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Nantahala and Pisgah National Forests



Final Environmental Impact Statement

for the
Land Management Plan

Appendix C. Ecological Sustainability Analysis

Final Environmental Impact Statement - Nantahala and Pisgah National Forests Land Management Plan

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**Final Environmental Impact Statement
Nantahala and Pisgah National Forests
Appendix C. Ecological Sustainability Analysis**

Prepared by:

**Sheryl Bryan, Fisheries and Wildlife Biologist
Gary Kauffman, Botanist and Ecologist**

For Information Contact:

**Michelle Aldridge, Forest Planner
National Forests in North Carolina
160 Zillicoa Street Suite A
Asheville, NC 28801
(828) 257- 4200
www.fs.usda.gov/goto/nfsnc/nprevision**

Appendix C. Ecological Sustainability Analysis

In addition to the discussion in Chapter 3, this appendix further describes the analysis process used in the Ecological Sustainability Evaluations (ESE) in the EIS. Further information for individual analyses can be found in the project record.

Topics covered in this appendix include:

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Background

To conduct the ecological sustainability evaluation in the EIS, this planning effort used the Ecological Sustainability Evaluation (ESE) tool, a strategic conservation planning tool used by the Forest Service, Southern Region, for forest planning efforts. This analysis tool is based on the structure of the Open Standards for the Practice of Conservation (CMP 2018) planning tool and utilizes a standardized process that is adaptable to forest-specific priorities and needs. The ESE tool employs prioritization algorithms utilizing rank, importance rating, attributes and indicators, stressors and threats, scope and severity ratings, and management opportunities to assist and support management decisions. The tool includes a process record with documentation for assumptions made within the tool.

The general approach to evaluating ecological sustainability and species diversity in the ESE is as follows:

- 1) define ecological systems, and the key characteristics, stressors and threats to these systems;
- 2) identify species for these ecological systems and link them to species groups;
- 3) link species groups to ecological systems ;
- 4) identify indicators and values to sustain all ecological systems and species groups;
- 5) estimate outcomes of the indicators for each alternative;
- 6) calculate ecological sustainability scores for each ecological systems and species group by alternative; and
- 7) check plan components for species specific needs.

This appendix is organized roughly around these steps, and also references additional information in the project record.

For the first step in this process, the forest plan defines ecological systems as ecozones and unique habitats found across the Forests in the aquatic systems, terrestrial ecosystems, and plant and animal diversity sections of the plan. The forest plan also includes desired conditions related to the key characteristics of these systems and outlines the stressors and threats.

Species considered in the Ecological Sustainability Analysis

The next step in the process is to identify species associated with these ecological systems. Species identified below were considered for analysis in the NP ESE Tool. The collaborative process for identifying these species can be found in the project record. This list is not meant to be inclusive of all species occurring on the Forests, but rather to be a broad enough representation of species diversity to afford analysis of potential effects of the planning framework on the health and resiliency of forest habitats and species persistence and recovery.

Species identified as Threatened & Endangered, or Species of Conservation Concern are identified by status.

Table C-1. Species included in the NP ESE Tool that were considered for analysis.

