	24	24	5.7	135.8
ILP	High	Bird	Scolopax minor (American Woodcock)	G5/S4B	13	15	17	24	173	0.8	131.2
ILP	High	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	20	17	24	24	160	1.2	192.6
ILP	High	Bird	Spiza americana (Dickcissel)	G5/S4	21	4	4	24	42	0.3	13.6
ILP	High	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	14	3	5	3333	39	2.1	82.1
ILP	High	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	5	1	1	24	1	4.0	4.0
ILP	High	Bird	Tyto alba (Barn Owl)	G5/S3	8	1	1	3	1	0.3	0.3
ILP	High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	20	47	56	24	383	0.3	131.0
ILP	High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	24	78	124	24	633	1.4	885.1
ILP	High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	20	55	71	24	458	1.0	439.2
ILP	High	Gastropod	Vertigo teskeyae (Swamp Vertigo)	G4/S1	2	1	1	40	1	9.7	9.7
ILP	High	Gastropod	Xolotrema obstrictum (Sharp Wedge)	G3/S5	4	1	1	4	1	0.4	0.4
ILP	High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	6	3	3	3333	8	1.8	14.3
ILP	High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	20	10	15	3333	18	5.3	95.6
ILP	High	Mammal	Ochrotomys nuttalli (Golden Mouse)	G5/SU	6	1	1	6	3	0.0	0.0
ILP	High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	6	1	1	34	1	0.3	0.3
ILP	High	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	6	1	1	34	1	1.1	1.1
ILP	High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	15	3	3	24	5	0.3	1.3
ILP	High	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	6	1	1	43	2	1.6	3.3
ILP	High	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	13	2	2	20	2	0.3	0.6
ILP	High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	17	11	11	7273	26	0.6	14.6
ILP	High	Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	3	1	1	6	1	0.6	0.6
ILP	High	Reptile	Heterodon platirhinos (Eastern Hog-nosed Snake)	G5/S4	10	5	8	19.95	19	0.5	9.8
ILP	High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	10	16	18	16.25	36	1.4	49.4
ILP	High	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	10	13	17	7436	37	1.6	57.9
ILP	Medium	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	2	1	1	6	1	0.1	0.1
ILP	Medium	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	10	2	2	6	2	0.5	1.0
ILP	Medium	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	15	21	25	5714	319	1.3	410.0
ILP	Medium	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	7	6	7	22.5	26	1.3	33.9
ILP	Medium	Bird	Ammodramus henslowii (Henslow's Sparrow)	G4/S1B	8	2	3	37.5	3	6.3	19.0
ILP	Medium	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	23	5	7	24	36	1.1	39.2
ILP	Medium	Bird	Asio flammeus (Short-eared Owl)	G5/S3N	5	1	2	41.5	6	0.6	3.6
ILP	Medium	Bird	Botaurus lentiginosus (American Bittern)	G4/S1	5	2	2	28.5	7	10.0	69.8
ILP	Medium	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	23	59	100	24	694	1.1	794.3
ILP	Medium	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	20	69	103	24	597	1.2	706.5

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bkls.	Avg. Priority Score	Total Priority Score
ILP	Medium	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	9	10	15	17.8	71	6.2	439.6
ILP	Medium	Bird	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	G5/S3NSPB	7	1	1	45	2	0.9	1.8
ILP	Medium	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	86	192	24	845	1.5	1,247.9
ILP	Medium	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	30	89	204	24	857	0.9	754.6
ILP	Medium	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	12	49	76	3175	556	2.1	1,179.0
ILP	Medium	Bird	Empidonax virens (Acadian Flycatcher)	G5/S5	26	99	178	24	1199	0.5	541.0
ILP	Medium	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	19	80	99	24	889	0.9	839.5
ILP	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	30	93	193	24	1216	1.0	1,169.4
ILP	Medium	Bird	Icterus spurius (Orchard Oriole)	G5/S4	30	90	223	24	1336	0.5	725.7
ILP	Medium	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	3	1	1	25	5	0.9	4.6
ILP	Medium	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	14	22	24	90	1.5	137.7
ILP	Medium	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	3	5	5	16	28	1.1	30.4
ILP	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	24	68	82	24	680	1.0	683.1
ILP	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	99	182	24	1207	1.2	1,433.5
ILP	Medium	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	6	1	1	34	2	1.3	2.6
ILP	Medium	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	14	22	37	24	336	1.6	546.2
ILP	Medium	Bird	Rallus elegans (King Rail)	G4G5/S2	2	1	1	24	27	5.8	155.6
ILP	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	13	17	19	24	232	0.7	154.0
ILP	Medium	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	20	32	51	24	387	1.2	468.1
ILP	Medium	Bird	Spiza americana (Dickcissel)	G5/S4	21	4	5	24	14	0.3	4.7
ILP	Medium	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	14	4	6	24	51	2.1	107.9
ILP	Medium	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	5	1	2	24	10	4.0	40.1
ILP	Medium	Bird	Tyto alba (Barn Owl)	G5/S3	8	2	2	25.5	7	0.7	5.2
ILP	Medium	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	20	58	77	24	652	0.3	222.0
ILP	Medium	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	24	100	162	24	1151	1.3	1,538.4
ILP	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	20	69	86	24	800	0.9	701.6
ILP	Medium	Gastropod	Paravittrea metallacta (Caney Fork Supercoil)	G2/S3	6	2	2	6.5	2	0.7	1.3
ILP	Medium	Gastropod	Stenotrema angellum (Kentucky Slimouth)	G3/S3	4	1	1	6	1	0.4	0.4
ILP	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	6	4	4	22.75	9	1.3	11.3
ILP	Medium	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	20	13	15	6923	15	5.0	74.4
ILP	Medium	Mammal	Sorex cinereus (Common Shrew)	G5/S4	6	1	1	34	1	0.1	0.1
ILP	Medium	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	6	1	1	34	1	0.2	0.2
ILP	Medium	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	15	4	4	13	8	0.1	0.4
ILP	Medium	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	6	1	1	43	3	0.5	1.5
ILP	Medium	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	13	2	2	20	4	0.1	0.5
ILP	Medium	Reptile	Anolis carolinensis (Green Anole)	G5/S3	5	1	1	2	1	0.1	0.1
ILP	Medium	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	17	17	20	8824	82	0.6	48.9
ILP	Medium	Reptile	Heterodon platirhinos (Eastern Hogsnod Snake)	G5/S4	10	8	11	12.1875	54	0.3	14.9
ILP	Medium	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	9	1	1	33	1	0.6	0.6
ILP	Medium	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	10	15	20	15.95	51	1.0	49.0
ILP	Medium	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	10	12	15	3333	41	0.8	31.2
ILP	Low	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	2	1	1	6	2	0.1	0.2
ILP	Low	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	10	4	4	20.25	7	1.6	11.3
ILP	Low	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	15	26	32	1538	902	1.4	1,257.6
ILP	Low	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	7	7	8	5714	71	1.3	89.3
ILP	Low	Bird	Ammodramus henslowii (Henslow's Sparrow)	G4/S1B	8	4	5	37.5	8	6.2	49.7
ILP	Low	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	23	29	42	24	241	1.1	270.7
ILP	Low	Bird	Asio flammeus (Short-eared Owl)	G5/S3N	5	1	2	41.5	6	0.8	4.5
ILP	Low	Bird	Botaurus lentiginosus (American Bittern)	G4/S1	5	3	3	21	33	3.7	121.4
ILP	Low	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	23	78	137	24	2329	1.2	2,829.9
ILP	Low	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	20	88	139	24	2153	1.2	2,620.6
ILP	Low	Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	9	14	20	5714	82	4.0	326.1
ILP	Low	Bird	Circus cyaneus (Northern Harrier)	G5/S4N	5	1	1	39	7	0.8	5.6
ILP	Low	Bird	Cistothorus platensis (Sedge Wren or Short-billed Marsh Wren)	G5/S3NSPB	7	1	3	3333	3	1.1	3.2
ILP	Low	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	30	134	341	24	3161	1.4	4,271.6
ILP	Low	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	30	134	359	24	3180	0.8	2,582.8
ILP	Low	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	12	54	92	1605	1056	1.7	1,747.6
ILP	Low	Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	7	3	3	6667	11	2.4	26.1
ILP	Low	Bird	Empidonax virens (Acadian Flycatcher)	G5/S5	26	137	259	24	3897	0.4	1,405.8
ILP	Low	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	19	96	121	24	2113	1.0	2,210.0
ILP	Low	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	30	150	311	24	4140	0.8	3,229.2
ILP	Low	Bird	Icterus spurius (Orchard Oriole)	G5/S4	30	131	382	24	4705	0.5	2,371.4
ILP	Low	Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	3	2	2	25	7	0.5	3.8
ILP	Low	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	47	81	24	432	1.9	838.0
ILP	Low	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	3	7	8	1429	110	0.4	45.1
ILP	Low	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	24	105	153	24	2698	0.8	2,290.7
ILP	Low	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	29	152	292	24	4136	1.0	4,036.4
ILP	Low	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	6	1	1	34	3	1.9	5.6

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
ILP	Low	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	14	46	89	24	832	1.6	1,320.7
ILP	Low	Bird	Rallus elegans (King Rail)	G4G5/S2	2	2	2	26	18	1.9	34.8
ILP	Low	Bird	Scolopax minor (American Woodcock)	G5/S4B	13	25	27	24	739	0.6	419.7
ILP	Low	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	20	80	123	24	1055	1.1	1,200.2
ILP	Low	Bird	Spiza americana (Dickcissel)	G5/S4	21	20	30	24	243	0.3	78.3
ILP	Low	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	14	14	21	7143	126	1.9	238.1
ILP	Low	Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	5	1	2	24	54	3.2	174.9
ILP	Low	Bird	Tyto alba (Barn Owl)	G5/S3	8	5	6	24.6	31	2.1	65.9
ILP	Low	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	20	70	91	24	1677	0.3	540.2
ILP	Low	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	24	146	247	24	3760	1.2	4,618.1
ILP	Low	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	20	80	110	24	1847	0.6	1,119.0
ILP	Low	Gastropod	Paravitrea metallacta (Caney Fork Supercoil)	G2/S3	6	2	2	6.5	5	0.7	3.4
ILP	Low	Gastropod	Stenotrema angellum (Kentucky Slitmouth)	G3/S3	4	1	1	6	3	0.3	0.9
ILP	Low	Gastropod	Ventridens eutropis (Carinate Dome)	G2/S3?	3	1	1	4	1	0.4	0.4
ILP	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	6	6	7	3333	47	0.8	39.2
ILP	Low	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	20	17	22	5294	30	3.5	105.2
ILP	Low	Mammal	Sorex cinereus (Common Shrew)	G5/S4	6	1	1	34	1	0.3	0.3
ILP	Low	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	4	1	1	6	1	0.3	0.3
ILP	Low	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	6	1	1	34	1	1.1	1.1
ILP	Low	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	15	10	10	19.9	14	0.2	3.3
ILP	Low	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	6	1	1	43	3	1.2	3.6
ILP	Low	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	6	1	1	34	1	0.2	0.2
ILP	Low	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	13	4	4	19.75	4	0.1	0.5
ILP	Low	Reptile	Anolis carolinensis (Green Anole)	G5/S3	5	1	1	5	9	0.2	2.1
ILP	Low	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	17	15	20	12.9	203	0.4	71.5
ILP	Low	Reptile	Heterodon platirhinus (Eastern Hognosed Snake)	G5/S4	10	8	13	11.25	79	0.4	34.0
ILP	Low	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	10	22	30	303	128	1.2	148.3
ILP	Low	Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	10	16	20	10.9375	67	0.7	46.4
CPM	Very High	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	16	4	4	3.5	5	0.1	0.6
CPM	Very High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	12	8	9	9.625	9	0.2	2.2
CPM	Very High	Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	4	2	2	6.5	3	0.2	0.7
CPM	Very High	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	11	5	6	5.6	11	0.1	1.2
CPM	Very High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	7	19	1429	418	1.7	703.6
CPM	Very High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	3	2	2	6	2	0.3	0.6
CPM	Very High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	12	35	45	24	344	1.1	387.3
CPM	Very High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	13	37	83	24	540	1.5	812.3
CPM	Very High	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	14	32	80	24	541	0.7	375.9
CPM	Very High	Bird	Corvus corax (Common Raven)	G5/S2	3	1	1	2	4	0.1	0.5
CPM	Very High	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	3	1	2	24	12	1.1	13.1
CPM	Very High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	14	21	91	7316	510	4.5	2,292.8
CPM	Very High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	12	30	86	24	526	1.1	598.9
CPM	Very High	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	13	27	48	24	503	0.7	371.9
CPM	Very High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	38	79	24	532	0.6	339.3
CPM	Very High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	15	37	66	24	532	1.2	656.0
CPM	Very High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	15	28	82	24	530	1.4	757.5
CPM	Very High	Bird	Limnithys swainsonii (Swainson's Warbler)	G4/S3	12	12	19	5556	341	1.6	557.4
CPM	Very High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	9	16	20	24	83	0.9	77.2
CPM	Very High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	47	79	24	542	1.1	609.7
CPM	Very High	Bird	Scolopax minor (American Woodcock)	G5/S4B	7	10	11	24	134	0.7	87.4
CPM	Very High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	12	14	30	2857	433	2.8	1,207.0
CPM	Very High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	7	5	6	24	51	0.3	15.8
CPM	Very High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	15	38	83	24	534	1.5	812.8
CPM	Very High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	13	33	78	24	531	1.1	565.7
CPM	Very High	Gastropod	Anguispira cumberlandiana (Cumberland Tigersnail)	G1G2/S3?	4	1	1	5	1	1.6	1.6
CPM	Very High	Gastropod	Fumoneix wetherbyi (Clifty Covert)	G2G3/S3	7	4	4	4.75	5	0.3	1.7
CPM	Very High	Gastropod	Helicodiscus aldrichianus (Burrowing Coil)	G2/S3?	3	1	1	5	1	1.2	1.2
CPM	Very High	Gastropod	Inflectarius smithi (Alabama Shagreen)	G2/S2?	4	1	1	36	1	11.0	11.0
CPM	Very High	Gastropod	Megapallifera wetherbyi (Blotchy Mantleslug)	G2G3/S3	4	1	1	6	1	1.3	1.3
CPM	Very High	Gastropod	Mesodon sanus (Squat Globelet)	G3/S2S3	3	1	1	41	1	2.6	2.6
CPM	Very High	Gastropod	Paravitrea bellona (Club Supercoil)	G1/S?	3	1	1	6	1	0.6	0.6
CPM	Very High	Gastropod	Paravitrea calcicola (Pearl Supercoil)	G1/S1?	4	3	3	6667	3	1.0	3.0
CPM	Very High	Gastropod	Paravitrea petrophila (Cherokee Supercoil)	G2G3/S4	2	1	1	5	1	0.3	0.3
CPM	Very High	Gastropod	Paravitrea tantilla (Teasing Supercoil)	G2G3/S4	3	2	2	6	3	0.3	0.8
CPM	Very High	Gastropod	Paravitrea umbilicaris (Open Supercoil)	G2/S3?	5	1	1	6	1	1.4	1.4
CPM	Very High	Gastropod	Paravitrea variabilis (Variable Supercoil)	G2/S2S3	3	1	1	40	1	12.3	12.3
CPM	Very High	Gastropod	Philomycus sellatus (Alabama Mantleslug)	G2G3/S3?	5	1	1	5	2	0.8	1.6
CPM	Very High	Gastropod	Pilsbryna castanea (Prominent Bud)	G1/S2	2	1	1	6	1	3.2	3.2
CPM	Very High	Gastropod	Stenotrema calvescens (Chattanooga Slitmouth)	G2/S3S4	5	2	2	4	2	0.7	1.3

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
CPM	Very High	Gastropod	Stenotrema exodon (Alabama Slitmouth)	G2/S?	7	3	3	6	3	1.1	3.2
CPM	Very High	Gastropod	Stenotrema magnafumosum (Appalachian Slitmouth)	G3/S3S4	4	1	1	5	1	0.8	0.8
CPM	Very High	Gastropod	Xolotrema obstrictum (Sharp Wedge)	G3/S5	3	2	2	4.5	2	0.3	0.5
CPM	Very High	Gastropod	Zonitoides lateumbilicatus (Striate Gloss)	G2G3/S2?	2	1	1	41	1	10.8	10.8
CPM	Very High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	9	10	12	21.05	47	2.5	118.2
CPM	Very High	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	8	3	3	3333	15	0.6	9.4
CPM	Very High	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	5	7	6.4	30	0.2	5.1
CPM	Very High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	12	14	14	2857	14	3.9	55.0
CPM	Very High	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	4	1	1	7	5	0.3	1.6
CPM	Very High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	7	3	3	3333	3	0.2	0.7
CPM	Very High	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	5	2	2	5	2	0.9	1.8
CPM	Very High	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	14	11	13	1818	21	0.3	6.5
CPM	Very High	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	8	2	2	6	2	0.2	0.4
CPM	Very High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	7	4	4	6	4	0.1	0.2
CPM	Very High	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	9	3	3	32	31	2.1	66.4
CPM	Very High	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	3	6	6.5	18	0.3	4.5
CPM	Very High	Reptile	Anolis carolinensis (Green Anole)	G5/S3	3	2	2	2	2	0.0	0.0
CPM	Very High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	9	3	3	6667	13	0.4	5.5
CPM	Very High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	6	2	2	29	3	1.4	4.1
CPM	Very High	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	8	3	3	3333	3	0.4	1.2
CPM	Very High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	8	8	9	8.125	9	0.8	7.6
CPM	High	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	16	6	6	5	17	0.3	5.6
CPM	High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	12	7	10	8571	18	0.6	10.1
CPM	High	Amphibian	Plethodon wehrlei (Wehrle's Salamander)	G5/S1	2	1	1	7	8	1.2	9.6
CPM	High	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	11	5	5	11.2	15	0.2	2.4
CPM	High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	8	24	8571	576	1.2	701.4
CPM	High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	12	32	49	24	838	1.0	817.0
CPM	High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	13	32	102	24	1509	1.5	2,227.8
CPM	High	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	14	26	102	24	1513	0.7	1,024.3
CPM	High	Bird	Corvus corax (Common Raven)	G5/S2	3	1	1	2	2	0.0	0.1
CPM	High	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	3	1	2	24	10	1.2	11.8
CPM	High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	14	22	90	669	1410	3.6	5,107.1
CPM	High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	12	23	109	24	1521	1.1	1,749.1
CPM	High	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	13	26	60	24	1337	0.7	980.9
CPM	High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	32	101	24	1532	0.7	1,005.6
CPM	High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	15	32	85	24	1529	1.3	1,924.8
CPM	High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	15	22	116	24	1533	1.5	2,233.2
CPM	High	Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	12	13	27	4359	744	1.2	910.2
CPM	High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	9	16	24	24	211	0.8	167.6
CPM	High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	35	97	24	1514	1.2	1,826.7
CPM	High	Bird	Scolopax minor (American Woodcock)	G5/S4B	7	13	15	24	278	0.7	186.3
CPM	High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	12	12	28	6667	789	2.6	2,042.1
CPM	High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	7	6	7	24	93	0.3	26.6
CPM	High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	15	35	103	24	1539	1.5	2,299.1
CPM	High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	13	27	103	24	1526	1.1	1,679.6
CPM	High	Gastropod	Funonelix wetherbyi (Cliffy Covert)	G2G3/S3	7	3	3	3333	4	0.4	1.7
CPM	High	Gastropod	Inflectarius downianus (Dwarf Globelet)	G3/S4	2	1	1	5	1	0.7	0.7
CPM	High	Gastropod	Paravitrea tantilla (Teasing Supercoil)	G2G3/S4	3	1	1	6	1	1.1	1.1
CPM	High	Gastropod	Paravitrea umbilicaris (Open Supercoil)	G2/S3?	5	1	1	6	1	1.4	1.4
CPM	High	Gastropod	Philomyces sellatus (Alabama Mantleslug)	G2G3/S3?	5	1	1	6	1	1.2	1.2
CPM	High	Gastropod	Pilsbryna castanea (Prominent Bud)	G1/S2	2	1	1	6	1	3.2	3.2
CPM	High	Gastropod	Stenotrema calvescens (Chattanooga Slitmouth)	G2/S3S4	5	2	2	4.5	2	0.8	1.6
CPM	High	Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	2	1	1	6	2	0.2	0.4
CPM	High	Gastropod	Xolotrema obstrictum (Sharp Wedge)	G3/S5	3	1	1	5	1	0.5	0.5
CPM	High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	9	10	14	16.25	71	1.2	86.9
CPM	High	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	8	3	4	3333	37	0.6	22.8
CPM	High	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	3	4	3333	5	0.1	0.4
CPM	High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	12	10	10	23.6	16	2.1	33.9
CPM	High	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	4	1	1	6	1	0.1	0.1
CPM	High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	7	2	2	6.5	3	0.2	0.5
CPM	High	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	14	10	11	5.6	17	0.2	3.7
CPM	High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	7	6	6	6667	8	0.1	0.8
CPM	High	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	9	4	5	28.875	68	0.9	62.9
CPM	High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	9	4	5	11.75	44	0.4	16.6
CPM	High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	6	2	2	29	29	0.3	7.5
CPM	High	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	8	3	3	3333	3	1.0	3.1
CPM	High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	8	6	6	6667	17	0.6	9.6
CPM	Medium	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	16	7	8	3.5	18	0.2	3.5

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bkls.	Avg. Priority Score	Total Priority Score
CPM	Medium	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	12	9	10	1111	21	0.9	19.9
CPM	Medium	Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	4	1	1	6	1	0.1	0.1
CPM	Medium	Amphibian	Plethodon wehrlei (Wehrle's Salamander)	G5/S1	2	1	1	7	4	1.8	7.0
CPM	Medium	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	11	7	7	8571	13	0.1	1.5
CPM	Medium	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	9	25	0952	525	1.2	609.0
CPM	Medium	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	3	4	4	6	15	0.2	3.0
CPM	Medium	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	12	43	66	24	1366	1.0	1,310.0
CPM	Medium	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	13	44	148	24	1940	1.3	2,554.9
CPM	Medium	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	14	37	155	24	1852	0.6	1,197.6
CPM	Medium	Bird	Corvus corax (Common Raven)	G5/S2	3	1	1	2	42	0.1	4.6
CPM	Medium	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	3	1	2	24	16	1.1	17.2
CPM	Medium	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	14	25	76	9697	913	2.9	2,649.9
CPM	Medium	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	12	35	162	24	1977	1.1	2,237.7
CPM	Medium	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	13	33	74	24	1273	0.7	926.7
CPM	Medium	Bird	Empidonax virens (Acadian Flycatcher)	G5/S5	13	48	142	24	1948	0.6	1,152.6
CPM	Medium	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	15	45	110	24	1821	1.3	2,281.3
CPM	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	15	27	172	24	2034	1.2	2,526.0
CPM	Medium	Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	12	14	32	0612	577	1.2	689.1
CPM	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	9	18	30	24	333	0.7	247.2
CPM	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	50	133	24	1848	1.2	2,146.0
CPM	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	7	17	19	24	463	0.6	271.0
CPM	Medium	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	15	1	2	24	2	1.0	1.9
CPM	Medium	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	12	16	31	24	536	2.3	1,244.6
CPM	Medium	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	7	6	6	24	76	0.3	21.9
CPM	Medium	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	15	42	156	24	1954	1.3	2,586.4
CPM	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	13	45	149	24	1994	1.0	1,999.8
CPM	Medium	Gastropod	Anguispira alabama (Alabama Tigersnail)	G2/S3?	3	1	1	4	1	1.0	1.0
CPM	Medium	Gastropod	Fumoneix wetherbyi (Clifty Covert)	G2G3/S3	7	1	1	4	1	0.1	0.1
CPM	Medium	Gastropod	Glyphyalinia rimula (Tongued Glyph)	G2/S3	2	1	1	5	2	0.3	0.7
CPM	Medium	Gastropod	Helicodiscus hexodon (Toothy Coil)	G1/S1	6	2	2	6	7	1.7	11.9
CPM	Medium	Gastropod	Inflectarius downieanus (Dwarf Globelet)	G3/S4	2	1	1	5	1	0.7	0.7
CPM	Medium	Gastropod	Inflectarius smithi (Alabama Shagreen)	G2/S2?	4	1	1	36	1	4.3	4.3
CPM	Medium	Gastropod	Megapallifera wetherbyi (Blotchy Mantleslug)	G2G3/S3	4	2	2	4.5	2	0.6	1.3
CPM	Medium	Gastropod	Mesodon sanus (Squat Globelet)	G3/S2S3	3	1	1	41	1	3.5	3.5
CPM	Medium	Gastropod	Paravitrea bellona (Club Supercoil)	G1/S?	3	1	1	6	1	0.1	0.1
CPM	Medium	Gastropod	Paravitrea tantilla (Teasing Supercoil)	G2G3/S4	3	1	1	6	2	0.6	1.3
CPM	Medium	Gastropod	Philomycus sellatus (Alabama Mantleslug)	G2G3/S3?	5	1	1	5	2	0.4	0.7
CPM	Medium	Gastropod	Stenotrema calvescens (Chattanooga Slitmouth)	G2/S3S4	5	1	1	4	1	0.6	0.6
CPM	Medium	Gastropod	Stenotrema exodon (Alabama Slitmouth)	G2/S?	7	1	1	6	2	0.4	0.8
CPM	Medium	Gastropod	Ventridens eutropis (Carinate Dome)	G2/S3?	1	1	1	5	1	0.5	0.5
CPM	Medium	Gastropod	Zonitoides lateumbilicatus (Striate Gloss)	G2G3/S2?	2	1	1	41	1	4.2	4.2
CPM	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	9	11	18	2424	176	1.0	178.1
CPM	Medium	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	8	4	5	6	46	0.6	27.1
CPM	Medium	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	1	1	6	5	0.1	0.7
CPM	Medium	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	12	14	14	7143	17	2.2	37.9
CPM	Medium	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	4	1	1	6	2	0.5	1.0
CPM	Medium	Mammal	Sorex cinereus (Common Shrew)	G5/S4	7	3	3	6	4	0.3	1.0
CPM	Medium	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	14	8	8	5.125	14	0.2	2.6
CPM	Medium	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	8	1	1	6	1	0.2	0.2
CPM	Medium	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	7	5	5	5.2	10	0.2	1.5
CPM	Medium	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	9	4	5	28.875	48	0.7	35.5
CPM	Medium	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	1	2	6	5	0.2	1.2
CPM	Medium	Reptile	Anolis carolinensis (Green Anole)	G5/S3	3	1	1	4	6	0.2	1.3
CPM	Medium	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	9	3	4	6667	99	0.8	80.4
CPM	Medium	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	6	2	2	29	16	0.6	10.2
CPM	Medium	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	8	6	6	6667	13	0.5	6.9
CPM	Medium	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	8	10	12	11.1	49	0.6	27.9
CPM	Low	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	16	6	7	3333	19	0.1	1.4
CPM	Low	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	12	13	13	3077	29	0.6	16.7
CPM	Low	Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	4	2	2	4.5	4	0.3	1.2
CPM	Low	Amphibian	Plethodon wehrlei (Wehrle's Salamander)	G5/S1	2	1	1	7	6	0.6	3.6
CPM	Low	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	11	6	6	10.5	16	0.2	3.1
CPM	Low	Amphibian	Pseudotriton montanus (Mud Salamander)	G5/S5	8	1	1	6	1	0.0	0.0
CPM	Low	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	11	24	2727	757	1.1	834.3
CPM	Low	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	3	4	5	6	35	0.2	7.6
CPM	Low	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	7	1	1	24	1	1.2	1.2
CPM	Low	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	12	44	73	24	1576	0.9	1,463.9
CPM	Low	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	13	53	181	24	2932	1.2	3,551.7

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
CPM	Low	Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	14	43	201	24	2843	0.6	1,766.9
CPM	Low	Bird	Corvus corax (Common Raven)	G5/S2	3	1	1	2	15	0.1	1.8
CPM	Low	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	3	1	2	24	2	0.7	1.4
CPM	Low	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	14	25	58	26.29	626	2.2	1,401.0
CPM	Low	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	12	40	185	24	2877	1.1	3,103.9
CPM	Low	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	13	34	73	24	1316	0.6	801.3
CPM	Low	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	57	155	24	2621	0.5	1,225.8
CPM	Low	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	15	49	115	24	2061	1.1	2,239.3
CPM	Low	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	15	38	210	24	3017	1.0	3,150.7
CPM	Low	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	5	1	1	24	4	2.1	8.4
CPM	Low	Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	12	14	30	7937	495	0.9	469.6
CPM	Low	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	9	25	37	24	707	0.8	579.3
CPM	Low	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	63	149	24	2841	0.9	2,567.6
CPM	Low	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	3	1	1	24	1	1.7	1.7
CPM	Low	Bird	Scolopax minor (American Woodcock)	G5/S4B	7	17	19	24	375	0.6	228.4
CPM	Low	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	15	8	13	24	16	1.5	23.5
CPM	Low	Bird	Tyto alba (Barn Owl)	G5/S3	3	1	1	24	1	2.1	2.1
CPM	Low	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	12	16	31	24	449	2.0	910.2
CPM	Low	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	7	6	7	24	117	0.3	34.8
CPM	Low	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	15	52	180	24	2911	1.3	3,642.0
CPM	Low	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	13	51	167	24	2989	0.8	2,410.1
CPM	Low	Gastropod	Anguispira alabama (Alabama Tigersnail)	G2/S3?	3	1	1	4	1	0.6	0.6
CPM	Low	Gastropod	Anguispira cumberlandiana (Cumberland Tigersnail)	G1G2/S3?	4	1	1	5	1	0.6	0.6
CPM	Low	Gastropod	Glyphyalinia rimula (Tongued Glyph)	G2/S3	2	1	1	5	1	1.3	1.3
CPM	Low	Gastropod	Helicodiscus hexodon (Toothy Coil)	G1/S1	6	1	1	6	1	1.2	1.2
CPM	Low	Gastropod	Megapallifera wetherbyi (Blotchy Mantleslug)	G2G3/S3	4	1	1	4	1	0.3	0.3
CPM	Low	Gastropod	Philomycus sellatus (Alabama Mantleslug)	G2G3/S3?	5	2	2	5.5	2	0.6	1.1
CPM	Low	Gastropod	Stenotrema calvescens (Chattanooga Slitmouth)	G2/S3S4	5	1	1	5	1	0.7	0.7
CPM	Low	Gastropod	Stenotrema exodon (Alabama Slitmouth)	G2/S?	7	1	1	6	4	0.5	2.1
CPM	Low	Gastropod	Stenotrema magnafumosum (Appalachian Slitmouth)	G3/S3S4	4	1	1	5	2	0.4	0.8
CPM	Low	Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	2	1	1	6	1	0.8	0.8
CPM	Low	Gastropod	Xolotrema obstrictum (Sharp Wedge)	G3/S5	3	1	1	4	1	0.4	0.4
CPM	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	9	11	17	8182	199	1.6	313.3
CPM	Low	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	8	3	4	3333	34	0.6	21.5
CPM	Low	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	1	1	6	1	0.0	0.0
CPM	Low	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	12	14	15	1429	31	1.4	43.9
CPM	Low	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	4	1	1	6	1	0.2	0.2
CPM	Low	Mammal	Sorex cinereus (Common Shrew)	G5/S4	7	1	1	6	2	0.2	0.3
CPM	Low	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	5	2	2	5	3	0.7	2.2
CPM	Low	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	14	15	15	6667	31	0.2	5.8
CPM	Low	Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	8	1	1	6	1	0.1	0.1
CPM	Low	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	7	4	4	6	5	0.1	0.3
CPM	Low	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	9	3	4	3333	62	0.8	50.5
CPM	Low	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	1	1	6	2	0.0	0.1
CPM	Low	Reptile	Anolis carolinensis (Green Anole)	G5/S3	3	1	1	4	6	0.2	1.1
CPM	Low	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	9	4	5	11.75	44	0.7	32.4
CPM	Low	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	6	2	2	29	7	0.2	1.5
CPM	Low	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	8	11	11	6364	17	0.4	6.0
CPM	Low	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	8	12	14	3333	71	1.3	95.7
RV	Very High	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	5	3	3	11	9	0.4	3.8
RV	Very High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	9	3	10	6667	75	1.6	121.7
RV	Very High	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	3	1	2	36	43	8.6	368.3
RV	Very High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	4	2	2	5	6	0.1	0.6
RV	Very High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	16	10	12	24	68	1.4	97.3
RV	Very High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	11	7	11	24	67	1.5	97.4
RV	Very High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	20	9	22	24	81	1.4	116.7
RV	Very High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	5	6	6	24	21	3.5	72.5
RV	Very High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	8	7	18	24	79	1.2	92.8
RV	Very High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	11	19	24	79	0.5	40.8
RV	Very High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	6	12	24	76	1.1	86.3
RV	Very High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	20	9	22	24	81	1.1	91.8
RV	Very High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	20	9	15	24	67	0.3	21.3
RV	Very High	Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	5	3	3	3333	8	0.8	6.8
RV	Very High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	15	2	2	24	2	1.2	2.3
RV	Very High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	9	14	24	78	0.9	67.5
RV	Very High	Bird	Scolopax minor (American Woodcock)	G5/S4B	9	3	3	24	29	0.6	16.1
RV	Very High	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	5	1	1	24	1	1.1	1.1
RV	Very High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	4	1	1	24	12	2.8	34.0

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
RV	Very High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	5	1	1	24	6	0.2	1.1
RV	Very High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	16	11	15	24	80	1.3	101.9
RV	Very High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	9	13	24	77	0.8	62.4
RV	Very High	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	5	1	1	36	10	5.1	50.6
RV	Very High	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	1	1	35	1	0.2	0.2
RV	Very High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	9	4	4	35	8	1.3	10.7
RV	Very High	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	7	2	2	35	6	5.7	34.1
RV	Very High	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	11	3	4	25	10	1.0	9.9
RV	Very High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	12	2	2	22.5	5	0.1	0.5
RV	Very High	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	1	1	35	1	1.2	1.2
RV	Very High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	7	1	1	0	4	-	-
RV	Very High	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	7	3	3	35	5	2.3	11.5
RV	Very High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	3	2	3	35	8	3.6	29.1
RV	High	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	5	2	2	13	12	0.2	1.9
RV	High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	7	3	3	6667	5	2.0	10.2
RV	High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	9	15	31	5238	333	1.4	482.3
RV	High	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	3	1	2	36	26	3.5	91.3
RV	High	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	4	3	3	15	6	2.0	11.7
RV	High	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	13	2	2	24	2	1.2	2.4
RV	High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	16	17	27	24	293	1.3	373.9
RV	High	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	11	17	40	24	397	1.2	466.9
RV	High	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	20	20	68	24	508	1.4	714.6
RV	High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	5	9	14	3333	166	3.2	523.5
RV	High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	8	20	51	24	445	1.2	512.4
RV	High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	29	54	24	441	0.6	249.1
RV	High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	14	23	44	24	441	1.2	526.0
RV	High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	20	19	74	24	502	1.3	645.6
RV	High	Bird	Icterus spurius (Orchard Oriole)	G5/S4	20	24	60	24	419	0.3	132.0
RV	High	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	2	2	24	2	2.1	4.2
RV	High	Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	5	6	8	12.5	21	0.9	18.0
RV	High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	15	5	9	24	92	1.0	87.8
RV	High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	29	51	24	490	1.0	488.5
RV	High	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1B54N	2	1	1	32	1	6.7	6.7
RV	High	Bird	Scolopax minor (American Woodcock)	G5/S4B	9	10	11	24	165	0.7	109.4
RV	High	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	5	2	5	24	73	2.2	161.4
RV	High	Bird	Spiza americana (Dickcissel)	G5/S4	8	1	1	24	1	0.3	0.3
RV	High	Bird	Tyto alba (Barn Owl)	G5/S3	12	2	2	24	2	2.1	4.2
RV	High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	4	3	4	24	68	2.4	165.8
RV	High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	5	3	3	24	27	0.3	7.7
RV	High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	16	28	50	24	493	1.4	701.4
RV	High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	27	50	24	413	1.0	402.0
RV	High	Gastropod	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	G1/S2S3	3	1	1	5	1	2.4	2.4
RV	High	Gastropod	Paravittrea blarina (Shrew Supercoil)	G2/S3	1	1	1	5	2	0.7	1.5
RV	High	Gastropod	Paravittrea petrophila (Cherokee Supercoil)	G2G3/S4	2	1	1	5	1	0.9	0.9
RV	High	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	4	2	3	5.5	21	0.3	6.5
RV	High	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	5	1	1	36	68	4.4	301.1
RV	High	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	3	3	34	3	0.4	1.3
RV	High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	6	3	3	6667	4	1.9	7.4
RV	High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	9	6	6	29	11	0.6	6.9
RV	High	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	7	2	2	35	3	3.0	8.9
RV	High	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	11	5	5	17.6	11	0.3	3.6
RV	High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	12	8	8	24.25	11	0.3	3.5
RV	High	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	1	1	35	1	0.7	0.7
RV	High	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	7	1	1	0	9	-	-
RV	High	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	7	3	3	35	6	1.1	6.9
RV	High	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	3	2	5	3333	38	2.1	79.7
RV	Medium	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	5	1	1	7	1	0.3	0.3
RV	Medium	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	7	3	3	3333	17	1.6	27.2
RV	Medium	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	9	18	37	3248	548	1.4	741.6
RV	Medium	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	3	1	1	24	6	3.3	19.8
RV	Medium	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	4	3	3	15	19	0.9	17.4
RV	Medium	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	13	3	14	24	43	1.2	50.8
RV	Medium	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	16	28	50	24	560	1.2	661.0
RV	Medium	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	11	21	46	24	658	1.0	681.1
RV	Medium	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	20	25	102	24	921	1.3	1,200.8
RV	Medium	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	5	9	12	22	135	2.3	315.5
RV	Medium	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	8	29	66	24	724	1.1	814.3
RV	Medium	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	33	71	24	703	0.6	388.9