Group	Type	Common Name	Scientific Name	Status
Animal	Amphibian	Spotted Salamander	<i>Ambystoma maculatum</i>	
Animal	Amphibian	Mole Salamander	<i>Ambystoma talpoideum</i>	
Animal	Amphibian	Eastern Tiger Salamander	<i>Ambystoma tigrinum</i>	
Animal	Amphibian	Green Salamander	<i>Aneides aeneus</i>	SCC
Animal	Amphibian	Eastern Hellbender	<i>Cryptobranchus alleganiensis alleganiensis</i>	SCC
Animal	Amphibian	Seepage Salamander	<i>Desmognathus aneneus</i>	
Animal	Amphibian	Dwarf Black-bellied Salamander	<i>Desmognathus folkerti</i>	SCC
Animal	Amphibian	Imitator Salamander	<i>Desmognathus imitator</i>	
Animal	Amphibian	Waterrock Knob Salamander	<i>Desmognathus imitator pop. 1</i>	
Animal	Amphibian	Northern Pygmy Salamander	<i>Desmognathus organi</i>	SCC
Animal	Amphibian	Santeetlah Dusky Salamander	<i>Desmognathus santeetlah</i>	
Animal	Amphibian	Southern Pygmy Salamander	<i>Desmognathus wrighti</i>	SCC
Animal	Amphibian	Northern Two-lined Salamander	<i>Eurycea bislineata</i>	
Animal	Amphibian	Junaluska Salamander	<i>Eurycea junaluska</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Animal	Amphibian	Longtail Salamander	<i>Eurycea longicauda</i>	SCC
Animal	Amphibian	Four-toed Salamander	<i>Hemidactylium scutatum</i>	
Animal	Amphibian	Common Mudpuppy	<i>Necturus maculosus maculosus</i>	
Animal	Amphibian	Blue Ridge Gray-cheeked Salamander	<i>Plethodon amplus</i>	
Animal	Amphibian	Tellico Salamander	<i>Plethodon aureolus</i>	SCC
Animal	Amphibian	Chattahoochee Slimy Salamander	<i>Plethodon chattahoochee</i>	SCC
Animal	Amphibian	Cheoah Bald Salamander	<i>Plethodon cheoah</i>	SCC
Animal	Amphibian	Slimy Salamander	<i>Plethodon glutinosus</i>	
Animal	Amphibian	Red-cheeked Salamander	<i>Plethodon jordani</i>	
Animal	Amphibian	South Mountain Gray-cheeked Salamander	<i>Plethodon meridianus</i>	
Animal	Amphibian	Southern Ravine Salamander	<i>Plethodon richmondi</i>	
Animal	Amphibian	Red-legged Salamander	<i>Plethodon shermani</i>	
Animal	Amphibian	Southern Appalachian Salamander	<i>Plethodon teyahalee</i>	
Animal	Amphibian	Southern Zigzag Salamander	<i>Plethodon ventralis</i>	SCC
Animal	Amphibian	Wehrle's Salamander	<i>Plethodon wehrlei</i>	
Animal	Amphibian	Weller's Salamander	<i>Plethodon welleri</i>	SCC
Animal	Amphibian	Yonahlossee Salamander	<i>Plethodon yonahlossee</i>	
Animal	Amphibian	Crevice Salamander	<i>Plethodon yonahlossee pop. 1</i>	
Animal	Amphibian	Mountain Chorus Frog	<i>Pseudacris brachyphona</i>	
Animal	Arachnid	a lampshade weaver	<i>Hypochilus coylei</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Arachnid	a lampshade weaver	<i>Hypochilus sheari</i>	
Animal	Arachnid	Spruce-Fir Moss Spider	<i>Microhexura montivaga</i>	T&E
Animal	Arachnid	a cave cobweb spider	<i>Nesticus bishopi</i>	
Animal	Arachnid	Linville Caverns Spider	<i>Nesticus carolinensis</i>	
Animal	Arachnid	Lost Nantahala Cave Spider	<i>Nesticus cooperi</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus crosbyi</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus gertschi</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus mimus</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus nasicus</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus reclusus</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus sheari</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus silvanus</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus sp. 1</i>	
Animal	Arachnid	a cave cobweb spider	<i>Nesticus sp. 2</i>	
Animal	Bird	Sharp-shinned Hawk	<i>Accipiter striatus</i>	
Animal	Bird	Southern Appalachian Northern Saw-whet Owl	<i>Aegolius acadicus pop. 1</i>	