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
RV	Medium	Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	14	32	62	24	676	1.2	801.8
RV	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	20	24	107	24	823	1.3	1,030.1
RV	Medium	Bird	Icterus spurius (Orchard Oriole)	G5/S4	20	34	101	24	672	0.3	216.6
RV	Medium	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	5	12	24	44	2.0	90.1
RV	Medium	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	5	4	6	19.75	21	1.4	30.3
RV	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	15	11	17	24	230	1.0	221.5
RV	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	41	71	24	829	1.0	795.7
RV	Medium	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1B54N	2	1	2	28	17	4.6	78.1
RV	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	9	15	16	24	180	0.6	109.9
RV	Medium	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	5	4	9	24	166	3.8	632.9
RV	Medium	Bird	Spiza americana (Dickcissel)	G5/S4	8	1	3	24	17	0.3	5.7
RV	Medium	Bird	Tyto alba (Barn Owl)	G5/S3	12	5	8	3333	44	2.0	90.2
RV	Medium	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	4	2	2	24	41	2.3	93.4
RV	Medium	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	5	2	2	24	59	0.3	15.0
RV	Medium	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	16	42	85	24	784	1.4	1,106.6
RV	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	37	66	24	723	1.0	702.4
RV	Medium	Gastropod	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	G1/S2S3	3	1	1	5	1	0.9	0.9
RV	Medium	Gastropod	Paravittrea petrophila (Cherokee Supercoil)	G2G3/S4	2	1	1	5	1	0.3	0.3
RV	Medium	Gastropod	Paravittrea tantilla (Teasing Supercoil)	G2G3/S4	3	1	1	5	1	0.1	0.1
RV	Medium	Gastropod	Paravittrea tridens (White-foot Supercoil)	G1G2/S2	2	1	1	41	1	6.9	6.9
RV	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	4	2	2	5.5	40	0.4	16.2
RV	Medium	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	5	1	1	36	25	3.2	79.7
RV	Medium	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	1	1	35	1	0.2	0.2
RV	Medium	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	6	1	1	38	2	2.2	4.5
RV	Medium	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	8	3	3	3333	4	1.3	5.3
RV	Medium	Mammal	Sorex cinereus (Common Shrew)	G5/S4	9	5	5	26.6	6	0.6	3.6
RV	Medium	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	7	1	1	35	1	0.9	0.9
RV	Medium	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	11	6	6	3333	9	0.5	4.4
RV	Medium	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	12	15	18	3333	31	0.6	19.7
RV	Medium	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	2	2	20	7	0.4	2.9
RV	Medium	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	10	1	1	35	1	0.5	0.5
RV	Medium	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	7	1	1	0	4	-	-
RV	Medium	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	7	2	2	35	3	1.3	4.0
RV	Medium	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	3	3	6	5556	43	1.5	63.6
RV	Low	Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	5	1	1	20	5	0.7	3.6
RV	Low	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	7	4	4	29.25	26	1.2	32.4
RV	Low	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	9	23	50	1594	1989	1.4	2,830.0
RV	Low	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	3	1	2	36	52	1.9	99.2
RV	Low	Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	4	4	4	12.5	69	0.5	31.1
RV	Low	Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	13	23	60	24	338	1.1	381.8
RV	Low	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	16	50	102	24	2622	1.2	3,093.4
RV	Low	Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	11	30	65	24	1684	1.1	1,918.7
RV	Low	Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	20	49	225	24	3259	1.1	3,710.8
RV	Low	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	5	9	13	22	200	2.2	439.3
RV	Low	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	8	40	92	24	1665	1.1	1,753.3
RV	Low	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	13	48	102	24	1593	0.4	699.0
RV	Low	Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	14	54	92	24	1624	1.1	1,826.8
RV	Low	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	20	45	208	24	2626	1.0	2,709.3
RV	Low	Bird	Icterus spurius (Orchard Oriole)	G5/S4	20	56	207	24	2429	0.3	774.5
RV	Low	Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	19	27	55	24	357	1.9	681.4
RV	Low	Bird	Limothlypis swainsonii (Swainson's Warbler)	G4/S3	5	7	10	7143	84	0.9	73.3
RV	Low	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	15	22	33	24	976	0.8	818.9
RV	Low	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	15	65	110	24	2179	0.8	1,648.3
RV	Low	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1B54N	2	1	2	28	28	3.5	98.6
RV	Low	Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	10	3	3	24	5	1.6	7.9
RV	Low	Bird	Scolopax minor (American Woodcock)	G5/S4B	9	17	20	24	517	0.6	322.3
RV	Low	Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	13	4	4	24	6	1.1	6.7
RV	Low	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	5	7	12	24	732	4.2	3,099.0
RV	Low	Bird	Spiza americana (Dickcissel)	G5/S4	8	7	10	24	100	0.3	32.2
RV	Low	Bird	Tyto alba (Barn Owl)	G5/S3	12	10	23	27.35	240	1.8	443.6
RV	Low	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	4	3	4	24	67	1.9	129.6
RV	Low	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	5	3	3	24	146	0.3	39.4
RV	Low	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	16	68	136	24	2208	1.3	2,820.1
RV	Low	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	14	46	89	24	1748	0.8	1,387.9
RV	Low	Gastropod	Anguispira knoxensis (Rustic Tigersnail or Black Range Disc)	G1/S2S3	3	2	2	5	6	1.5	9.0
RV	Low	Gastropod	Paravittrea alethia (Goddess Supercoil)	G1/S1?	4	1	1	5	1	0.9	0.9
RV	Low	Gastropod	Paravittrea blarina (Shrew Supercoil)	G2/S3	1	2	2	5	4	0.9	3.6
RV	Low	Gastropod	Paravittrea petrophila (Cherokee Supercoil)	G2G3/S4	2	1	1	5	2	0.2	0.4

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bks.	Avg. Priority Score	Total Priority Score
RV	Low	Gastropod	Paravittrea placentula (Glossy Supercoil)	G3/S3	3	1	1	6	1	1.1	1.1
RV	Low	Gastropod	Paravittrea tantilla (Teasing Supercoil)	G2G3/S4	3	2	2	5.5	4	0.7	2.7
RV	Low	Gastropod	Philomycus virginicus (Virginia Mantleslug)	G3/S2S3	2	1	1	6	1	1.3	1.3
RV	Low	Gastropod	Ventridens coelaxis (Bidentate Dome)	G3/S2S3	3	1	1	41	1	9.0	9.0
RV	Low	Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	3	1	1	6	1	0.8	0.8
RV	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	4	2	3	5.5	75	0.4	27.0
RV	Low	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	5	2	2	38	59	3.0	178.6
RV	Low	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	7	1	1	35	3	1.4	4.3
RV	Low	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	6	2	2	6	2	0.5	0.9
RV	Low	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	8	4	4	11.25	6	0.4	2.3
RV	Low	Mammal	Sorex cinereus (Common Shrew)	G5/S4	9	5	5	26.6	6	0.6	3.5
RV	Low	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	11	9	10	4444	23	0.7	15.3
RV	Low	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	12	17	19	8235	39	0.4	17.3
RV	Low	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	10	2	2	20	8	0.5	4.4
RV	Low	Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	10	2	2	35	2	0.5	1.1
RV	Low	Reptile	Anolis carolinensis (Green Anole)	G5/S3	2	1	1	6	2	0.1	0.1
RV	Low	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	7	3	3	6667	12	0.0	0.0
RV	Low	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	7	1	1	35	2	0.9	1.7
RV	Low	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	3	4	6	19.5	96	1.8	174.1
SBR	Very High	Amphibian	Desmognathus aeneus (Seepage Salamander)	G3G4/S1	15	7	10	5714	13	1.0	12.5
SBR	Very High	Amphibian	Desmognathus wrighti (Pigmy Salamander)	G3G4/S2	15	4	4	6	6	0.9	5.5
SBR	Very High	Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	9	2	2	23	2	2.3	4.5
SBR	Very High	Amphibian	Plethodon jordani (Red-cheeked Salamander)	G2/S2	28	8	11	5.6875	19	1.8	34.7
SBR	Very High	Amphibian	Plethodon welleri (Weller's Salamander)	G3/S1	15	6	8	11	13	1.0	13.5
SBR	Very High	Amphibian	Plethodon yonahlossee (Yonahlossee Salamander)	G4/S3	13	6	6	5	12	0.4	4.4
SBR	Very High	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	6	1	1	4	2	0.1	0.1
SBR	Very High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	3	3	3333	14	1.4	19.1
SBR	Very High	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	4	3	3	35	5	8.3	41.5
SBR	Very High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	6	1	1	24	1	0.7	0.7
SBR	Very High	Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	7	3	3	24	9	1.8	16.5
SBR	Very High	Bird	Contopus cooperi (Olive-sided Flycatcher)	G4/S1	3	1	1	24	1	1.1	1.1
SBR	Very High	Bird	Corvus corax (Common Raven)	G5/S2	6	2	6	31.875	13	4.7	61.3
SBR	Very High	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	10	2	6	24	13	1.2	15.9
SBR	Very High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	8	5	5	29	11	2.9	32.3
SBR	Very High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	9	3	4	24	8	1.0	8.4
SBR	Very High	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	10	2	7	24	12	0.7	8.3
SBR	Very High	Bird	Empidonax alnorum (Alder Flycatcher)	G5/S1	3	1	1	35	1	12.6	12.6
SBR	Very High	Bird	Empidonax minimus (Least Flycatcher)	G5/S3	5	1	1	24	4	2.1	8.5
SBR	Very High	Bird	Empidonax virens (Acadian Flycatcher)	G5/S5	10	3	6	24	11	0.4	4.1
SBR	Very High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	10	3	6	24	13	1.2	15.9
SBR	Very High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	10	2	7	24	13	0.8	10.3
SBR	Very High	Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	6	3	3	3333	3	1.4	4.3
SBR	Very High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	3	1	1	24	2	0.8	1.7
SBR	Very High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	10	3	5	24	9	1.2	10.6
SBR	Very High	Bird	Poecile atricapillus (Black-capped Chickadee)	G5/S2B	4	2	2	24	4	4.0	16.0
SBR	Very High	Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	4	2	3	24	9	0.5	4.8
SBR	Very High	Bird	Scolopax minor (American Woodcock)	G5/S4B	3	1	1	24	2	1.0	2.0
SBR	Very High	Bird	Sphyrapicus varius (Yellow-bellied Sapsucker)	G5/S1BS4N	4	1	2	37	4	7.3	29.3
SBR	Very High	Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	7	3	4	24	12	0.9	10.9
SBR	Very High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	5	2	4	29.5	8	3.3	26.2
SBR	Very High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	9	3	4	24	9	1.3	11.6
SBR	Very High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	10	2	7	24	13	1.2	15.4
SBR	Very High	Gastropod	Discus bryanti (Sawtooth Disc)	G2/S1S2	8	4	5	41	8	17.1	136.6
SBR	Very High	Gastropod	Fumoneilx wheatleyi (Cinnamon Covert)	G4/S3	15	4	4	39.75	9	4.1	36.7
SBR	Very High	Gastropod	Fumoneilx wheatleyi clingmanicus (Clingman Covert)	G4T2T3/S2S3	7	2	2	6	3	1.1	3.2
SBR	Very High	Gastropod	Glyphyalinia junaluskana (Dark Glyph)	G2/S2?	2	1	1	6	1	0.7	0.7
SBR	Very High	Gastropod	Glyphyalinia pentadelphia (Pink Glyph)	G2G3/S2	10	5	6	38.7	12	10.1	121.3
SBR	Very High	Gastropod	Glyphyalinia vanatai (Honey Glyph)	G1G2/S2S3	6	2	3	41	3	11.4	34.1
SBR	Very High	Gastropod	Haplotrema kendeighi (Blue-footed Lancetooth)	G1G2/S3	9	2	2	6.5	3	2.2	6.7
SBR	Very High	Gastropod	Helicodiscus fimbriatus (Fringed Coil)	G4/S3	8	1	1	40	2	5.3	10.5
SBR	Very High	Gastropod	Inflectarius subpalliatu (Velvet Covert)	G2/S2S3	10	5	5	41	9	10.2	92.2
SBR	Very High	Gastropod	Mesodon andrewsae (Balsam Globe)	G3/S3	8	4	4	6.25	7	0.8	5.7
SBR	Very High	Gastropod	Mesomphix rugeli (Wrinkled Button)	G3/S3	5	4	4	6	7	0.7	5.2
SBR	Very High	Gastropod	Paravittrea andrewsae (High Mountain Supercoil)	G2/S3?	4	1	1	6	2	0.3	0.6
SBR	Very High	Gastropod	Paravittrea lamellidens (Lamellate Supercoil)	G2/S2	12	6	7	6667	11	11.5	126.6
SBR	Very High	Gastropod	Paravittrea tridens (White-foot Supercoil)	G1G2/S2	8	5	6	41	10	14.1	140.7
SBR	Very High	Gastropod	Paravittrea varidens (Roan Supercoil)	G1G2/S1S2	5	2	2	4	4	1.4	5.7
SBR	Very High	Gastropod	Patera clarki (Dwarf Proud Globe)	G3/S2S3	8	1	1	6	1	0.5	0.5

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
SBR	Very High	Gastropod	Pilsbryna aurea (Ornate Bud)	G1/S1	8	2	2	23.5	4	16.0	64.2
SBR	Very High	Gastropod	Stenotrema altispira (Highland Siltmouth)	G2/S2?	11	6	6	41	11	11.2	123.6
SBR	Very High	Gastropod	Striatura exigua (Ribbed Striate)	G4G5/S1	4	2	2	41	5	8.7	43.7
SBR	Very High	Gastropod	Ventridens decussatus (Crossed Dome)	G2G3/S2?	9	4	4	6	7	0.9	6.6
SBR	Very High	Gastropod	Vertigo clappi (Cupped Vertigo)	G1G2/S1	4	1	1	41	2	20.3	40.5
SBR	Very High	Gastropod	Vertigo parvula (Smallmouth Vertigo)	G2G3/S2S3	7	1	1	41	2	10.8	21.5
SBR	Very High	Mammal	Lepus americanus (Snowshoe Hare)	G5/SR	1	1	1	4	2	0.0	0.1
SBR	Very High	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	6	2	2	41	5	7.7	38.6
SBR	Very High	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	13	17	19	8824	24	0.7	16.0
SBR	Very High	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	8	1	1	6	1	0.9	0.9
SBR	Very High	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	14	3	4	6667	5	0.8	4.2
SBR	Very High	Mammal	Sorex cinereus (Common Shrew)	G5/S4	24	14	18	7143	20	1.3	25.3
SBR	Very High	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	12	5	5	21.6	7	3.6	25.5
SBR	Very High	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	15	18	19	4444	25	0.9	22.1
SBR	Very High	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	8	1	1	6	2	0.3	0.5
SBR	Very High	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	4	1	1	6	2	0.3	0.7
SBR	Very High	Mammal	Sylvilagus transitionalis (Appalachian Cottontail (= New England Cottontail))	G4/S3	2	2	2	34	2	1.2	2.4
SBR	Very High	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	7	4	5	5.25	6	0.3	1.6
SBR	Very High	Mammal	Tamiasciurus hudsonicus (Red Squirrel)	G5/S4S5	5	2	2	6	2	0.1	0.2
SBR	Very High	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	6	2	4	3333	6	0.5	3.0
SBR	High	Amphibian	Desmognathus aeneus (Seepage Salamander)	G3G4/S1	15	10	15	5.6	45	0.9	38.7
SBR	High	Amphibian	Desmognathus wrighti (Pigmy Salamander)	G3G4/S2	15	16	27	4286	146	0.5	67.1
SBR	High	Amphibian	Hemidactylum scutatum (Four-toed Salamander)	G5/S3	9	4	5	14.375	5	1.1	5.4
SBR	High	Amphibian	Plethodon aureolus (Tellico Salamander)	G2G3/S2S3	5	1	1	6	2	1.6	3.2
SBR	High	Amphibian	Plethodon jordani (Red-cheeked Salamander)	G2/S2	28	22	32	3896	97	1.1	107.5
SBR	High	Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	5	2	2	6	5	0.5	2.5
SBR	High	Amphibian	Plethodon welleri (Weller's Salamander)	G3/S1	15	11	15	6364	34	2.9	99.0
SBR	High	Amphibian	Plethodon yonahlossee (Yonahlossee Salamander)	G4/S3	13	7	7	7143	9	0.3	2.3
SBR	High	Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	6	3	3	6667	5	0.1	0.5
SBR	High	Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	7	11	15	8485	290	0.6	175.1
SBR	High	Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	4	3	3	3333	182	6.3	1,155.3
SBR	High	Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	6	9	9	24	13	1.2	15.6
SBR	High	Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	7	7	13	24	313	3.1	967.9
SBR	High	Bird	Contopus cooperi (Olive-sided Flycatcher)	G4/S1	3	2	3	18.5	250	8.8	2,188.8
SBR	High	Bird	Corvus corax (Common Raven)	G5/S2	6	3	28	6465	363	4.2	1,507.3
SBR	High	Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	10	7	36	24	368	1.3	470.7
SBR	High	Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	8	11	15	9091	133	2.3	307.3
SBR	High	Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	9	12	23	24	76	1.0	74.0
SBR	High	Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	10	10	41	24	380	0.5	188.6
SBR	High	Bird	Empidonax alnorum (Alder Flycatcher)	G5/S1	3	2	3	30.5	9	6.3	56.4
SBR	High	Bird	Empidonax minimus (Least Flycatcher)	G5/S3	5	5	8	24	23	1.8	41.3
SBR	High	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	10	10	44	24	173	0.5	91.7
SBR	High	Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	10	15	37	24	188	1.2	216.8
SBR	High	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	10	7	40	24	190	0.9	167.6
SBR	High	Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	6	9	13	6667	66	1.6	105.5
SBR	High	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	3	2	2	24	3	1.2	3.5
SBR	High	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	10	16	29	24	167	1.0	171.9
SBR	High	Bird	Poecile atricapillus (Black-capped Chickadee)	G5/S2B	4	3	10	24	305	4.8	1,449.1
SBR	High	Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	4	4	12	24	334	1.5	512.8
SBR	High	Bird	Scolopax minor (American Woodcock)	G5/S4B	3	6	6	24	115	0.7	85.0
SBR	High	Bird	Sitta canadensis (Red-breasted Nuthatch)	G5/S2BS4N	5	3	3	3333	73	2.1	152.5
SBR	High	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	1	1	1	24	2	1.1	2.3
SBR	High	Bird	Sphyrapicus varius (Yellow-bellied Sapsucker)	G5/S1BS4N	4	4	8	10.35	34	3.9	132.0
SBR	High	Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	7	7	15	24	341	1.5	504.8
SBR	High	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	5	3	6	6667	13	2.4	31.1
SBR	High	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	2	1	1	24	2	0.3	0.7
SBR	High	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	9	19	24	24	72	1.0	70.9
SBR	High	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	10	9	47	24	229	1.2	265.4
SBR	High	Gastropod	Discus bryanti (Sawtooth Disc)	G2/S1S2	8	3	3	41	4	13.5	53.8
SBR	High	Gastropod	Fumonelix wheatleyi (Cinnamon Covert)	G4/S3	15	4	4	39.75	8	3.1	24.7
SBR	High	Gastropod	Fumonelix wheatleyi clingmanicus (Clingman Covert)	G4T2T3/S2S3	7	4	4	6.25	24	0.9	20.5
SBR	High	Gastropod	Glyphyalinia junaluskana (Dark Glyph)	G2/S2?	2	1	1	6	2	1.8	3.7
SBR	High	Gastropod	Glyphyalinia ocoae (Blue-gray Glyph)	G1/S2	2	1	1	40	2	21.0	42.0
SBR	High	Gastropod	Glyphyalinia pentadelphia (Pink Glyph)	G2G3/S2	10	5	6	39.7	10	8.9	88.8
SBR	High	Gastropod	Glyphyalinia vanattai (Honey Glyph)	G1G2/S2S3	6	2	2	41	2	8.1	16.1
SBR	High	Gastropod	Haplotrema kendeighi (Blue-footed Lanceletooth)	G1G2/S3	9	4	4	5.25	8	1.3	10.5
SBR	High	Gastropod	Helicodiscus fimbriatus (Fringed Coil)	G4/S3	8	1	1	40	3	2.6	7.9

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
SBR	High	Gastropod	<i>Inflectarius downieanus</i> (Dwarf Globelet)	G3/S4	3	1	1	4	1	0.5	0.5
SBR	High	Gastropod	<i>Inflectarius ferrissi</i> (Smokey Mountain Covert)	G2/S2S3	12	4	4	5.5	29	0.9	26.3
SBR	High	Gastropod	<i>Inflectarius subpalliatu</i> s (Velvet Covert)	G2/S2S3	10	4	4	41	9	6.6	59.4
SBR	High	Gastropod	<i>Mesodon allivagus</i> (Wandering Globe)	G2G3/S?	10	1	1	6	4	0.4	1.8
SBR	High	Gastropod	<i>Mesodon andrewsae</i> (Balsam Globe)	G3/S3	8	1	1	6	1	1.1	1.1
SBR	High	Gastropod	<i>Mesomphix andrewsae</i> (Mountain Button)	G2G3/S3S4	15	4	4	7	14	0.6	8.9
SBR	High	Gastropod	<i>Mesomphix rugeli</i> (Wrinkled Button)	G3/S3	5	3	3	5	3	0.6	1.9
SBR	High	Gastropod	<i>Mesomphix subplanus</i> (Flat Button)	G3/S3S4	9	4	4	5.75	13	0.5	5.9
SBR	High	Gastropod	<i>Paravitrea andrewsae</i> (High Mountain Supercoil)	G2/S3?	4	1	1	6	1	0.2	0.2
SBR	High	Gastropod	<i>Paravitrea clappi</i> (Mirey Ridge Supercoil)	G2G3/S2S3	3	1	1	6	1	1.6	1.6
SBR	High	Gastropod	<i>Paravitrea lamellidens</i> (Lamellate Supercoil)	G2/S2	12	5	5	41	7	8.7	60.7
SBR	High	Gastropod	<i>Paravitrea placentula</i> (Glossy Supercoil)	G3/S3	3	2	2	5	2	0.2	0.3
SBR	High	Gastropod	<i>Paravitrea ternaria</i> (Sculpted Supercoil)	G1/S1S2	3	1	1	6	1	2.3	2.3
SBR	High	Gastropod	<i>Paravitrea tridens</i> (White-foot Supercoil)	G1G2/S2	8	4	4	41	8	9.8	78.7
SBR	High	Gastropod	<i>Paravitrea varidens</i> (Roan Supercoil)	G1G2/S1S2	5	1	1	4	1	0.8	0.8
SBR	High	Gastropod	<i>Patera clarki</i> (Dwarf Proud Globe)	G3/S2S3	8	4	4	5.25	25	0.6	15.4
SBR	High	Gastropod	<i>Pilsbryna aurea</i> (Ornate Bud)	G1/S1	8	3	3	3333	6	22.1	132.7
SBR	High	Gastropod	<i>Stenotrema altispira</i> (Highland Slitmouth)	G2/S2?	11	4	4	41	6	8.8	53.1
SBR	High	Gastropod	<i>Stenotrema depilatum</i> (Great Smoky Slitmouth)	G2/S3	9	4	4	6.5	30	0.9	25.8
SBR	High	Gastropod	<i>Stenotrema pilula</i> (Pygmy Slitmouth)	G3G4/S3	6	4	4	5.25	7	0.6	3.9
SBR	High	Gastropod	<i>Striatura exigua</i> (Ribbed Striate)	G4G5/S1	4	2	2	41	4	5.7	22.6
SBR	High	Gastropod	<i>Triodopsis anteridon</i> (Carter Three-tooth or Buttress Three-tooth)	G2G3/S1S2	3	1	1	41	3	11.4	34.1
SBR	High	Gastropod	<i>Ventridens coelaxis</i> (Bidentate Dome)	G3/S2S3	2	1	1	41	2	7.2	14.5
SBR	High	Gastropod	<i>Ventridens decussatus</i> (Crossed Dome)	G2G3/S2?	9	2	2	6.5	3	1.5	4.5
SBR	High	Gastropod	<i>Ventridens lasmodon</i> (Hollow Dome)	G3/S4	3	1	1	5	1	0.4	0.4
SBR	High	Gastropod	<i>Vertigo clappi</i> (Cupped Vertigo)	G1G2/S1	4	1	1	41	2	15.4	30.9
SBR	High	Gastropod	<i>Vertigo parvula</i> (Smallmouth Vertigo)	G2G3/S2S3	7	3	3	41	8	7.2	58.0
SBR	High	Mammal	<i>Corynorhinus rafinesquii</i> (Rafinesque's Big-eared Bat)	G3G4/S3	3	4	7	6667	49	0.3	13.9
SBR	High	Mammal	<i>Lepus americanus</i> (Snowshoe Hare)	G5/SR	1	1	1	4	2	0.0	0.1
SBR	High	Mammal	<i>Microtus chrotorrhinus carolinensis</i> (Southern Rock Vole)	G4T3/S2	16	8	9	3.375	30	0.7	21.0
SBR	High	Mammal	<i>Myotis leibii</i> (Eastern Small-footed Bat)	G3/S2S3	6	5	5	33.2	87	2.2	187.7
SBR	High	Mammal	<i>Napaeozapus insignis</i> (Woodland Jumping Mouse)	G5/S4	13	39	45	4872	87	0.3	29.8
SBR	High	Mammal	<i>Neotoma floridana haematareia</i> (Southern Appalachian Woodrat)	G5T4O/S2	9	10	10	7.9	12	1.5	17.4
SBR	High	Mammal	<i>Neotoma magister</i> (Allegheny Woodrat)	G3G4/S3	8	6	6	6667	7	1.8	12.8
SBR	High	Mammal	<i>Parascalops breweri</i> (Hairy-tailed Mole)	G5/S3	14	16	17	9.46875	26	0.7	18.3
SBR	High	Mammal	<i>Sorex cinereus</i> (Common Shrew)	G5/S4	24	37	44	955	81	0.5	44.1
SBR	High	Mammal	<i>Sorex dispar</i> (Long-tailed or Rock Shrew)	G4/S2	12	7	10	9	26	1.5	38.8
SBR	High	Mammal	<i>Sorex fumeus</i> (Smoky Shrew)	G5/S4	15	55	69	8788	120	0.5	60.7
SBR	High	Mammal	<i>Sorex longirostris</i> (Southeastern Shrew)	G5/S4	8	3	3	6667	4	0.1	0.6
SBR	High	Mammal	<i>Spilogale putorius</i> (Eastern Spotted Skunk)	G5/S3	4	2	2	18	21	0.5	10.3
SBR	High	Mammal	<i>Sylvilagus transitionalis</i> (Appalachian Cottontail (= New England Cottontail))	G4/S3	2	1	1	34	1	0.5	0.5
SBR	High	Mammal	<i>Synaptomys cooperi</i> (Southern Bog Lemming)	G5/S4	7	12	12	3333	18	0.2	3.5
SBR	High	Mammal	<i>Tamiasciurus hudsonicus</i> (Red Squirrel)	G5/S4S5	5	2	2	6.5	2	0.1	0.2
SBR	High	Reptile	<i>Anolis carolinensis</i> (Green Anole)	G5/S3	4	4	4	3.25	5	0.2	1.1
SBR	High	Reptile	<i>Crotalus horridus</i> (Timber Rattlesnake)	G4/S4	6	7	13	7.75	101	0.3	27.0
SBR	High	Reptile	<i>Heterodon platirhinos</i> (Eastern Hognosed Snake)	G5/S4	3	2	2	2	17	0.0	0.6
SBR	High	Reptile	<i>Ophisaurus attenuatus longicaudus</i> (Eastern Slender Glass Lizard)	G5T5/S3	2	1	1	3	1	0.0	0.0
SBR	High	Reptile	<i>Pituophis melanoleucus melanoleucus</i> (Northern Pine Snake)	G4T4/S3	4	3	3	5	3	0.6	1.8
SBR	Medium	Amphibian	<i>Desmognathus aeneus</i> (Seepage Salamander)	G3G4/S1	15	14	26	5714	119	0.9	106.8
SBR	Medium	Amphibian	<i>Desmognathus wrighti</i> (Pigmy Salamander)	G3G4/S2	15	16	27	4286	229	0.4	87.4
SBR	Medium	Amphibian	<i>Hemidactylium scutatum</i> (Four-toed Salamander)	G5/S3	9	6	7	3333	34	0.4	15.0
SBR	Medium	Amphibian	<i>Plethodon jordani</i> (Red-cheeked Salamander)	G2/S2	28	16	22	1667	48	1.0	45.6
SBR	Medium	Amphibian	<i>Plethodon richmondi</i> (Ravine Salamander)	G5/S2	5	4	4	5.75	14	0.4	6.3
SBR	Medium	Amphibian	<i>Plethodon welleri</i> (Weller's Salamander)	G3/S1	15	13	20	0769	58	2.2	125.6
SBR	Medium	Amphibian	<i>Plethodon yonahlossee</i> (Yonahlossee Salamander)	G4/S3	13	8	9	5.125	30	0.3	10.0
SBR	Medium	Amphibian	<i>Pseudacris brachyphona</i> (Mountain Chorus Frog)	G5/S4	6	3	3	6667	18	0.1	1.2
SBR	Medium	Bird	<i>Accipiter striatus</i> (Sharp-shinned Hawk)	G5/S3B	7	11	15	8485	1474	1.0	1,476.7
SBR	Medium	Bird	<i>Aegolius acadicus</i> (Northern Saw-whet Owl)	G5/S1	4	4	4	32.25	336	2.2	751.2
SBR	Medium	Bird	<i>Caprimulgus carolinensis</i> (Chuck-will's-widow)	G5/S3S4	6	8	11	24	145	1.3	186.9
SBR	Medium	Bird	<i>Certhia americana</i> (Brown Creeper)	G5/S2BS4N	7	7	18	24	1467	1.9	2,818.1
SBR	Medium	Bird	<i>Contopus cooperi</i> (Olive-sided Flycatcher)	G4/S1	3	2	3	18.5	308	2.1	632.7
SBR	Medium	Bird	<i>Corvus corax</i> (Common Raven)	G5/S2	6	3	40	2308	2361	3.7	8,677.2
SBR	Medium	Bird	<i>Dendroica caerulescens</i> (Black-throated Blue Warbler)	G5/S4	10	8	62	24	1475	1.3	1,938.4
SBR	Medium	Bird	<i>Dendroica cerulea</i> (Cerulean Warbler)	G4/S3B	8	12	15	25	365	2.3	855.0
SBR	Medium	Bird	<i>Dendroica dominica</i> (Yellow-throated Warbler)	G5/S4	9	13	48	24	826	1.0	839.5
SBR	Medium	Bird	<i>Dendroica virens</i> (Black-throated Green Warbler)	G5/S5	10	11	91	24	2270	0.5	1,038.8
SBR	Medium	Bird	<i>Empidonax alnorum</i> (Alder Flycatcher)	G5/S1	3	3	4	32	66	4.0	266.5

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
SBR	Medium	Bird	Empidonax minimus (Least Flycatcher)	G5/S3	5	5	8	24	251	1.8	457.0
SBR	Medium	Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	10	11	93	24	1249	0.5	664.6
SBR	Medium	Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	10	17	77	24	1088	1.3	1,433.1
SBR	Medium	Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	10	9	106	24	1298	0.9	1,170.2
SBR	Medium	Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	6	14	23	5714	335	1.3	428.9
SBR	Medium	Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	3	4	4	24	73	0.9	64.3
SBR	Medium	Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	10	21	49	24	1066	1.0	1,118.2
SBR	Medium	Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	4	1	2	24	10	4.5	44.9
SBR	Medium	Bird	Poocetes atricapillus (Black-capped Chickadee)	G5/S2B	4	3	13	24	1405	4.9	6,930.4
SBR	Medium	Bird	Poocetes gramineus (Vesper Sparrow)	G5/S1BS4N	6	1	2	24	10	4.1	41.5
SBR	Medium	Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	4	4	16	24	1535	1.5	2,277.2
SBR	Medium	Bird	Scolopax minor (American Woodcock)	G5/S4B	3	6	7	24	166	0.7	119.4
SBR	Medium	Bird	Sitta canadensis (Red-breasted Nuthatch)	G5/S2BS4N	5	3	3	3333	63	0.8	51.1
SBR	Medium	Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	1	1	1	24	2	3.4	6.9
SBR	Medium	Bird	Sphyrapicus varius (Yellow-bellied Sapsucker)	G5/S1BS4N	4	4	7	11	39	1.8	68.4
SBR	Medium	Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	2	1	1	2	1	0.1	0.1
SBR	Medium	Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	7	8	23	24	1728	1.5	2,510.3
SBR	Medium	Bird	Tyto alba (Barn Owl)	G5/S3	2	1	1	6	10	0.5	4.5
SBR	Medium	Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	5	3	5	24	88	2.5	222.4
SBR	Medium	Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	2	2	2	24	15	0.3	4.4
SBR	Medium	Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	9	25	37	24	793	1.1	836.0
SBR	Medium	Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	10	11	110	24	1365	1.1	1,520.1
SBR	Medium	Gastropod	Discus bryanti (Sawtooth Disc)	G2/S1S2	8	2	2	41	2	4.5	9.0
SBR	Medium	Gastropod	Fumonelix wheatleyi (Cinnamon Covert)	G4/S3	15	3	3	3333	6	1.0	5.9
SBR	Medium	Gastropod	Fumonelix wheatleyi clingmanicus (Clingman Covert)	G4T2T3/S2S3	7	4	4	6.25	15	0.3	4.6
SBR	Medium	Gastropod	Glyphyalinia ocoae (Blue-gray Glyph)	G1/S2	2	1	1	40	2	9.5	18.9
SBR	Medium	Gastropod	Glyphyalinia pentadelphia (Pink Glyph)	G2G3/S2	10	6	7	3333	24	3.0	71.7
SBR	Medium	Gastropod	Glyphyalinia vanattai (Honey Glyph)	G1G2/S2S3	6	1	1	41	1	1.8	1.8
SBR	Medium	Gastropod	Haplotrema kendeighi (Blue-footed Lancetooth)	G1G2/S3	9	4	4	5.25	4	0.5	2.1
SBR	Medium	Gastropod	Helicodiscus fimbriatus (Fringed Coil)	G4/S3	8	1	1	40	1	3.2	3.2
SBR	Medium	Gastropod	Inflectarius downieanus (Dwarf Globelet)	G3/S4	3	1	1	4	1	0.1	0.1
SBR	Medium	Gastropod	Inflectarius ferrisi (Smoky Mountain Covert)	G2/S2S3	12	4	4	5.5	17	0.3	5.7
SBR	Medium	Gastropod	Inflectarius subpalliatum (Velvet Covert)	G2/S2S3	10	4	4	41	5	3.4	16.9
SBR	Medium	Gastropod	Mesodon altivagus (Wandering Globe)	G2G3/S?	10	1	1	6	4	0.5	2.2
SBR	Medium	Gastropod	Mesodon andrewsae (Balsam Globe)	G3/S3	8	4	4	6.25	7	0.7	4.6
SBR	Medium	Gastropod	Mesomphix andrewsae (Mountain Button)	G2G3/S3S4	15	3	3	7	11	0.4	4.7
SBR	Medium	Gastropod	Mesomphix rugeli (Wrinkled Button)	G3/S3	5	5	5	5.6	10	0.5	4.7
SBR	Medium	Gastropod	Mesomphix subplanus (Flat Button)	G3/S3S4	9	3	3	6667	14	0.4	5.2
SBR	Medium	Gastropod	Paravitrea andrewsae (High Mountain Supercoil)	G2/S3?	4	2	2	6	6	0.4	2.4
SBR	Medium	Gastropod	Paravitrea clappi (Mirey Ridge Supercoil)	G2G3/S2S3	3	1	1	6	1	1.6	1.6
SBR	Medium	Gastropod	Paravitrea lamellidens (Lamellate Supercoil)	G2/S2	12	3	3	3333	6	2.0	11.9
SBR	Medium	Gastropod	Paravitrea placentula (Glossy Supercoil)	G3/S3	3	2	2	5	3	0.2	0.5
SBR	Medium	Gastropod	Paravitrea reesei (Round Supercoil)	G2/S1S2	3	1	1	6	1	2.6	2.6
SBR	Medium	Gastropod	Paravitrea ternaria (Sculpted Supercoil)	G1/S1S2	3	1	1	6	5	2.0	10.0
SBR	Medium	Gastropod	Paravitrea tridens (White-foot Supercoil)	G1G2/S2	8	3	3	41	4	3.3	13.1
SBR	Medium	Gastropod	Paravitrea umbilicaris (Open Supercoil)	G2/S3?	4	2	2	5.5	3	1.1	3.4
SBR	Medium	Gastropod	Paravitrea varidens (Roan Supercoil)	G1G2/S1S2	5	1	1	4	3	0.4	1.3
SBR	Medium	Gastropod	Patera clarki (Dwarf Proud Globe)	G3/S2S3	8	3	3	5	23	0.2	4.3
SBR	Medium	Gastropod	Pilsbryna aurea (Ornate Bud)	G1/S1	8	4	4	23.75	8	4.6	36.5
SBR	Medium	Gastropod	Stenotrema altispira (Highland Slitmouth)	G2/S2?	11	3	3	41	3	3.5	10.6
SBR	Medium	Gastropod	Stenotrema cohuttense (Cohutta Slitmouth)	G1G2/S2	5	1	1	40	3	13.9	41.8
SBR	Medium	Gastropod	Stenotrema depilatum (Great Smoky Slitmouth)	G2/S3	9	4	4	6.5	15	0.4	5.8
SBR	Medium	Gastropod	Stenotrema magnafumosum (Appalachian Slitmouth)	G3/S3S4	4	2	2	6	2	0.9	1.8
SBR	Medium	Gastropod	Stenotrema pilula (Pygmy Slitmouth)	G3G4/S3	6	4	4	5.25	7	0.2	1.4
SBR	Medium	Gastropod	Striatura exigua (Ribbed Striate)	G4G5/S1	4	1	1	41	4	1.7	6.7
SBR	Medium	Gastropod	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	G2G3/S1S2	3	1	1	41	5	4.5	22.4
SBR	Medium	Gastropod	Ventridens decussatus (Crossed Dome)	G2G3/S2?	9	3	3	6	5	0.9	4.3
SBR	Medium	Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	3	1	1	5	1	0.7	0.7
SBR	Medium	Gastropod	Vertigo clappi (Cupped Vertigo)	G1G2/S1	4	1	1	41	1	2.9	2.9
SBR	Medium	Gastropod	Vertigo parvula (Smallmouth Vertigo)	G2G3/S2S3	7	3	3	41	4	2.7	10.8
SBR	Medium	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	3	4	8	12.75	314	0.2	73.7
SBR	Medium	Mammal	Lepus americanus (Snowshoe Hare)	G5/SR	1	1	1	4	15	0.0	0.3
SBR	Medium	Mammal	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	G4T3/S2	16	8	9	3.375	67	0.3	16.8
SBR	Medium	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	6	5	5	33.2	454	2.6	1,183.7
SBR	Medium	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	13	31	37	129	128	0.2	22.1
SBR	Medium	Mammal	Neotoma floridana haematorea (Southern Appalachian Woodrat)	G5T4O/S2	9	6	6	18.5	9	1.9	17.4
SBR	Medium	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	8	5	5	11.8	17	1.4	23.5
SBR	Medium	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	14	14	15	2857	38	0.6	24.1

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Bkls.	Avg. Priority Score	Total Priority Score
SBR	Medium	Mammal	<i>Sorex cinereus</i> (Common Shrew)	G5/S4	24	19	21	5789	51	0.4	21.5
SBR	Medium	Mammal	<i>Sorex dispar</i> (Long-tailed or Rock Shrew)	G4/S2	12	6	7	6667	12	1.2	13.9
SBR	Medium	Mammal	<i>Sorex fumeus</i> (Smoky Shrew)	G5/S4	15	50	64	6667	211	0.3	59.8
SBR	Medium	Mammal	<i>Sorex longirostris</i> (Southeastern Shrew)	G5/S4	8	6	6	6667	6	0.4	2.2
SBR	Medium	Mammal	<i>Spilogale putorius</i> (Eastern Spotted Skunk)	G5/S3	4	2	2	18	44	0.2	10.7
SBR	Medium	Mammal	<i>Sylvilagus transitionalis</i> (Appalachian Cottontail (= New England Cottontail))	G4/S3	2	2	2	34	11	1.7	18.4
SBR	Medium	Mammal	<i>Synaptomys cooperi</i> (Southern Bog Lemming)	G5/S4	7	8	8	8.125	16	0.2	3.9
SBR	Medium	Mammal	<i>Tamiasciurus hudsonicus</i> (Red Squirrel)	G5/S4S5	5	2	2	6	6	0.1	0.7
SBR	Medium	Mammal	<i>Zapus hudsonius</i> (Meadow Jumping Mouse)	G5/S4	9	1	1	6	3	0.0	0.1
SBR	Medium	Reptile	<i>Anolis carolinensis</i> (Green Anole)	G5/S3	4	5	5	3.4	16	0.2	2.7
SBR	Medium	Reptile	<i>Crotalus horridus</i> (Timber Rattlesnake)	G4/S4	6	8	17	7.15625	487	0.1	54.7
SBR	Medium	Reptile	<i>Glyptemys muhlenbergii</i> (Bog Turtle)	G3/S1	5	2	3	52.25	12	3.8	45.2
SBR	Medium	Reptile	<i>Heterodon platirhinos</i> (Eastern Hognosed Snake)	G5/S4	3	4	5	2.875	39	0.0	1.0
SBR	Medium	Reptile	<i>Ophisaurus attenuatus longicaudus</i> (Eastern Slender Glass Lizard)	G5T5/S3	2	5	5	3	13	0.1	1.6
SBR	Medium	Reptile	<i>Pituophis melanoleucus melanoleucus</i> (Northern Pine Snake)	G4T4/S3	4	6	6	4.5	13	0.2	3.1
SBR	Low	Amphibian	<i>Desmognathus aeneus</i> (Seepage Salamander)	G3G4/S1	15	16	37	7.875	190	0.7	126.3
SBR	Low	Amphibian	<i>Desmognathus wrighti</i> (Pigmy Salamander)	G3G4/S2	15	12	13	3333	56	0.3	14.6
SBR	Low	Amphibian	<i>Hemidactylium scutatum</i> (Four-toed Salamander)	G5/S3	9	7	12	8571	61	0.3	20.9
SBR	Low	Amphibian	<i>Plethodon aureolus</i> (Tellico Salamander)	G2G3/S2S3	5	1	1	6	11	0.1	1.6
SBR	Low	Amphibian	<i>Plethodon jordani</i> (Red-cheeked Salamander)	G2/S2	28	8	8	2.875	32	0.4	11.7
SBR	Low	Amphibian	<i>Plethodon richmondi</i> (Ravine Salamander)	G5/S2	5	3	3	6667	4	0.2	0.8
SBR	Low	Amphibian	<i>Plethodon welleri</i> (Weller's Salamander)	G3/S1	15	11	19	8052	77	1.0	74.2
SBR	Low	Amphibian	<i>Plethodon yonahlossee</i> (Yonahlossee Salamander)	G4/S3	13	8	9	4.625	26	0.1	2.6
SBR	Low	Amphibian	<i>Pseudacris brachyphona</i> (Mountain Chorus Frog)	G5/S4	6	4	4	3.75	9	0.1	0.5
SBR	Low	Bird	<i>Accipiter striatus</i> (Sharp-shinned Hawk)	G5/S3B	7	11	17	8485	1870	1.2	2,180.5
SBR	Low	Bird	<i>Aegolius acadicus</i> (Northern Saw-whet Owl)	G5/S1	4	4	4	32.25	123	2.0	249.4
SBR	Low	Bird	<i>Caprimulgus carolinensis</i> (Chuck-will's-widow)	G5/S3S4	6	10	15	24	874	1.0	880.7
SBR	Low	Bird	<i>Certhia americana</i> (Brown Creeper)	G5/S2BS4N	7	7	18	24	886	1.1	1,013.6
SBR	Low	Bird	<i>Contopus cooperi</i> (Olive-sided Flycatcher)	G4/S1	3	2	3	18.5	171	1.9	324.1
SBR	Low	Bird	<i>Corvus corax</i> (Common Raven)	G5/S2	6	3	40	2308	3353	2.9	9,743.7
SBR	Low	Bird	<i>Dendroica caerulescens</i> (Black-throated Blue Warbler)	G5/S4	10	8	61	24	1279	1.2	1,492.6
SBR	Low	Bird	<i>Dendroica cerulea</i> (Cerulean Warbler)	G4/S3B	8	13	18	1795	302	2.1	626.0
SBR	Low	Bird	<i>Dendroica dominica</i> (Yellow-throated Warbler)	G5/S4	9	15	61	24	2786	1.1	2,951.9
SBR	Low	Bird	<i>Dendroica virens</i> (Black-throated Green Warbler)	G5/S5	10	12	110	24	3873	0.5	1,758.6
SBR	Low	Bird	<i>Empidonax aliorum</i> (Alder Flycatcher)	G5/S1	3	3	3	6667	86	2.0	168.5
SBR	Low	Bird	<i>Empidonax minimus</i> (Least Flycatcher)	G5/S3	5	5	8	24	181	1.4	248.0
SBR	Low	Bird	<i>Empidonax virescens</i> (Acadian Flycatcher)	G5/S5	10	12	109	24	2498	0.5	1,200.0
SBR	Low	Bird	<i>Helminthos vermivorus</i> (Worm-eating Warbler)	G5/S4	10	19	91	24	2239	1.3	2,878.0
SBR	Low	Bird	<i>Hylocichla mustelina</i> (Wood Thrush)	G5/S4	10	11	134	24	2593	0.8	2,144.5
SBR	Low	Bird	<i>Lanius ludovicianus</i> (Loggerhead Shrike)	G5/S3	2	1	1	24	10	2.1	20.9
SBR	Low	Bird	<i>Limnithyris swainsonii</i> (Swainson's Warbler)	G4/S3	6	14	23	1429	427	0.7	315.8
SBR	Low	Bird	<i>Melanerpes erythrocephalus</i> (Red-headed Woodpecker)	G5/S4	3	5	6	24	310	0.8	247.0
SBR	Low	Bird	<i>Oporornis formosus</i> (Kentucky Warbler)	G5/S4	10	24	61	24	2609	1.1	2,938.6
SBR	Low	Bird	<i>Passerculus sandwichensis</i> (Savannah Sparrow)	G5/S1BS4N	4	4	6	24	60	4.1	245.0
SBR	Low	Bird	<i>Poecile atricapillus</i> (Black-capped Chickadee)	G5/S2B	4	3	13	24	766	3.9	2,949.9
SBR	Low	Bird	<i>Poocetes gramineus</i> (Vesper Sparrow)	G5/S1BS4N	6	3	8	22	52	3.8	198.8
SBR	Low	Bird	<i>Regulus satrapa</i> (Golden-crowned Kinglet)	G5/S3BS4N	4	4	16	24	926	1.0	959.6
SBR	Low	Bird	<i>Scolopax minor</i> (American Woodcock)	G5/S4B	3	7	8	24	250	0.6	156.7
SBR	Low	Bird	<i>Seiurus motacilla</i> (Louisiana Waterthrush)	G5/S4	10	1	1	24	1	1.7	1.7
SBR	Low	Bird	<i>Sitta canadensis</i> (Red-breasted Nuthatch)	G5/S2BS4N	5	2	2	39	16	1.2	19.6
SBR	Low	Bird	<i>Sitta pusilla</i> (Brown-headed Nuthatch)	G5/S2B	1	2	2	24	311	4.0	1,231.1
SBR	Low	Bird	<i>Sphyrapicus varius</i> (Yellow-bellied Sapsucker)	G5/S1BS4N	4	5	6	16.6	33	0.5	15.9
SBR	Low	Bird	<i>Thryomanes bewickii</i> (Bewick's Wren)	G5/S1	2	1	1	2	3	0.1	0.3
SBR	Low	Bird	<i>Troglodytes troglodytes</i> (Winter Wren)	G5/S3BS4N	7	8	23	24	1216	1.1	1,292.8
SBR	Low	Bird	<i>Tyto alba</i> (Barn Owl)	G5/S3	2	1	1	6	9	0.2	2.0
SBR	Low	Bird	<i>Vermivora chrysoptera</i> (Golden-winged Warbler)	G4/S3B	5	3	4	24	43	2.2	92.8
SBR	Low	Bird	<i>Vermivora pinus</i> (Blue-winged Warbler)	G5/S4	2	2	2	24	95	0.3	24.1
SBR	Low	Bird	<i>Vireo flavifrons</i> (Yellow-throated Vireo)	G5/S4	9	28	44	24	1371	1.0	1,341.7
SBR	Low	Bird	<i>Wilsonia citrina</i> (Hooded Warbler)	G5/S4	10	12	134	24	3511	0.9	3,192.2
SBR	Low	Gastropod	<i>Discus bryanii</i> (Sawtooth Disc)	G2/S1S2	8	1	1	41	1	0.5	0.5
SBR	Low	Gastropod	<i>Fumonelix wheatleyi</i> (Cinnamon Covert)	G4/S3	15	1	1	41	2	0.6	1.2
SBR	Low	Gastropod	<i>Fumonelix wheatleyi clingmanicus</i> (Clingman Covert)	G4T2T3/S2S3	7	2	2	6.5	4	0.1	0.6
SBR	Low	Gastropod	<i>Glyphyalinia ocoae</i> (Blue-gray Glyph)	G1/S2	2	1	1	40	12	2.1	25.2
SBR	Low	Gastropod	<i>Glyphyalinia pentadelphia</i> (Pink Glyph)	G2G3/S2	10	4	5	39.375	21	1.6	34.4
SBR	Low	Gastropod	<i>Haplotrema kendeighi</i> (Blue-footed Lancetooth)	G1G2/S3	9	3	3	6667	10	0.4	3.8
SBR	Low	Gastropod	<i>Helicodiscus fimbriatus</i> (Fringed Coil)	G4/S3	8	1	1	40	7	0.7	4.8
SBR	Low	Gastropod	<i>Inflectarius downieanus</i> (Dwarf Globelet)	G3/S4	3	1	1	4	2	0.3	0.5

TERRESTRIAL SPECIES											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	# Occ. Grps.	Avg. Viab.	# Hab. Blks.	Avg. Priority Score	Total Priority Score
SBR	Low	Gastropod	Inflectarius ferrissi (Smokey Mountain Covert)	G2/S2S3	12	1	1	7	1	0.2	0.2
SBR	Low	Gastropod	Inflectarius subpalliatius (Velvet Covert)	G2/S2S3	10	1	1	41	2	1.4	2.9
SBR	Low	Gastropod	Mesodon altivagus (Wandering Globe)	G2G3/S?	10	1	1	6	3	0.0	0.1
SBR	Low	Gastropod	Mesodon andrewsae (Balsam Globe)	G3/S3	8	1	1	6	1	0.1	0.1
SBR	Low	Gastropod	Mesomphix andrewsae (Mountain Button)	G2G3/S3S4	15	3	3	7	7	0.3	2.0
SBR	Low	Gastropod	Mesomphix rugeli (Wrinkled Button)	G3/S3	5	3	3	5	4	0.1	0.4
SBR	Low	Gastropod	Mesomphix subplanus (Flat Button)	G3/S3S4	9	2	2	6.5	3	0.1	0.4
SBR	Low	Gastropod	Paravitrea andrewsae (High Mountain Supercoil)	G2/S3?	4	1	1	6	1	0.6	0.6
SBR	Low	Gastropod	Paravitrea clappi (Mirey Ridge Supercoil)	G2G3/S2S3	3	1	1	6	1	0.2	0.2
SBR	Low	Gastropod	Paravitrea lamellidens (Lamellate Supercoil)	G2/S2	12	4	4	41	4	1.5	6.2
SBR	Low	Gastropod	Paravitrea placentula (Glossy Supercoil)	G3/S3	3	3	3	5	9	0.2	1.9
SBR	Low	Gastropod	Paravitrea reesei (Round Supercoil)	G2/S1S2	3	1	1	6	1	0.3	0.3
SBR	Low	Gastropod	Paravitrea ternaria (Sculpted Supercoil)	G1/S1S2	3	1	1	6	1	1.4	1.4
SBR	Low	Gastropod	Paravitrea tridens (White-foot Supercoil)	G1G2/S2	8	1	1	41	1	0.5	0.5
SBR	Low	Gastropod	Paravitrea umbilicaris (Open Supercoil)	G2/S3?	4	3	3	3333	9	0.6	5.1
SBR	Low	Gastropod	Patera clarki (Dwarf Proud Globe)	G3/S2S3	8	2	2	6.5	4	0.1	0.5
SBR	Low	Gastropod	Pilsbryna aurea (Ornate Bud)	G1/S1	8	5	5	25.4	11	3.0	33.0
SBR	Low	Gastropod	Stenotrema altispira (Highland Siltmouth)	G2/S2?	11	1	1	41	2	1.4	2.9
SBR	Low	Gastropod	Stenotrema cohuttense (Cohutta Siltmouth)	G1G2/S2	5	1	1	40	1	10.8	10.8
SBR	Low	Gastropod	Stenotrema depilatum (Great Smoky Siltmouth)	G2/S3	9	1	1	7	1	0.2	0.2
SBR	Low	Gastropod	Stenotrema magnafumosum (Appalachian Siltmouth)	G3/S3S4	4	3	3	6	10	0.3	3.0
SBR	Low	Gastropod	Stenotrema pilula (Pygmy Siltmouth)	G3G4/S3	6	1	1	4	2	0.0	0.1
SBR	Low	Gastropod	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	G2G3/S1S2	3	1	1	41	3	2.6	7.8
SBR	Low	Gastropod	Ventridens coelaxis (Bidentate Dome)	G3/S2S3	2	1	1	41	4	1.5	6.2
SBR	Low	Gastropod	Ventridens decussatus (Crossed Dome)	G2G3/S2?	9	2	2	6.5	3	0.3	1.0
SBR	Low	Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	3	2	2	5.5	4	0.3	1.3
SBR	Low	Gastropod	Vertigo clappi (Cupped Vertigo)	G1G2/S1	4	1	1	41	6	3.0	17.9
SBR	Low	Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	3	4	8	12.75	401	0.3	138.4
SBR	Low	Mammal	Microtus chrotorrhinus carolinensis (Southern Rock Vole)	G4T3/S2	16	2	2	3	7	0.1	0.7
SBR	Low	Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	6	5	5	33.2	486	3.6	1,731.4
SBR	Low	Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	13	28	29	4286	66	0.3	18.4
SBR	Low	Mammal	Neotoma floridana haematoreia (Southern Appalachian Woodrat)	G5T4Q/S2	9	5	5	9.4	5	1.7	8.4
SBR	Low	Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	8	3	3	3333	5	1.5	7.4
SBR	Low	Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	14	2	2	5	2	0.1	0.1
SBR	Low	Mammal	Sorex cinereus (Common Shrew)	G5/S4	24	6	6	6667	9	0.6	5.4
SBR	Low	Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	12	1	1	33	3	5.4	16.1
SBR	Low	Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	15	46	53	6957	101	0.4	38.5
SBR	Low	Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	8	9	10	8889	17	0.6	11.0
SBR	Low	Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	4	2	2	18	83	0.7	62.1
SBR	Low	Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	7	2	2	18	2	0.3	0.7
SBR	Low	Mammal	Tamiasciurus hudsonicus (Red Squirrel)	G5/S4S5	5	3	3	3333	5	0.1	0.5
SBR	Low	Reptile	Anolis carolinensis (Green Anole)	G5/S3	4	5	6	9	29	0.6	16.3
SBR	Low	Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	6	9	18	5556	520	0.2	104.8
SBR	Low	Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	6	3	3	7	5	1.2	6.0
SBR	Low	Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	3	4	6	2.875	60	0.0	2.1
SBR	Low	Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	2	6	6	6667	17	0.1	1.4
SBR	Low	Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	4	7	8	1429	107	0.1	11.6

AQUATIC SPECIES										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score	
MS	Very High	Invertebrate - Bivalve	Obovaria jacksoniana (Southern Hickorynut)	G1G2/S1	5	1	41.0	37.8	37.8	
MS	Very High	Invertebrate - Crustacean	Fallicambarus hortonii (Hatchie Burrowing Crayfish)	G1/S1	3	1	35.0	36.8	36.8	
MS	Very High	Vertebrate - Fish	Ammocrypta beani (Naked Sand Darter)	G5/S2	10	2	40.5	11.3	22.6	
MS	Very High	Vertebrate - Fish	Noturus stigmosus (Northern Madtom)	G3/S3	15	2	22.0	5.8	11.6	
MS	High	Invertebrate - Bivalve	Obovaria jacksoniana (Southern Hickorynut)	G1G2/S1	5	3	17.7	16.3	48.8	
MS	High	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	1	1	0.0	0.0	0.0	
MS	High	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	1	1	0.0	0.0	0.0	
MS	High	Invertebrate - Bivalve	Villosa lienosa (Little Spectaclecase)	G5/S4S5	5	2	0.0	0.0	0.0	
MS	High	Invertebrate - Bivalve	Villosa vibex (Southern Rainbow)	G4Q/S2	4	2	7.0	2.2	4.4	
MS	High	Vertebrate - Fish	Ammocrypta beani (Naked Sand Darter)	G5/S2	10	2	39.5	11.0	22.1	
MS	High	Vertebrate - Fish	Ammocrypta vivax (Scaly Sand Darter)	G5/S2	6	1	31.0	8.7	8.7	
MS	High	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	3	27.7	10.0	30.0	
MS	High	Vertebrate - Fish	Etheostoma pyrrhogaster (Firebelly Darter)	G2/S2	15	3	35.7	18.8	56.3	
MS	High	Vertebrate - Fish	Lepisosteus spatula (Alligator Gar)	G3G4/S1	5	1	39.0	24.4	24.4	
MS	High	Vertebrate - Fish	Macrhybopsis gelida (Sturgeon Chub)	G2/S1	3	1	7.0	5.5	5.5	
MS	High	Vertebrate - Fish	Noturus stigmosus (Northern Madtom)	G3/S3	15	3	28.7	7.5	22.6	
MS	Medium	Invertebrate - Bivalve	Obovaria olivaria (Hickorynut)	G4/S2?	2	1	0.0	0.0	0.0	
MS	Medium	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	1	1	0.0	0.0	0.0	
MS	Medium	Invertebrate - Bivalve	Villosa lienosa (Little Spectaclecase)	G5/S4S5	5	2	0.0	0.0	0.0	
MS	Medium	Invertebrate - Bivalve	Villosa vibex (Southern Rainbow)	G4Q/S2	4	1	35.0	10.9	10.9	
MS	Medium	Vertebrate - Fish	Ammocrypta beani (Naked Sand Darter)	G5/S2	10	4	19.3	5.4	21.5	
MS	Medium	Vertebrate - Fish	Ammocrypta vivax (Scaly Sand Darter)	G5/S2	6	1	43.0	12.0	12.0	
MS	Medium	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	1	39.0	14.1	14.1	
MS	Medium	Vertebrate - Fish	Etheostoma cervus (Chickasaw Darter)	G2G3/S2S3	10	10	40.3	15.9	159.1	
MS	Medium	Vertebrate - Fish	Etheostoma pyrrhogaster (Firebelly Darter)	G2/S2	15	10	30.8	16.2	162.1	
MS	Medium	Vertebrate - Fish	Fundulus chrysotus (Golden Topminnow)	G5/S1S2	5	1	32.0	13.2	13.2	
MS	Medium	Vertebrate - Fish	Macrhybopsis meeki (Sicklefin Chub)	G3/S2	3	1	33.0	13.0	13.0	
MS	Medium	Vertebrate - Fish	Noturus stigmosus (Northern Madtom)	G3/S3	15	9	19.4	5.1	46.1	
MS	Medium	Vertebrate - Reptile	Apalone mutica (Smooth Softshell Turtle)	G5/S4	5	1	6.0	0.5	0.5	
MS	Medium	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	5	2	35.0	10.4	20.7	
MS	Low	Invertebrate - Bivalve	Lasmigona complanata complanata (White Heelsplitter)	G5T5/S?	5	1	35.0	1.2	1.2	
MS	Low	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	1	1	0.0	0.0	0.0	
MS	Low	Vertebrate - Fish	Ammocrypta beani (Naked Sand Darter)	G5/S2	10	1	4.0	1.1	1.1	
MS	Low	Vertebrate - Fish	Ammocrypta vivax (Scaly Sand Darter)	G5/S2	6	1	4.0	1.1	1.1	
MS	Low	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	4	6.5	2.4	9.4	
MS	Low	Vertebrate - Fish	Etheostoma cervus (Chickasaw Darter)	G2G3/S2S3	10	2	5.0	2.0	3.9	
MS	Low	Vertebrate - Fish	Etheostoma pyrrhogaster (Firebelly Darter)	G2/S2	15	2	6.0	3.2	6.3	
MS	Low	Vertebrate - Fish	Fundulus chrysotus (Golden Topminnow)	G5/S1S2	5	1	6.0	2.5	2.5	
MS	Low	Vertebrate - Fish	Lepisosteus spatula (Alligator Gar)	G3G4/S1	5	2	3.0	1.9	3.8	
MS	Low	Vertebrate - Fish	Noturus stigmosus (Northern Madtom)	G3/S3	15	6	6.0	1.6	9.5	
MS	Low	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	5	1	6.0	1.8	1.8	
BR	Very High	Vertebrate - Fish	Etheostoma barbouri (Teardrop Darter)	G4G5/S2	5	1	5.0	1.6	1.6	
BR	Very High	Vertebrate - Fish	Etheostoma barrenense (Splendid Darter)	G4/S3	10	2	42.5	8.4	16.8	
BR	Very High	Vertebrate - Fish	Etheostoma bellum (Orangefin Darter)	G4G5/S3	10	2	42.5	7.7	15.4	
BR	Very High	Vertebrate - Fish	Thoburnia atripinnis (Blackfin Sucker)	G2/S1	5	2	42.0	33.2	66.3	
BR	High	Vertebrate - Fish	Etheostoma barrenense (Splendid Darter)	G4/S3	10	1	36.0	7.1	7.1	
BR	High	Vertebrate - Fish	Etheostoma bellum (Orangefin Darter)	G4G5/S3	10	1	33.0	6.0	6.0	
BR	High	Vertebrate - Fish	Thoburnia atripinnis (Blackfin Sucker)	G2/S1	5	1	33.0	26.1	26.1	
BR	Medium	Vertebrate - Fish	Etheostoma barbouri (Teardrop Darter)	G4G5/S2	5	1	36.0	11.3	11.3	
BR	Medium	Vertebrate - Fish	Etheostoma barrenense (Splendid Darter)	G4/S3	10	5	34.4	6.8	33.9	
BR	Medium	Vertebrate - Fish	Etheostoma bellum (Orangefin Darter)	G4G5/S3	10	4	27.0	4.9	19.5	
BR	Medium	Vertebrate - Fish	Percina macrocephala (Longhead Darter)	G3/S2	3	1	5.0	2.0	2.0	
BR	Medium	Vertebrate - Fish	Thoburnia atripinnis (Blackfin Sucker)	G2/S1	5	1	6.0	4.7	4.7	
BR	Low	Vertebrate - Fish	Etheostoma barbouri (Teardrop Darter)	G4G5/S2	5	1	6.0	1.9	1.9	
BR	Low	Vertebrate - Fish	Etheostoma barrenense (Splendid Darter)	G4/S3	10	1	6.0	1.2	1.2	
BR	Low	Vertebrate - Fish	Etheostoma bellum (Orangefin Darter)	G4G5/S3	10	1	6.0	1.1	1.1	
CO	Very High	Invertebrate - Bivalve	Elliptio arca (Alabama Spike)	G3Q/S2	2	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Elliptio arcata (Delicate Spike)	G3G4/S2	2	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Lampsilis straminea claibornensis (Southern Fatmucket)	G5T5/SH	1	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	1	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Pleurobema hanleyianum (Georgia Pigtoe)	G1/S1	2	2	19.5	20.5	41.1	
CO	Very High	Invertebrate - Bivalve	Pleurobema johannis (Alabama Pigtoe)	GH/S1?	1	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Pleurobema rubellum (Warrior Pigtoe)	GH/SH	1	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Pleurobema troschelianum (Alabama Clubshell)	G1/S1	1	1	41.0	43.2	43.2	
CO	Very High	Invertebrate - Bivalve	Strophitus connasaugaensis (Alabama Creekmussel)	G3/S1	3	2	42.5	28.0	55.9	
CO	Very High	Invertebrate - Bivalve	Villosa nebulosa (Alabama Rainbow)	G3/S2	2	1	41.0	16.2	16.2	
CO	Very High	Invertebrate - Bivalve	Villosa vanuxemensis umbrans (Coosa Creekshell)	G4T2/S2	2	1	0.0	0.0	0.0	
CO	Very High	Invertebrate - Bivalve	Villosa vibex (Southern Rainbow)	G4Q/S2	1	1	40.0	12.5	12.5	
CO	Very High	Vertebrate - Fish	Etheostoma brevirostrum (Holiday or Ellijay Darter)	G2/S1	3	2	41.5	32.8	65.5	
CO	Very High	Vertebrate - Fish	Etheostoma ditrema (Coldwater Darter)	G1G2/S1	2	1	7.0	6.4	6.4	

AQUATIC SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
CO	Very High	Vertebrate - Fish	Etheostoma rupestre (Rock Darter)	G4/S3	2	1	31.0	6.1	6.1
CO	Very High	Vertebrate - Fish	Etheostoma trisella (Trispot Darter)	G1/S2	2	1	47.0	37.1	37.1
CO	Very High	Vertebrate - Fish	Ichthyomyzon gagei (Southern Brook Lamprey)	G5/S1	2	2	34.0	18.5	36.9
CO	Very High	Vertebrate - Fish	Notropis asperifrons (Burrhead Shiner)	G4/S2	2	1	40.0	13.2	13.2
CO	Very High	Vertebrate - Fish	Notropis chrosomus (Rainbow Shiner)	G4/S3	3	1	43.0	8.5	8.5
CO	Very High	Vertebrate - Fish	Nolurus munitus (Frecklebelly Madtom)	G3/S1	2	1	6.0	3.9	3.9
CO	Very High	Vertebrate - Fish	Percina sp. 3 (Muscadine Darter)	G20/S1	2	1	40.0	28.9	28.9
CO	Very High	Vertebrate - Fish	Percina sp. 9 (Upland Bridled Darter)	G10/S1	2	1	42.0	38.7	38.7
CO	Very High	Vertebrate - Fish	Phenacobius catostomus (Riffle Minnow)	G4/S2	2	1	39.0	12.8	12.8
CO	Low	Invertebrate - Bivalve	Villosa vanuxemensis umbrans (Coosa Creekshell)	G4T2/S2	2	1	0.0	0.0	0.0
CO	Low	Invertebrate - Crustacean	Cambarus manningi (a crayfish)	G4/S3	2	1	6.0	1.2	1.2
CU	Very High	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	1	1	0.0	0.0	0.0
CU	Very High	Invertebrate - Crustacean	Cambarus williami (Stones River Crayfish)	G1/S1	10	2	58.5	61.6	123.2
CU	Very High	Invertebrate - Gastropod	Leptoxis umbilicata (Umbilicate Rocksnail)	G1/S1	3	1	5.0	5.3	5.3
CU	Very High	Invertebrate - Gastropod	Lithasia geniculata pinguis (Small Genuiculate River Snail)	G3G4T3/S3	8	2	7.0	1.8	3.7
CU	Very High	Vertebrate - Fish	Ericymba buccata (Silverjaw Minnow)	G5/S1	3	1	42.0	22.8	22.8
CU	Very High	Vertebrate - Fish	Etheostoma baileyi (Emerald Darter)	G4G5/S2	20	3	44.3	13.9	41.6
CU	Very High	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	20	1	47.0	18.6	18.6
CU	Very High	Vertebrate - Fish	Etheostoma forbesi (Barrens Darter)	G1G2/S1	10	4	27.5	25.3	101.3
CU	Very High	Vertebrate - Fish	Etheostoma microlepidum (Finescale Darter)	G2G3/S2	15	1	26.0	12.0	12.0
CU	Very High	Vertebrate - Fish	Etheostoma sagitta (Arrow Darter)	G3G4/S2	15	2	47.5	17.2	34.4
CU	Very High	Vertebrate - Fish	Etheostoma susanae (Cumberland Johnny Darter)	G2/S1	3	1	58.0	45.8	45.8
CU	Very High	Vertebrate - Fish	Etheostoma tippecanoe (Tippecanoe Darter)	G3/S1S2	5	1	41.0	21.6	21.6
CU	Very High	Vertebrate - Fish	Fundulus julisia (Barrens Topminnow)	G1/S1	7	6	42.0	44.2	265.3
CU	Very High	Vertebrate - Fish	Hemitremia flammea (Flame Chub)	G3/S3	15	5	45.8	12.1	60.3
CU	Very High	Vertebrate - Fish	Notropis rupestris (Bedrock Shiner)	G2/S2	27	1	6.0	3.2	3.2
CU	High	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	8	1	0.0	0.0	0.0
CU	High	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	5	3	0.0	0.0	0.0
CU	High	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	1	1	0.0	0.0	0.0
CU	High	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	3	0.0	0.0	0.0
CU	High	Invertebrate - Crustacean	Cambarus bouchardi (Big South Fork Crayfish)	G2G3/S1	5	1	43.0	31.1	31.1
CU	High	Invertebrate - Crustacean	Cambarus pristinus (Caney Fork Crayfish)	G1/S1	5	1	35.0	36.8	36.8
CU	High	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Genuiculate River Snail)	G3G4T3/S3	2	1	6.0	1.6	1.6
CU	High	Vertebrate - Amphibian	Desmognathus welleri (Black Mountain Salamander)	G4/S3	17	5	20.8	4.1	20.5
CU	High	Vertebrate - Fish	Ericymba buccata (Silverjaw Minnow)	G5/S1	3	2	4.0	2.2	4.3
CU	High	Vertebrate - Fish	Erimystax dissimilis (Streamline Chub)	G4/S3S4	7	1	31.0	5.1	5.1
CU	High	Vertebrate - Fish	Etheostoma baileyi (Emerald Darter)	G4G5/S2	20	14	39.6	12.4	173.4
CU	High	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	20	8	34.0	13.4	107.4
CU	High	Vertebrate - Fish	Etheostoma forbesi (Barrens Darter)	G1G2/S1	10	1	33.0	30.4	30.4
CU	High	Vertebrate - Fish	Etheostoma microlepidum (Finescale Darter)	G2G3/S2	15	2	37.0	17.0	34.1
CU	High	Vertebrate - Fish	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	G3/S3	15	2	33.5	8.8	17.6
CU	High	Vertebrate - Fish	Etheostoma sagitta (Arrow Darter)	G3G4/S2	15	8	38.9	14.1	112.5
CU	High	Vertebrate - Fish	Etheostoma tippecanoe (Tippecanoe Darter)	G3/S1S2	5	2	37.0	19.5	38.9
CU	High	Vertebrate - Fish	Fundulus julisia (Barrens Topminnow)	G1/S1	7	1	5.0	5.3	5.3
CU	High	Vertebrate - Fish	Hemitremia flammea (Flame Chub)	G3/S3	15	1	37.0	9.7	9.7
CU	High	Vertebrate - Fish	Notropis rupestris (Bedrock Shiner)	G2/S2	27	2	34.0	17.9	35.8
CU	High	Vertebrate - Fish	Percina aurantiaca (Tangerine Darter)	G4/S3	5	1	26.0	5.1	5.1
CU	Medium	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	8	1	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	5	1	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	11	3	20.0	7.9	23.7
CU	Medium	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	4	3	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	4	1	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	3	3	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Pleurobema coccineum (Round Pigtoe)	G4/S4	6	4	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	7	4	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	3	2	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Ptychobranchus subtentum (Fluted Kidneyshell)	G2G3/S2S3	2	1	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	5	3	0.0	0.0	0.0
CU	Medium	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	3	0.0	0.0	0.0
CU	Medium	Invertebrate - Gastropod	Leptoxis umbilicata (Umbilicate Rocksnail)	G1/S1	3	1	5.0	5.3	5.3
CU	Medium	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	12	3	27.7	6.4	19.1
CU	Medium	Vertebrate - Fish	Acipenser fulvescens (Lake Sturgeon)	G3/S1	5	1	5.0	3.3	3.3
CU	Medium	Vertebrate - Fish	Crystallaria asprella (Crystal Darter)	G3/SX	4	1	0.0	0.0	0.0
CU	Medium	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	5	2	18.5	6.7	13.4
CU	Medium	Vertebrate - Fish	Etheostoma baileyi (Emerald Darter)	G4G5/S2	20	1	39.0	12.2	12.2
CU	Medium	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	20	1	38.0	15.0	15.0
CU	Medium	Vertebrate - Fish	Etheostoma microlepidum (Finescale Darter)	G2G3/S2	15	1	6.0	2.8	2.8
CU	Medium	Vertebrate - Fish	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	G3/S3	15	3	35.3	9.3	27.9
CU	Medium	Vertebrate - Fish	Etheostoma sagitta (Arrow Darter)	G3G4/S2	15	1	38.0	13.8	13.8
CU	Medium	Vertebrate - Fish	Notropis rupestris (Bedrock Shiner)	G2/S2	27	9	23.9	12.6	113.2

AQUATIC SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
CU	Medium	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	5	1	50.0	14.8	14.8
CU	Low	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	8	2	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	5	2	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	11	5	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Epioblasma triquetra (Snuffbox)	G3/S3	2	4	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	4	4	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Lasmigona complanata complanata (White Heelsplitter)	G5T5/S?	3	1	37.0	1.2	1.2
CU	Low	Invertebrate - Bivalve	Medionidus conradicus (Cumberland Moccasinshell)	G3G4/S3	2	3	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Obovaria olivaria (Hickorynut)	G4/S2?	4	1	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	4	3	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	3	2	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	7	3	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Pleurobema oviforme (Tennessee Clubshell)	G3/S2S3	2	1	10.0	3.3	3.3
CU	Low	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	3	1	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Ptychobranchnus subentum (Fluted Kidneyshell)	G2G3/S2S3	2	2	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	5	3	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Toxolasma lividus (Purple Lilliput)	G2/S1S2	3	3	0.0	0.0	0.0
CU	Low	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	8	0.0	0.0	0.0
CU	Low	Invertebrate - Crustacean	Cambarus brachydactylus (Shortfingered Crayfish)	G4/S2	6	3	3.7	1.2	3.6
CU	Low	Invertebrate - Crustacean	Cambarus crinipes (Bouchard's Crayfish or Hairlegged Crayfish)	G4/S3	10	4	5.0	1.0	3.9
CU	Low	Invertebrate - Crustacean	Cambarus obeyensis (Obey River Crayfish)	G2/S2	8	2	4.5	2.4	4.7
CU	Low	Invertebrate - Gastropod	Lithasia armigera (Armored Rocksnail)	G3G4/S1S2	5	5	2.2	1.1	5.4
CU	Low	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Geniculate River Snail)	G3G4T3/S3	2	3	6.0	1.6	4.7
CU	Low	Invertebrate - Gastropod	Lithasia geniculata pinguis (Small Geniculate River Snail)	G3G4T3/S3	8	6	6.0	1.6	9.5
CU	Low	Invertebrate - Gastropod	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	G3G4/S2	1	2	5.5	2.0	4.0
CU	Low	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	12	9	8.1	1.9	16.8
CU	Low	Vertebrate - Amphibian	Desmognathus walteri (Black Mountain Salamander)	G4/S3	17	6	11.2	2.2	13.2
CU	Low	Vertebrate - Fish	Acipenser fulvescens (Lake Sturgeon)	G3/S1	5	1	6.0	3.9	3.9
CU	Low	Vertebrate - Fish	Carpodius velifer (Highfin Carpsucker)	G4G5/S2S3	1	1	2.0	0.5	0.5
CU	Low	Vertebrate - Fish	Crystallaria asprella (Crystal Darter)	G3/SX	4	2	2.0	0.3	0.6
CU	Low	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	5	2	6.0	2.2	4.3
CU	Low	Vertebrate - Fish	Etheostoma baileyi (Emerald Darter)	G4G5/S2	20	2	5.0	1.6	3.1
CU	Low	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	20	10	4.1	1.6	16.2
CU	Low	Vertebrate - Fish	Etheostoma microlepidum (Finescale Darter)	G2G3/S2	15	4	6.3	2.9	11.5
CU	Low	Vertebrate - Fish	Etheostoma olivaceum (Sooty Darter or Dirty Darter)	G3/S3	15	2	24.5	6.4	12.9
CU	Low	Vertebrate - Fish	Etheostoma tippecanoe (Tippecanoe Darter)	G3/S1S2	5	1	5.0	2.6	2.6
CU	Low	Vertebrate - Fish	Hemitremia flammea (Flame Chub)	G3/S3	15	4	16.5	4.3	17.4
CU	Low	Vertebrate - Fish	Notropis rupestris (Bedrock Shiner)	G2/S2	27	13	5.8	3.1	40.0
CU	Low	Vertebrate - Fish	Percina burtoni (Blotchside Logperch)	G2/S2	1	2	2.5	1.3	2.6
CU	Low	Vertebrate - Fish	Percina squamata (Olive Darter)	G3/S2	5	1	7.0	2.8	2.8
CU	Low	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	5	2	6.5	1.9	3.8
TN	Very High	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	21	6	0.0	0.0	0.0
TN	Very High	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	25	3	42.3	16.7	50.1
TN	Very High	Invertebrate - Bivalve	Epioblasma triquetra (Snuffbox)	G3/S3	14	7	21.3	5.6	39.2
TN	Very High	Invertebrate - Bivalve	Fusconaia barnesiana (Tennessee Pigtoe)	G2G3/S2S3	35	4	0.0	0.0	0.0
TN	Very High	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	38	3	0.0	0.0	0.0
TN	Very High	Invertebrate - Bivalve	Lasmigona complanata complanata (White Heelsplitter)	G5T5/S?	3	1	39.0	1.3	1.3
TN	Very High	Invertebrate - Bivalve	Lexingtonia dolabelloides (Slabside Pearlymussel)	G2/S2	31	5	37.0	19.5	97.4
TN	Very High	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	12	3	40.7	10.7	32.1
TN	Very High	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	18	5	30.8	10.1	50.7
TN	Very High	Invertebrate - Bivalve	Pleurobema coccineum (Round Pigtoe)	G4/S4	4	1	0.0	0.0	0.0
TN	Very High	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	18	1	0.0	0.0	0.0
TN	Very High	Invertebrate - Bivalve	Pleurobema oviforme (Tennessee Clubshell)	G3/S2S3	15	8	13.1	4.3	34.5
TN	Very High	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	7	2	24.0	15.8	31.6
TN	Very High	Invertebrate - Bivalve	Ptychobranchnus subentum (Fluted Kidneyshell)	G2G3/S2S3	10	5	40.0	15.8	78.9
TN	Very High	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	12	2	48.0	12.6	25.3
TN	Very High	Invertebrate - Bivalve	Toxolasma lividus (Purple Lilliput)	G2/S1S2	10	4	19.0	12.5	50.0
TN	Very High	Invertebrate - Bivalve	Villosa fabalis (Rayed Bean)	G1G2/S1	1	1	5.0	4.6	4.6
TN	Very High	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	2	0.0	0.0	0.0
TN	Very High	Invertebrate - Crustacean	Cambarus angularis (Angled Crayfish)	G3/S3?	10	1	0.0	0.0	0.0
TN	Very High	Invertebrate - Gastropod	Elimia aterina (Coal Elimia)	G1/S1	5	1	30.0	31.6	31.6
TN	Very High	Invertebrate - Gastropod	Elimia interrupta (Knotty Elimia)	G1/S1	5	1	37.0	38.9	38.9
TN	Very High	Invertebrate - Gastropod	Elimia strigosa (Brook Elimia)	G1/S1	5	1	30.0	31.6	31.6
TN	Very High	Invertebrate - Gastropod	Io fluviialis (Spiny Riversnail)	G2/S2	33	5	34.2	18.0	90.0
TN	Very High	Invertebrate - Gastropod	Leptoxis virgata (Smooth Mudalia)	G2/S1	4	1	37.0	29.2	29.2
TN	Very High	Invertebrate - Gastropod	Lithasia dultoniana (Helmet Rocksnail)	G2/S2	7	2	6.0	3.2	6.3
TN	Very High	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Geniculate River Snail)	G3G4T3/S3	11	2	6.0	1.6	3.2
TN	Very High	Invertebrate - Gastropod	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	G3G4/S2	4	1	6.0	2.2	2.2
TN	Very High	Invertebrate - Gastropod	Somatologyrus sp. 2 (Hiwassee Pebblesnail)	G1/S1	2	1	37.0	38.9	38.9
TN	Very High	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	60	6	10.3	2.4	14.3