Animal	Bird	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	
Animal	Bird	Le Conte's Sparrow	<i>Ammospiza (Ammodramus) leconteii</i>	
Animal	Bird	Chuck-will's-widow	<i>Antrostomus carolinensis</i>	
Animal	Bird	Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	
Animal	Bird	Golden Eagle	<i>Aquila chrysaetos</i>	
Animal	Bird	Short-eared Owl	<i>Asio flammeus</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Bird	Long-eared Owl	<i>Asio otus</i>	
Animal	Bird	Upland Sandpiper	<i>Bartramia longicauda</i>	
Animal	Bird	Cedar Waxwing	<i>Bombycilla cedrorum</i>	
Animal	Bird	Ruffed Grouse	<i>Bonasa umbellus</i>	Focal
Animal	Bird	Broad-winged Hawk	<i>Buteo platypterus</i>	
Animal	Bird	Canada Warbler	<i>Cardellina canadensis</i>	
Animal	Bird	Veery	<i>Catharus fuscescens</i>	
Animal	Bird	Hermit Thrush	<i>Catharus guttatus</i>	
Animal	Bird	Swainson's Thrush	<i>Catharus ustulatus</i>	
Animal	Bird	Henslow's Sparrow	<i>Centronyx (Ammodramus) henslowii</i>	
Animal	Bird	Brown Creeper	<i>Certhia americana</i>	
Animal	Bird	Chimney Swift	<i>Chaetura pelagica</i>	
Animal	Bird	Common Nighthawk	<i>Chordeiles minor</i>	
Animal	Bird	Sedge Wren	<i>Cistothorus platensis</i>	
Animal	Bird	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	
Animal	Bird	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	
Animal	Bird	Northern Flicker	<i>Colaptes auratus</i>	
Animal	Bird	Northern Bobwhite	<i>Colinus virginianus</i>	
Animal	Bird	Olive-sided Flycatcher	<i>Contopus cooperi</i>	
Animal	Bird	Eastern Wood-pewee	<i>Contopus virens</i>	
Animal	Bird	Common Raven	<i>Corvus corvax</i>	
Animal	Bird	Bobolink	<i>Dolichonyx oryzivorus</i>	
Animal	Bird	Pileated Woodpecker	<i>Dryocopus pileatus</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Bird	Alder Flycatcher	<i>Empidonax alnorum</i>	
Animal	Bird	Least Flycatcher	<i>Empidonax minimus</i>	
Animal	Bird	Willow Flycatcher	<i>Empidonax traillii</i>	
Animal	Bird	Acadian Flycatcher	<i>Empidonax virescens</i>	
Animal	Bird	Rusty Blackbird	<i>Euphagus carolinus</i>	
Animal	Bird	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	
Animal	Bird	Merlin	<i>Falco columbarius</i>	
Animal	Bird	Peregrine Falcon	<i>Falco peregrinus</i>	SCC
Animal	Bird	American Kestrel	<i>Falco sparverius</i>	
Animal	Bird	Kentucky Warbler	<i>Geothlypis formosa</i>	
Animal	Bird	Bald Eagle	<i>Haliaeetus leucocephalus</i>	SCC
Animal	Bird	Worm-eating Warbler	<i>Helmitheros vermivorum</i>	
Animal	Bird	Wood Thrush	<i>Hylocichla mustelina</i>	
Animal	Bird	Yellow-breasted Chat	<i>Icteria virens</i>	
Animal	Bird	Loggerhead shrike	<i>Lanius ludovicianus</i>	
Animal	Bird	Nashville Warbler	<i>Leiothlypis (Oreothlypis) ruficapilla</i>	
Animal	Bird	Swainson's Warbler	<i>Limnothlypis swainsonii</i>	
Animal	Bird	Southern Appalachian Red Crossbill	<i>Loxia curvirostra pop. 1</i>	
Animal	Bird	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	
Animal	Bird	Wild Turkey	<i>Meleagris gallopavo</i>	Focal
Animal	Bird	Lincoln's Sparrow	<i>Melospiza lincolni</i>	
Animal	Bird	Black-and-white Warbler	<i>Mniotilta varia</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Bird	Louisiana Waterthrush	<i>Parkesia motacilla</i>	
Animal	Bird	Savannah Sparrow	<i>Passerculus sandwichensis</i>	
Animal	Bird	Indigo Bunting	<i>Passerina cyanea</i>	
Animal	Bird	Bachman's Sparrow	<i>Peucaea aestivalis</i>	
Animal	Bird	Eastern Towhee	<i>Pipilo erythrophthalmus</i>	
Animal	Bird	Scarlet Tanager	<i>Piranga olivacea</i>	
Animal	Bird	Summer Tanager	<i>Piranga rubra</i>	
Animal	Bird	Black-capped Chickadee	<i>Poecile atricapillus practica</i>	SCC
Animal	Bird	Vesper Sparrow	<i>Pooecetes gramineus</i>	