AQUATIC SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
TN	Very High	Vertebrate - Amphibian	Desmognathus welteri (Black Mountain Salamander)	G4/S3	17	1	6.0	1.2	1.2
TN	Very High	Vertebrate - Fish	Acipenser fulvescens (Lake Sturgeon)	G3/S1	6	1	36.0	23.7	23.7
TN	Very High	Vertebrate - Fish	Ammocrypta clara (Western Sand Darter)	G3/S1	3	1	27.0	17.8	17.8
TN	Very High	Vertebrate - Fish	Carpodius velifer (Highfin Carpsucker)	G4G5/S2S3	15	1	31.0	7.6	7.6
TN	Very High	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	1	6.0	2.2	2.2
TN	Very High	Vertebrate - Fish	Erimystax dissimilis (Streamline Chub)	G4/S3S4	9	4	23.3	3.8	15.3
TN	Very High	Vertebrate - Fish	Etheostoma aquali (Coppercheek Darter)	G2G3/S2S3	35	2	38.0	15.0	30.0
TN	Very High	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	25	2	35.5	14.0	28.0
TN	Very High	Vertebrate - Fish	Etheostoma denoncourtii (Golden Darter)	G2 /S2	20	5	31.4	16.5	82.6
TN	Very High	Vertebrate - Fish	Etheostoma striatulum (Striated Darter)	G1/S1	18	1	34.0	35.8	35.8
TN	Very High	Vertebrate - Fish	Etheostoma tippecanoe (Tippecanoe Darter)	G3/S1S2	5	1	21.0	11.1	11.1
TN	Very High	Vertebrate - Fish	Etheostoma vulneratum (Wounded Darter)	G3/S2	20	1	21.0	8.3	8.3
TN	Very High	Vertebrate - Fish	Noturus sp. 3 (Saddled Madtom)	G2Q/S2	25	1	34.0	15.7	15.7
TN	Very High	Vertebrate - Fish	Percina aurantiaca (Tangerine Darter)	G4/S3	45	6	40.5	8.0	48.0
TN	Very High	Vertebrate - Fish	Percina burtoni (Blotchside Logperch)	G2/S2	33	1	41.0	21.6	21.6
TN	Very High	Vertebrate - Fish	Phoxinus tennesseensis (Tennessee Dace)	G3/S3	37	1	30.0	7.9	7.9
TN	High	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	21	1	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	6	2	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	25	3	15.0	5.9	17.8
TN	High	Invertebrate - Bivalve	Epioblasma triquetra (Snuffbox)	G3/S3	14	1	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Fusconaia barnesiana (Tennessee Pigtoe)	G2G3/S2S3	35	10	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	38	8	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	17	3	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Lexingtonia dolabelloides (Slabside Pearlymussel)	G2/S2	31	11	20.4	10.7	117.9
TN	High	Invertebrate - Bivalve	Obovaria olivaria (Hickorynut)	G4/S2?	3	2	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	12	6	4.2	1.1	6.6
TN	High	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	18	3	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Pleurobema coccineum (Round Pigtoe)	G4/S4	4	3	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	18	7	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Pleurobema oviforme (Tennessee Clubshell)	G3/S2S3	15	6	13.5	4.4	26.6
TN	High	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	7	3	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Ptychobranchus subtentum (Fluted Kidneyshell)	G2G3/S2S3	10	3	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	12	4	34.8	9.1	36.6
TN	High	Invertebrate - Bivalve	Toxolasma lividus (Purple Lilliput)	G2/S1S2	10	2	0.0	0.0	0.0
TN	High	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	3	0.0	0.0	0.0
TN	High	Invertebrate - Crustacean	Orconectes alabamensis (Stalotine Crayfish)	G5/S2	8	2	38.5	10.8	21.5
TN	High	Invertebrate - Crustacean	Orconectes forceps (Surgeon Crayfish)	G4/S4	15	1	0.0	0.0	0.0
TN	High	Invertebrate - Crustacean	Orconectes wrightii (Hardin County Crayfish)	G1/S1	6	2	36.0	37.9	75.8
TN	High	Invertebrate - Gastropod	Elimia aterina (Coal Elimia)	G1/S1	5	3	29.0	30.5	91.6
TN	High	Invertebrate - Gastropod	Elimia interrupta (Knotty Elimia)	G1/S1	5	2	38.0	40.0	80.0
TN	High	Invertebrate - Gastropod	Elimia strigosa (Brook Elimia)	G1/S1	5	3	29.0	30.5	91.6
TN	High	Invertebrate - Gastropod	Io fluviialis (Spiny Riversnail)	G2/S2	33	2	4.0	2.1	4.2
TN	High	Invertebrate - Gastropod	Lithasia duttoniana (Helmet Rocksnail)	G2/S2	7	9	6.0	3.2	28.4
TN	High	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Geniculate River Snail)	G3G4T3/S3	11	10	6.0	1.6	15.8
TN	High	Invertebrate - Gastropod	Lithasia lima (Warty Rocksnail)	G2/S2	6	1	6.0	3.2	3.2
TN	High	Invertebrate - Gastropod	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	G3G4/S2	4	2	6.0	2.2	4.3
TN	High	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	60	12	10.5	2.4	29.0
TN	High	Vertebrate - Fish	Acipenser fulvescens (Lake Sturgeon)	G3/S1	6	2	40.5	26.6	53.3
TN	High	Vertebrate - Fish	Ammocrypta vivax (Scaly Sand Darter)	G5/S2	1	1	6.0	1.7	1.7
TN	High	Vertebrate - Fish	Carpodius velifer (Highfin Carpsucker)	G4G5/S2S3	15	5	28.0	6.9	34.5
TN	High	Vertebrate - Fish	Clinostomus funduloides ssp. 1 (Smoky Dace)	G5T3Q/S1S2	7	1	38.0	18.8	18.8
TN	High	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	5	25.4	9.2	46.0
TN	High	Vertebrate - Fish	Erimystax dissimilis (Streamline Chub)	G4/S3S4	9	1	28.0	4.6	4.6
TN	High	Vertebrate - Fish	Erimystax insignis (Blotched Chub)	G3G4/S3S4	20	2	25.0	4.9	9.9
TN	High	Vertebrate - Fish	Etheostoma acuticeps (Sharphead Darter)	G3/S2S3	15	1	49.0	16.1	16.1
TN	High	Vertebrate - Fish	Etheostoma aquali (Coppercheek Darter)	G2G3/S2S3	35	13	33.0	13.0	169.3
TN	High	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	25	9	29.1	11.5	103.4
TN	High	Vertebrate - Fish	Etheostoma denoncourtii (Golden Darter)	G2 /S2	20	4	30.0	15.8	63.2
TN	High	Vertebrate - Fish	Etheostoma neopterum (Lollypop Darter)	G3/S1S2	15	3	39.0	20.5	61.6
TN	High	Vertebrate - Fish	Etheostoma pseudovulatum (Egg-mimic Darter)	G1/S1	15	7	39.6	41.7	291.6
TN	High	Vertebrate - Fish	Etheostoma striatulum (Striated Darter)	G1/S1	18	7	28.0	29.5	206.3
TN	High	Vertebrate - Fish	Etheostoma vulneratum (Wounded Darter)	G3/S2	20	1	22.0	8.7	8.7
TN	High	Vertebrate - Fish	Fundulus julisia (Barrens Topminnow)	G1/S1	8	1	40.0	42.1	42.1
TN	High	Vertebrate - Fish	Hemimiremia flammea (Flame Chub)	G3/S3	51	5	30.4	8.0	40.0
TN	High	Vertebrate - Fish	Noturus sp. 3 (Saddled Madtom)	G2Q/S2	25	5	26.8	12.3	61.7
TN	High	Vertebrate - Fish	Percina aurantiaca (Tangerine Darter)	G4/S3	45	5	33.2	6.6	32.8
TN	High	Vertebrate - Fish	Percina burtoni (Blotchside Logperch)	G2/S2	33	8	24.3	12.8	102.1
TN	High	Vertebrate - Fish	Percina macrocephala (Longhead Darter)	G3/S2	16	4	22.3	8.8	35.1
TN	High	Vertebrate - Fish	Phoxinus saylori (Laurel Dace)	G1/S1	8	1	38.0	40.0	40.0
TN	High	Vertebrate - Fish	Phoxinus tennesseensis (Tennessee Dace)	G3/S3	37	4	28.8	7.6	30.3

AQUATIC SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
TN	High	Vertebrate - Reptile	Apalone mutica (Smooth Softshell Turtle)	G5/S4	5	1	6.0	0.5	0.5
TN	High	Vertebrate - Reptile	Apalone spinifera (Spiny Softshell Turtle)	G5/S5	12	1	6.0	0.3	0.3
TN	Medium	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	21	2	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	6	4	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	25	6	7.0	2.8	16.6
TN	Medium	Invertebrate - Bivalve	Epioblasma triquetra (Snuffbox)	G3/S3	14	5	4.0	1.1	5.3
TN	Medium	Invertebrate - Bivalve	Fusconaia barnesiana (Tennessee Pigtoe)	G2G3/S2S3	35	13	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	38	10	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	17	4	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Lexingtonia dolabelloides (Slabside Pearlymussel)	G2/S2	31	9	8.7	4.6	41.1
TN	Medium	Invertebrate - Bivalve	Medionidus conradicus (Cumberland Moccasinshell)	G3G4/S3	8	2	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	12	3	2.3	0.6	1.8
TN	Medium	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	18	2	3.5	1.2	2.3
TN	Medium	Invertebrate - Bivalve	Pleurobema coccineum (Round Pigtoe)	G4/S4	4	1	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	18	5	0.0	0.0	0.0
TN	Medium	Invertebrate - Bivalve	Pleurobema oviforme (Tennessee Clubshell)	G3/S2S3	15	6	24.5	8.1	48.4
TN	Medium	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	7	3	11.7	7.7	23.0
TN	Medium	Invertebrate - Bivalve	Ptychobranchus subtentum (Fluted Kidneyshell)	G2G3/S2S3	10	5	2.4	0.9	4.7
TN	Medium	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	12	4	13.5	3.6	14.2
TN	Medium	Invertebrate - Bivalve	Toxolasma lividus (Purple Lilliput)	G2/S1S2	10	4	16.5	10.9	43.4
TN	Medium	Invertebrate - Bivalve	Villosa taeniata (Painted Creeksnail)	G3G4/S3S4	11	4	0.0	0.0	0.0
TN	Medium	Invertebrate - Crustacean	Cambarus angularis (Angled Crayfish)	G3/S3?	10	1	0.0	0.0	0.0
TN	Medium	Invertebrate - Crustacean	Cambarus extraneus (Chickamauga Crayfish)	G2/S1S2	3	1	27.0	17.8	17.8
TN	Medium	Invertebrate - Crustacean	Cambarus sp. 1 (Emory River Crayfish)	G1?/S1?	5	1	6.0	4.7	4.7
TN	Medium	Invertebrate - Crustacean	Orconectes alabamensis (Stalene Crayfish)	G5/S2	8	3	26.0	7.3	21.8
TN	Medium	Invertebrate - Crustacean	Orconectes burri (Blood River Crayfish)	G2G3/S2S3	3	1	37.0	14.6	14.6
TN	Medium	Invertebrate - Crustacean	Orconectes forceps (Surgeon Crayfish)	G4/S4	15	1	0.0	0.0	0.0
TN	Medium	Invertebrate - Gastropod	Elimia troostiana (Mossy Elimia)	G1/S1	3	3	29.0	30.5	91.6
TN	Medium	Invertebrate - Gastropod	Io fluviialis (Spiny Riversnail)	G2/S2	33	9	23.2	12.2	110.0
TN	Medium	Invertebrate - Gastropod	Lithasia duttoniana (Helmet Rocksnail)	G2/S2	7	3	4.0	2.1	6.3
TN	Medium	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Geniculate River Snail)	G3G4T3/S3	11	7	6.0	1.6	11.1
TN	Medium	Invertebrate - Gastropod	Lithasia geniculata pinguis (Small Geniculate River Snail)	G3G4T3/S3	2	2	5.0	1.3	2.6
TN	Medium	Invertebrate - Gastropod	Lithasia lima (Warty Rocksnail)	G2/S2	6	1	6.0	3.2	3.2
TN	Medium	Invertebrate - Gastropod	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	G3G4/S2	4	1	6.0	2.2	2.2
TN	Medium	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	60	12	26.8	6.2	73.9
TN	Medium	Vertebrate - Amphibian	Desmognathus welteri (Black Mountain Salamander)	G4/S3	17	3	36.0	7.1	21.3
TN	Medium	Vertebrate - Amphibian	Eurycea junaluska (Junaluska Salamander)	G3/S2	7	3	15.7	6.2	18.6
TN	Medium	Vertebrate - Fish	Carpodius velifer (Highfin Carpsucker)	G4G5/S2S3	15	6	20.3	5.0	30.1
TN	Medium	Vertebrate - Fish	Clinostomus funduloides ssp. 1 (Smoky Dace)	G5T3Q/S1S2	7	4	41.5	20.5	81.9
TN	Medium	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	3	16.3	5.9	17.7
TN	Medium	Vertebrate - Fish	Erimystax dissimilis (Streamline Chub)	G4/S3S4	9	2	23.0	3.8	7.6
TN	Medium	Vertebrate - Fish	Erimystax insignis (Blotched Chub)	G3G4/S3S4	20	4	26.3	5.2	20.7
TN	Medium	Vertebrate - Fish	Etheostoma acuticeps (Sharphead Darter)	G3/S2S3	15	4	23.0	7.6	30.3
TN	Medium	Vertebrate - Fish	Etheostoma aquali (Coppercheek Darter)	G2G3/S2S3	35	13	18.5	7.3	95.1
TN	Medium	Vertebrate - Fish	Etheostoma blennioides gutselli (Tuckasegee Darter)	G5T4/S1	5	2	36.0	21.3	42.6
TN	Medium	Vertebrate - Fish	Etheostoma blennioides sequatchiense (Sequatchie Blenny Darter)	G4T3/S3	10	1	28.0	7.4	7.4
TN	Medium	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	25	4	22.0	8.7	34.7
TN	Medium	Vertebrate - Fish	Etheostoma corona (Crown Darter)	G3G4/S1S2	5	3	38.0	18.8	56.3
TN	Medium	Vertebrate - Fish	Etheostoma denoncouri (Golden Darter)	G2/S2	20	2	37.0	19.5	38.9
TN	Medium	Vertebrate - Fish	Etheostoma neopterum (Lollypop Darter)	G3/S1S2	15	5	28.2	14.8	74.2
TN	Medium	Vertebrate - Fish	Etheostoma pseudovulatum (Egg-mimic Darter)	G1/S1	15	1	37.0	38.9	38.9
TN	Medium	Vertebrate - Fish	Etheostoma striatulum (Striated Darter)	G1/S1	18	4	32.8	34.5	137.9
TN	Medium	Vertebrate - Fish	Etheostoma vulneratum (Wounded Darter)	G3/S2	20	2	23.5	9.3	18.6
TN	Medium	Vertebrate - Fish	Fundulus julisia (Barrens Topminnow)	G1/S1	8	1	7.0	7.4	7.4
TN	Medium	Vertebrate - Fish	Hemimystax flammea (Flame Chub)	G3/S3	51	8	22.6	6.0	47.6
TN	Medium	Vertebrate - Fish	Noturus sp. 3 (Saddled Madtom)	G2Q/S2	25	9	21.8	10.0	90.3
TN	Medium	Vertebrate - Fish	Noturus sp. 4 (Chucky Madtom)	G1/S1	3	1	34.0	35.8	35.8
TN	Medium	Vertebrate - Fish	Percina aurantiaca (Tangerine Darter)	G4/S3	45	13	36.3	7.2	93.2
TN	Medium	Vertebrate - Fish	Percina burtoni (Blotchside Logperch)	G2/S2	33	12	27.0	14.2	170.5
TN	Medium	Vertebrate - Fish	Percina macrocephala (Longhead Darter)	G3/S2	16	4	10.0	3.9	15.8
TN	Medium	Vertebrate - Fish	Percina squamata (Olive Darter)	G3/S2	10	1	30.0	11.8	11.8
TN	Medium	Vertebrate - Fish	Phoxinus saylori (Laurel Dace)	G1/S1	8	3	35.7	37.5	112.6
TN	Medium	Vertebrate - Fish	Phoxinus tennesseensis (Tennessee Dace)	G3/S3	37	8	27.8	7.3	58.4
TN	Medium	Vertebrate - Reptile	Apalone mutica (Smooth Softshell Turtle)	G5/S4	5	3	27.7	2.3	6.8
TN	Medium	Vertebrate - Reptile	Apalone spinifera (Spiny Softshell Turtle)	G5/S5	12	2	4.5	0.2	0.4
TN	Medium	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	10	5	38.4	11.4	56.8
TN	Low	Invertebrate - Bivalve	Alasmidonta marginata (Elktoe)	G4/S4	21	5	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Alasmidonta viridis (Slippershell Mussel)	G4G5/S3S4	6	5	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Cumberlandia monodonta (Spectaclecase)	G2G3/S2S3	25	4	3.0	1.2	4.7
TN	Low	Invertebrate - Bivalve	Epioblasma triquetra (Snuffbox)	G3/S3	14	4	0.0	0.0	0.0

AQUATIC SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
TN	Low	Invertebrate - Bivalve	Fusconaia barnesiana (Tennessee Pigtoe)	G2G3/S2S3	35	15	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Fusconaia subrotunda (Longsolid)	G3/S3	38	18	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Lasmigona holstonia (Tennessee Heelsplitter)	G3/S2	17	8	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Lasmigona subviridis (Green Floater)	G3/S2	1	1	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Lexingtonia dolabelloides (Slabside Pearlymussel)	G2/S2	31	8	2.6	1.4	11.1
TN	Low	Invertebrate - Bivalve	Medionidus conradicus (Cumberland Moccasinshell)	G3G4/S3	8	3	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Obovaria olivaria (Hickorynut)	G4/S2?	3	1	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Obovaria subrotunda (Round Hickorynut)	G4/S2S3	12	4	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Plethobasus cyphus (Sheepnose)	G3/S2S3	18	10	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Pleurobema coccineum (Round Pigtoe)	G4/S4	4	1	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Pleurobema cordatum (Ohio Pigtoe)	G3/S3	18	11	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Pleurobema oviforme (Tennessee Clubshell)	G3/S2S3	15	3	2.3	0.8	2.3
TN	Low	Invertebrate - Bivalve	Pleurobema rubrum (Pyramid Pigtoe)	G2/S1S2	7	3	0.0	0.0	0.0
TN	Low	Invertebrate - Bivalve	Ptychobranchus subtentum (Fluted Kidneyshell)	G2G3/S2S3	10	11	0.9	0.4	3.9
TN	Low	Invertebrate - Bivalve	Quadrula cylindrica cylindrica (Rabbitsfoot)	G3T3/S3	12	1	7.0	1.8	1.8
TN	Low	Invertebrate - Bivalve	Toxolasma lividus (Purple Lilliput)	G2/S1S2	10	5	3.8	2.5	12.5
TN	Low	Invertebrate - Bivalve	Villosa fabalis (Rayed Bean)	G1G2/S1	1	1	5.0	4.6	4.6
TN	Low	Invertebrate - Bivalve	Villosa taeniata (Painted Creekshell)	G3G4/S3S4	11	3	0.0	0.0	0.0
TN	Low	Invertebrate - Crustacean	Cambarus angularis (Angled Crayfish)	G3/S3?	10	1	0.0	0.0	0.0
TN	Low	Invertebrate - Crustacean	Cambarus crinipes (Bouchard's Crayfish or Hairlegged Crayfish)	G4/S3	3	1	5.0	1.0	1.0
TN	Low	Invertebrate - Crustacean	Cambarus extraneus (Chickamauga Crayfish)	G2/S1S2	3	1	6.0	3.9	3.9
TN	Low	Invertebrate - Crustacean	Cambarus sp. 1 (Emory River Crayfish)	G1?/S1?	5	1	6.0	4.7	4.7
TN	Low	Invertebrate - Crustacean	Orconectes alabamensis (State-line Crayfish)	G5/S2	8	1	34.0	9.5	9.5
TN	Low	Invertebrate - Crustacean	Orconectes forceps (Surgeon Crayfish)	G4/S4	15	1	0.0	0.0	0.0
TN	Low	Invertebrate - Gastropod	Io fluviialis (Spiny Riversnail)	G2/S2	33	13	5.4	2.8	36.8
TN	Low	Invertebrate - Gastropod	Leptoxis umbilicata (Umbilicate Rocksnail)	G1/S1	2	3	4.0	4.2	12.6
TN	Low	Invertebrate - Gastropod	Lithasia geniculata fuliginosa (Geniculate River Snail)	G3G4T3/S3	11	3	6.0	1.6	4.7
TN	Low	Invertebrate - Gastropod	Lithasia geniculata pinguis (Small Geniculate River Snail)	G3G4T3/S3	2	1	6.0	1.6	1.6
TN	Low	Invertebrate - Gastropod	Lithasia lima (Warty Rocksnail)	G2/S2	6	10	5.8	3.1	30.5
TN	Low	Invertebrate - Gastropod	Lithasia salebrosa (Muddy Rocksnail or Rustic Rocksnail)	G3G4/S2	4	3	6.0	2.2	6.5
TN	Low	Invertebrate - Gastropod	Somatologyrus aureus (Golden Pebblesnail)	GH/S1?	1	1	37.0	15.2	15.2
TN	Low	Vertebrate - Amphibian	Cryptobranchus alleganiensis (Hellbender)	G3G4/S3	60	37	11.4	2.6	97.4
TN	Low	Vertebrate - Amphibian	Desmognathus welleri (Black Fluted Mountain Salamander)	G4/S3	17	8	16.0	3.2	25.3
TN	Low	Vertebrate - Amphibian	Eurycea junaluska (Junaluska Salamander)	G3/S2	7	2	6.0	2.4	4.7
TN	Low	Vertebrate - Fish	Acipenser fulvescens (Lake Sturgeon)	G3/S1	6	1	3.0	2.0	2.0
TN	Low	Vertebrate - Fish	Carpodops velifer (Highfin Carpsucker)	G4G5/S2S3	15	6	14.2	3.5	21.0
TN	Low	Vertebrate - Fish	Cycleptus elongatus (Blue sucker)	G3G4/S2	8	6	4.8	1.7	10.5
TN	Low	Vertebrate - Fish	Erimystax dissimilis (Streamline Chub)	G4/S3S4	9	2	21.5	3.5	7.1
TN	Low	Vertebrate - Fish	Erimystax insignis (Blotched Chub)	G3G4/S3S4	20	4	27.8	5.5	21.9
TN	Low	Vertebrate - Fish	Etheostoma acuticeps (Sharphead Darter)	G3/S2S3	15	3	4.0	1.3	3.9
TN	Low	Vertebrate - Fish	Etheostoma aquali (Coppercheek Darter)	G2G3/S2S3	35	5	29.8	11.8	58.8
TN	Low	Vertebrate - Fish	Etheostoma blennioides sequatchiense (Sequatchie Blenny Darter)	G4T3/S3	10	2	28.5	7.5	15.0
TN	Low	Vertebrate - Fish	Etheostoma cinereum (Ashy Darter)	G2G3/S2S3	25	1	7.0	2.8	2.8
TN	Low	Vertebrate - Fish	Etheostoma corona (Crown Darter)	G3G4/S1S2	5	1	28.0	13.8	13.8
TN	Low	Vertebrate - Fish	Etheostoma denoncourti (Golden Darter)	G2/S2	20	1	7.0	3.7	3.7
TN	Low	Vertebrate - Fish	Etheostoma neopterum (Lollypop Darter)	G3/S1S2	15	7	27.3	14.4	100.5
TN	Low	Vertebrate - Fish	Etheostoma striatulum (Striated Darter)	G1/S1	18	4	4.3	4.5	17.9
TN	Low	Vertebrate - Fish	Fundulus julisia (Barrens Topminnow)	G1/S1	8	2	5.0	5.3	10.5
TN	Low	Vertebrate - Fish	Hemimremia flammea (Flame Chub)	G3/S3	51	37	19.1	5.0	186.3
TN	Low	Vertebrate - Fish	Noturus sp. 3 (Saddled Madtom)	G2Q/S2	25	8	17.6	8.1	64.9
TN	Low	Vertebrate - Fish	Percina aurantiaca (Tangerine Darter)	G4/S3	45	18	20.3	4.0	72.0
TN	Low	Vertebrate - Fish	Percina burtoni (Blotchside Logperch)	G2/S2	33	3	4.3	2.3	6.8
TN	Low	Vertebrate - Fish	Percina macrocephala (Longhead Darter)	G3/S2	16	6	8.0	3.2	18.9
TN	Low	Vertebrate - Fish	Phoxinus tennesseensis (Tennessee Dace)	G3/S3	37	23	22.5	5.9	136.3
TN	Low	Vertebrate - Reptile	Apalone spinifera (Spiny Softshell Turtle)	G5/S5	12	3	5.0	0.2	0.7
TN	Low	Vertebrate - Reptile	Macrochelys temminckii (Alligator Snapping Turtle)	G3G4/S2S3	10	4	11.0	3.3	13.0

SUBTERRANEAN SPECIES									
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Reg. Goal	# Pops.	Avg. Viability	Avg. Priority Score	Total Priority Score
CUp	Very High	Invertebrate - Crustacean	Orconectes incomptus (Tennessee Cave Crayfish)	G1G2/S1	3	1	41.0	35.9	35.9
CUp	High	Invertebrate - Crustacean	Orconectes pellucidus (Eyeless Crayfish)	G3/S3	8	2	39.5	9.9	19.8
CUp	High	Invertebrate - Crustacean	Stygobromus vitreus (a cave obligate amphipod)	G4/S1?	6	1	23.0	10.1	10.1
CUp	High	Invertebrate - Gastropod	Carychium stygium (Cave Thorn)	G2G3/S2	6	1	28.0	12.3	12.3
CUp	High	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	15	1	25.0	4.7	4.7
CUp	Medium	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	15	2	31.5	5.9	11.8
CUp	Low	Invertebrate - Crustacean	Amergoniscus nicholasii (a cave obligate isopod)	G1G2/S2S3	5	1	5.0	2.8	2.8
CUp	Low	Invertebrate - Crustacean	Orconectes pellucidus (Eyeless Crayfish)	G3/S3	8	1	6.0	1.5	1.5
CUp	Low	Invertebrate - Crustacean	Stygobromus vitreus (a cave obligate amphipod)	G4/S1?	6	1	2.0	0.9	0.9
CUp	Low	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	15	10	5.7	1.1	10.7
NB	Very High	Invertebrate - Crustacean	Orconectes incomptus (Tennessee Cave Crayfish)	G1G2/S1	5	4	49.8	43.5	174.1
NB	Very High	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	12	1	42.0	7.9	7.9
NB	High	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	12	4	38.0	7.1	28.5
NB	Medium	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	12	2	27.5	5.2	10.3
NB	Low	Invertebrate - Gastropod	Helicodiscus hadenoecus (Cricket Coil or Cave Disc Snail)	G2/S3	4	2	5.5	2.1	4.1
NB	Low	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	12	2	5.0	0.9	1.9
C-R	Very High	Invertebrate - Crustacean	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	G1/S1	8	2	41.5	41.5	83.0
C-R	Very High	Invertebrate - Crustacean	Orconectes australis (Blind Crayfish)	G5/S3	29	2	56.5	7.9	15.9
C-R	Very High	Invertebrate - Crustacean	Stygobromus sp. 22 (Swamp River Cave Amphipod)	G2/S1	9	2	41.5	31.1	62.3
C-R	Very High	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	26	2	54.0	10.1	20.3
C-R	High	Invertebrate - Crustacean	Caecidotea nickajackensis (Nickajack Cave Isopod)	G2G3/S1	4	1	34.0	23.4	23.4
C-R	High	Invertebrate - Crustacean	Cambarus hamulatus (Nickajack Cave Crayfish)	G3G4/S3	10	1	34.0	7.4	7.4
C-R	High	Invertebrate - Crustacean	Diacyclops yeatmani (Yeatman's Groundwater Copepod)	G1/S1	8	1	5.0	5.0	5.0
C-R	High	Invertebrate - Crustacean	Orconectes australis (Blind Crayfish)	G5/S3	29	2	22.5	3.2	6.3
C-R	High	Invertebrate - Crustacean	Stygobromus sp. 22 (Swamp River Cave Amphipod)	G2/S1	9	3	41.7	31.3	93.8
C-R	High	Vertebrate - Amphibian	Gyrinophilus palleucus necturoides (Big Mouth Cave Salamander)	G2G3T1/SNR	5	1	63.0	32.5	32.5
C-R	High	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	26	1	6.0	1.1	1.1
C-R	Medium	Invertebrate - Crustacean	Cambarus hamulatus (Nickajack Cave Crayfish)	G3G4/S3	10	8	39.3	8.6	68.7
C-R	Medium	Invertebrate - Crustacean	Orconectes australis (Blind Crayfish)	G5/S3	29	10	37.4	5.3	52.6
C-R	Medium	Invertebrate - Gastropod	Helicodiscus hadenoecus (Cricket Coil or Cave Disc Snail)	G2/S3	9	2	39.0	14.6	29.3
C-R	Medium	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	26	6	34.2	6.4	38.4
C-R	Low	Invertebrate - Crustacean	Caecidotea circulus (a cave obligate isopod)	G1G2/S1	5	2	5.0	4.4	8.8
C-R	Low	Invertebrate - Crustacean	Caecidotea scyphus (a cave obligate isopod)	G1G2/S1	5	1	5.0	4.4	4.4
C-R	Low	Invertebrate - Crustacean	Caecidotea stygia (a cave obligate isopod)	G5/S1S2	5	3	2.0	0.8	2.3
C-R	Low	Invertebrate - Crustacean	Orconectes australis (Blind Crayfish)	G5/S3	29	21	3.1	0.4	9.3
C-R	Low	Invertebrate - Crustacean	Stygobromus nortoni (Norton's Cave Amphipod)	G3/SH	3	1	5.0	0.7	0.7
C-R	Low	Invertebrate - Gastropod	Helicodiscus hadenoecus (Cricket Coil or Cave Disc Snail)	G2/S3	9	1	4.0	1.5	1.5
C-R	Low	Vertebrate - Fish	Typhlichthys subterraneus (Southern Cavefish)	G4/S3	26	10	4.3	0.8	8.1
RV	Very High	Invertebrate - Crustacean	Caecidotea incurva (Incurved Cave Isopod)	G2G3/S1	5	1	5.0	3.4	3.4
RV	Very High	Vertebrate - Amphibian	Gyrinophilus palleucus gulolineatus (Berry Cave Salamander)	G2G3T1/S1	10	4	45.8	45.8	183.0
RV	High	Invertebrate - Crustacean	Amergoniscus paynei (a cave obligate isopod)	G1G2/S2S3	7	2	6.0	3.4	6.8
RV	High	Invertebrate - Crustacean	Caecidotea recurvata (Southwestern Virginia Cave Isopod)	G5/SR	5	3	5.0	0.2	0.5
RV	High	Invertebrate - Crustacean	Ligidium elrodii hancockensis (a cave obligate isopod)	G4G5T1T2/S1?	6	1	6.0	4.5	4.5
RV	High	Invertebrate - Crustacean	Stygobromus finleyi (Finley's Cave Amphipod)	G1G3/S1	5	1	6.0	4.5	4.5
RV	High	Invertebrate - Gastropod	Helicodiscus notius specus (a cave snail)	G5T2/S1?	5	1	6.0	3.8	3.8
RV	Medium	Invertebrate - Crustacean	Amergoniscus paynei (a cave obligate isopod)	G1G2/S2S3	7	2	6.0	3.4	6.8
RV	Medium	Invertebrate - Crustacean	Caecidotea nortoni (a cave obligate isopod)	G3/S1S2	4	2	5.0	2.5	5.0
RV	Medium	Invertebrate - Crustacean	Stygobromus dicksoni (a cave obligate amphipod)	G5/S1S2	6	1	6.0	2.3	2.3
RV	Low	Invertebrate - Crustacean	Caecidotea recurvata (Southwestern Virginia Cave Isopod)	G5/SR	5	10	5.0	0.2	1.6
RV	Low	Invertebrate - Crustacean	Stygobromus nortoni (Norton's Cave Amphipod)	G3/SH	3	1	6.0	0.8	0.8
SBR	Very High	Invertebrate - Crustacean	Caecidotea incurva (Incurved Cave Isopod)	G2G3/S1	5	1	5.0	3.4	3.4
SBR	Very High	Invertebrate - Crustacean	Stygobromus fecundus (a cave obligate amphipod)	G1G2/S1	4	1	6.0	5.3	5.3
SBR	Very High	Invertebrate - Crustacean	Stygobromus sparsus (a cave obligate amphipod)	G1G2/S1	4	1	6.0	5.3	5.3
SBR	Low	Invertebrate - Crustacean	Stygobromus barryi (a cave obligate amphipod)	G1G2/S1	4	1	6.0	5.3	5.3