Animal	Bird	Purple Martin	<i>Progne subis</i>	
Animal	Bird	Prothonotary Warbler	<i>Protonotaria citrea</i>	
Animal	Bird	Bank Swallow	<i>Riparia riparia</i>	
Animal	Bird	American Woodcock	<i>Scolopax minor</i>	
Animal	Bird	Ovenbird	<i>Seiurus aurocapilla</i>	
Animal	Bird	Northern Parula	<i>Setophaga americana</i>	
Animal	Bird	Bay-breasted Warbler	<i>Setophaga castanea</i>	
Animal	Bird	Cerulean Warbler	<i>Setophaga cerulea</i>	SCC
Animal	Bird	Hooded Warbler	<i>Setophaga citrina</i>	
Animal	Bird	Yellow-rumped Warbler	<i>Setophaga coronata</i>	
Animal	Bird	Prairie Warbler	<i>Setophaga discolor</i>	
Animal	Bird	Yellow-throated Warbler	<i>Setophaga dominica</i>	
Animal	Bird	Blackburnian Warbler	<i>Setophaga fusca</i>	
Animal	Bird	Magnolia Warbler	<i>Setophaga magnolia</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Bird	Blackpoll Warbler	<i>Setophaga striata</i>	
Animal	Bird	Brown-headed Nuthatch	<i>Sitta pusilla</i>	
Animal	Bird	Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	
Animal	Bird	Pine Siskin	<i>Spinus pinus</i>	
Animal	Bird	American Tree Sparrow	<i>Spizella arborea</i>	
Animal	Bird	Field Sparrow	<i>Spizella pusilla</i>	
Animal	Bird	Eastern Meadowlark	<i>Sturnella magna</i>	
Animal	Bird	Bewick's Wren	<i>Thryomanes bewickii</i>	
Animal	Bird	Brown Thrasher	<i>Toxostoma rufum</i>	
Animal	Bird	Barn Owl	<i>Tyto alba</i>	
Animal	Bird	Golden-winged Warbler	<i>Vermivora chrysoptera</i>	SCC
Animal	Bird	Blue-winged Warbler	<i>Vermivora cyanoptera</i>	
Animal	Bird	Yellow-throated Vireo	<i>Vireo flavifrons</i>	
Animal	Bird	Warbling Vireo	<i>Vireo gilvus</i>	
Animal	Bird	Blue-headed Vireo	<i>Vireo solitarius</i>	
Animal	Bird	White-throated Sparrow	<i>Zonotrichia albicollis</i>	
Animal	Crustacean	Bennett's Cave Mill Water Slater	<i>Caecidotea carolinensis</i>	
Animal	Crustacean	Valley River Crayfish	<i>Cambarus brimleyorum</i>	
Animal	Crustacean	Red Burrowing Crayfish	<i>Cambarus carolinus</i>	
Animal	Crustacean	Chauga Crayfish	<i>Cambarus chaugaensis</i>	SCC
Animal	Crustacean	Grandfather Mountain Crayfish	<i>Cambarus eeseehensis</i>	
Animal	Crustacean	Little Tennessee Crayfish	<i>Cambarus georgiae</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Animal	Crustacean	Hiwassee Crayfish	<i>Cambarus hiwasseeensis</i>	
Animal	Crustacean	Carolina Foothills Crayfish	<i>Cambarus johni</i>	
Animal	Crustacean	Broad River Stream Crayfish	<i>Cambarus lenati</i>	
Animal	Crustacean	Knotty Burrowing Crayfish	<i>Cambarus nodosus</i>	
Animal	Crustacean	Hiwassee Headwaters Crayfish (Parrish Crayfish)	<i>Cambarus parrishi</i>	SCC
Animal	Crustacean	French Broad Crayfish	<i>Cambarus reburus</i>	
Animal	Crustacean	Broad River Spiny Crayfish	<i>Cambarus spicatus</i>	
Animal	Crustacean	Tuckasegee Stream Crayfish	<i>Cambarus tuckasegee</i>	
Animal	Crustacean	Carolina Skistodiptomus	<i>Skistodiptomus carolinensis</i>	
Animal	Crustacean	Carolina Seep Scud	<i>Stygobromus carolinensis</i>	SCC
Animal	Crustacean	an ostracod	<i>Waltoncythere acuta</i>	
Animal	Fish	Lake Sturgeon	<i>Acipenser fulvescens</i>	
Animal	Fish	Snail Bullhead	<i>Ameiurus brunneus</i>	
Animal	Fish	Flat Bullhead	<i>Ameiurus platycephalus</i>	
Animal	Fish	Freshwater Drum	<i>Aplodinotus grunniens</i>	
Animal	Fish	River Carpsucker	<i>Carpionodes carpio</i>	
Animal	Fish	Quillback	<i>Carpionodes cyprinus</i>	
Animal	Fish	Carolina Quillback	<i>Carpionodes sp. cf. cyprinus</i>	
Animal	Fish	Atlantic Highfin Carpsucker	<i>Carpionodes sp. cf. velifer</i>	
Animal	Fish	Smoky Dace	<i>Clinostomus funduloides ssp. 1</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Fish	Banded Sculpin	<i>Cottus carolinae</i>	SCC
Animal	Fish	Spotfin Chub	<i>Erimonax monachus</i>	T&E
Animal	Fish	Southern Blotched Chub	<i>Erimystax insignis eristigma</i>	SCC
Animal	Fish	Sharphead Darter	<i>Etheostoma acuticeps</i>	SCC
Animal	Fish	Tuckasegee Darter	<i>Etheostoma gutselli</i>	
Animal	Fish	Turquoise Darter	<i>Etheostoma inscriptum</i>	SCC
Animal	Fish	Redline Darter	<i>Etheostoma rufilineatum</i>	
Animal	Fish	Snubnose Darter	<i>Etheostoma simoterum</i>	
Animal	Fish	Seagreen Darter	<i>Etheostoma thalassinum</i>	
Animal	Fish	Wounded Darter	<i>Etheostoma vulneratum</i>	SCC
Animal	Fish	Mooneye	<i>Hiodon tergisus</i>	
Animal	Fish	Rosyface Chub	<i>Hybopsis rubrifrons</i>	SCC
Animal	Fish	Ohio Lamprey	<i>Ichthyomyzon bdellium</i>	
Animal	Fish	Smallmouth Buffalo	<i>Ictiobus bubalus</i>	
Animal	Fish	Black Buffalo	<i>Ictiobus niger</i>	
Animal	Fish	Bluegill	<i>Lepomis macrochirus</i>	
Animal	Fish	American Brook Lamprey	<i>Lethenteron appendix</i>	SCC
Animal	Fish	Striped Shiner	<i>Luxilus chrysocephalus</i>	
Animal	Fish	Redeye Bass	<i>Micropterus coosae</i>	
Animal	Fish	Smallmouth Bass	<i>Micropterus dolomieu</i>	
Animal	Fish	Largemouth Bass	<i>Micropterus salmoides</i>	
Animal	Fish	Smallmouth Redhorse	<i>Moxostoma breviceps</i>	
Animal	Fish	Robust Redhorse	<i>Moxostoma robustum</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Fish	Sicklefin Redhorse	<i>Moxostoma sp. 2</i>	SCC
Animal	Fish	Yellowfin Shiner	<i>Notropis lutipinnis</i>	
Animal	Fish	Highland Shiner	<i>Notropis micropteryx</i>	
Animal	Fish	Mimic Shiner	<i>Notropis volucellus</i>	
Animal	Fish	Mountain Madtom	<i>Noturus eleutherus</i>	
Animal	Fish	Stonecat	<i>Noturus flavus</i>	SCC
Animal	Fish	Blotchside Logperch	<i>Percina burtoni</i>	SCC
Animal	Fish	Logperch	<i>Percina caprodes</i>	SCC
Animal	Fish	Olive Darter	<i>Percina squamata</i>	SCC
Animal	Fish	Sickle Darter	<i>Percina williamsi (P. macrocephala)</i>	
Animal	Fish	Paddlefish	<i>Polydon spathula</i>	
Animal	Fish	Eastern Blacknose Dace	<i>Rhinichthys atratulus</i>	
Animal	Fish	Brook Trout	<i>Salvelinus fontinalis</i>	
Animal	Fish	Sauger	<i>Sander canadensis</i>	
Animal	Insect-Aquatic	a small minnow mayfly	<i>Baetopus trishae</i>	
Animal	Insect-Aquatic	Benfield's Bearded Small Minnow Mayfly	<i>Barbaetis benfieldi</i>	
Animal	Insect-Aquatic	Ocellated Darner	<i>Boyeria grafiana</i>	
Animal	Insect-Aquatic	Cancelled Long-horned Caddisfly	<i>Ceraclea cancellata</i>	
Animal	Insect-Aquatic	Chalk-fronted Corporal	<i>Ladona julia</i>	
Animal	Insect-Aquatic	Mountain River Cruiser	<i>Macromia margarita</i>	
Animal	Insect-Aquatic	Mount Mitchell Caddisfly	<i>Manophylax altus</i>	
Animal	Insect-Aquatic	Smokies Needlefly	<i>Megaleuctra williamsae</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Insect-Aquatic	Edmund's Snaketail	<i>Ophiogomphus edundo</i>	SCC
Animal	Insect-Aquatic	Pygmy Snaketail	<i>Ophiogomphus howei</i>	
Animal	Insect-Aquatic	Appalachian Snaketail	<i>Ophiogomphus incurvatus</i>	
Animal	Insect-Aquatic	Maine Snaketail	<i>Ophiogomphus mainensis</i>	SCC
Animal	Insect-Aquatic	Lofty Microcaddisfly	<i>Palaeagapetus celsus</i>	
Animal	Insect-Aquatic	Friendly Free-living Caddisfly	<i>Rhyacophila amicus</i>	SCC
Animal	Insect-Aquatic	Marked Free-living Caddisfly	<i>Rhyacophila vibox</i>	
Animal	Insect-Aquatic	Cherokee Clubtail	<i>Stenogomphus consanguis</i>	
Animal	Insect-Aquatic	Smokies Forestfly	<i>Zapada chila</i>	
Animal	Insect-Terrestrial	Rusty-patched Bumblebee	<i>Bombus affinis</i>	T&E
Animal	Insect-Terrestrial	Variable Cuckoo Bumblebee	<i>Bombus bariabilis</i>	
Animal	Insect-Terrestrial	American Bumblebee	<i>Bombus pennsylvanicus</i>	