TERRESTRIAL RESTORATION											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference		
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	
MAP	Very High	Invertebrate - Gastropod	Webbhelix multilineata (Striped Whitelip)	G4/S1	0.0	0.0	18.1	18.1	18.1	18.1	
MAP	Very High	Vertebrate - Bird	Anhinga anhinga (Anhinga)	G5/S1B	0.0	0.0	9.8	274.3	9.8	274.3	
MAP	Very High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	5.2	93.0	5.2	93.0	
MAP	Very High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.5	94.8	3.5	94.8	
MAP	Very High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	3.0	81.1	3.0	81.1	
MAP	Very High	Vertebrate - Bird	Ardea alba (Great Egret)	G5/S2BS3N	0.0	0.0	2.9	80.6	2.9	80.6	
MAP	Very High	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	0.0	0.0	2.8	78.6	2.8	78.6	
MAP	Very High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.7	3.4	1.7	3.4	
MAP	Very High	Vertebrate - Bird	Sterna antillarum athalassos (Interior Least Tern)	G4T2Q/S2S3B	0.0	0.0	1.5	2.9	1.5	2.9	
MAP	Very High	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	0.0	0.0	1.6	46.8	1.6	46.8	
MAP	Very High	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.4	25.8	1.4	25.8	
MAP	Very High	Vertebrate - Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	3.0	6.0	4.3	120.2	1.3	114.2	
MAP	Very High	Vertebrate - Bird	Vireo griseus (White-eyed Vireo)	G5/S4	0.3	0.7	1.6	47.4	1.3	46.7	
MAP	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.2	0.4	1.3	18.1	1.1	17.7	
MAP	Very High	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	1.1	7.4	1.1	7.4	
MAP	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	1.1	30.2	1.1	30.2	
MAP	Very High	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	1.0	12.0	1.0	12.0	
MAP	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	1.0	30.0	1.0	30.0	
MAP	Very High	Vertebrate - Bird	Riparia riparia (Bank Swallow)	G5/S3	0.6	9.7	1.6	24.9	1.0	15.2	
MAP	Very High	Vertebrate - Bird	Parula americana (Northern Parula)	G5/S5	0.0	0.0	0.9	26.9	0.9	26.9	
MAP	Very High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	0.6	1.1	31.4	0.8	30.8	
MAP	Very High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	0.7	1.1	32.8	0.8	32.1	
MAP	Very High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	2.7	1.0	9.4	0.7	6.7	
MAP	Very High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.3	1.0	0.3	1.0	
MAP	Very High	Vertebrate - Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	0.0	0.0	0.3	0.6	0.3	0.6	
MAP	Very High	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.2	0.2	0.2	0.2	
MAP	Very High	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0	
MAP	Very High	Vertebrate - Bird	Calidris canutus (Red Knot)	G5/S2N	0.5	0.5	0.5	0.5	0.0	0.0	
MAP	Very High	Vertebrate - Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	0.4	0.4	0.4	0.4	0.0	0.0	
MAP	Very High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.3	0.3	0.0	0.0	-0.3	-0.3	
MAP	Very High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	0.7	0.0	0.0	-0.3	-0.7	
MAP	Very High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.3	2.4	0.0	0.0	-0.3	-2.4	
MAP	Very High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	0.9	1.8	0.0	0.0	-0.9	-1.8	
MAP	Very High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.8	32.2	0.0	0.0	-1.8	-32.2	
MAP	High	Vertebrate - Bird	Rallus elegans (King Rail)	G4G5/S2	0.0	0.0	5.6	56.0	5.6	56.0	
MAP	High	Vertebrate - Bird	Anhinga anhinga (Anhinga)	G5/S1B	0.0	0.0	5.6	209.0	5.6	209.0	
MAP	High	Vertebrate - Bird	Sterna antillarum athalassos (Interior Least Tern)	G4T2Q/S2S3B	0.0	0.0	4.3	80.9	4.3	80.9	
MAP	High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	5.2	233.3	5.2	233.3	
MAP	High	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	0.0	0.0	2.7	195.0	2.7	195.0	
MAP	High	Vertebrate - Bird	Passerina ciris (Painted Bunting)	G5/S2	1.1	2.3	4.0	8.0	2.9	5.7	
MAP	High	Vertebrate - Bird	Ardea alba (Great Egret)	G5/S2BS3N	0.0	0.0	2.5	206.3	2.5	206.3	
MAP	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.4	77.4	2.4	77.4	
MAP	High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	1.8	66.4	1.8	66.4	
MAP	High	Vertebrate - Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	0.0	0.0	1.6	4.8	1.6	4.8	
MAP	High	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	0.0	0.0	1.4	123.6	1.4	123.6	
MAP	High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.4	27.4	1.4	27.4	
MAP	High	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.2	44.5	1.2	44.5	
MAP	High	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	1.1	8.0	1.1	8.0	
MAP	High	Vertebrate - Bird	Vireo griseus (White-eyed Vireo)	G5/S4	0.3	3.0	1.5	128.5	1.2	125.5	
MAP	High	Vertebrate - Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	2.8	25.4	4.0	319.4	1.2	294.0	
MAP	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	1.0	76.9	1.0	76.9	
MAP	High	Vertebrate - Bird	Riparia riparia (Bank Swallow)	G5/S3	0.7	31.4	1.6	76.7	0.9	45.3	
MAP	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.9	72.6	0.9	72.6	
MAP	High	Vertebrate - Bird	Parula americana (Northern Parula)	G5/S5	0.0	0.0	0.8	63.6	0.8	63.6	
MAP	High	Vertebrate - Bird	Limosa haemastica (Hudsonian Godwit)	G4/S?	0.3	0.3	1.0	1.0	0.8	0.8	
MAP	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	2.3	1.0	80.6	0.7	78.3	
MAP	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	3.0	0.8	10.6	0.5	7.5	
MAP	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.1	0.2	1.0	16.4	0.9	16.1	
MAP	High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	2.7	1.1	83.5	0.7	80.8	
MAP	High	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.7	12.9	0.7	12.9	
MAP	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	2.3	0.4	2.3	
MAP	High	Vertebrate - Bird	Numenius phaeopus (Whimbrel)	G5/S?	0.0	0.0	0.2	0.4	0.2	0.4	
MAP	High	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.2	0.2	0.2	0.2	
MAP	High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.1	0.3	0.3	0.2	0.2	
MAP	High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.0	0.0	0.2	0.9	0.2	0.9	
MAP	High	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.2	0.2	0.2	0.2	
MAP	High	Vertebrate - Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	1.8	5.5	1.8	5.5	0.0	0.0	
MAP	High	Vertebrate - Bird	Calidris mauri (Western Sandpiper)	G5/S4N	1.4	6.9	1.4	6.9	0.0	0.0	

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
MAP	High	Vertebrate - Bird	Calidris canutus (Red Knot)	G5/S2N	1.7	8.4	1.7	8.4	0.0	0.0
MAP	High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.4	4.8	0.0	0.0	-0.4	-4.8
MAP	High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.3	2.5	0.0	0.0	-0.3	-2.5
MAP	High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	3.0	0.0	0.0	-0.3	-3.0
MAP	High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.1	14.8	0.0	0.0	-1.1	-14.8
MAP	High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.7	99.9	0.0	0.0	-1.7	-99.9
MAP	Medium	Vertebrate - Bird	Sterna antillarum ahalassos (Interior Least Tern)	G4T2Q/S2S3B	0.0	0.0	3.5	129.7	3.5	129.7
MAP	Medium	Vertebrate - Bird	Anhinga anhinga (Anhinga)	G5/S1B	0.0	0.0	3.9	97.7	3.9	97.7
MAP	Medium	Vertebrate - Bird	Passerina ciris (Painted Bunting)	G5/S2	1.1	9.9	3.9	34.9	2.8	24.9
MAP	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.4	98.0	3.4	98.0
MAP	Medium	Vertebrate - Bird	Ardea alba (Great Egret)	G5/S2BS3N	1.2	9.5	2.2	264.4	1.0	254.9
MAP	Medium	Vertebrate - Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	0.0	0.0	1.6	7.8	1.6	7.8
MAP	Medium	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	6.7	1.1	6.7
MAP	Medium	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	1.3	15.2	2.2	266.9	1.0	251.6
MAP	Medium	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.2	19.7	1.2	19.7
MAP	Medium	Vertebrate - Bird	Calidris himantopus (Stilt Sandpiper)	G5/S3N	3.1	3.1	4.4	4.4	1.3	1.3
MAP	Medium	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.2	2.0	1.1	18.1	0.9	16.2
MAP	Medium	Vertebrate - Bird	Vireo griseus (White-eyed Vireo)	G5/S4	0.3	14.1	1.5	186.1	1.2	172.0
MAP	Medium	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	1.6	47.4	1.6	47.4
MAP	Medium	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	1.1	118.5	1.1	118.5
MAP	Medium	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	3.9	46.9	4.6	310.8	0.7	263.9
MAP	Medium	Vertebrate - Bird	Limosa haemastica (Hudsonian Godwit)	G4/S?	0.2	0.7	0.9	2.6	0.6	1.8
MAP	Medium	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	0.9	6.6	0.9	6.6
MAP	Medium	Vertebrate - Bird	Rallus elegans (King Rail)	G4G5/S2	0.0	0.0	0.9	0.9	0.9	0.9
MAP	Medium	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	0.8	0.9	2.8	0.7	2.0
MAP	Medium	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	4.1	1.1	109.9	0.7	105.9
MAP	Medium	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	9.8	1.1	116.6	0.7	106.8
MAP	Medium	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	9.4	1.1	132.9	0.8	123.5
MAP	Medium	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.6	1.9	0.6	1.9
MAP	Medium	Vertebrate - Bird	Parula americana (Northern Parula)	G5/S5	0.2	2.4	0.9	104.8	0.7	102.4
MAP	Medium	Vertebrate - Bird	Riparia riparia (Bank Swallow)	G5/S3	0.8	33.5	1.5	60.8	0.7	27.3
MAP	Medium	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	1.2	14.2	1.5	191.9	0.4	177.7
MAP	Medium	Vertebrate - Bird	Limosa fedoa (Marbled Godwit)	G5/S?	0.0	0.0	0.4	0.4	0.4	0.4
MAP	Medium	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.3	1.1	0.3	1.1
MAP	Medium	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.1	0.1	0.3	0.5	0.2	0.4
MAP	Medium	Vertebrate - Bird	Charadrius wilsonia (Wilson's Plover)	G5/S?	0.1	0.1	0.3	0.3	0.2	0.2
MAP	Medium	Vertebrate - Bird	Numenius phaeopus (Whimbrel)	G5/S?	0.0	0.0	0.1	0.7	0.1	0.7
MAP	Medium	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.1	0.2	0.1	0.2
MAP	Medium	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.0	0.0	0.1	0.1	0.1	0.1
MAP	Medium	Vertebrate - Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	0.0	0.0	0.0	0.0	0.0	0.0
MAP	Medium	Vertebrate - Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	2.1	12.4	2.1	12.4	0.0	0.0
MAP	Medium	Vertebrate - Bird	Calidris mauri (Western Sandpiper)	G5/S4N	1.6	4.9	1.6	4.9	0.0	0.0
MAP	Medium	Vertebrate - Bird	Calidris canutus (Red Knot)	G5/S2N	2.6	13.1	2.6	13.1	0.0	0.0
MAP	Medium	Vertebrate - Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	2.5	109.4	3.1	396.8	0.6	287.5
MAP	Medium	Vertebrate - Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	0.1	0.2	0.0	0.0	-0.1	-0.2
MAP	Medium	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	9.3	0.0	0.0	-0.3	-9.3
MAP	Medium	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.5	12.0	0.0	0.0	-0.5	-12.0
MAP	Medium	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.1	13.7	0.0	0.0	-1.1	-13.7
MAP	Medium	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.2	13.7	0.0	0.0	-1.2	-13.7
MAP	Medium	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.6	123.8	0.0	0.0	-1.6	-123.8
MAP	Medium	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	1.9	3.7	0.0	0.0	-1.9	-3.7
MAP	Low	Vertebrate - Bird	Sterna antillarum ahalassos (Interior Least Tern)	G4T2Q/S2S3B	0.0	0.0	3.9	150.6	3.9	150.6
MAP	Low	Vertebrate - Bird	Anhinga anhinga (Anhinga)	G5/S1B	0.0	0.0	2.6	34.3	2.6	34.3
MAP	Low	Vertebrate - Bird	Passerina ciris (Painted Bunting)	G5/S2	1.0	5.1	3.6	17.8	2.5	12.7
MAP	Low	Vertebrate - Amphibian	Hyla gratiosa (Barking Treefrog)	G5/S3	0.0	0.0	2.4	2.4	2.4	2.4
MAP	Low	Vertebrate - Bird	Pluvialis dominica (American Golden Plover)	G5/S3N	0.0	0.0	2.2	10.9	2.2	10.9
MAP	Low	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	1.7	3.4	1.7	3.4
MAP	Low	Vertebrate - Bird	Vireo griseus (White-eyed Vireo)	G5/S4	0.3	15.9	1.4	141.6	1.1	125.6
MAP	Low	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	0.8	3.2	0.8	3.2
MAP	Low	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	1.0	118.5	1.0	118.5
MAP	Low	Vertebrate - Bird	Limosa haemastica (Hudsonian Godwit)	G4/S?	0.2	0.5	0.9	1.7	0.6	1.2
MAP	Low	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	15.5	1.0	105.7	0.7	90.1
MAP	Low	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	12.3	0.9	99.1	0.7	86.8
MAP	Low	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	2.2	1.0	87.7	0.7	85.5
MAP	Low	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.2	0.5	0.7	2.1	0.6	1.7
MAP	Low	Vertebrate - Bird	Parula americana (Northern Parula)	G5/S5	0.2	1.3	0.8	58.3	0.6	57.0
MAP	Low	Vertebrate - Bird	Charadrius melodus melodus (Piping Plover)	G3/S2N	0.1	0.5	0.5	1.9	0.3	1.4
MAP	Low	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	1.3	8.0	1.3	8.0

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
MAP	Low	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	0.7	5.9	0.7	5.9
MAP	Low	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	0.7	5.9	0.7	5.9
MAP	Low	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	1.1	7.6	1.5	182.0	0.4	174.4
MAP	Low	Vertebrate - Bird	Charadrius alexandrinus (Snowy Plover)	G4/S?	0.0	0.0	0.3	1.1	0.3	1.1
MAP	Low	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.3	1.0	0.3	1.0
MAP	Low	Vertebrate - Bird	Numenius phaeopus (Whimbrel)	G5/S?	0.0	0.0	0.2	0.6	0.1	0.6
MAP	Low	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	1.5	10.6	2.2	246.8	0.7	236.2
MAP	Low	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.1	0.3	0.4	1.1	0.3	0.8
MAP	Low	Vertebrate - Bird	Riparia riparia (Bank Swallow)	G5/S3	1.0	50.7	1.1	56.6	0.1	5.9
MAP	Low	Vertebrate - Bird	Limosa fedoa (Marbled Godwit)	G5/S?	0.0	0.0	0.1	0.2	0.1	0.2
MAP	Low	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.0	0.0	0.1	0.2	0.1	0.2
MAP	Low	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.1	0.1	0.1	0.1
MAP	Low	Vertebrate - Bird	Tryngites subruficollis (Buff-breasted Sandpiper)	G4/S3N	1.9	15.3	1.9	15.3	0.0	0.0
MAP	Low	Vertebrate - Bird	Calidris canutus (Red Knot)	G5/S2N	1.8	19.9	1.8	19.9	0.0	0.0
MAP	Low	Vertebrate - Bird	Calidris mauri (Western Sandpiper)	G5/S4N	0.2	1.0	0.2	1.0	0.0	0.0
MAP	Low	Vertebrate - Bird	Ardea alba (Great Egret)	G5/S2BS3N	1.3	8.8	2.0	190.3	0.7	181.5
MAP	Low	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.1	0.1	0.0	0.0	-0.1	-0.1
MAP	Low	Vertebrate - Bird	Ictinia mississippiensis (Mississippi Kite)	G5/S2S3	1.8	107.2	2.0	249.7	0.3	142.6
MAP	Low	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.4	11.4	0.0	0.0	-0.4	-11.4
MAP	Low	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	9.9	0.0	0.0	-0.3	-9.9
MAP	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.0	5.8	0.0	0.0	-1.0	-5.8
MAP	Low	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.1	13.4	0.0	0.0	-1.1	-13.4
MAP	Low	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.2	2.3	0.0	0.0	-1.2	-2.3
MAP	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.2	98.1	0.0	0.0	-1.2	-98.1
MAP	Low	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	5.8	5.8	3.2	245.4	-2.6	239.6
UGCP	Very High	Vertebrate - Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	0.0	0.0	17.6	52.8	17.6	52.8
UGCP	Very High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.8	739.1	3.8	739.1
UGCP	Very High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	3.5	652.1	3.5	652.1
UGCP	Very High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	3.2	74.5	3.2	74.5
UGCP	Very High	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	0.0	0.0	2.7	189.7	2.7	189.7
UGCP	Very High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.5	104.8	1.5	104.8
UGCP	Very High	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.1	210.2	1.1	210.2
UGCP	Very High	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	1.1	19.3	1.1	19.3
UGCP	Very High	Vertebrate - Bird	Rallus elegans (King Rail)	G4G5/S2	4.5	4.5	6.0	113.6	1.5	109.1
UGCP	Very High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.0	15.4	2.0	30.3	1.0	14.9
UGCP	Very High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	37.4	1.1	228.5	0.8	191.1
UGCP	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	8.7	1.2	237.3	0.8	228.7
UGCP	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	5.7	1.1	234.5	0.8	228.8
UGCP	Very High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	35.6	1.1	218.2	0.8	182.6
UGCP	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.4	26.4	1.1	95.0	0.7	68.6
UGCP	Very High	Vertebrate - Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	1.9	1.9	1.6	51.4	-0.3	49.5
UGCP	Very High	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.3	3.1	0.3	3.1
UGCP	Very High	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	1.2	10.6	1.6	319.8	0.5	309.2
UGCP	Very High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.3	5.5	0.3	5.5
UGCP	Very High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	1.1	0.5	3.9	0.3	2.8
UGCP	Very High	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.3	0.8	0.3	0.8
UGCP	Very High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.1	0.2	0.3	2.0	0.3	1.8
UGCP	Very High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.0	0.8	0.2	4.0	0.2	3.2
UGCP	Very High	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.1	0.4	0.1	0.4
UGCP	Very High	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.0	0.1	0.1	0.4	0.0	0.3
UGCP	Very High	Vertebrate - Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	0.0	0.0	0.0	0.0	0.0	0.0
UGCP	Very High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	7.5	0.3	10.1	0.0	2.5
UGCP	Very High	Vertebrate - Mammal	Ochrolomys nuttalli (Golden Mouse)	G5/SU	0.1	0.1	0.0	0.0	-0.1	-0.1
UGCP	Very High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.1	0.1	0.0	0.0	-0.1	-0.1
UGCP	Very High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	19.8	0.0	0.0	-0.3	-19.8
UGCP	Very High	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.8	1.6	0.0	0.0	-0.8	-1.6
UGCP	Very High	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	0.8	7.6	0.0	0.0	-0.8	-7.6
UGCP	Very High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	0.8	28.9	0.0	0.0	-0.8	-28.9
UGCP	Very High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.7	19.4	0.0	0.0	-0.7	-19.4
UGCP	Very High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.1	81.6	0.0	0.0	-1.1	-81.6
UGCP	Very High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.8	10.0	0.0	0.0	-0.8	-10.0
UGCP	Very High	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	1.4	2.8	0.0	0.0	-1.4	-2.8
UGCP	Very High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.6	179.1	0.0	0.0	-1.6	-179.1
UGCP	High	Vertebrate - Reptile	Eumeces anthracinus (Coal Skink)	G5/S1	0.0	0.0	12.5	12.5	12.5	12.5
UGCP	High	Vertebrate - Bird	Rallus elegans (King Rail)	G4G5/S2	0.0	0.0	6.1	176.0	6.1	176.0
UGCP	High	Vertebrate - Amphibian	Hyla gratiosa (Barking Treefrog)	G5/S3	0.0	0.0	4.9	14.6	4.9	14.6
UGCP	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.6	1180.8	3.6	1180.8
UGCP	High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	3.0	989.5	3.0	989.5

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
UGCP	High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	2.7	84.3	2.7	84.3
UGCP	High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.6	176.7	1.6	176.7
UGCP	High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.3	0.6	0.9	2.8	0.7	2.3
UGCP	High	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.1	379.0	1.1	379.0
UGCP	High	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	1.0	22.8	1.0	22.8
UGCP	High	Vertebrate - Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	0.0	0.0	1.1	29.0	1.1	29.0
UGCP	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	15.5	1.1	566.8	0.8	551.3
UGCP	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	80.3	1.1	501.7	0.8	421.5
UGCP	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	13.7	1.1	568.1	0.8	554.4
UGCP	High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	83.0	1.1	524.3	0.8	441.3
UGCP	High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.0	38.0	1.9	74.3	0.9	36.3
UGCP	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.5	65.2	1.1	201.7	0.6	136.5
UGCP	High	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	0.3	0.8	0.3	0.8
UGCP	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.5	18.8	0.5	18.8
UGCP	High	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	1.1	6.7	1.6	678.3	0.5	671.7
UGCP	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	5.4	0.7	19.2	0.5	13.8
UGCP	High	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.4	1.9	0.4	1.9
UGCP	High	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.2	0.7	0.2	0.7
UGCP	High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.0	0.1	0.2	0.4	0.2	0.3
UGCP	High	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.1	0.5	0.1	0.5
UGCP	High	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.0	0.1	0.1	0.3	0.1	0.2
UGCP	High	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.0	0.3	0.1	0.9	0.1	0.6
UGCP	High	Vertebrate - Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0
UGCP	High	Vertebrate - Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	0.0	0.0	0.0	0.1	0.0	0.1
UGCP	High	Vertebrate - Amphibian	Rana areolata (Crawfish Frog)	G4/S4	0.1	0.2	0.1	0.2	0.0	0.0
UGCP	High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	18.3	0.3	18.6	0.0	0.3
UGCP	High	Vertebrate - Mammal	Ochrotomys nuttalli (Golden Mouse)	G5/SU	0.1	0.2	0.0	0.0	-0.1	-0.2
UGCP	High	Vertebrate - Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	0.1	0.1	0.0	0.0	-0.1	-0.1
UGCP	High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.1	0.1	0.0	0.0	-0.1	-0.1
UGCP	High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	61.6	0.0	0.0	-0.3	-61.6
UGCP	High	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	3.0	3.0	2.5	243.7	-0.5	240.7
UGCP	High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.5	0.9	0.0	0.0	-0.5	-0.9
UGCP	High	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.5	0.5	0.0	0.0	-0.5	-0.5
UGCP	High	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.1	2.3	0.0	0.0	-1.1	-2.3
UGCP	High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	0.8	87.8	0.0	0.0	-0.8	-87.8
UGCP	High	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	1.0	12.8	0.0	0.0	-1.0	-12.8
UGCP	High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.7	59.3	0.0	0.0	-0.7	-59.3
UGCP	High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.0	219.8	0.0	0.0	-1.0	-219.8
UGCP	High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.2	380.7	0.0	0.0	-1.2	-380.7
UGCP	High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.4	20.5	0.0	0.0	-1.4	-20.5
UGCP	High	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	1.7	13.7	0.0	0.0	-1.7	-13.7
UGCP	Medium	Vertebrate - Bird	Rallus elegans (King Rail)	G4G5/S2	0.0	0.0	5.1	35.5	5.1	35.5
UGCP	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.6	1064.1	3.6	1064.1
UGCP	Medium	Vertebrate - Bird	Limnithlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	3.2	1181.9	3.2	1181.9
UGCP	Medium	Vertebrate - Amphibian	Hyla graliosa (Barking Treefrog)	G5/S3	0.0	0.0	3.4	24.0	3.4	24.0
UGCP	Medium	Vertebrate - Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	0.0	0.0	2.2	95.8	2.2	95.8
UGCP	Medium	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.5	245.7	1.5	245.7
UGCP	Medium	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.3	0.7	1.6	3.3	1.3	2.6
UGCP	Medium	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.1	482.1	1.1	482.1
UGCP	Medium	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	0.0	0.0	1.0	50.1	1.0	50.1
UGCP	Medium	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	1.4	11.6	1.4	11.6
UGCP	Medium	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	0.8	2.5	1.6	1116.3	0.8	1113.8
UGCP	Medium	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	8.1	1.1	925.2	0.8	917.1
UGCP	Medium	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	189.4	1.1	880.7	0.8	691.3
UGCP	Medium	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	156.6	1.1	741.1	0.8	584.5
UGCP	Medium	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	8.7	1.1	840.8	0.8	832.1
UGCP	Medium	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	14.6	1.0	50.8	0.7	36.2
UGCP	Medium	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	2.1	4.2	2.7	356.7	0.6	352.5
UGCP	Medium	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	69.9	1.0	223.2	0.7	153.4
UGCP	Medium	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.1	0.2	1.0	3.8	0.8	3.6
UGCP	Medium	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.4	0.7	2.0	0.5	1.6
UGCP	Medium	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	0.8	26.9	1.6	53.3	0.8	26.5
UGCP	Medium	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	6.5	0.4	6.5
UGCP	Medium	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.3	1.3	0.3	1.3
UGCP	Medium	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.2	1.0	0.2	1.0
UGCP	Medium	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.0	0.4	0.1	1.4	0.1	1.0
UGCP	Medium	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.1	0.4	0.1	0.4
UGCP	Medium	Vertebrate - Amphibian	Rana areolata (Crawfish Frog)	G4/S4	0.0	0.7	0.0	0.7	0.0	0.0

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
UGCP	Medium	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	22.5	0.3	22.7	0.0	0.2
UGCP	Medium	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.0	0.7	0.0	0.0	0.0	-0.7
UGCP	Medium	Vertebrate - Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	0.0	0.1	0.0	0.0	0.0	-0.1
UGCP	Medium	Vertebrate - Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	0.1	0.2	0.0	0.0	-0.1	-0.2
UGCP	Medium	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	2.8	2.8	2.7	336.7	-0.1	333.9
UGCP	Medium	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	150.3	0.0	0.0	-0.3	-150.3
UGCP	Medium	Vertebrate - Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	1.5	16.0	1.1	14.3	-0.4	-1.7
UGCP	Medium	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.7	26.7	0.0	0.0	-0.7	-26.7
UGCP	Medium	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	0.5	3.5	0.0	0.0	-0.5	-3.5
UGCP	Medium	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.9	173.5	0.0	0.0	-0.9	-173.5
UGCP	Medium	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	1.1	2.1	0.0	0.0	-1.1	-2.1
UGCP	Medium	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.2	281.1	0.0	0.0	-1.2	-281.1
UGCP	Medium	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.2	489.0	0.0	0.0	-1.2	-489.0
UGCP	Medium	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.6	973.7	0.0	0.0	-1.6	-973.7
UGCP	Medium	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	2.1	10.4	0.0	0.0	-2.1	-10.4
UGCP	Medium	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.9	26.6	0.0	0.0	-1.9	-26.6
UGCP	Low	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.4	408.7	3.4	408.7
UGCP	Low	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	3.2	680.9	3.2	680.9
UGCP	Low	Vertebrate - Amphibian	Hyla gratiosa (Barking Treefrog)	G5/S3	0.0	0.0	2.6	23.5	2.6	23.5
UGCP	Low	Vertebrate - Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.5	235.8	1.5	235.8
UGCP	Low	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	1.2	4.7	2.6	390.6	1.4	385.8
UGCP	Low	Vertebrate - Bird	Seiurus motacilla (Louisiana Waterthrush)	G5/S4	0.0	0.0	1.1	328.5	1.1	328.5
UGCP	Low	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.2	0.5	0.9	2.6	0.7	2.1
UGCP	Low	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	1.2	2.4	1.2	2.4
UGCP	Low	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	166.6	1.1	632.6	0.8	466.1
UGCP	Low	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	136.2	1.1	517.4	0.8	381.2
UGCP	Low	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	4.7	1.1	646.5	0.8	641.8
UGCP	Low	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	6.5	1.1	503.7	0.8	497.2
UGCP	Low	Vertebrate - Mammal	Myotis austroriparius (Southeastern Bat)	G3G4/S3	0.0	0.0	0.6	15.1	0.6	15.1
UGCP	Low	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	6.6	1.0	22.8	0.7	16.2
UGCP	Low	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.6	108.8	2.3	154.9	0.7	46.1
UGCP	Low	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.4	48.4	1.0	132.7	0.7	84.3
UGCP	Low	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.3	2.3	0.3	2.3
UGCP	Low	Vertebrate - Bird	Protonotaria citrea (Prothonotary Warbler)	G5/S4	1.2	7.1	1.6	743.8	0.4	736.8
UGCP	Low	Vertebrate - Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	0.0	0.0	0.4	0.8	0.4	0.8
UGCP	Low	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.1	0.1	0.3	0.5	0.2	0.4
UGCP	Low	Vertebrate - Mammal	Neotoma floridana illinoensis (Eastern Woodrat)	G5T5/S3	0.0	0.0	0.2	0.2	0.2	0.2
UGCP	Low	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.1	0.3	0.3	0.2	0.2
UGCP	Low	Vertebrate - Reptile	Nerodia cyclopion (Green Water Snake)	G5/S2	0.0	0.0	0.2	0.7	0.2	0.7
UGCP	Low	Vertebrate - Amphibian	Acris gryllus (Southern Cricket Frog)	G5/S4	0.0	0.0	0.1	1.1	0.1	1.1
UGCP	Low	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.0	0.3	0.1	1.2	0.0	0.9
UGCP	Low	Vertebrate - Reptile	Anolis carolinensis (Green Anole)	G5/S3	0.0	0.0	0.0	0.0	0.0	0.0
UGCP	Low	Vertebrate - Amphibian	Hyla versicolor (Gray Treefrog)	G5/S5	0.0	0.0	0.0	0.0	0.0	0.0
UGCP	Low	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	20.9	0.3	20.9	0.0	0.0
UGCP	Low	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.0	0.2	0.0	0.0	0.0	-0.2
UGCP	Low	Vertebrate - Reptile	Masticophis flagellum (Coachwhip)	G5/S2S3?	0.1	0.3	0.0	0.0	-0.1	-0.3
UGCP	Low	Vertebrate - Reptile	Virginia striatula (Rough Earth Snake)	G5/S2S3?	0.1	0.4	0.0	0.0	-0.1	-0.4
UGCP	Low	Vertebrate - Bird	Egretta caerulea (Little Blue Heron)	G5/S2BS3N	3.0	18.1	2.8	298.8	-0.2	280.7
UGCP	Low	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	142.7	0.0	0.0	-0.3	-142.7
UGCP	Low	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	0.8	4.1	0.0	0.0	-0.8	-4.1
UGCP	Low	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	1.0	169.9	0.0	0.0	-1.0	-169.9
UGCP	Low	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.4	421.6	0.0	0.0	-1.4	-421.6
UGCP	Low	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.5	682.5	0.0	0.0	-1.5	-682.5
UGCP	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.5	106.7	0.0	0.0	-1.5	-106.7
UGCP	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.9	768.1	0.0	0.0	-1.9	-768.1
UGCP	Low	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	3.0	67.0	0.0	0.0	-3.0	-67.0
UGCP	Low	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	2.1	165.0	0.0	0.0	-2.1	-165.0
UGCP	Low	Vertebrate - Bird	Tyrannus forficatus (Scissor-tailed Flycatcher)	G5/S1BSAN	4.0	128.1	1.1	36.7	-2.9	-91.4
UGCP	Low	Vertebrate - Bird	Ixobrychus exilis (Least Bittern)	G5/S2B	4.0	24.0	1.1	31.5	-2.9	7.5
ILP	Very High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	3.7	44.8	3.7	44.8
ILP	Very High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	5.1	188.8	5.1	188.8
ILP	Very High	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	6.0	48.0	6.0	48.0
ILP	Very High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	3.7	44.4	3.7	44.4
ILP	Very High	Vertebrate - Amphibian	Hemidactylum scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	3.6	10.9	3.6	10.9
ILP	Very High	Vertebrate - Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.6	184.2	1.6	184.2
ILP	Very High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.6	6.2	1.2	17.1	0.7	10.9
ILP	Very High	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.0	0.0	1.4	2.7	1.4	2.7
ILP	Very High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.7	33.8	0.7	33.8

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
ILP	Very High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	146.2	1.1	146.2
ILP	Very High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	134.0	1.1	134.0
ILP	Very High	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	1.5	10.8	1.5	10.8
ILP	Very High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	0.8	56.3	0.8	56.3
ILP	Very High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.8	4.1	0.8	4.1
ILP	Very High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	3.4	0.9	25.1	0.7	21.7
ILP	Very High	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	5.7	0.7	87.8	0.5	82.1
ILP	Very High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	0.9	53.0	1.4	138.8	0.5	85.8
ILP	Very High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.0	104.1	1.3	134.7	0.3	30.6
ILP	Very High	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.1	0.9	0.3	3.3	0.2	2.3
ILP	Very High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	1.1	0.3	3.8	0.2	2.7
ILP	Very High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	23.2	0.2	23.2
ILP	Very High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.4	28.9	1.7	35.5	0.3	6.5
ILP	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	8.8	0.3	40.3	0.0	31.5
ILP	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	9.5	0.3	41.5	0.0	32.0
ILP	Very High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	18.5	0.3	41.2	0.0	22.8
ILP	Very High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	15.6	0.3	23.7	0.0	8.1
ILP	Very High	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	2.6	2.6	2.6	2.6	0.0	0.0
ILP	Very High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	4.5	0.3	16.2	0.0	11.7
ILP	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.4	18.9	0.3	25.3	-0.1	6.4
ILP	Very High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.0	0.1	0.0	0.0	0.0	-0.1
ILP	Very High	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	0.2	0.3	0.0	0.0	-0.2	-0.3
ILP	Very High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.5	0.5	0.0	0.0	-0.5	-0.5
ILP	Very High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.5	5.9	0.0	0.0	-0.5	-5.9
ILP	Very High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.3	43.6	0.0	0.0	-1.3	-43.6
ILP	Very High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	2.1	2.1	0.0	0.0	-2.1	-2.1
ILP	High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	3.7	26.1	3.7	26.1
ILP	High	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	2.8	5.6	2.8	5.6
ILP	High	Vertebrate - Amphibian	Ambystoma barbouri (Streamside Salamander)	G4/S2	0.0	0.0	2.4	4.8	2.4	4.8
ILP	High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	3.2	93.4	3.2	93.4
ILP	High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.6	710.8	1.6	710.8
ILP	High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.6	12.5	1.9	43.9	1.3	31.4
ILP	High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.2	528.8	1.2	528.8
ILP	High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.2	543.7	1.2	543.7
ILP	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.2	0.2	1.4	6.8	1.2	6.6
ILP	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	0.8	202.7	0.8	202.7
ILP	High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.7	5.9	0.7	5.9
ILP	High	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.7	0.7	0.7	0.7
ILP	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	16.5	0.8	64.6	0.5	48.1
ILP	High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.6	88.6	0.6	88.6
ILP	High	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	4.9	0.7	326.6	0.5	321.7
ILP	High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.2	5.2	0.7	18.3	0.5	13.1
ILP	High	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	0.4	1.9	0.4	1.9
ILP	High	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.1	1.3	0.5	4.5	0.4	3.2
ILP	High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	89.5	0.2	89.5
ILP	High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.2	151.1	1.4	176.0	0.2	24.8
ILP	High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.3	447.4	1.3	474.1	0.1	26.7
ILP	High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.3	511.2	1.4	594.1	0.1	82.9
ILP	High	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	0.5	0.5	0.5	0.5	0.0	0.0
ILP	High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.1	0.1	0.1	0.1	0.0	0.0
ILP	High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	131.2	0.3	155.2	0.0	24.0
ILP	High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	92.0	0.3	96.3	0.0	4.3
ILP	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	7.0	0.3	152.3	0.0	145.3
ILP	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	56.7	0.3	67.2	0.0	10.6
ILP	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	8.1	0.3	154.8	0.0	146.7
ILP	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.4	113.4	0.3	110.0	0.0	-3.5
ILP	High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	10.8	0.0	0.0	-0.3	-10.8
ILP	High	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.3	5.2	0.9	3.7	-0.4	-1.5
ILP	High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.5	0.5	0.0	0.0	-0.5	-0.5
ILP	High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.4	3.4	0.0	0.0	-0.4	-3.4
ILP	High	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	1.2	22.4	0.0	0.0	-1.2	-22.4
ILP	High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.7	30.3	0.0	0.0	-0.7	-30.3
ILP	High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.1	173.4	0.0	0.0	-1.1	-173.4
ILP	High	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	1.8	10.9	0.0	0.0	-1.8	-10.9
ILP	Medium	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	3.2	3.2	3.2	3.2
ILP	Medium	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	2.1	21.2	2.1	21.2
ILP	Medium	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	2.1	77.2	2.1	77.2
ILP	Medium	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.6	577.3	1.6	577.3

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
ILP	Medium	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	431.5	1.1	431.5
ILP	Medium	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	415.3	1.1	415.3
ILP	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	0.7	113.1	0.7	113.1
ILP	Medium	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	17.4	0.9	60.4	0.7	42.9
ILP	Medium	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.6	2.6	0.6	2.6
ILP	Medium	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.7	1.4	0.7	1.4
ILP	Medium	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.5	13.4	1.3	36.3	0.8	22.9
ILP	Medium	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.5	38.8	0.5	38.8
ILP	Medium	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	0.6	0.6	0.6	0.6
ILP	Medium	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	0.2	0.7	260.2	0.5	260.0
ILP	Medium	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	120.8	0.3	120.8
ILP	Medium	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.3	1.1	0.3	1.1
ILP	Medium	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	0.3	1.8	0.3	1.8
ILP	Medium	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	70.9	0.2	70.9
ILP	Medium	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	2.7	0.4	9.6	0.3	6.9
ILP	Medium	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.6	155.6	1.7	161.6	0.1	5.9
ILP	Medium	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.5	434.0	1.5	435.2	0.0	1.2
ILP	Medium	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	55.0	0.3	58.2	0.0	2.7
ILP	Medium	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	119.8	0.3	122.5	0.0	2.7
ILP	Medium	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	62.3	0.3	62.3	0.0	0.0
ILP	Medium	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.2	14.4	1.2	14.4	0.0	0.0
ILP	Medium	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	89.3	0.3	89.5	0.0	0.2
ILP	Medium	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.5	462.8	1.5	467.2	0.0	4.4
ILP	Medium	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	0.3	0.3	120.9	0.0	120.6
ILP	Medium	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.1	0.1	0.0	0.0	-0.1	-0.1
ILP	Medium	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.5	0.5	0.3	0.6	-0.2	0.1
ILP	Medium	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	9.8	0.0	0.0	-0.3	-9.8
ILP	Medium	Vertebrate - Bird	Ammodramus saviannarum (Grasshopper Sparrow)	G5/S4	1.1	63.5	0.0	0.0	-1.1	-63.5
ILP	Medium	Vertebrate - Bird	Poocetes gramineus (Vesper Sparrow)	G5/S1BS4N	1.1	1.1	0.0	0.0	-1.1	-1.1
ILP	Medium	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.2	8.5	0.0	0.0	-1.2	-8.5
ILP	Medium	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.9	564.1	0.0	0.0	-1.9	-564.1
ILP	Medium	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	2.2	23.8	0.0	0.0	-2.2	-23.8
ILP	Low	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	3.6	255.6	3.6	255.6
ILP	Low	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	2.2	56.7	2.2	56.7
ILP	Low	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.6	519.0	1.6	519.0
ILP	Low	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	486.2	1.1	486.2
ILP	Low	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	504.3	1.1	504.3
ILP	Low	Vertebrate - Reptile	Sistrurus miliarius streckeri (Western Pigmy Rattlesnake)	G5T5/S2S3	0.0	0.0	0.7	5.6	0.7	5.6
ILP	Low	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	35.9	1.0	126.2	0.7	90.3
ILP	Low	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	0.7	89.9	0.7	89.9
ILP	Low	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.4	29.1	0.4	29.1
ILP	Low	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.1	0.4	0.7	300.1	0.5	299.7
ILP	Low	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	0.4	1.7	0.4	1.7
ILP	Low	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	6.0	0.4	6.0
ILP	Low	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.7	9.7	1.2	15.4	0.4	5.7
ILP	Low	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	137.8	0.3	137.8
ILP	Low	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.2	3.8	0.6	13.2	0.4	9.4
ILP	Low	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.2	0.5	0.2	0.5
ILP	Low	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.4	1.3	0.4	1.3
ILP	Low	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	75.9	0.2	75.9
ILP	Low	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.1	0.2	0.4	0.8	0.3	0.6
ILP	Low	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.2	0.7	0.3	142.5	0.1	141.8
ILP	Low	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.1	0.2	0.2	0.7	0.2	0.5
ILP	Low	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.6	539.6	1.6	542.7	0.0	3.1
ILP	Low	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.5	566.3	1.6	568.3	0.0	2.0
ILP	Low	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.8	314.2	1.8	314.2	0.0	0.0
ILP	Low	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	56.1	0.3	56.1	0.0	0.0
ILP	Low	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	66.6	0.3	66.6	0.0	0.0
ILP	Low	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	144.0	0.3	144.6	0.0	0.6
ILP	Low	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	83.9	0.3	84.5	0.0	0.6
ILP	Low	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.5	43.0	1.4	40.6	-0.1	-2.4
ILP	Low	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.0	0.1	0.0	0.0	0.0	-0.1
ILP	Low	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	32.1	0.0	0.0	-0.3	-32.1
ILP	Low	Vertebrate - Bird	Circus cyaneus (Northern Harrier)	G5/S4N	0.5	2.4	0.0	0.0	-0.5	-2.4
ILP	Low	Vertebrate - Bird	Ammodramus saviannarum (Grasshopper Sparrow)	G5/S4	1.1	177.0	0.0	0.0	-1.1	-177.0
ILP	Low	Vertebrate - Bird	Chondestes grammacus (Lark Sparrow)	G5/S1B	1.0	20.2	0.0	0.0	-1.0	-20.2
ILP	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.9	40.3	0.0	0.0	-1.9	-40.3
ILP	Low	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	2.0	232.5	0.0	0.0	-2.0	-232.5