Animal	Insect-Terrestrial	Yellow-banded Bumblebee	<i>Bombus terricola</i>	
Animal	Insect-Terrestrial	Half Black Bumblebee	<i>Bombus vagans</i>	
Animal	Insect-Terrestrial	Dusky Azure	<i>Celastrina nigra</i>	
Animal	Insect-Terrestrial	Gorgone Checkerspot	<i>Chlosyne gorgone</i>	
Animal	Insect-Terrestrial	Monarch	<i>Danaus plexippus</i>	
Animal	Insect-Terrestrial	Early Hairstreak	<i>Erora laeta</i>	
Animal	Insect-Terrestrial	Mottled Duskywing	<i>Erynnis martialis</i>	
Animal	Insect-Terrestrial	Milne's Looper Moth	<i>Euchlaena milnei</i>	
Animal	Insect-Terrestrial	Olympia Marble	<i>Euchloe olympia</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Insect-Terrestrial	Mary Alice's Small-headed Fly	<i>Eulonchus marialiciae</i>	SCC
Animal	Insect-Terrestrial	Baltimore Checkerspot	<i>Euphydryas phaeton</i>	
Animal	Insect-Terrestrial	Fingered Lemmeria Moth	<i>Lemmeria digitalis</i>	
Animal	Insect-Terrestrial	Slender-bodied Spout-throat Grasshopper	<i>Melanoplus attenuatus</i>	
Animal	Insect-Terrestrial	Divergent Melanoplus	<i>Melanoplus divergens</i>	
Animal	Insect-Terrestrial	Nubile Short-wing Grasshopper	<i>Melanoplus nubilus</i>	
Animal	Insect-Terrestrial	Serrulate Melanoplus	<i>Melanoplus serrulatus</i>	
Animal	Insect-Terrestrial	an owlet moth	<i>Meropleon diversicolor sullivanii</i>	
Animal	Insect-Terrestrial	American Burying Beetle	<i>Nicrophorus americanus</i>	
Animal	Insect-Terrestrial	Giant Swallowtail	<i>Papilio cressphontes</i>	
Animal	Insect-Terrestrial	Appalachian Tawny Crescent	<i>Phyciodes batesii maconensis</i>	SCC
Animal	Insect-Terrestrial	Smyth's Green Comma	<i>Polygonia faunus smythi</i>	
Animal	Insect-Terrestrial	Gray Comma	<i>Polygonia progne</i>	
Animal	Insect-Terrestrial	Appalachian Grizzled Skipper	<i>Pyrgus wyandot</i>	
Animal	Insect-Terrestrial	Hickory Hairstreak	<i>Satyrium caryaevorus</i>	
Animal	Insect-Terrestrial	Edwards' Hairstreak	<i>Satyrium edwardsii</i>	
Animal	Insect-Terrestrial	Northern Bush Katydid	<i>Scudderia septentrionalis</i>	
Animal	Insect-Terrestrial	Cullasaja Aphrodite Fritillary	<i>Speyeria aphrodite cullasaja</i>	SCC
Animal	Insect-Terrestrial	Diana Fritillary	<i>Speyeria diana</i>	
Animal	Insect-Terrestrial	Regal Fritillary	<i>Speyeria idalia</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Insect-Terrestrial	Golden-banded Skipper	<i>Telegonus (Autochton) cellus</i>	
Animal	Insect-Terrestrial	a carabid beetle	<i>Trechus carolinae</i>	
Animal	Insect-Terrestrial	Unicoi Mountains Ground Beetle	<i>Trechus lucentus unicoi</i>	
Animal	Insect-Terrestrial	Mitchell's Ground Beetle	<i>Trechus mitchellensis</i>	
Animal	Insect-Terrestrial	Rosenberg's Ground Beetle	<i>Trechus rosenbergi</i>	
Animal	Insect-Terrestrial	a carabid beetle	<i>Trechus satanicus</i>	
Animal	Insect-Terrestrial	Lichen Grasshopper	<i>Trimerotropis saxatalis</i>	
Animal	Mammal	Elk	<i>Cervus elaphus</i>	
Animal	Mammal	Rafinesque's Big-eared Bat (mountain subspecies)	<i>Corynorhinus rafinesquii rafinesquii</i>	SCC
Animal	Mammal	Virginia Big-eared Bat	<i>Corynorhinus townsendii virginianus</i>	T&E
Animal	Mammal	Big Brown Bat	<i>Eptesicus fuscus</i>	SCC
Animal	Mammal	Carolina Northern Flying Squirrel	<i>Glaucomys sabrinus coloratus</i>	T&E
Animal	Mammal	Southern Rock Vole	<i>Microtus chrotorrhinus carolinensis</i>	
Animal	Mammal	Least Weasel	<i>Mustela nivalis</i>	
Animal	Mammal	Gray Myotis (Gray Bat)	<i>Myotis grisescens</i>	T&E
Animal	Mammal	Eastern Small-footed Myotis	<i>Myotis leibii</i>	SCC
Animal	Mammal	Little Brown Myotis (Little Brown Bat)	<i>Myotis lucifugus</i>	SCC
Animal	Mammal	Northern Long-eared Bat (Northern Myotis)	<i>Myotis septentrionalis</i>	T&E