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
ILP	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	2.0	817.8	0.0	0.0	-2.0	-817.8
CPM	Very High	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	4.8	19.1	4.8	19.1
CPM	Very High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	3.9	90.8	3.9	90.8
CPM	Very High	Invertebrate - Gastropod	Stenotrema edgarianum (Sequatchie Siltmouth)	G2/S3	0.0	0.0	4.2	4.2	4.2	4.2
CPM	Very High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	3.3	515.8	3.3	515.8
CPM	Very High	Invertebrate - Gastropod	Pilsbryna castanea (Prominent Bud)	G1/S2	0.0	0.0	3.2	3.2	3.2	3.2
CPM	Very High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	4.2	38.1	4.2	38.1
CPM	Very High	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	1.0	156.4	2.8	426.5	1.8	270.1
CPM	Very High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.2	189.6	1.2	189.6
CPM	Very High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.2	188.3	1.2	188.3
CPM	Very High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.2	186.7	1.2	186.7
CPM	Very High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.2	188.2	1.2	188.2
CPM	Very High	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.1	7.6	1.1	7.6
CPM	Very High	Invertebrate - Gastropod	Stenotrema exodon (Alabama Siltmouth)	G2/S?	0.0	0.0	1.1	1.1	1.1	1.1
CPM	Very High	Invertebrate - Gastropod	Paravitrea calcicola (Pearl Supercoll)	G1/S1?	0.0	0.0	0.9	0.9	0.9	0.9
CPM	Very High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	11.9	1.1	51.7	0.8	39.8
CPM	Very High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	1.2	19.7	1.2	19.7
CPM	Very High	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.0	0.0	0.7	113.7	0.7	113.7
CPM	Very High	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.7	111.3	0.7	111.3
CPM	Very High	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	0.6	5.2	0.6	5.2
CPM	Very High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	5.5	0.8	26.8	0.6	21.3
CPM	Very High	Vertebrate - Bird	Limothypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.5	32.4	0.5	32.4
CPM	Very High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	0.4	2.3	0.4	2.3
CPM	Very High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.1	0.5	0.5	1.9	0.3	1.3
CPM	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	54.3	0.3	54.3
CPM	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	54.1	0.3	54.1
CPM	Very High	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.3	0.3	0.3	0.3
CPM	Very High	Vertebrate - Reptile	Heterodon platirhinos (Eastern Hognosed Snake)	G5/S4	0.2	2.6	0.5	9.2	0.4	6.6
CPM	Very High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.2	0.4	0.8	0.3	0.6
CPM	Very High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	32.5	0.2	32.5
CPM	Very High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.5	133.7	1.8	156.2	0.3	22.4
CPM	Very High	Invertebrate - Gastropod	Fumonelix weltherbyi (Clifty Covert)	G2G3/S3	0.0	0.0	0.2	0.4	0.2	0.4
CPM	Very High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.1	101.1	1.2	115.1	0.1	14.0
CPM	Very High	Vertebrate - Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.0	0.2	0.0	0.2
CPM	Very High	Vertebrate - Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	0.0	0.0	0.0	0.2	0.0	0.2
CPM	Very High	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	1.9	11.6	2.0	12.0	0.1	0.4
CPM	Very High	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	0.0	0.0	0.0	0.0	0.0	0.0
CPM	Very High	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.0	0.0	0.0	0.0
CPM	Very High	Vertebrate - Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	0.3	0.3	0.3	0.3	0.0	0.0
CPM	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	54.1	0.3	54.1	0.0	0.0
CPM	Very High	Vertebrate - Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	0.0	0.0	0.0	0.0	0.0	0.0
CPM	Very High	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	0.1	0.2	0.0	0.1	-0.1	-0.2
CPM	Very High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.6	6.1	0.3	3.0	-0.3	-3.1
CPM	Very High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	5.1	0.0	0.0	-0.3	-5.1
CPM	Very High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.4	1.3	0.0	0.0	-0.4	-1.3
CPM	Very High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.2	2.4	0.0	0.0	-1.2	-2.4
CPM	Very High	Vertebrate - Bird	Ammodramus sавannarum (Grasshopper Sparrow)	G5/S4	1.2	12.9	0.0	0.0	-1.2	-12.9
CPM	Very High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	2.1	4.2	0.0	0.0	-2.1	-4.2
CPM	High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	6.9	96.4	6.9	96.4
CPM	High	Invertebrate - Gastropod	Stenotrema edgarianum (Sequatchie Siltmouth)	G2/S3	0.0	0.0	4.2	4.2	4.2	4.2
CPM	High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	1.4	29.7	1.4	29.7
CPM	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.8	592.7	2.8	592.7
CPM	High	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	2.4	4.8	2.4	4.8
CPM	High	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	1.0	117.9	2.7	324.8	1.7	206.9
CPM	High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.2	263.7	1.2	263.7
CPM	High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	253.7	1.1	253.7
CPM	High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	256.7	1.1	256.7
CPM	High	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	0.8	7.6	0.8	7.6
CPM	High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.3	16.4	1.2	261.5	0.8	245.1
CPM	High	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.4	0.9	0.4	0.9
CPM	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.1	0.8	1.1	24.2	1.0	23.4
CPM	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	11.4	1.0	57.4	0.7	46.0
CPM	High	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.7	119.0	0.7	119.0
CPM	High	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.0	4.9	1.0	4.9
CPM	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	3.7	0.7	32.5	0.5	28.8
CPM	High	Vertebrate - Bird	Limothypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.4	31.1	0.4	31.1
CPM	High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	0.5	1.0	0.5	1.0
CPM	High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.9	12.3	0.9	12.3

TERRESTRIAL RESTORATION											
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference		
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	
CPM	High	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	9.9	0.7	156.1	0.5	146.3	
CPM	High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.4	0.4	2.2	0.3	1.7	
CPM	High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.4	3.6	0.8	9.1	0.5	5.4	
CPM	High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	0.8	106.0	1.1	147.6	0.3	41.6	
CPM	High	Vertebrate - Amphibian	Plethodon wehrlei (Wehrle's Salamander)	G5/S1	0.0	0.0	0.3	0.3	0.3	0.3	
CPM	High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	42.9	0.2	42.9	
CPM	High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.0	63.1	1.2	74.7	0.2	11.6	
CPM	High	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.0	0.0	0.1	0.1	0.1	0.1	
CPM	High	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.1	0.2	0.1	0.2	
CPM	High	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	0.0	0.0	0.1	0.4	0.0	0.3	
CPM	High	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.0	0.1	0.0	0.1	
CPM	High	Vertebrate - Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	0.0	0.0	0.0	0.1	0.0	0.1	
CPM	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	16.4	0.3	75.2	0.0	58.8	
CPM	High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0	
CPM	High	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	0.3	0.6	0.3	0.6	0.0	0.0	
CPM	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	16.4	0.3	71.5	0.0	55.1	
CPM	High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.4	8.4	0.3	7.0	-0.1	-1.5	
CPM	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.5	113.2	0.3	73.5	-0.2	-39.7	
CPM	High	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	0.4	14.8	0.1	5.3	-0.3	-9.5	
CPM	High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	0.7	0.0	0.0	-0.3	-0.7	
CPM	High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.4	6.4	0.0	0.0	-0.4	-6.4	
CPM	High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	1.0	18.6	0.0	0.0	-1.0	-18.6	
CPM	High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.2	2.4	0.0	0.0	-1.2	-2.4	
CPM	Medium	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	6.2	197.9	6.2	197.9	
CPM	Medium	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	4.2	208.7	4.2	208.7	
CPM	Medium	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	1.9	11.7	1.9	11.7	
CPM	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.5	894.7	2.5	894.7	
CPM	Medium	Invertebrate - Gastropod	Pilsbryna castanea (Prominent Bud)	G1/S2	0.0	0.0	1.9	1.9	1.9	1.9	
CPM	Medium	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.8	182.4	2.5	555.6	1.6	373.2	
CPM	Medium	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.2	4.3	1.2	92.8	1.0	88.6	
CPM	Medium	Vertebrate - Bird	Helminthophila vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	620.6	1.1	620.6	
CPM	Medium	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	703.4	1.1	703.4	
CPM	Medium	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	678.7	1.1	678.7	
CPM	Medium	Invertebrate - Gastropod	Glyphyalinia rimula (Tongued Glyph)	G2/S3	0.0	0.0	0.8	0.8	0.8	0.8	
CPM	Medium	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.3	41.1	1.1	740.6	0.8	699.5	
CPM	Medium	Invertebrate - Gastropod	Ventridens lasmodon (Hollow Dome)	G3/S4	0.0	0.0	0.8	0.8	0.8	0.8	
CPM	Medium	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	41.3	1.0	177.4	0.7	136.0	
CPM	Medium	Invertebrate - Gastropod	Stenotrema exodon (Alabama Slitmouth)	G2/S?	0.0	0.0	0.6	0.6	0.6	0.6	
CPM	Medium	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	0.6	20.0	0.6	20.0	
CPM	Medium	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.5	17.0	1.6	57.2	1.1	40.2	
CPM	Medium	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.6	176.3	0.6	176.3	
CPM	Medium	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.1	0.3	3.4	0.3	3.3	
CPM	Medium	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.5	36.4	0.5	36.4	
CPM	Medium	Invertebrate - Gastropod	Paravitrea calcicola (Pearl Supercoil)	G1/S1?	0.0	0.0	0.4	1.3	0.4	1.3	
CPM	Medium	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	24.4	0.8	108.8	0.6	84.4	
CPM	Medium	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	24.0	0.7	430.0	0.5	405.9	
CPM	Medium	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.0	366.8	1.2	456.1	0.2	89.3	
CPM	Medium	Vertebrate - Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	0.0	0.0	0.3	0.3	0.3	0.3	
CPM	Medium	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	0.2	1.0	0.2	1.0	
CPM	Medium	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	118.3	0.2	118.3	
CPM	Medium	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.0	0.4	0.1	2.2	0.1	1.7	
CPM	Medium	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.3	4.6	0.3	4.6	
CPM	Medium	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.1	1.2	0.1	1.2	
CPM	Medium	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	0.0	0.0	0.1	0.3	0.1	0.3	
CPM	Medium	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	0.6	19.5	0.7	51.7	0.1	32.2	
CPM	Medium	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.1	0.4	0.1	0.4	
CPM	Medium	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.1	104.1	1.3	118.2	0.2	14.1	
CPM	Medium	Vertebrate - Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.1	0.1	0.1	0.1	
CPM	Medium	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.1	0.6	0.1	0.6	
CPM	Medium	Vertebrate - Mammal	Sorex hoyi (Pygmy Shrew)	G5/S2	0.0	0.0	0.0	0.0	0.0	0.0	
CPM	Medium	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0	
CPM	Medium	Vertebrate - Amphibian	Pseudacris brachyphona (Mountain Chorus Frog)	G5/S4	0.0	0.0	0.0	0.1	0.0	0.1	
CPM	Medium	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	40.6	0.3	195.0	0.0	154.4	
CPM	Medium	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0	
CPM	Medium	Vertebrate - Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	0.2	0.2	0.2	0.2	0.0	0.0	
CPM	Medium	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.3	39.9	0.3	209.0	0.0	169.0	
CPM	Medium	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.4	22.0	0.3	14.9	-0.1	-7.1	
CPM	Medium	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.5	296.9	0.3	204.0	-0.2	-92.9	

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
CPM	Medium	Invertebrate - Gastropod	Infectarius kalmianus (Brown Globelet)	G3/S3	0.1	0.2	0.0	0.0	-0.1	-0.2
CPM	Medium	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.4	4.2	0.3	3.1	-0.1	-1.1
CPM	Medium	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	0.4	18.1	0.1	10.6	-0.2	-7.5
CPM	Medium	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.2	2.0	0.0	0.0	-0.2	-2.0
CPM	Medium	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.4	10.6	0.0	0.0	-0.4	-10.6
CPM	Medium	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.9	94.4	0.0	0.0	-0.9	-94.4
CPM	Medium	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.5	7.4	0.0	0.0	-1.5	-7.4
CPM	Medium	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.6	58.7	0.0	0.0	-1.6	-58.7
CPM	Low	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	11.1	89.0	11.1	89.0
CPM	Low	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.1	82.4	2.1	82.4
CPM	Low	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.8	75.6	2.6	240.0	1.7	164.4
CPM	Low	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	1.9	89.1	1.9	89.1
CPM	Low	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	422.0	1.1	422.0
CPM	Low	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	430.9	1.1	430.9
CPM	Low	Vertebrate - Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	279.3	1.1	279.3
CPM	Low	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.6	6.8	1.5	59.5	0.9	52.7
CPM	Low	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.5	1.1	0.5	1.1
CPM	Low	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	36.6	1.1	168.2	0.8	131.6
CPM	Low	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.3	36.9	1.1	423.3	0.8	386.3
CPM	Low	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	15.9	0.8	69.4	0.6	53.6
CPM	Low	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.6	93.6	0.6	93.6
CPM	Low	Vertebrate - Bird	Contopus virens (Eastern Wood-pewee)	G5/S5	0.2	23.0	0.7	263.5	0.5	240.5
CPM	Low	Invertebrate - Gastropod	Stenotrema calvescens (Chattanooga Siltmouth)	G2/S3S4	0.0	0.0	0.4	0.4	0.4	0.4
CPM	Low	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.1	369.2	1.5	475.8	0.3	106.6
CPM	Low	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.2	0.4	0.8	0.3	0.6
CPM	Low	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.1	2.5	0.3	6.0	0.2	3.5
CPM	Low	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	0.6	3.3	0.6	3.3
CPM	Low	Vertebrate - Bird	Limothypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.5	8.1	0.5	8.1
CPM	Low	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	0.3	1.0	0.3	1.0
CPM	Low	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	66.8	0.2	66.8
CPM	Low	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	0.1	0.3	0.3	1.0	0.2	0.7
CPM	Low	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.3	6.3	0.3	6.3
CPM	Low	Vertebrate - Reptile	Anolis carolinensis (Green Anole)	G5/S3	0.0	0.0	0.2	0.4	0.2	0.4
CPM	Low	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.2	0.6	0.2	0.6
CPM	Low	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.0	0.0	0.1	0.1	0.1	0.1
CPM	Low	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.0	0.1	0.0	0.1
CPM	Low	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.4	117.8	1.4	118.8	0.0	1.0
CPM	Low	Vertebrate - Bird	Hylocichla ustulata (Wood Thrush)	G5/S4	0.3	40.7	0.3	132.3	0.0	91.5
CPM	Low	Vertebrate - Mammal	Spilogale putorius (Eastern Spotted Skunk)	G5/S3	0.9	1.7	0.9	1.7	0.0	0.0
CPM	Low	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.3	36.5	0.3	119.3	0.0	82.8
CPM	Low	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	3.2	0.2	2.7	-0.1	-0.6
CPM	Low	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	0.1	0.5	0.0	0.0	-0.1	-0.5
CPM	Low	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.6	228.9	0.3	128.9	-0.3	-100.1
CPM	Low	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	0.3	12.5	0.1	5.1	-0.3	-7.5
CPM	Low	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	1.2	0.0	0.0	-0.3	-1.2
CPM	Low	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.6	11.6	0.2	5.1	-0.3	-6.5
CPM	Low	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.4	0.8	0.0	0.0	-0.4	-0.8
CPM	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.5	3.0	0.0	0.0	-1.5	-3.0
CPM	Low	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	1.1	201.3	0.0	0.0	-1.1	-201.3
CPM	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.9	214.1	0.0	0.0	-1.9	-214.1
RV	Very High	Vertebrate - Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	0.0	0.0	8.8	166.7	8.8	166.7
RV	Very High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	6.9	89.9	6.9	89.9
RV	Very High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	6.4	83.5	6.4	83.5
RV	Very High	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	5.1	66.4	5.1	66.4
RV	Very High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	1.1	4.6	4.1	24.7	3.0	20.1
RV	Very High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	2.9	14.6	2.9	14.6
RV	Very High	Vertebrate - Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	0.0	0.0	3.0	3.0	3.0	3.0
RV	Very High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.7	69.3	2.7	69.3
RV	Very High	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.8	14.9	2.7	57.6	2.0	42.8
RV	Very High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.2	68.1	1.2	68.1
RV	Very High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.1	67.8	1.1	67.8
RV	Very High	Vertebrate - Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	0.0	0.0	1.1	1.1	1.1	1.1
RV	Very High	Vertebrate - Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	66.6	1.1	66.6
RV	Very High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	66.1	1.1	66.1
RV	Very High	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.3	1.7	1.3	9.2	1.0	7.4
RV	Very High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	0.3	1.2	3.5	0.8	3.2
RV	Very High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	6.0	0.6	21.2	0.4	15.2
RV	Very High	Vertebrate - Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.5	1.4	0.5	1.4

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
RV	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	19.4	0.3	19.4
RV	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	19.1	0.3	19.1
RV	Very High	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.3	1.2	0.3	1.2
RV	Very High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	10.0	0.2	10.0
RV	Very High	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.1	0.3	0.1	0.3
RV	Very High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.1	1.1	0.1	1.1
RV	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	14.9	0.3	17.3	0.0	2.4
RV	Very High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.5	80.4	1.6	81.2	0.0	0.8
RV	Very High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	0.9	0.3	1.2	0.0	0.3
RV	Very High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	16.6	0.3	18.3	0.0	1.7
RV	Very High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.3	54.1	1.3	54.1	0.0	0.0
RV	Very High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.1	0.2	0.1	0.2	0.0	0.0
RV	Very High	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	0.1	0.2	0.1	0.2	0.0	0.0
RV	Very High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.3	50.0	1.3	55.1	0.0	5.1
RV	Very High	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.5	2.3	0.0	0.0	-0.5	-2.3
RV	Very High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	0.8	20.3	0.0	0.0	-0.8	-20.3
RV	Very High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.8	12.4	0.0	0.0	-0.8	-12.4
RV	Very High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.0	20.4	0.0	0.0	-1.0	-20.4
RV	High	Invertebrate - Gastropod	Paravitrea tridens (White-foot Supercoil)	G1G2/S2	0.0	0.0	6.9	13.8	6.9	13.8
RV	High	Vertebrate - Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	0.0	0.0	4.6	51.0	4.6	51.0
RV	High	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	3.7	125.8	3.7	125.8
RV	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.7	381.4	2.7	381.4
RV	High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	3.0	69.8	3.0	69.8
RV	High	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	2.1	41.2	2.1	41.2
RV	High	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.6	1.9	0.6	1.9
RV	High	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.7	17.6	2.3	62.0	1.6	44.3
RV	High	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.5	1.1	1.8	3.5	1.2	2.5
RV	High	Vertebrate - Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	0.0	0.0	1.1	21.8	1.1	21.8
RV	High	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	193.0	1.1	193.0
RV	High	Vertebrate - Bird	Helminthos vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	178.8	1.1	178.8
RV	High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.1	174.2	1.1	174.2
RV	High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	195.2	1.1	195.2
RV	High	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.2	0.5	0.6	1.9	0.5	1.4
RV	High	Vertebrate - Mammal	Sorex dispar (Long-tailed or Rock Shrew)	G4/S2	0.0	0.0	0.9	0.9	0.9	0.9
RV	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	9.8	1.1	43.5	0.8	33.7
RV	High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.6	3.8	0.6	3.8
RV	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	10.0	0.8	35.0	0.6	24.9
RV	High	Vertebrate - Bird	Haliaeetus leucocephalus (Bald Eagle)	G4/S3	0.0	0.0	0.6	15.3	0.6	15.3
RV	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	58.3	0.3	58.3
RV	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	50.0	0.3	50.0
RV	High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	28.8	0.2	28.8
RV	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.1	0.1	0.1	0.1
RV	High	Vertebrate - Amphibian	Aneides aeneus (Green Salamander)	G3G4/S3S4	0.0	0.0	0.1	0.4	0.1	0.4
RV	High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.5	166.2	1.6	180.4	0.1	14.1
RV	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	33.6	0.4	46.4	0.1	12.8
RV	High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.0	91.8	1.0	93.4	0.0	1.6
RV	High	Vertebrate - Bird	Caprimulgus vociferus (Whip-poor-will)	G5/S3S4	1.2	84.6	1.2	99.4	0.0	14.8
RV	High	Vertebrate - Bird	Icterus spurius (Orchard Oriole)	G5/S4	0.3	47.1	0.3	52.2	0.0	5.1
RV	High	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	0.7	0.3	0.7	0.0	0.0
RV	High	Vertebrate - Mammal	Sorex longirostris (Southeastern Shrew)	G5/S4	0.2	1.0	0.2	1.0	0.0	0.0
RV	High	Vertebrate - Bird	Dendroica discolor (Prairie Warbler)	G5/S3S4	0.3	0.3	0.0	0.0	-0.3	-0.3
RV	High	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	1.0	0.0	0.0	-0.3	-1.0
RV	High	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	1.0	69.7	0.0	0.0	-1.0	-69.7
RV	High	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.1	52.7	0.0	0.0	-1.1	-52.7
RV	High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.4	35.7	0.0	0.0	-1.4	-35.7
RV	High	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	2.0	10.2	0.8	3.8	-1.3	-6.5
RV	Medium	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	5.9	247.4	5.9	247.4
RV	Medium	Vertebrate - Mammal	Myotis grisescens (Gray Bat)	G3/S2	0.0	0.0	3.6	185.0	3.6	185.0
RV	Medium	Vertebrate - Bird	Aegolius acadicus (Northern Saw-whet Owl)	G5/S1	0.0	0.0	2.1	12.6	2.1	12.6
RV	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.4	155.0	2.4	155.0
RV	Medium	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.6	3.5	2.1	12.5	1.5	9.0
RV	Medium	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	1.8	17.7	1.8	17.7
RV	Medium	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.3	2.6	0.9	9.3	0.7	6.7
RV	Medium	Invertebrate - Gastropod	Ventridens percallosus (Tennessee Dome)	G2/S3	0.0	0.0	1.3	1.3	1.3	1.3
RV	Medium	Vertebrate - Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	0.5	0.5	1.6	1.6	1.2	1.2
RV	Medium	Vertebrate - Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	0.0	0.0	1.1	24.5	1.1	24.5
RV	Medium	Vertebrate - Bird	Coccyzus americanus (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	283.7	1.1	283.7
RV	Medium	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.1	235.1	1.1	235.1

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
RV	Medium	Vertebrate - Mammal	<i>Sorex fumeus</i> (Smoky Shrew)	G5/S4	0.0	0.0	1.3	2.7	1.3	2.7
RV	Medium	Vertebrate - Mammal	<i>Sorex cinereus</i> (Common Shrew)	G5/S4	0.4	0.4	1.5	1.5	1.1	1.1
RV	Medium	Vertebrate - Bird	<i>Vireo flavifrons</i> (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	245.9	1.1	245.9
RV	Medium	Vertebrate - Bird	<i>Helminthos vermivorus</i> (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	220.5	1.1	220.5
RV	Medium	Vertebrate - Bird	<i>Melanerpes erythrocephalus</i> (Red-headed Woodpecker)	G5/S4	0.3	14.7	1.1	56.0	0.8	41.4
RV	Medium	Invertebrate - Gastropod	<i>Slenotrema waldense</i> (Doaks Creek Slimouth)	G1/S2S3	0.0	0.0	0.7	0.7	0.7	0.7
RV	Medium	Vertebrate - Bird	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	G4/S3	0.0	0.0	0.6	38.5	0.6	38.5
RV	Medium	Vertebrate - Bird	<i>Scolopax minor</i> (American Woodcock)	G5/S4B	0.3	14.1	0.9	49.0	0.6	34.9
RV	Medium	Vertebrate - Amphibian	<i>Hemidactylium scutatum</i> (Four-toed Salamander)	G5/S3	0.0	0.0	0.9	1.8	0.9	1.8
RV	Medium	Vertebrate - Mammal	<i>Corynorhinus rafinesquii</i> (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.5	8.2	0.5	8.2
RV	Medium	Vertebrate - Bird	<i>Limnothlypis swainsonii</i> (Swainson's Warbler)	G4/S3	0.0	0.0	0.5	6.8	0.5	6.8
RV	Medium	Vertebrate - Bird	<i>Wilsonia citrina</i> (Hooded Warbler)	G5/S4	0.3	57.9	0.7	140.3	0.4	82.4
RV	Medium	Vertebrate - Bird	<i>Hylocichla mustelina</i> (Wood Thrush)	G5/S4	0.0	0.0	0.3	80.5	0.3	80.5
RV	Medium	Vertebrate - Bird	<i>Oporornis formosus</i> (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	63.7	0.3	63.7
RV	Medium	Vertebrate - Amphibian	<i>Aneides aeneus</i> (Green Salamander)	G3G4/S3S4	0.0	0.0	0.3	1.2	0.3	1.2
RV	Medium	Vertebrate - Bird	<i>Empidonax virescens</i> (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	36.4	0.2	36.4
RV	Medium	Vertebrate - Reptile	<i>Anolis carolinensis</i> (Green Anole)	G5/S3	0.0	0.0	0.1	0.1	0.1	0.1
RV	Medium	Vertebrate - Bird	<i>Accipiter striatus</i> (Sharp-shinned Hawk)	G5/S3B	1.5	295.5	1.6	312.7	0.1	16.3
RV	Medium	Vertebrate - Reptile	<i>Heterodon platirhinos</i> (Eastern Hognosed Snake)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0
RV	Medium	Vertebrate - Bird	<i>Icterus spurius</i> (Orchard Oriole)	G5/S4	0.3	68.8	0.3	74.1	0.0	5.3
RV	Medium	Vertebrate - Bird	<i>Caprimulgus carolinensis</i> (Chuck-will's-widow)	G5/S3S4	1.4	271.5	1.4	271.5	0.0	0.0
RV	Medium	Vertebrate - Bird	<i>Aimophila aestivalis</i> (Bachman's Sparrow)	G3/S2	0.2	0.9	0.2	0.9	0.0	0.0
RV	Medium	Vertebrate - Mammal	<i>Sorex longirostris</i> (Southeastern Shrew)	G5/S4	0.3	1.6	0.3	1.6	0.0	0.0
RV	Medium	Vertebrate - Bird	<i>Vermivora pinus</i> (Blue-winged Warbler)	G5/S4	0.1	0.6	0.1	0.6	0.0	0.0
RV	Medium	Vertebrate - Bird	<i>Caprimulgus vociferus</i> (Whip-poor-will)	G5/S3S4	1.3	161.0	1.3	175.1	0.0	14.1
RV	Medium	Vertebrate - Bird	<i>Spiza americana</i> (Dickcissel)	G5/S4	0.3	2.1	0.0	0.0	-0.3	-2.1
RV	Medium	Vertebrate - Mammal	<i>Zapus hudsonius</i> (Meadow Jumping Mouse)	G5/S4	0.4	0.4	0.0	0.0	-0.4	-0.4
RV	Medium	Vertebrate - Bird	<i>Ammodramus savannarum</i> (Grasshopper Sparrow)	G5/S4	0.9	67.2	0.0	0.0	-0.9	-67.2
RV	Medium	Vertebrate - Bird	<i>Tyto alba</i> (Barn Owl)	G5/S3	1.0	47.6	0.0	0.0	-1.0	-47.6
RV	Medium	Vertebrate - Bird	<i>Lanius ludovicianus</i> (Loggerhead Shrike)	G5/S3	1.4	113.0	0.0	0.0	-1.4	-113.0
RV	Medium	Vertebrate - Bird	<i>Falco peregrinus</i> (Peregrine Falcon)	G4/S1N	3.5	42.0	1.0	12.0	-2.5	-30.1
RV	Low	Vertebrate - Reptile	<i>Ophisaurus attenuatus longicaudus</i> (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	3.4	3.4	3.4	3.4
RV	Low	Vertebrate - Bird	<i>Aegolius acadicus</i> (Northern Saw-whet Owl)	G5/S1	0.0	0.0	1.8	5.3	1.8	5.3
RV	Low	Vertebrate - Bird	<i>Dendroica cerulea</i> (Cerulean Warbler)	G4/S3B	0.0	0.0	1.9	71.9	1.9	71.9
RV	Low	Vertebrate - Mammal	<i>Myotis grisescens</i> (Gray Bat)	G3/S2	0.0	0.0	1.8	56.5	1.8	56.5
RV	Low	Vertebrate - Mammal	<i>Myotis sodalis</i> (Indiana Bat)	G2/S1	0.0	0.0	1.4	33.6	1.4	33.6
RV	Low	Invertebrate - Gastropod	<i>Paravittrea blarina</i> (Shrew Supercoil)	G2/S3	0.0	0.0	0.9	2.6	0.9	2.6
RV	Low	Vertebrate - Bird	<i>Coccyzus americanus</i> (Yellow-billed Cuckoo)	G5/S4S5	0.0	0.0	1.1	447.4	1.1	447.4
RV	Low	Vertebrate - Bird	<i>Helminthos vermivorus</i> (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	338.6	1.1	338.6
RV	Low	Vertebrate - Bird	<i>Dendroica dominica</i> (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.1	324.5	1.1	324.5
RV	Low	Vertebrate - Bird	<i>Vireo flavifrons</i> (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	425.0	1.1	425.0
RV	Low	Vertebrate - Bird	<i>Sitta pusilla</i> (Brown-headed Nuthatch)	G5/S2B	0.0	0.0	1.0	21.9	1.0	21.9
RV	Low	Vertebrate - Reptile	<i>Pituophis melanoleucus melanoleucus</i> (Northern Pine Snake)	G4T4/S3	0.4	4.7	1.3	16.4	0.9	11.7
RV	Low	Vertebrate - Mammal	<i>Neotoma magister</i> (Allegheny Woodrat)	G3G4/S3	0.0	0.0	0.9	0.9	0.9	0.9
RV	Low	Vertebrate - Mammal	<i>Myotis leibii</i> (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	0.9	6.3	0.9	6.3
RV	Low	Vertebrate - Amphibian	<i>Hemidactylium scutatum</i> (Four-toed Salamander)	G5/S3	0.0	0.0	0.4	1.1	0.4	1.1
RV	Low	Vertebrate - Bird	<i>Melanerpes erythrocephalus</i> (Red-headed Woodpecker)	G5/S4	0.3	24.6	1.1	89.6	0.8	65.0
RV	Low	Vertebrate - Mammal	<i>Sorex cinereus</i> (Common Shrew)	G5/S4	0.2	0.9	0.8	3.3	0.6	2.3
RV	Low	Vertebrate - Bird	<i>Scolopax minor</i> (American Woodcock)	G5/S4B	0.3	24.4	1.0	84.3	0.7	59.9
RV	Low	Vertebrate - Bird	<i>Haliaeetus leucocephalus</i> (Bald Eagle)	G4/S3	0.0	0.0	0.6	60.8	0.6	60.8
RV	Low	Invertebrate - Gastropod	<i>Ventridens percallosus</i> (Tennessee Dome)	G2/S3	0.0	0.0	0.8	2.3	0.8	2.3
RV	Low	Vertebrate - Bird	<i>Limnothlypis swainsonii</i> (Swainson's Warbler)	G4/S3	0.0	0.0	0.6	11.6	0.6	11.6
RV	Low	Vertebrate - Mammal	<i>Napaeozapus insignis</i> (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.5	0.5	0.5	0.5
RV	Low	Vertebrate - Mammal	<i>Sorex fumeus</i> (Smoky Shrew)	G5/S4	0.0	0.0	0.6	1.7	0.6	1.7
RV	Low	Vertebrate - Mammal	<i>Corynorhinus rafinesquii</i> (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	6.4	0.4	6.4
RV	Low	Vertebrate - Bird	<i>Vermivora chrysoptera</i> (Golden-winged Warbler)	G4/S3B	0.2	1.7	0.6	6.2	0.4	4.5
RV	Low	Vertebrate - Bird	<i>Hylocichla mustelina</i> (Wood Thrush)	G5/S4	0.0	0.0	0.3	129.6	0.3	129.6
RV	Low	Vertebrate - Bird	<i>Oporornis formosus</i> (Kentucky Warbler)	G5/S4	0.0	0.0	0.3	100.4	0.3	100.4
RV	Low	Invertebrate - Gastropod	<i>Slenotrema waldense</i> (Doaks Creek Slimouth)	G1/S2S3	0.0	0.0	0.4	1.2	0.4	1.2
RV	Low	Vertebrate - Bird	<i>Wilsonia citrina</i> (Hooded Warbler)	G5/S4	0.3	104.1	0.6	201.0	0.3	97.0
RV	Low	Vertebrate - Bird	<i>Empidonax virescens</i> (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	57.9	0.2	57.9
RV	Low	Vertebrate - Bird	<i>Accipiter striatus</i> (Sharp-shinned Hawk)	G5/S3B	1.7	481.1	1.8	485.6	0.0	4.5
RV	Low	Vertebrate - Bird	<i>Caprimulgus vociferus</i> (Whip-poor-will)	G5/S3S4	1.5	345.9	1.5	347.6	0.0	1.6
RV	Low	Vertebrate - Bird	<i>Icterus spurius</i> (Orchard Oriole)	G5/S4	0.3	124.7	0.3	125.7	0.0	1.0
RV	Low	Vertebrate - Bird	<i>Vermivora pinus</i> (Blue-winged Warbler)	G5/S4	0.3	6.1	0.3	6.1	0.0	0.0
RV	Low	Vertebrate - Mammal	<i>Sorex longirostris</i> (Southeastern Shrew)	G5/S4	0.3	2.4	0.3	2.4	0.0	0.0
RV	Low	Invertebrate - Gastropod	<i>Anguispira knoxensis</i> (Rustic Tigersnail or Black Range Disc)	G1/S2S3	1.3	2.7	1.3	2.7	0.0	0.0
RV	Low	Vertebrate - Mammal	<i>Parascalops breweri</i> (Hairy-tailed Mole)	G5/S3	0.1	0.1	0.1	0.1	0.0	0.0

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
RV	Low	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.5	433.5	1.5	433.5	0.0	0.0
RV	Low	Invertebrate - Insect	Speyeria diana (Diana Fritillary)	G3/S3	0.5	3.9	0.5	3.9	0.0	0.0
RV	Low	Vertebrate - Bird	Aimophila aestivalis (Bachman's Sparrow)	G3/S2	1.5	4.5	1.5	4.5	0.0	0.0
RV	Low	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	0.0	0.0	0.0	0.0	0.0	0.0
RV	Low	Vertebrate - Bird	Spiza americana (Dickcissel)	G5/S4	0.3	8.6	0.0	0.0	-0.3	-8.6
RV	Low	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.3	0.8	0.0	0.0	-0.3	-0.8
RV	Low	Vertebrate - Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	0.5	4.3	0.0	0.0	-0.5	-4.3
RV	Low	Vertebrate - Bird	Ammodramus savannarum (Grasshopper Sparrow)	G5/S4	1.1	293.3	0.0	0.0	-1.1	-293.3
RV	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	1.3	207.8	0.0	0.0	-1.3	-207.8
RV	Low	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	2.6	93.3	0.7	26.4	-1.9	-66.8
RV	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.9	495.4	0.0	0.0	-1.9	-495.4
SBR	Very High	Invertebrate - Gastropod	Pilsbryna aurea (Ornate Bud)	G1/S1	0.0	0.0	14.4	28.7	14.4	28.7
SBR	Very High	Invertebrate - Gastropod	Paravitrea tridens (White-foot Supercoil)	G1G2/S2	0.0	0.0	9.0	17.9	9.0	17.9
SBR	Very High	Invertebrate - Gastropod	Discus bryanti (Sawtooth Disc)	G2/S1S2	0.0	0.0	9.0	17.9	9.0	17.9
SBR	Very High	Invertebrate - Gastropod	Paravitrea lamellidens (Lamellate Supercoil)	G2/S2	0.0	0.0	7.2	14.4	7.2	14.4
SBR	Very High	Invertebrate - Gastropod	Vertigo parvula (Smallmouth Vertigo)	G2G3/S2S3	0.0	0.0	5.4	10.8	5.4	10.8
SBR	Very High	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	1.1	2.3	4.0	7.9	2.8	5.6
SBR	Very High	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.2	2.4	1.2	2.4
SBR	Very High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.2	2.4	1.2	2.4
SBR	Very High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.2	2.4	1.2	2.4
SBR	Very High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.2	2.4	1.2	2.4
SBR	Very High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	1.2	2.4	1.2	2.4
SBR	Very High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	0.7	1.2	2.4	0.8	1.7
SBR	Very High	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.7	1.4	0.7	1.4
SBR	Very High	Vertebrate - Amphibian	Plethodon welleri (Weller's Salamander)	G3/S1	0.0	0.0	0.6	1.1	0.6	1.1
SBR	Very High	Invertebrate - Gastropod	Mesomphix rugeli (Wrinkled Bulton)	G3/S3	0.0	0.0	0.6	1.2	0.6	1.2
SBR	Very High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	0.7	0.3	0.7
SBR	Very High	Vertebrate - Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	0.0	0.0	0.3	0.3	0.3	0.3
SBR	Very High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	0.4	0.2	0.4
SBR	Very High	Vertebrate - Bird	Limnothlypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Very High	Vertebrate - Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Very High	Vertebrate - Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Very High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	0.3	0.5	0.3	0.5	0.0	0.0
SBR	High	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	16.4	81.9	16.4	81.9
SBR	High	Invertebrate - Gastropod	Stenotrema cohuttense (Cohutta Slitmouth)	G1G2/S2	0.0	0.0	10.8	10.8	10.8	10.8
SBR	High	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	5.4	5.4	5.4	5.4
SBR	High	Vertebrate - Bird	Sphyrapicus varius (Yellow-bellied Sapsucker)	G5/S1BS4N	0.0	0.0	4.7	4.7	4.7	4.7
SBR	High	Vertebrate - Bird	Poecile atricapillus (Black-capped Chickadee)	G5/S2B	0.0	0.0	4.0	4.0	4.0	4.0
SBR	High	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	1.2	42.2	4.0	158.1	2.8	115.9
SBR	High	Invertebrate - Gastropod	Pilsbryna aurea (Ornate Bud)	G1/S1	0.0	0.0	1.9	5.6	1.9	5.6
SBR	High	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.4	59.1	2.4	59.1
SBR	High	Vertebrate - Bird	Empidonax alnorum (Alder Flycatcher)	G5/S1	0.0	0.0	2.7	13.5	2.7	13.5
SBR	High	Vertebrate - Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	0.0	0.0	1.9	28.3	1.9	28.3
SBR	High	Invertebrate - Gastropod	Triodopsis anteridon (Carter Three-tooth or Buttress Three-tooth)	G2G3/S1S2	0.0	0.0	1.8	1.8	1.8	1.8
SBR	High	Vertebrate - Bird	Vermivora chrysoptera (Golden-winged Warbler)	G4/S3B	0.7	12.0	2.6	41.9	1.9	30.0
SBR	High	Vertebrate - Bird	Empidonax minimus (Least Flycatcher)	G5/S3	0.6	11.1	2.0	45.1	1.4	34.0
SBR	High	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.2	16.5	1.2	16.5
SBR	High	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	46.6	1.1	46.6
SBR	High	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.1	41.9	1.1	41.9
SBR	High	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.1	41.1	1.1	41.1
SBR	High	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	1.0	35.0	1.0	35.0
SBR	High	Invertebrate - Gastropod	Haplotrema kendeighi (Blue-footed Lanceloth)	G1G2/S3	0.0	0.0	0.9	0.9	0.9	0.9
SBR	High	Vertebrate - Mammal	Glaucomys sabrinus coloratus (Carolina Northern Flying Squirrel)	G5T1/S1	0.0	0.0	0.9	0.9	0.9	0.9
SBR	High	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	12.2	1.2	47.2	0.8	35.1
SBR	High	Vertebrate - Amphibian	Desmognathus aeneus (Seepage Salamander)	G3G4/S1	0.0	0.0	0.7	0.7	0.7	0.7
SBR	High	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	2.2	0.4	2.2
SBR	High	Vertebrate - Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.6	0.6	0.6	0.6
SBR	High	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.6	23.2	0.6	23.2
SBR	High	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	3.5	1.0	12.1	0.7	8.6
SBR	High	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	3.5	0.8	12.0	0.6	8.6
SBR	High	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.2	0.2	0.7	0.7	0.5	0.5
SBR	High	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.4	0.8	0.4	0.8
SBR	High	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	13.8	0.3	13.8
SBR	High	Invertebrate - Gastropod	Inflectarius downieanus (Dwarf Globelet)	G3/S4	0.0	0.0	0.3	0.3	0.3	0.3
SBR	High	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	0.2	1.2	0.2	1.2
SBR	High	Vertebrate - Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	0.0	0.0	0.3	3.2	0.3	3.2
SBR	High	Vertebrate - Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	0.0	0.0	0.3	0.3	0.3	0.3
SBR	High	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	0.2	0.2	0.2	0.2