Group	Type	Common Name	Scientific Name	Status
Animal	Mammal	Indiana Myotis (Indiana Bat)	<i>Myotis sodalis</i>	T&E
Animal	Mammal	Southern Appalachian Woodrat	<i>Neotoma floridana haematoria</i>	
Animal	Mammal	Alleghany Woodrat	<i>Neotoma magister</i>	SCC
Animal	Mammal	White-tailed Deer	<i>Odocoileus virginianus</i>	Focal
Animal	Mammal	Tri-colored Bat	<i>Perimyotis subflavus</i>	SCC
Animal	Mammal	Eastern Cougar	<i>Puma concolor cougar</i>	
Animal	Mammal	Eastern Water Shrew (Southern Water Shrew)	<i>Sorex albibarbis (Sorex palustris punctulatus)</i>	SCC
Animal	Mammal	Appalachian Cottontail	<i>Sylvilagus obscurus</i>	SCC
Animal	Mammal	American Black Bear	<i>Ursus americanus</i>	Focal
Animal	Mollusk-Aquatic	Appalachian Elktoe	<i>Alasmidonta raveneliana</i>	T&E
Animal	Mollusk-Aquatic	Carolina Elktoe	<i>Alasmidonta robusta</i>	
Animal	Mollusk-Aquatic	Brook Floater	<i>Alasmidonta varicosa</i>	SCC
Animal	Mollusk-Aquatic	Slippershell Mussel	<i>Alasmidonta viridis</i>	SCC
Animal	Mollusk-Aquatic	Christy's Elimia	<i>Elimia christyi</i>	SCC
Animal	Mollusk-Aquatic	Spike	<i>Eurynia (Elliptio) dilatata</i>	
Animal	Mollusk-Aquatic	Longsolid	<i>Fusconaia subrotunda</i>	
Animal	Mollusk-Aquatic	Wavy-rayed Lampmussel	<i>Lampsilis fasciola</i>	SCC
Animal	Mollusk-Aquatic	Tennessee Heelsplitter	<i>Lasmigona holstonia</i>	
Animal	Mollusk-Aquatic	Smooth Mudalia	<i>Leptoxis virgata</i>	
Animal	Mollusk-Aquatic	Cumberland Moccasinshell	<i>Medionidus conradicus</i>	
Animal	Mollusk-Aquatic	Littlewing Pearlymussel	<i>Pegias fabula</i>	T&E