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
SBR	High	Vertebrate - Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	0.1	0.1	0.3	0.8	0.2	0.7
SBR	High	Vertebrate - Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	0.0	0.0	0.2	1.2	0.2	1.2
SBR	High	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	0.2	0.2	0.2	0.2
SBR	High	Vertebrate - Amphibian	Plethodon welleri (Weller's Salamander)	G3/S1	0.0	0.0	0.2	0.9	0.2	0.9
SBR	High	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	7.0	0.2	7.0
SBR	High	Vertebrate - Amphibian	Plethodon yonahlossee (Yonahlossee Salamander)	G4/S3	0.0	0.0	0.1	0.1	0.1	0.1
SBR	High	Vertebrate - Mammal	Sylvilagus transitionalis (Appalachian Cottontail (= New England Cottontail))	G4/S3	0.0	0.0	0.1	0.3	0.1	0.3
SBR	High	Vertebrate - Bird	Limnithypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.4	3.7	0.4	3.7
SBR	High	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	0.2	0.3	0.9	0.2	0.7
SBR	High	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	0.6	15.5	0.7	18.7	0.1	3.2
SBR	High	Vertebrate - Mammal	Lepus americanus (Snowshoe Hare)	G5/SR	0.0	0.0	0.0	0.1	0.0	0.1
SBR	High	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.6	3.3	1.6	3.3	0.0	0.0
SBR	High	Invertebrate - Insect	Speyeria diana (Diana Fritillary)	G3/S3	0.8	0.8	0.8	0.8	0.0	0.0
SBR	High	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.1	0.2	0.0	0.0	-0.1	-0.2
SBR	High	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.8	2.3	0.0	0.0	-0.8	-2.3
SBR	High	Vertebrate - Bird	Poocetes gramineus (Vesper Sparrow)	G5/S1BS4N	1.1	4.4	0.0	0.0	-1.1	-4.4
SBR	High	Vertebrate - Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	1.0	3.1	0.0	0.0	-1.0	-3.1
SBR	Medium	Vertebrate - Mammal	Myotis sodalis (Indiana Bat)	G2/S1	0.0	0.0	8.0	176.1	8.0	176.1
SBR	Medium	Vertebrate - Mammal	Neotoma magister (Allegheny Woodrat)	G3G4/S3	0.0	0.0	3.5	7.1	3.5	7.1
SBR	Medium	Vertebrate - Mammal	Neotoma floridana haematoreia (Southern Appalachian Woodrat)	G5T4O/S2	0.0	0.0	4.0	4.0	4.0	4.0
SBR	Medium	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	2.3	93.2	2.3	93.2
SBR	Medium	Vertebrate - Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	0.0	0.0	2.0	56.1	2.0	56.1
SBR	Medium	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	0.8	171.9	2.7	618.9	1.9	447.0
SBR	Medium	Vertebrate - Bird	Empidonax alnorum (Alder Flycatcher)	G5/S1	0.0	0.0	1.8	40.3	1.8	40.3
SBR	Medium	Vertebrate - Mammal	Myotis leibii (Eastern Small-footed Bat)	G3/S2S3	0.0	0.0	2.0	9.8	2.0	9.8
SBR	Medium	Vertebrate - Bird	Poecile atricapillus (Black-capped Chickadee)	G5/S2B	0.0	0.0	1.7	3.4	1.7	3.4
SBR	Medium	Vertebrate - Bird	Vermivora chrysoplera (Golden-winged Warbler)	G4/S3B	0.7	9.2	2.3	32.2	1.6	23.0
SBR	Medium	Vertebrate - Mammal	Parascalops breweri (Hairy-tailed Mole)	G5/S3	0.4	1.7	1.5	5.9	1.0	4.2
SBR	Medium	Vertebrate - Bird	Sitta pusilla (Brown-headed Nuthatch)	G5/S2B	0.0	0.0	1.1	2.3	1.1	2.3
SBR	Medium	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	245.6	1.1	245.6
SBR	Medium	Vertebrate - Bird	Empidonax minimus (Least Flycatcher)	G5/S3	0.5	29.3	1.7	104.1	1.2	74.8
SBR	Medium	Invertebrate - Gastropod	Paravitrea reesei (Round Supercoil)	G2/S1S2	0.0	0.0	1.2	3.6	1.2	3.6
SBR	Medium	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	1.1	208.4	1.1	208.4
SBR	Medium	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.1	145.1	1.1	145.1
SBR	Medium	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	1.1	136.6	1.1	136.6
SBR	Medium	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	1.0	185.8	1.0	185.8
SBR	Medium	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	74.0	1.1	267.5	0.8	193.5
SBR	Medium	Vertebrate - Bird	Melanerpes erythrocephalus (Red-headed Woodpecker)	G5/S4	0.3	5.3	1.1	21.0	0.8	15.7
SBR	Medium	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.2	5.3	0.7	18.3	0.5	13.1
SBR	Medium	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.6	115.5	0.6	115.5
SBR	Medium	Vertebrate - Bird	Limnithypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.4	18.0	0.4	18.0
SBR	Medium	Vertebrate - Amphibian	Hemidactylium scutatum (Four-toed Salamander)	G5/S3	0.0	0.0	1.0	2.0	1.0	2.0
SBR	Medium	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.1	1.1	0.7	5.9	0.6	4.7
SBR	Medium	Invertebrate - Gastropod	Mesodon andrewsae (Balsam Globe)	G3/S3	0.0	0.0	0.4	0.4	0.4	0.4
SBR	Medium	Vertebrate - Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	0.0	0.0	0.4	11.4	0.4	11.4
SBR	Medium	Vertebrate - Amphibian	Plethodon jordani (Red-cheeked Salamander)	G2/S2	0.0	0.0	0.3	1.3	0.3	1.3
SBR	Medium	Vertebrate - Mammal	Corynorhinus rafinesquii (Rafinesque's Big-eared Bat)	G3G4/S3	0.0	0.0	0.4	9.4	0.4	9.4
SBR	Medium	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	78.9	0.3	78.9
SBR	Medium	Vertebrate - Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	0.0	0.0	0.3	2.5	0.3	2.5
SBR	Medium	Vertebrate - Reptile	Anolis carolinensis (Green Anole)	G5/S3	0.0	0.0	0.2	1.0	0.2	1.0
SBR	Medium	Vertebrate - Mammal	Napaeozapus insignis (Woodland Jumping Mouse)	G5/S4	0.0	0.0	0.2	0.9	0.2	0.9
SBR	Medium	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	43.5	0.2	43.5
SBR	Medium	Vertebrate - Reptile	Ophisaurus attenuatus longicaudus (Eastern Slender Glass Lizard)	G5T5/S3	0.0	0.0	0.1	0.7	0.1	0.7
SBR	Medium	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.1	0.1	0.2	0.4	0.1	0.3
SBR	Medium	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.2	0.5	0.2	0.5
SBR	Medium	Vertebrate - Amphibian	Desmognathus wrighti (Pigmy Salamander)	G3G4/S2	0.0	0.0	0.1	0.3	0.1	0.3
SBR	Medium	Vertebrate - Mammal	Sorex cinereus (Common Shrew)	G5/S4	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Medium	Vertebrate - Amphibian	Plethodon welleri (Weller's Salamander)	G3/S1	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Medium	Vertebrate - Amphibian	Desmognathus aeneus (Seepage Salamander)	G3G4/S1	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Medium	Vertebrate - Amphibian	Plethodon yonahlossee (Yonahlossee Salamander)	G4/S3	0.0	0.0	0.0	0.3	0.0	0.3
SBR	Medium	Vertebrate - Mammal	Synaptomys cooperi (Southern Bog Lemming)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0
SBR	Medium	Vertebrate - Reptile	Heterodon platirhinus (Eastern Hognosed Snake)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0
SBR	Medium	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.2	146.2	1.2	147.9	0.0	1.7
SBR	Medium	Invertebrate - Insect	Speyeria diana (Diana Fritillary)	G3/S3	0.6	1.2	0.6	1.2	0.0	0.0
SBR	Medium	Vertebrate - Bird	Vermivora pinus (Blue-winged Warbler)	G5/S4	0.3	3.0	0.3	3.0	0.0	0.0
SBR	Medium	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.1	65.4	1.1	65.4	0.0	0.0
SBR	Medium	Vertebrate - Mammal	Zapus hudsonius (Meadow Jumping Mouse)	G5/S4	0.0	0.0	0.0	0.0	0.0	0.0

TERRESTRIAL RESTORATION										
Reg.	Priority	Taxonomic Group	Species Name	G/S Rank	Current		Restored		Difference	
					Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score	Avg. Priority Score	Total Priority Score
SBR	Medium	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.3	0.6	0.0	0.0	-0.3	-0.6
SBR	Medium	Vertebrate - Bird	Falco peregrinus (Peregrine Falcon)	G4/S1N	2.1	84.1	0.6	24.2	-1.5	-59.9
SBR	Medium	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	0.9	5.3	0.0	0.0	-0.9	-5.3
SBR	Medium	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	1.8	5.4	0.0	0.0	-1.8	-5.4
SBR	Medium	Vertebrate - Bird	Pooecetes gramineus (Vesper Sparrow)	G5/S1BS4N	2.1	78.8	0.0	0.0	-2.1	-78.8
SBR	Medium	Vertebrate - Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	2.8	25.4	0.0	0.0	-2.8	-25.4
SBR	Medium	Vertebrate - Reptile	Glyptemys muhlenbergii (Bog Turtle)	G3/S1	4.9	4.9	0.0	0.0	-4.9	-4.9
SBR	Low	Vertebrate - Bird	Corvus corax (Common Raven)	G5/S2	1.0	60.5	3.3	210.6	2.4	150.1
SBR	Low	Vertebrate - Bird	Empidonax alnorum (Alder Flycatcher)	G5/S1	0.0	0.0	2.2	17.2	2.2	17.2
SBR	Low	Vertebrate - Bird	Certhia americana (Brown Creeper)	G5/S2BS4N	0.0	0.0	2.0	34.8	2.0	34.8
SBR	Low	Vertebrate - Bird	Dendroica cerulea (Cerulean Warbler)	G4/S3B	0.0	0.0	1.6	3.2	1.6	3.2
SBR	Low	Vertebrate - Bird	Empidonax minimus (Least Flycatcher)	G5/S3	0.5	17.9	1.6	62.6	1.2	44.7
SBR	Low	Vertebrate - Bird	Dendroica caerulescens (Black-throated Blue Warbler)	G5/S4	0.0	0.0	1.1	57.7	1.1	57.7
SBR	Low	Vertebrate - Bird	Oporornis formosus (Kentucky Warbler)	G5/S4	0.0	0.0	1.1	71.4	1.1	71.4
SBR	Low	Vertebrate - Bird	Helmitheros vermivorus (Worm-eating Warbler)	G5/S4	0.0	0.0	1.1	69.2	1.1	69.2
SBR	Low	Vertebrate - Bird	Wilsonia citrina (Hooded Warbler)	G5/S4	0.3	22.2	1.2	77.5	0.8	55.3
SBR	Low	Vertebrate - Bird	Scolopax minor (American Woodcock)	G5/S4B	0.3	0.3	1.2	1.2	0.8	0.8
SBR	Low	Vertebrate - Bird	Vireo flavifrons (Yellow-throated Vireo)	G5/S4	0.0	0.0	0.9	44.1	0.9	44.1
SBR	Low	Vertebrate - Bird	Dendroica dominica (Yellow-throated Warbler)	G5/S4	0.0	0.0	0.8	13.1	0.8	13.1
SBR	Low	Vertebrate - Bird	Dendroica virens (Black-throated Green Warbler)	G5/S5	0.0	0.0	0.6	24.8	0.6	24.8
SBR	Low	Vertebrate - Bird	Regulus satrapa (Golden-crowned Kinglet)	G5/S3BS4N	0.0	0.0	0.4	2.4	0.4	2.4
SBR	Low	Vertebrate - Bird	Limnithypis swainsonii (Swainson's Warbler)	G4/S3	0.0	0.0	0.5	9.5	0.5	9.5
SBR	Low	Vertebrate - Bird	Troglodytes troglodytes (Winter Wren)	G5/S3BS4N	0.0	0.0	0.4	4.8	0.4	4.8
SBR	Low	Vertebrate - Mammal	Sorex fumeus (Smoky Shrew)	G5/S4	0.0	0.0	0.3	0.3	0.3	0.3
SBR	Low	Vertebrate - Bird	Hylocichla mustelina (Wood Thrush)	G5/S4	0.0	0.0	0.3	21.5	0.3	21.5
SBR	Low	Vertebrate - Bird	Empidonax virescens (Acadian Flycatcher)	G5/S5	0.0	0.0	0.2	12.6	0.2	12.6
SBR	Low	Vertebrate - Reptile	Pituophis melanoleucus melanoleucus (Northern Pine Snake)	G4T4/S3	0.1	0.1	0.2	0.4	0.1	0.3
SBR	Low	Vertebrate - Amphibian	Plethodon richmondi (Ravine Salamander)	G5/S2	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Low	Vertebrate - Reptile	Crotalus horridus (Timber Rattlesnake)	G4/S4	0.0	0.0	0.1	0.1	0.1	0.1
SBR	Low	Vertebrate - Amphibian	Plethodon yonahlossee (Yonahlossee Salamander)	G4/S3	0.0	0.0	0.0	0.1	0.0	0.1
SBR	Low	Vertebrate - Bird	Accipiter striatus (Sharp-shinned Hawk)	G5/S3B	1.6	58.5	1.6	58.5	0.0	0.0
SBR	Low	Vertebrate - Bird	Caprimulgus carolinensis (Chuck-will's-widow)	G5/S3S4	1.5	8.8	1.5	8.8	0.0	0.0
SBR	Low	Vertebrate - Bird	Tyto alba (Barn Owl)	G5/S3	0.3	3.3	0.0	0.0	-0.3	-3.3
SBR	Low	Vertebrate - Bird	Thryomanes bewickii (Bewick's Wren)	G5/S1	1.0	7.1	0.0	0.0	-1.0	-7.1
SBR	Low	Vertebrate - Bird	Lanius ludovicianus (Loggerhead Shrike)	G5/S3	1.1	23.9	0.0	0.0	-1.1	-23.9
SBR	Low	Vertebrate - Reptile	Glyptemys muhlenbergii (Bog Turtle)	G3/S1	2.4	9.6	0.0	0.0	-2.4	-9.6
SBR	Low	Vertebrate - Bird	Pooecetes gramineus (Vesper Sparrow)	G5/S1BS4N	3.6	151.5	0.0	0.0	-3.6	-151.5
SBR	Low	Vertebrate - Bird	Passerculus sandwichensis (Savannah Sparrow)	G5/S1BS4N	4.1	244.5	0.0	0.0	-4.1	-244.5

APPENDIX H. TWRA Sampling Protocols for Select Faunal Groups

**Sampling Protocols for Surveying the Shorebirds, Small Mammals and
Bats, Reptiles, and Amphibians of Tennessee**



Wildlife Diversity and Endangered Species Programs

2005

Shorebird Monitoring Protocol for the Interior Regions of Tennessee

Introduction

Widespread degradation and loss of habitat are causing rapid and profound changes to bird populations throughout North America. As a consequence, information on how bird populations are changing and becoming increasingly important to wildlife managers. Early detection of population changes is essential to a wildlife planning strategy. Measuring population size or change is also crucial for evaluating the effectiveness of population management programs.

There are 32 species of shorebirds that migrate through the state of Tennessee. Many species of shorebirds have been in decline for some time. In most cases, the causes of shorebird population declines are poorly known. Some possible causes are deterioration of nesting, migration, and wintering grounds, or just simple natural population fluctuations. Determining which of these actions, if any, are warranted will be possible only after implementing a shorebird monitoring plan.

Goals

- I. Monitor long-term population trends for individual shorebird species.
- II. Derive more precise population estimates of species population size.
- III. Monitor regional use of habitat and population responses to habitat changes.
- IV. Ensure that this information is incorporated into the overall Shorebird Monitoring and Management Plan.

Objectives

- I. Design, test, and implement a long-term survey for tracking population trends for all shorebirds species of Tennessee.
- II. Promote an ongoing research program for evaluation and improvement of population estimates and monitoring protocol.
- III. Design a long-term program for monitoring regional patterns of habitat use as a tool to identify quality habitat and shifts in distribution patterns.
- IV. Designate a center or location for maintaining shorebird population databases.
- V. Establish a practical mechanism for assuring that the monitoring programs are designed to carry out sound evaluations of the effectiveness of habitat management programs.
- VI. Improve National and International coordination and implementation of monitoring programs.

Shorebird Survey Design and Methodology

Design of population sampling and choice of counting methods require careful thought before beginning any monitoring program. The method requires an understanding of the

spatial and temporal dynamics of the population, the advantages and disadvantages of counting techniques, and statistical issues relevant to one's ability to infer about population sizes or trends.

For non-breeding surveys, the annual summary statistic is the mean count per survey. For breeding surveys, the summary statistic is the mean number of birds per unit of effort (e.g., birds per route).

Historically, the TWRA has relied upon shorebird enthusiasts for information on shorebird occurrences and population estimates. The TWRA has also participated in the International Shorebird Survey (ISS). However, shorebird migration inventories and qualified abundance information is lacking.

The TWRA will monitor two areas per administrative unit for shorebird surveys during the months of July, August, and September. A minimum of three days will be surveyed at each site during each month. There will be a minimum of five-day intervals between surveys.

In general terms, first occurrence (I.E. first sightings), peak migration, and pass through dates will be noted.

Shorebird monitoring can be conducted in many ways. Occurrence and counts of shorebirds will be made similar to the ISS methodology. Counts conducted will be estimates of abundance.

The first method for estimating populations will be **total counts** of shorebirds using ground based counting methods. This method will be conducted in the following way:

1. Transects should be mapped out for each sampling location. Transect census points should be a minimum of 500 meters apart. Transects should be separated by at least one drainage system to minimize duplicate counts of individuals. Total counts are an estimation of all the shorebirds in the sampling locations (2 per administrative unit), so total counts should cover the entire sampling area if possible.
2. At each census point, a single observer records the total number of shorebirds present within a 10 minute period. Exact geographic locations should be recorded using GPS (if available). Habitat type and approximate size should also be recorded.
3. Species occurrence and species abundance estimates will also be recorded during this allotted time.

The second method used will be **extrapolated counts**. This method will be conducted in the following way:

When the number of birds is greater than a few hundred birds, estimation procedures have to be used. The birds in a large flock may be estimated by counting a block of 50 or 100 birds and then estimating how many similar-sized groups make up the entire flock. Photographs can be used to estimate the average density of flocks and then measure the area covered by the flocks using terrestrial markers. Then the estimates may be multiplied area by density to estimate the total number of birds within the flock.

In a large mixed-species flock, observers estimate the proportion of the various species making up the flock and then the total number of birds in the flock is divided up into individual species counts according to these estimated proportions. In some cases, where the observers are unable to determine the proportions of each species, only the species composition of the flock is noted. The total count of these unallocated birds is then divided up into individual species counts assuming that the proportions of the unallocated birds is similar to the proportions of identified species in the rest of the site.

- a) In small roosts and feeding flocks, the number of birds can be counted directly.
- b) For small flocks of even density, the birds can be counted individually (1, 2, 3, 4, 5 etc.) to produce an accurate total. If a suitable landmark is present it can be used to help count the birds.
- c) In unevenly distributed flocks with small groups of varying size, each group of birds should be rapidly counted and added together.
- d) For larger numbers of birds in evenly distributed flocks the birds should be counted in multiples e.g. 2, 4, 6, 8 or 3, 6, 9, 12, etc. Again if landmarks are present they can be used to help divide the flocks in order to count them more accurately.
- e) For densely packed flocks in flight or at a roost, the birds should be counted in estimated blocks. The size of the blocks used (10, 100, 1000 etc.) varies according to the size of the block. The largest flocks of 10,000 birds or more present the biggest counting problems with even the block method giving a rough estimate of numbers.
- f) Flying flocks often bunch in the centre. In this case it is important that the blocks are closer together in the centre of the flock than towards the edges, but in practice this may be difficult to achieve.

The third and final method used will be **guesstimates**. This method is primarily when you don't have time to conduct a total count or extrapolated count method or when the birds fly away before the recorder has adequate time to conduct the proper counting method. This method will be conducted in the following way:

1. Use the same methods as above with two exceptions. First, the amount of time required for species occurrence and population estimates is not required and the guesstimate should be based on sound reasonable population estimates. Secondly, the species occurrence inventory may be made based on known characteristics of shorebirds and not on time consuming exact identification of these birds.

*Attached is the shorebird questionnaire (attachment 1) that is to be filled out at each new site location along with a survey data form (attachment 2) that is to be filled out each time a person goes to the field to monitor shorebirds.

*Attachment 1

Site Questionnaire

1. Is this site an upland area (field, prairie, etc)? Yes No
2. Is the site natural? or man made?
3. Are water levels managed? unmanaged? unknown?
4. Is this site a feeding area? resting area? or both?
5. Is the census area public? private? or both?
6. Is the land managed for wildlife? Yes No
7. What is the approximate size of the area in acres? _____
8. Are the major disturbances in this area related to natural factors?
human activities?
9. How many times a day would you say the resting area for shorebirds is
disturbed (approximate)? _____
10. What are the major causes of the disturbance? People?
Vehicles? Other animals? Boats? Other, what? _____
11. What are the major shorebird habitats of your census area? (Circle One)
Permanent lake or pond Temporary lake or pond
Sewage Treatment area Fresh water marsh
Fresh water river Agricultural field

Small Mammal Inventory Protocols

All personnel conducting small mammal surveys will be inoculated with the appropriate and available vaccines to prevent disease contraction.

Problem Two of the Wildlife Diversity chapter of TWRA's Strategic Plan identifies the lack of information concerning the status of nongame species populations, their ecological limiting factors and subsequent management implications. Strategy #1 calls for species inventories and/or assessments as well as habitat evaluations to determine community integrity, relative abundance of species, population densities and ecological requirements of nongame species. Very little information is available in regard to small mammals inhabiting TWRA managed lands. With these small mammal inventories TWRA will begin to collect data needed to determine the diversity, distribution and relative abundance of small mammals inhabiting its Wildlife Management Areas.

Bats

Bats will be surveyed from May through September to determine species occurrence and foraging site locations. Before working with bats, investigators should be able to properly identify bats to species. Investigators should also have basic knowledge of roosting habits, foraging strategies, and seasonal movements of bats. Furthermore, investigators should have knowledge of environmental effects on bats (i.e. temperature, humidity, light intensity, and topography). Sixteen species of bats may occur in Tennessee (Table 1). A complete list of materials needed to capture bats is provided (Table 2). Bats will be surveyed using the following procedures:

Roost Searches

Counting individuals in a roost is an effective way of collecting occurrence and abundance data. Roost searches will be carried out by individuals where bats are known to roost. This may include caves, trees, bridges, old home places, barns, chimneys, etc. If available, bat activity and species presence may be determined at each sampling station using the Anabat II ultrasonic detector attached to a laptop computer. There are three methods that may be used when conducting roost searches (direct roost counts, nightly dispersal counts, and nightly emergence counts)¹.

Direct roost counts

Direct roost counts may be conducted wherever bats roost. Depending on the species, roost counts may be conducted day or night. Many studies have been conducted on bridges as roosting sites for bats. Johnson et al. conducted night roost surveys on concrete and steel I-beam type bridges for gray bats and found that bridges suitable for gray bat night roosting have exposed porous concrete ceilings with small cracks and holes that provide places for them to roost and rest.² Studies have shown that bridge crevices have been used as day roosts by big brown bats, southeastern myotis, gray bats,

¹ Wilson, Don E., F. Russell Cole, James D. Nichols, Rasanayagam Rudran, and Mercedes Foster. 1996. Measuring and monitoring biological diversity, standard methods for mammals. Smithsonian Institution Press, Washington and London. Pp. 105-114.

² Johnson, B. Joshua, Michael A. Menzel, John W. Edwards and W. Mark Ford. 2002. Gray bat night-roosting under bridges. *Journal of the Tennessee Academy of Science* 77(4):91-93.

little brown bats, evening bats and Mexican free-tailed bats in the Southeastern United States. BHE Environmental Inc. describes suitable roost bridges as, “bridges that provide cavern-like characteristics such as darkness, flowing water and/or protection from disturbance.” During a summer survey conducted by Britzkey and Morgan³, bridge surveys were conducted both above (examining expansion joints of bridges) and below the road level during the day. BHE Environmental Inc. also searches the drain holes of bridges. Cave walls, old home places, barns and even trees may be searched for the presence of roosting bats.

Nightly dispersal counts

Nightly dispersal counts are used to count bats as they disperse from their diurnal roost sites. Observers will be at the designated roost site one hour before nightfall and position themselves where the sky (or some other backdrop such as an open body of water) can be used to silhouette the bats. Light-gathering binoculars will aid in seeing bats as light levels decrease. Observers should count each bat only once, as some bats may circle the roost site before actually dispersing.

Nightly emergence counts

Nightly emergence counts can be the most accurate of all roost search methods. Counts are made as the bats depart their traditional day roosts. Similar to the nightly dispersal counts, nightly emergence counts should be conducted using the sky to silhouette the bats as well as using light-gathering binoculars. The total number of bats that reenter the roost should be subtracted from the total number of emerging bats to gain a more accurate estimate. Video and photographic equipment should be used when necessary to augment the visual observations. At roost sites where large aggregations of bats are known to be, accurate visual estimates may not be possible. In these cases, photographs taken at fixed intervals will be used. Nightly emergence counts will take place over three consecutive nights to account for emergence variability.

Mist Netting

Mist Nets

Mist netting will be conducted for three consecutive nights during each month for the months of May, June, July, August, and September. One mist-net night is defined as a single net being open for at least one hour. Five nets will be set each night mist-netting is attempted. This will result in a total of 75 mist-net trap nights per year.

Procedure for Mist Netting Bats⁴

Mist nets should not be used in areas where large numbers (thousands) of emerging bats are known to be.

³ Britzke, E. R. and K. L. Morgan. 2003. Summer survey of the Upper Cumberland Plateau, Tennessee. Submission to the Nature Conservancy of Tennessee. Pp. 25.

⁴ Wilson, Don E., F. Russell Cole, James D. Nichols, Rasanayagam Rudran, and Mercedes Foster. 1996. Measuring and monitoring biological diversity, standard methods for mammals. Smithsonian Institution Press, Washington and London. Pp. 105-114.

All nets should be in place before sunset; however, nets should remain closed until just before dark to minimize the chance of catching birds going to roost.

Nets will be set at potential commuting, foraging, or drinking sites (across the middle of roads, streams, small pools or the lip of one edge of larger pools). Nets may also be set at the entrance of roost sites.

Poles will be anchored by driving a rebar into the ground and sliding the pole over the top of the rebar. In areas where rebar cannot be used, the poles will be anchored using rope. One person can set the nets, but it is much easier using two people. Nets will be carefully unfolded and the loops at the end of each trammel placed on the poles in sequential order.

Two-ply, braided nylon nets with 36 mm mesh will be used. Two-ply nets will be used, as they are less likely to be detected by bats. Mist nets are normally available in 3, 6, 9, 12, 42, and 60 m lengths. Three-meter nets work well at portal openings, while 12 m nets are better in large open areas. The 6 m nets are convenient and most often used when capturing bats. The 6 m nets can be set in more enclosed areas or in open areas by placing two 6 m nets end to end.

The net should be spread taut enough so that a bag droop (about 1 inch) occurs in each panel. Nets will be checked throughout the evening to ensure they are taut and adjustments made when necessary.

Nets should be placed within reasonable traveling distance to each other. This will reduce the overall time bats spend tangled in the nets, as it takes time for data collectors to travel between the nets. Nets will be checked every 15 minutes to reduce stress on the bats and the chances of holes being chewed in the nets.

During the time between net checks and data collection, all headlamps and flashlights should be off and talking kept to a minimum to avoid scaring off bats.

After a bat is caught, it should be removed as quickly as possible to avoid further entanglement or possible injury. After determining which side of the net the bat entered from, immobilize the bat with a gloved hand and carefully remove the net strands from the bat's head, body, and wings. Special care should be taken with wing membranes and bones, as they are very fragile. All bats should be immediately placed into pre-weighed cloth bags unless they are being processed right then.

Typically bats will be identified to species, sexed, weighed, aged, and forearm length recorded. Though bats are rarely recaptured, marking may be done to ensure all bats are new catches. When marking bats, "White-out" on the back of the head or a black permanent marker ("Sharpie") used on the wing membrane are acceptable. Both are nontoxic and will wear off in a couple of days. All bats should be worked as quickly as possible and released near the area they were captured.

Other standard bat measurements (Menzel, et al. 2002) used in identification include (see illustrations) – total length (TL), tail length (TV), foot length (HF), ear length (E), forearm length (FA), and tragus length (TR). Other data to record includes species, sex, age (young or adult), reproductive condition, body mass (grams), forearm length, time of capture, and evidence of recent feeding (females – determined visually or by abdominal palpation). Using the pre-weighed cloth bag, weigh bats to the nearest 0.1 grams by taking the total weight (bat and bag) and subtracting the weight of the bag. For species less than 5 grams weigh to the nearest 0.01 grams.

Nets will be closed at midnight. Most bat activity will have significantly decreased by this time.

Table 1. List and status of possible bat species in Tennessee (Harvey and Britzke 2002).

<u>Common Name</u>	<u>Genus</u>	<u>Species</u>	<u>Status*</u>	<u>Data Code</u>
Little brown bat	<i>Myotis</i>	<i>lucifugus</i>	C	MYLU
Southeastern bat	<i>Myotis</i>	<i>austroriparius</i>	S	MYAU
Gray bat	<i>Myotis</i>	<i>grisescens</i>	E	MYGR
Northern long-eared bat	<i>Myotis</i>	<i>septentrionalis</i>	C	MYSE
Indiana bat	<i>Myotis</i>	<i>sodalist</i>	E	MYSO
Eastern small-footed bat	<i>Myotis</i>	<i>leibii</i>	S	MYLE
Eastern pipistrelle	<i>Pipistrellus</i>	<i>subflavus</i>	C	PISU
Big brown bat	<i>Eptesicus</i>	<i>fuscus</i>	C	EPFU
Rafinesque's big-eared bat	<i>Corynorhinus</i>	<i>rafinesquii</i>	S	CORA
Townsend's big-eared bat	<i>Corynorhinus</i>	<i>townsendii</i>	E	COTO
Eastern red bat	<i>Lasiurus</i>	<i>borealis</i>	C	LABO
Seminole bat	<i>Lasiurus</i>	<i>seminolus</i>	U	LASE
Hoary bat	<i>Lasiurus</i>	<i>cinereus</i>	C	LACI
Silver-haired bat	<i>Lasionycteris</i>	<i>noctivagans</i>	U	LANO
Evening bat	<i>Nycticeius</i>	<i>humeralis</i>	C	NYHU

Brazilian Free-tailed bat *Tadarida brasiliensis* U TABR

*** C- Common U- Uncommon S- Special concern E- Endangered**

Table 2. List of materials needed to catch bats.

List of Materials

Mist nets	3-m, 6-m, and 12 m (or multiple 6 m)
Poles	Two 1.5-m (5-ft) segments joined by a sleeve will be needed at each end of the net. These should be light-weight.
Anchor cord	In areas where the ground is too rocky, poles may need to be tied instead
Stakes	Rebar [one for each pole, at least (76.2cm) 30 in long]
Mallet	For driving rebar into the ground
Caliper	Measuring (a metric ruler will work, but a caliper is better)
Scales	At least 30 gm (have an extra one for back up)
Cloth bags	For holding and weighing bats after removal from the net. Bags should be able to tie at the open end. Old sheets sewn into quart-size bags work well.
Knife	For cutting rope, etc...
Headlamp	For freeing both hands
Extra batteries	For headlamps/flashlights
Leather gloves	For handling the bats (lightweight gloves work best)
Watch	For noting the time of capture/release
Clipboard	For holding data forms
Data forms	For filling in data (weather-proof paper is recommended)
Pencils	To complete data forms (Do not use regular ink pens-they smear when wet)

White-out/Sharpie	If marking bats is a consideration
Camera/film	For voucher pictures
Waders/boots	Some areas will be wet and muddy
Two-way radios	For communicating with others in your group
Cell phone/radio	Especially if you are alone
First Aid kit	Be sure you have disinfectant in case you are bitten
Food/Water/Matches	In case you end up spending the night there (people have been known to get lost at night)
Folding Chair	To sit in while completing data forms

Small Mammals

Small mammal occurrence data and abundance data expressed in terms of catch per unit effort (individuals/trap night) will be determined with the use of live capture box traps placed along straight-line transects.

Commercial mouse and rat-sized live-traps [Small Sherman Aluminum Folding Live Traps (7.62x8.89x22.86cm) and Tomahawk Folding Wire-mesh Live Traps (15.24x15.24x48.26cm)] will be set three consecutive nights the months of October through March with at least one week between each sampling period. A transect of 100 meters (unless unique habitat prevents this transect length) per habitat type will be established.

Procedures:

Investigators should wear protective clothing, including long pants and long-sleeved shirt, socks and heavy shoes. Each investigator should carry a waterproof marker and data sheet. Wear leather gloves to handle small mammals.

Small Sherman live traps will be used along trap-lines.

Mark the beginning and end of transects with flagging tape.

On the first day of the sampling period arrive at transect in time to set all traps before dark. Leave traps along transect for the remainder of the sampling period.

Carrying the traps required for the transect in a sack or shoulder bag, walk the trap line, placing each trap as level as possible, with the mouth of the trap flush with the ground. The ground may be cleared and leveled by scraping the soil with the foot. Place two traps at every 10-15 meters along the transect line. Traps should be placed within 2

meters of the transect line. Place traps at cover features such as alongside or inside rotting logs, rock piles, burrows, etc. In hot seasons or climates, avoid placing traps in areas that will be exposed to direct sun. If this is impossible, traps may be covered with a board or with canvas cloth. If freezing temperatures are likely, add two cotton balls to each trap to provide bedding material during the night.

Mark each trap site with flagging tape to avoid loss of traps.

Check the trigger mechanism of each trap for proper adjustment and sensitivity as it is placed. This can be checked prior to going to the field to save time.

Bait each trap with a mixture of peanut butter and rolled oats.

Traps should be checked as early in the morning as possible, especially in hot weather and when traps are exposed to direct sun.

Check traps, if trap door is sprung, place a plastic baggie over one end of trap. Turn trap upside down, opening trapdoor and emptying specimen into baggie for identification and measurements. Close baggie and take necessary weights and measurements.

Make the following measurements on voucher specimens only and record on datasheet:

Weigh each mammal in grams.

Measure in millimeters tail length (base of tail to tip).

Measure total length (Head + Body + Tail).

Measure length of hind foot and ear length.

For all other specimens weigh, age (adult, sub-adult, juvenile) and sex (cannot sex shrews).

On first two nights, mark specimens with Non-toxic, White Correction Pen to note recaptures.

The number of individuals trapped per number of trap nights will be used as an index of abundance of small mammal species per transect. Richness or diversity will be determined by the number of different species captured per transect.

Tomahawk live-traps will be set opportunistically (not along transects) for the capture of wood rats. For opportunistic sampling, place 2-3 traps near brush piles, fallen logs, burrows, abandoned car bodies, or other items that provide shelter. When in or near buildings, place traps parallel to and against walls or other vertical surfaces, in cabinets, behind appliances and furniture, and on shelves above the floor, being especially attentive to areas where evidence of rodent activity is visible.

Before the next sampling period traps should be decontaminated with a 5% Lysol® (1 quart to about 4 ½ gallons of water in a 5 gallon plastic bucket).

Straight-line Drift Fences:

While utilizing this method of capture for reptiles and amphibians, it is probable that small mammals will also be taken. If so, take the same measurements and mark as above. This incidental data will be noted and used in determining the richness of the area. It will not be factored into the individuals/trap night abundance equations.

Artificial Cover Surveys:

Small mammals, primarily voles and shrews may be encountered while checking cover boards. If so, take the same measurements and mark as above. This incidental data will be noted and used in determining the richness of the area. It will not be factored into the individuals/trap night abundance equations.

Voucher Specimens:

Photographs and/or a preserved specimen documenting each species occurrence will be taken. New species occurrences (i.e. range extensions) will be documented by preserving a specimen a depositing the voucher in the mammalian collection at the University of Memphis collection. Collected specimens should be euthanized with appropriate chemicals with properties similar to chloroform. Investigators should not breathe chemical fumes or use any chemicals near an open flame.

Small Non-Volant Mammals of Tennessee

COMMON NAME	SCIENTIFIC NAME	STATUS	CODE
CHIPMUNK, EASTERN	(TAMIAS STRIATUS)	Common	TAST
COTTONTAIL, NEW ENGLAND	(SYLVILAGUS TRANSITIONALIS)	Rare	SYTR
LEMMING, SOUTHERN BOG	(SYNAPTOMYS COOPERI)	Common	SYCO
MINK	(MUSTELA VISON)	Common	MUVI
MOLE, EASTERN	(SCALOPUS AQUATICUS)	Common	SCAQ
MOLE, HAIRY-TAILED	(PARASCALOPS BREWERI)	Rare - D	PABR
MOLE, STAR-NOSED	(CONDYLURA CRISTATA)	Very Rare - D	COCR
MOUSE, COTTON	(PEROMYSCUS GOSSYPINUS)	Common	PEGO
MOUSE, DEER	(PEROMYSCUS MANICULATUS)	Common	PEMA
MOUSE, EASTERN HARVEST	(REITHRODONTOMYS HUMULIS)	Common	REHU
MOUSE, GOLDEN	(OCHROTOMYS NUTTALLI)	Common	OCNU
MOUSE, HOUSE	(MUS MUSCULUS)	Common	MUMU
MOUSE, MEADOW JUMPING	(ZAPUS HUDSONIUS)	Species of Concern - D	ZAHU
MOUSE, OLDFIELD	(PEROMYSCUS POLIONOTUS)	Common	PEPO
MOUSE, WHITE-FOOTED	(PEROMYSCUS LEUCOPUS)	Common	PELE
MOUSE, WOODLAND JUMPING	(NAPAEUZAPUS INSIGNIS)	Common	NAIN
RAT, BLACK	(RATTUS RATTUS)	Exotic	RARA
RAT, HISPID COTTON	(SIGMODON HISPIDUS)	Common	SIHI
RAT, MARSH RICE	(ORYZOMYS PALUSTRIS)	Common	ORPA
RAT, NORWAY	(RATTUS NORVEGICUS)	Exotic/Common	RANO
SHREW, LEAST	(CRYPTOTIS PARVA)	Common	CRPA
SHREW, LONG-TAILED	(SOREX DISPAR)	Rare - D	SODI
SHREW, MASKED	(SOREX CINEREUS)	Species of Concern - D	SOCI
SHREW, PYGMY	(SOREX HOYI WINNEMANA)	Very Rare	SOHO
SHREW, NORTHERN SHORT-TAILED	(BLARINA BREVICAUDA)	Common	BLBR
SHREW, SMOKY	(SOREX FUMEUS)	Species of Concern - D	SOFU
SHREW, SOUTHEASTERN	(SOREX LONGIROSTRIS)	Species of Concern - D	SOLO
SHREW, SOUTHEASTERN WATER	(SOREX PALUSTRIS)	Very Rare - D	SOPA
SQUIRREL, NORTHERN FLYING	(GLAUCOMYS SABRINUS)	Extremely Rare - E	GLSA
SQUIRREL, RED	(TAMIASCIURUS HUDSONICUS)	Common	TAHU

D = Deemed in Need of Management E = Endangered

Amphibian and Reptiles

Introduction

Tennessee has 66 species of amphibians and 55 species of reptiles. There are 21 species of frogs and 45 species of salamanders (Redmond and Scott 1996), 15 species of turtles, 9 species of lizards, and 31 species of snakes (TWRA Strategic Plan, 2000 – 2006). The Tennessee Wildlife Resources Agency is beginning an inventory to determine the herpetofauna on Wildlife Management Areas (WMA). A multiple gear approach will be used yielding data that is both qualitative (e.g. Species Richness) and quantitative (i.e. catch per unit effort). After the first year of sampling, these protocols should be reviewed. Some methodology changes may be warranted. Scheduling should be evaluated as well. Not only does the timing of our sampling methods overlap, small mammals and shorebirds are also inventory targets. The gears used and frequency of sampling may need to be tailored for each area being inventoried.

Methods

Bringing together available resources is the first step when starting any project. Prior to beginning a field inventory, it is mandatory to collate existing information, which may have relevance to the current project. Information may come in various forms, maps, reports and articles, spoken word, and raw data. It may be that no herpetological survey has been conducted on a given management area but a WMA manager may know of occurrences of key species and the location of unique habitats.

Sufficient reconnaissance to the study areas should be conducted. The major habitat types on the area should be identified and all unique habitat features (Table 1) should be located and mapped (e.g. gps coordinates). These habitats should be described in detail sufficient as to allow the identifications of similar habitat at other sites or in other studies.

Table 1. Initial list of Habitat Descriptions

Aquatic Habitats	Terrestrial Habitats	Anthropogenic (Tiebout 2003)
Swamp	Forest	Barns
Marsh	Woodland	Roads
Oxbow	Savannah	Railroad Bed
Bottomland Hardwoods	Shrubland	
Seep	NWSG Field	
Pond	Hay Field	
Temporal Pond	Agricultural Field	
Mucky Area	Old Field	
River (TNC Size Class)	Rock Face	
Headwater (0.2 – 2m)	Cave	
Creek (2.2 – 20m)		
Small River (20.3 – 201m)		
Medium River (201.4 – 503m)		
Large River (>503m)		

Animal Measurements

All measurements will be made in metric units. Frogs and toads will be measured Snout to Vent Length (SVL), salamanders, lizards, and snakes will be measured SVL and total length (TL), carapace length will be measured on turtles. If possible, the sex of a specimen should be determined and recorded. Petranka (1998) has a section sex determination in salamanders. Snake handling protocols are described in *Standard for Components of British Columbia's Biodiversity No. 38*. Any mutations should be noted using *Field Guide to Malformations of Frogs and Toads*, by Carol Meteyer.

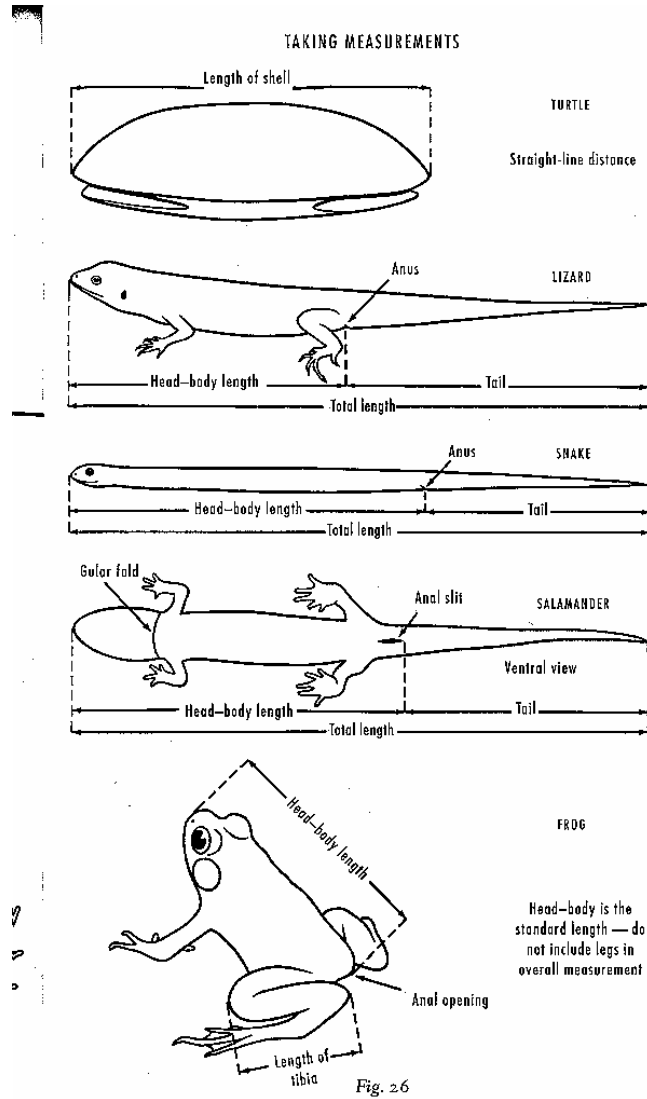


Figure 1. Illustration of reptile and amphibian measurements. From Conant and Collins (1998).

Amphibian Sampling

Active and Passive Sampling will be employed to inventory Amphibians. Active sampling methods include Call Surveys and Visual Encounter Surveys (VES). Passive sampling methods include coverboards and drift fences with pitfalls and or funnel traps.

Call Surveys

The TWRA participates in the North American Amphibian Monitoring Program (NAAMP). Tennessee's Amphibian Monitoring Program (TAMP) utilizes volunteers to conduct sampling routes. To compliment this effort and to generate data for TWRA lands specifically, sampling routes will be conducted on a minimum of 4 tracts of TWRA owned lands (1 TWRA per region). On a small or roadless WMA with limited wetland habitat, fixed stations may be established and the protocols associated with the tamp routes may be followed.

Routes will have 10 stops with a minimum of 0.5 miles between stops. Stops are ground-truthed as to suitable amphibian habitat within 200 meters of the stop. Four runs per year will be conducted as according to prescribed calling periods (Table 1). Run nights will be based on appropriate air temperature, sky code and Beaufort wind codes (Tables 3, 4 and 5).

Table 2. Start and end dates in which sampling runs can be conducted for amphibian call counts

	Run 1*	Run 2*	Run 3*	Run 4*
Start Date	January 10	March 10	May 10	July 1
End Date	February 20	April 15	June 15	August 9

Table 3. Minimum air temperature needed to conduct amphibian call counts.

4 Run System	Minimum Temperature
Run 1	5.6° C (42° F)
Run 2	5.6° C (42° F)
Run 3	10° C (50° F)
Run 4	12.8° C (55° F)

Table 4. Sky codes and conditions needed to conduct amphibian call counts.

Sky Codes (note 3 and 6 are not valid code numbers)	
0	Few Clouds
1	Partly cloudy (scattered) or variable sky
2	Cloudy or overcast
4	Fog or smoke
5	Drizzle or light rain (not affecting hearing ability)
7	Snow
8	Showers (is affecting hearing ability). Do not conduct survey

Table 5. Beaufort Wind codes. Routes will not be conducted under codes 4 or 5.

0	Calm (<1 mph) smoke rises vertically
1	Light Air (1-3 mph) smoke drifts, weather vane inactive
2	Light Breeze (4-7 mph) leaves rustle, can feel wind on face
3	Gentle Breeze (8-12 mph) leaves and twigs move around, small flag extends
4*	Moderate Breeze (13-18 mph) moves thin branches, raises loose paper
5*	Fresh Breeze (19-24 mph) trees sway

Routes will be run 30 minutes after sunset. At each stop an “effective” listening period of 5 minutes will be made. If running a fixed station, the listening period will be 30 minutes. All identified species will be noted and abundance will be estimated by the criteria in Table 6.

Table 6. Criteria used to determine abundance of species heard during chorus call counts.

1	Individuals can be counted; there is space between calls
2	Call of individuals can be distinguished, but there is some overlapping calls
3	Full chorus, calls are constant, continuous and overlapping

Visual Encounter Survey (VES)

The VES has been used primarily to rapidly evaluate large forested areas, as well for targeting specific species. VES is one in which field personnel walk through an area or habitat for a prescribed period of time or distance systematically searching for animals. Catch per unit effort (CPUE) is expressed as animals observed per hour of searching or area covered. This technique is appropriate for species inventory and relative abundance studies.

Three basic sampling designs are used for the VES: randomized walk, quadrant, and transect (Heyer et al. 1994). We will use quadrant and transect methods. A series of transects or quadrants (1-5) will be established in major and/or unique habitat patches. Though transect distances will be dependent on topography and habitat patch, for consistency lengths will be based on 25 meter increments (i.e. 25, 50, 75, 100 m). Quadrants should be 10m X 10m or 25m X 25m. In a unique area such as a small high elevation wetland, one transect of approximately 25m or one 25m x 25m quadrant would be sufficient. In major habitat types, such as a 40 hectare tract of contiguous mixed hardwoods, up to 5 transects of varying lengths and elevations would be established. VES will be conducted in forested and field habitats. Transects can also be conducted along streams and around ponds (Dodd 2003).

Transects or areas may be established as fixed sample sites to be sampled monthly through one yearly cycle. This repeated sampling should reduce seasonal bias associated with observing some amphibians. If the area being inventoried is large with complex habitat it may be desirable to sample at different sites each month or alternate sites so that more area may be covered. Transects will be searched at an intermediate level of intensity (Heyer et al. 1994). This means in addition to counting already exposed animals, the observer turns over surface objects such as rocks and logs within 1m of the transect and counts the animals uncovered. The cover objects must be returned to their original positions to minimize habitat disturbance. This type of search generally yields higher return per unit time than a low-intensity search because many amphibians hide under cover objects when conditions are not suitable for surface activity.

The VES may be used at ponds and in streams. Ponds can be sampled with dip nets or seines. Dodd (2003) describes taking sweep samples (at 15m intervals) with a dip net around an entire pond. Sweep surveys provide information on: 1) larval species presence at the time of sampling; (2) life history information, such as when eggs are deposited and tadpole developmental stage; (3) habitat information, such as microhabitat preferences and distribution of various larvae; and, (4) in some cases, an estimate of density (number of animals ÷ the amount of area sampled in reference to available habitat). Sampling effort is easily quantified. Sampling in a stream can involve the use of a dip net or seine but can also include walking a transect turning over rocks and searching hiding places (beginning downstream and working upstream). Amphibians are the targeted group of animals, but reptiles may be collected with this technique as well.

Drift Fences at Breeding Sites

Drift fences at breeding sites can be employed in species inventories studies for species

with defined breeding periods. For some species of salamanders, breeding season offers the best opportunity to document their presence.

Where feasible, a temporary or permanent pond will be identified for sampling. If small enough the entire pond will be encircled with the drift fence. If encircling the pond is uneconomical only a portion of the pond will be fenced. If the entire pond is not encircled, it will be assumed that only a subset of the species using the pond is observed. The drift fence will be constructed to prevent the animals from crawling under or over the fence. Pitfalls (will be placed at intervals along both sides of the fence. The pitfalls will be of sufficient size to capture amphibians, though the actual size of the pitfall may be dependent on substrate. Drainage holes in the bottom of the pitfall will allow excess water to drain. A small piece of sponge may be placed in the pitfall to prevent drowning of non-aquatic species. Where needed shading of the pitfall should be provided. Traps will be checked daily during the sampling period. Once the animal has been captured and noted it will be placed on the opposite side of the fence. Appendix A provides breeding periods for the salamanders documented from Tennessee. Drift fences at breeding sites will be opened for a period (target of 3 days) each month, September – June.

Artificial Cover Surveys

Coverboard surveys can be used to determine species occurrence, as well as relative abundance as catch per unit effort. They are effective in sampling species that require the moist environments found under such natural objects as rotting logs or rocks.

By setting out a standardized set of cover objects it is possible to determine the number of different species under a consistent uniform amount of cover. Coverboards will be placed in an array or grid in a 5 x 5 pattern (Figure 1.). Coverboards will be of plywood or solid block of wood sized at 61cm x 61cm x 1.3cm (24" x 24" x .5"). Coverboards will be set no closer than 3m

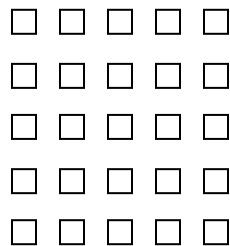


Figure 1. Coverboard array.

to its nearest neighboring coverboard. In positioning the coverboard, the leaf litter will be removed and the boards will be placed in contact with the dirt substrate. The GPS coordinates for each array will be taken at the center cover board. An array must be in a location for at least a month prior to beginning a survey (Dodd 2002).

Coverboards will be checked three times monthly during the months of April and October, but may be checked periodically during the rest of the year when weather conditions are optimum for encountering amphibians. To reduce the frequency of

disturbance, which reduces the efficiency of this method, coverboards will be run no more than once per 5-day period during these months. Amphibians are the target species, however, some reptiles and small mammals may also be found under coverboards. Any Animals encountered under the coverboard will be identified to species and enumerated. The coverboard will be re-positioned and the animal released at the edge of the board. Coverboard success generally increases after the boards have been in place for a period of time.

Reptiles

Visual Encounter Survey

The same VES methodology described in the amphibian section will be used to sample reptiles

Straight-Line Drift Fences with Traps and/or pitfalls

Drift fences can be used to determine species richness in an area and provide relative abundance data in the form of catch per unit effort. Straight-line drift fences are typically set in an intersecting array. A few examples are illustrated in Figure 2. A variety of configurations have been used in reptile inventories. A diagram of the array design used should be included in the reporting process. Cups or buckets may be used for pitfalls depending on the substrate. Silt fence material or aluminum flashing (50cm wide) may be used as the fence material. Fence lengths may be 5 to 20 meters long. The funnel traps can be double (Figure 3) or single ended and may be placed along the drift fence. Funnel traps should be shaded with pegboard or natural material.

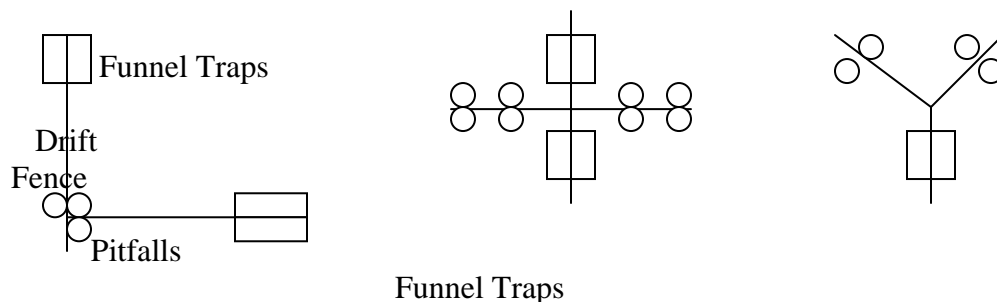


Figure 2. Perpendicular and Y straight-line drift fence using pitfalls and funnel traps. Configuration of traps and pitfalls can vary widely.



Figure 3. An example of a double-ended funnel trap. This trap was constructed of 3.2mm hardware cloth and fastened with zip ties. One funnel is removable and one is attached. The trap is 51 cm long.

Depending on topography, intersecting straight-line drift fences will be used to sample reptiles during the warm months of the year. During the period of September through June, drift fences will be opened for a period each month. A three-day trapping period should be targeted. Traps will be checked daily during the sampling period. As with any sampling method utilized, any animal occurrence will be noted.

Artificial Cover Surveys

Considerations for reptiles, such as increased body size and increased territory size, require coverboard surveys to be less structured than for amphibians. Coverboard material will vary in size and composition. For example, roofing tin (61cm X 122cm) or larger pieces of plywood provide excellent artificial cover for reptiles. Spacing for coverboards will be greater than for amphibians, but every effort will be made to utilize a grid pattern or material should be laid in a transect. Transects may be up to 150m in length with 10m between cover material. Coverboards targeting reptiles will be placed on top of the leaf litter in forested, as well as field, habitats. Arrays will be examined 3 times per month April - October. To reduce the frequency of disturbance, which reduces the efficiency of this method, coverboards will be run no more than once per 5-day period during these months.

Night Road Surveys

Road routes are an option on WMA's with road systems. These could be run in early spring (April/May) and early fall (Sept/Oct).

Heyer (1994) suggested a method where the investigator runs the route 3 times in a night with 15-minute intervals between runs. This method may be very effective at sampling snakes.

Aquatic Turtle Trapping

During the months of June through August, turtle traps will be placed in shallow water areas of streams and ponds within the sample area. Traps or hoop nets may be used.

Traps will be set and checked daily for one week each month during the period. Turtles will be identified to species, enumerated and released.

Basking Turtle Surveys

Basking surveys provide species list and relative abundance data. Basking surveys may also help determine where future trapping may take place. Surveys may be conducted at Ponds or on Rivers. Surveys can be run between May and September. Binoculars and a spotting scope will be necessary for this technique.

Voucher Specimens

Photographs of specimens should be taken when possible. These photos can be used as vouchers for county records. With digital technology it should be possible to create a hard copy of the photo labeled with location data and stored in a notebook. New species occurrences (i.e. range extensions) will be documented by preserving a specimen then depositing the voucher in the herpetological collection at Austin Peay State University. Techniques for preparing amphibians as scientific specimens are described in Heyer et al. (1994, Appendix 4).

Mark and Recapture

At some point we will need to consider mark and recapture techniques. This aspect of our work should be carefully planned. The protocols for mark and recapture should be developed as an addition to this document further into our inventory and monitoring program.

Disinfecting Sampling Equipment and Other Sanitary Items

All equipment should be disinfected between sampling sites. A mild bleach solution or sanitary wipes may be used. Hands should be washed frequently and at a minimum between sampling sites. Only vinyl gloves should be used when handling amphibians because latex gloves are toxic to amphibians. Handling bags should not be reused. It is even suggested that seines be disinfected between sites (Dodd 2003).

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Species Codes

Species acronyms for use in recording occurrence data.

Symbol	Species
Family Bufonidae - True Toads	
AMTO	American Toad
FOTO	Fowler's Toad
Family Hylidae – Treefrogs	
NOCR	Northern Cricket Frog
SOCR	Coastal Plain (Southern) Cricket Frog
WBIV	Western Bird-voiced Treefrog
COGR	Cope's Gray Treefrog
GRET	Green Treefrog
BATR	Barking Treefrog
GRAT	Gray Treefrog
MOCH	Mountain Chorus Frog
NOSP	Northern Spring Peeper
UPCH	Upland Chorus Frog
Family Microhylidae - Narrowmouth Frogs	
ENAM	Eastern Narrow-mouthed Toad
Family Pelobatidae – Spadefoots	
EASP	Eastern Spadefoot
Family Ranidae - True Frogs	
NCRF	Northern Crawfish Frog
DUGO	Dusky Gopher Frog
AMBU	American Bullfrog
GRFR	Green Frog
PIFR	Pickerel Frog
SOLF	Southern Leopard Frog
WOFR	Wood Frog
Ambystomatidae -Mole Salamanders	
STSA	Streamside Salamander
SPSA	Spotted Salamander
MASA	Marbled Salamander
MOSA	Mole Salamander
SMSA	Small-mouthed Salamander
EATI	Eastern Tiger Salamander

Amphiumidae -Amphiumas	
THTO	Three-toed Amphiuma
Cryptobranchidae -Hellbender	
EAHE	Eastern Hellbender
Plethodontidae -Lungless Salamanders	
CMSA	Cumberland Mountain Salamander
CMDS	Carolina Mountain Dusky Salamander
SPDU	Spotted Dusky Salamander
NODU	Northern Dusky Salamander
IMSA	Imitator Salamander
SHSA	Shovel-nosed Salamander
SEAL	Seal Salamander
AMDS	Allegheny Mountain Dusky Salamander
OCSA	Ocoee Salamander
BRDS	Blue Ridge Dusky Salamander
BBSA	Black-bellied Salamander
SDSA	Santeetlah Dusky Salamander
BMSA	Black Mountain Salamander
PGSA	Pigmy Salamander
2LIN	Southern Two-lined Salamander
3LIN	Three-lined Salamander
JUSA	Junaluska Salamander
LTSA	Long-tailed Salamander
CASA	Cave Salamander
BR2L	Blue Ridge Two-lined Salamander
BECV	Berry Cave Salamander
TNCV	Tennessee Cave Salamander
SPRS	Spring Salamander
4TSA	Four-toed Salamander
MMSA	Midland Mud Salamander
RESA	Red Salamander
GRSA	Green Salamander
TESA	Tellico Salamander
CBSA	Cheoh Bald Salamander
ERBS	Eastern Red-backed Salamander
WSSS	White-spotted Slimy Salamander
NZSA	Northern Zigzag Salamander
NOSL	Northern Slimy Salamander

JOSA	Jordan's Salamander
CUPL	Cumberland Plateau Salamander
MSSS	Mississippi Slimy Salamander
NGCS	Northern Gray-cheeked Salamander
SRSA	Southern Ravine Salamander
SRBS	Southern Red-backed Salamander
RELG	Red-legged Salamander
SASA	Southern Appalachian Salamander
SZZS	Southern Zigzag Salamander
WHSA	Wehrle's Salamander
WESA	Weller's Salamander
YOSA	Yonahlossee Salamander
Proteidae - Waterdogs and Mudpuppy	
MUDP	Common Mudpuppy
Salamandridae -Newts	
EANE	Eastern Newt
Sirenidae -Sirens	
WLSI	Western Lesser Siren
Reptiles	
Anguidae - Glass Lizards and Alligator Lizards	
EAGL	Eastern Slender Glass Lizard
Iguanidae - Spiny Lizards	
NFNL	Northern Fence Lizard
Iguanidae -Anoles	
GRAN	Green Anole
Family Scincidae - Skinks	
COSK	Coal Skink
5LSK	Common Five-lined Skink
SE5L	Southeastern Five-lined Skink
BRHD	Broad-headed Skink
FRSK	Ground Skink
Teiidae - Whiptails & Racerunners	
E6LI	Eastern Six-lined Racerunner
Chelydridae - Snapping Turtles	
EASN	Eastern Snapping Turtle
ALSN	Alligator Snapping Turtle

Family Emydidae (Box and Water Turtles):	
PATU	Painted Turtle
BOTU	Bog Turtle
NOMA	Northern Map Turtle
OUMA	Ouachita Map Turtle
FAMA	False Map Turtle
RICO	River Cooter
EABX	Eastern Box Turtle
POSL	Pond Slider
CUSL	Cumberland Slider
RESL	Red - Eared Slider
YBSL	Yellow-Bellied Slider
Family Kinosternidae (Mud and Musk Turtles):	
EAMU	Eastern Mud Turtle
COMU	Common Musk Turtle
SNMU	Stripe-necked Musk Turtle
Family Trionychidae (Softshell Turtles):	
MISS	Midland Smooth Softshell
SPSS	Spiny Softshell
Viperidae - Pit Vipers	
COHD	Copperhead
WECO	Western Cottonmouth
TIRA	Timber Rattlesnake
WPRA	Western Pigmy Rattlesnake
Colubridae -	
EAWO	Eastern Wormsnake
NOSC	Northern Scarlet Snake
EARA	Eastern Racer
RNSN	Ring-necked Snake
COSN	Cornsnake
RASN	Ratsnake
MUSN	Mud Snake
EHNS	Eastern Hog-nosed Snake
YEBE	Yellow-bellied Kingsnake
BLKI	Black Kingsnake
MISN	Milksnake
EACO	Eastern Coachwhip

MIGR	Mississippi Green Watersnake
PLBE	Plain-bellied Watersnake
BBWS	Broad-banded Watersnake
NDBW	Northern Diamond-backed Watersnake
NOWA	Northern Watersnake
NRGR	Northern Rough Greensnake
NOPI	Northern Pinesnake
QUSN	Queen Snake
DEBR	Dekay's Brownsnake
REBE	Red-bellied Snake
SOCR	Southeastern Crowned Snake
WRIB	Western Ribbonsnake
ERIB	Eastern Ribbonsnake
EGAR	Eastern Gartersnake
ROEA	Rough Earthsnake
SMEA	Smooth Earthsnake

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Conversion Factors

Convert From	Into	Multiply by
Acres	Hectare or square hectometer	0.404687
Centimeter	Inches	0.3937
“	Millimeters	10
Feet	Meters	0.3048
Gallons	Liters	3.7854
“	Yards	0.333333
Grams	Ounces	0.03215
Hectares	Acres	2.471
“	Sqare meters	.00386
Inches	Centimeters	2.54
“	Millimeters	25.4
Kilometers	Miles (statute)	0.62137
Liter	Gallons	0.26417
Meters	Feet	3.28084
“	Yards	1.0936
Miles (statute)	Kilometers	1.609344
Ounce	Grams	31.1035
Quarts	Liters	0.94635
Square meters	Hectares	0.9991

Metric Equivalentents for Various Units of Measure	
1 acre	= 0.404686 hectares
1,000 acres	= 404.686 hectares
1 cubic foot	= 0.028317 cubic meters
1,000 cubic feet	= 28.317 cubic meters
Breast Height	= 1.4 meters, or 4.5 feet above ground level

Species Breeding Information and Species Occurrence by Region

Salamander breeding periods.

Species	Spring			Summer			Fall			Winter		
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Spotted Salamander										X	X	X
Marbled Salamander								X	X			
Mole Salamander										X	X	X
Small Mouth Salamander	X											X
Tiger Salamander									X			
Three Toed Amphiuma												X
Hellbender											X	
Mudpuppies										X	X	X
Green Salamander	X								X	X	X	X
Cumberland Mtn. Salamander	Spring						Autumn					
Dusky Salamander	Spring						Autumn					
Imitator Salamander	Spring						Autumn					
Seal Salamander		X					X	X				
Mountain Dusky Salamander	X					X		X				
Blackbelly Salamander							X					
Santeetlah Dusky Salamander												
Black Mountain Salamander												
Pygmy Salamander		X	X				X	X				
Southern Two-lined Salamander	X	X	X				X	X	X	X	X	X
Blue Ridge Two lined Salamander												
Junaluska Salamander	X							X				
Longtail Salamander									X	X	X	X
Cave Salamander					X	X	X	X				
Tennessee Cave Salamander												
Spring Salamander				X	X	X	X					
Four Toed Salamander												
Shovelnose Salamander												
Tellico Salamander												
Redback Salamander	X									X	X	X
N. ZigZag Salamander	X	X							X		X	X
Northern Slimy Salamander	X											
White spotted Slimy Salamander	X											
Mississippi Slimy Salamander	X											
Jordan's Salamander					X	X	X	X				
Cumb. Plat. Woodland Salamander					X	X	X	X				
Revine Salamander	X								X	X	X	X

Southern Redback Salamander	x																x
S. Appalachian Slimy Salamander																	
Wehrle's Salamander	x	x															
Weller's Salamander									x								
Yonahlossee Salamander						x											
Mud Salamander							x										
Red Salamander							x										
Eastern Newt	x	x	x	x													
Lesser Siren	x													x	x		

Table 1. Salamander Species of the East Tennessee Region.		
Family Cryptobranchidae	<i>Giant Salamanders - Hellbenders</i>	
	Hellbender	Cryptobranchus alleganiensis
Family Proteidae	Giant Salamander- Mudpuppies and Waterdogs	
	Spotted Salamander	Ambystoma maculatum
	Marbled Salamander	<i>Ambystoma opacum</i>
	Mole Salamander	<i>Ambystoma talpoideum</i>
	Tiger Salamander	<i>Ambystoma tigrinum</i>
Family Salamandridae	Newts	
	Eastern Newt	Notophthalmus viridescens
Family Plethodontidae	<i>Lungless Salamanders</i>	
	Green Salamander	Aneides aeneus
	Seepage Salamander	<i>Desmognathus aeneus</i>
	Carolina Mountain Dusky Salamander	<i>Desmognathus carolinensis</i>
Contact zone for <i>D. conanti</i> & <i>D. fuscus</i> - hybrids likely	Spotted Dusky Salamander	<i>Desmognathus conanti</i>
	Northern Dusky Salamander	<i>Desmognathus fuscus</i>
	Imitator Salamander	<i>Desmognathus imitator</i>
	Shovel-nosed Salamander	<i>Desmognathus marmoratus</i>
	Seal Salamander	<i>Desmognathus monticola</i>
	Allegheny Mountain Dusky Salamander	<i>Desmognathus ochrophaeus</i>
	Ocoee Salamander	<i>Desmognathus ocoee</i>
	Blue Ridge Dusky Salamander	<i>Desmognathus orestes</i>
	Black-bellied Salamander	<i>Desmognathus quadramaculatus</i>
	Santeetlah Dusky Salamander	<i>Desmognathus santeetlah</i>
	Black Mountain Salamander	<i>Desmognathus welteri</i>
	Pigmy Salamander	<i>Desmognathus wrighti</i>
	Southern Two-lined Salamander	<i>Eurycea cirrigera</i>
	Three lined Salamander	<i>Eurycea guttolineata</i>
	Junaluska Salamander	<i>Eurycea junaluska</i>
	Long-tailed Salamander	<i>Eurycea longicauda</i>
	Cave Salamander	<i>Eurycea lucifuga</i>
	Blue Ridge Two-lined Salamander	<i>Eurycea wilderae</i>

*May soon be elevated to a separate species	Tennessee Cave Salamander (Berry Cave)	<i>Gyrinophilus palleucus guloineatus</i>
	Spring Salamander	<i>Gyrinophilus porphyriticus</i>
	Four-toed Salamander	<i>Hemidactylium scutatum</i>
	Tellico Salamander	<i>Plethodon aureolus</i>
	Eastern Red-backed Salamander	<i>Plethodon cinereus</i>
	White-spotted Slimy Salamander	Plethodon cylindraceus
	Northern Zigzag Salamander	<i>Plethodon dorsalis</i>
	Northern Slimy Salamander	<i>Plethodon glutinosus</i>
	Jordan's Salamander <i>Plethodon jordani</i>	
	Cumberland Plateau Salamander	<i>Plethodon kentucki</i>
*Likely to occur, but unconfirmed in Tennessee	Northern Gray-cheeked Salamander	<i>Plethodon montanus</i>
	Southern Ravine Salamander	<i>Plethodon richmondi</i>
	Southern Red-backed Salamander	<i>Plethodon serratus</i>
	Red-legged Salamander	<i>Plethodon shermani</i>
	Southern Appalachian Salamander	<i>Plethodon teyahalee</i>
	Southern Zigzag Salamander	<i>Plethodon ventralis</i>
	Wehrle's Salamander	<i>Plethodon wehrlei</i>
	Weller's Salamander	<i>Plethodon welleri</i>
	Yonahlossee Salamander	<i>Plethodon yonahlossee</i>
	Mud Salamander	<i>Pseudotriton montanus</i>
	Red Salamander	<i>Pseudotriton ruber</i>

Table 2. Salamander Species of the Middle Tennessee Region.

Family Cryptobranchidae	<i>Giant Salamanders - Hellbenders</i>	
	Hellbender	Cryptobranchus alleganiensis
Family Sirenidae	<i>Sirens</i>	
	Lesser Siren	Siren intermedia
Family Proteidae	Giant Salamanders – Mudpuppies and Waterdogs	
	Mudpuppy	Necturus maculosus
Family Ambystomatidae	<i>Mole Salamanders</i>	
	Streamside Salamander	Ambystoma barbouri

	Spotted Salamander	<i>Ambystoma maculatum</i>
	Marbled Salamander	<i>Ambystoma opacum</i>
	Mole Salamander	<i>Ambystoma talpoideum</i>
	Small-mouthed Salamander	<i>Ambystoma texanum</i>
	Tiger Salamander	<i>Ambystoma tigrinum</i>
Family Salamandridae	Newts	
	Eastern Newt	Notophthalmus viridescens
Family Plethodontidae	Lungless Salamanders	
	Green Salamander	Aneides aeneus
	Northern Dusky Salamander	<i>Desmognathus fuscus</i>
	Southern Two-lined Salamander	<i>Eurycea cirrigera</i>
	Three-lined Salamander	Eurycea guttolineata
	Long-tailed Salamander	<i>Eurycea longicauda</i>
	Cave Salamander	<i>Eurycea lucifuga</i>
	Tennessee Cave Salamander	<i>Gyrinophilus palleucus</i>
* 1 record from Dekalb Co.	Spring Salamander	<i>Gyrinophilus porphyriticus</i>
	Four-toed Salamander	<i>Hemidactylium scutatum</i>
	Northern Zigzag Salamander	<i>Plethodon dorsalis</i>
	Northern Slimy Salamander	<i>Plethodon glutinosus</i>
	Mud Salamander	<i>Pseudotriton montanus</i>
	Red Salamander	<i>Pseudotriton ruber</i>

<i>Table 3. Salamanders Species of the West Tennessee Region</i>		
Family Cryptobranchidae	<i>Giant Salamanders- Hellbenders</i>	
* possible occurrence	Hellbender	Cryptobranchus alleganiensis
Family Amphiumidae	<i>Amphiumas</i>	
	Three-toed Amphiuma	Amphiuma tridactylum
Family Proteidae	<i>Giant Salamander – Mudpuppies and Waterdogs</i>	
	Mudpuppy	Necturus maculosus
Family Sirenidae	<i>Sirens</i>	
	Lesser Siren	Siren intermedia
Family Ambystomatidae	<i>Mole Salamanders</i>	
	<i>Spotted Salamander</i>	Ambystoma maculatum
	<i>Marbled Salamander</i>	Ambystoma opacum
	<i>Mole Salamander</i>	Ambystoma talpoideum
	<i>Small-mouthed Salamander</i>	Ambystoma texanum
	<i>Tiger Salamander</i>	Ambystoma tigrinum

Family Salamandridae	<i>Newts</i>	
	<i>Eastern Newt</i>	Notophthalmus viridescens
Family Plethodontidae	<i>Lungless Salamanders</i>	
	<i>Spotted Dusky Salamander</i>	Desmognathus conanti
	<i>Southern Two-lined Salamander</i>	Eurycea guttolineata
	<i>Long-tailed Salamander</i>	Eurycea longicauda
*Along the eastern edge of the West Tennessee Region only in karst areas.	<i>Cave Salamander</i>	Eurycea lucifuga
	<i>Spring Salamander</i>	Gyrinophilus porphyriticus
	<i>Four-toed Salamander</i>	Hemidactylium scutatum
	<i>Northern Zigzag Salamander</i>	Plethodon dorsalis
	<i>Mississippi Slimy Salamander</i>	Plethodon Mississippi
	<i>Red Salamander</i>	Pseudotriton ruber