Group	Type	Common Name	Scientific Name	Status
Animal	Mollusk-Aquatic	Tennessee Clubshell	<i>Pleurobema oviforme</i>	SCC
Animal	Mollusk-Aquatic	Dainty Hornsnail	<i>Pleurocera parva</i>	
Animal	Mollusk-Aquatic	Tennessee Pigtoe	<i>Pleuronaia (Fusconaia) barnesiana</i>	SCC
Animal	Mollusk-Aquatic	Pink Heelsplitter	<i>Potamilus alatus</i>	
Animal	Mollusk-Aquatic	Kidneyshell	<i>Ptychobranchnus fasciolaris</i>	
Animal	Mollusk-Aquatic	Creeper	<i>Strophitus undulatus</i>	
Animal	Mollusk-Aquatic	Purple Lilliput	<i>Toxolasma lividum</i>	
Animal	Mollusk-Aquatic	Savannah Lilliput	<i>Toxolasma pullus</i>	
Animal	Mollusk-Aquatic	Tennessee Bean	<i>Venustaconcha (Villosa) trabalis</i>	T&E
Animal	Mollusk-Aquatic	Notched Rainbow	<i>Villosa constricta</i>	
Animal	Mollusk-Aquatic	Eastern Creekshell	<i>Villosa delumbis</i>	
Animal	Mollusk-Aquatic	Rainbow Mussel	<i>Villosa iris</i>	
Animal	Mollusk-Aquatic	Mountain Creekshell	<i>Villosa vanuxemensis</i>	SCC
Animal	Mollusk-Terrestrial	Appalachian Thorn	<i>Carychium clappi</i>	
Animal	Mollusk-Terrestrial	Obese Thorn	<i>Carychium exiguum</i>	
Animal	Mollusk-Terrestrial	File Thorn	<i>Carychium nannodes</i>	
Animal	Mollusk-Terrestrial	Snowhill Ambersnail	<i>Catinella hubrichti</i>	
Animal	Mollusk-Terrestrial	Sawtooth Disc	<i>Discus bryanti</i>	
Animal	Mollusk-Terrestrial	Mountain Pillsnail	<i>Euchemotrema fasciatum</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Mollusk-Terrestrial	Rock-loving Covert	<i>Fumonelix cherohalaensis</i>	
Animal	Mollusk-Terrestrial	Summit Covert	<i>Fumonelix clingmanica</i>	
Animal	Mollusk-Terrestrial	Big-tooth Covert	<i>Fumonelix jonesiana</i>	
Animal	Mollusk-Terrestrial	Talus Covert	<i>Fumonelix langdoni</i>	
Animal	Mollusk-Terrestrial	Engraved Covert	<i>Fumonelix orestes</i>	
Animal	Mollusk-Terrestrial	Roan Mountain Covert	<i>Fumonelix roanensis</i>	
Animal	Mollusk-Terrestrial	Cinnamon Covert	<i>Fumonelix wheatleyi</i>	
Animal	Mollusk-Terrestrial	Clingman Covert	<i>Fumonelix wheatleyi clingmanicus</i>	
Animal	Mollusk-Terrestrial	Dark Glyph	<i>Glyphyalinia junaluskana</i>	
Animal	Mollusk-Terrestrial	Furrowed Glyph	<i>Glyphyalinia luticola</i>	
Animal	Mollusk-Terrestrial	Pink Glyph	<i>Glyphyalinia pentadelphia</i>	
Animal	Mollusk-Terrestrial	Spiral Coil	<i>Helicodiscus bonamicus</i>	SCC
Animal	Mollusk-Terrestrial	Fringed Coil	<i>Helicodiscus fimbriatus</i>	
Animal	Mollusk-Terrestrial	Twilight Coil	<i>Helicodiscus multidentis</i>	
Animal	Mollusk-Terrestrial	Talus Coil	<i>Helicodiscus triodus</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Animal	Mollusk-Terrestrial	Smoky Mountain Covert	<i>Inflectarius ferrissi</i>	
Animal	Mollusk-Terrestrial	Velvet Covert	<i>Inflectarius subpalliatius</i>	SCC
Animal	Mollusk-Terrestrial	Fuzzy Covert	<i>Inflectarius verus</i>	
Animal	Mollusk-Terrestrial	Wandering Globe	<i>Mesodon altivagus</i>	
Animal	Mollusk-Terrestrial	Balsam Globe	<i>Mesodon andrewsae</i>	
Animal	Mollusk-Terrestrial	Sealed Globelet Snail	<i>Mesodon mitchellianus</i>	
Animal	Mollusk-Terrestrial	Mountain Button	<i>Mesomphix andrewsae</i>	
Animal	Mollusk-Terrestrial	Broad Button	<i>Mesomphix latior</i>	
Animal	Mollusk-Terrestrial	Black Mantleslug	<i>Pallifera hemphilli</i>	
Animal	Mollusk-Terrestrial	High Mountain Supercoil	<i>Paravitrea andrewsae</i>	SCC
Animal	Mollusk-Terrestrial	Mirey Ridge Supercoil	<i>Paravitrea clappi</i>	
Animal	Mollusk-Terrestrial	Ramp Cove Supercoil	<i>Paravitrea lacteodons</i>	
Animal	Mollusk-Terrestrial	Lamellate Supercoil	<i>Paravitrea lamellidens</i>	
Animal	Mollusk-Terrestrial	Glossy Supercoil	<i>Paravitrea placentula</i>	
Animal	Mollusk-Terrestrial	Sculpted Supercoil	<i>Paravitrea ternaria</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Animal	Mollusk-Terrestrial	Open Supercoil	<i>Paravitrea umbilicaris</i>	
Animal	Mollusk-Terrestrial	Roan Supercoil	<i>Paravitrea varidens</i>	SCC
Animal	Mollusk-Terrestrial	Dwarf Proud Globe	<i>Patera clarki clarki</i>	
Animal	Mollusk-Terrestrial	Noonday Globe	<i>Patera clarki nantahala</i>	T&E
Animal	Mollusk-Terrestrial	Fragile Glyph	<i>Pilsbryna (Glyphyalinia) clingmani</i>	SCC
Animal	Mollusk-Terrestrial	Oar Tooth Bud	<i>Pilsbryna nadopalma</i>	
Animal	Mollusk-Terrestrial	Honey Glyph	<i>Pilsbryna vanattai</i>	
Animal	Mollusk-Terrestrial	Appalachian Scrubsnail	<i>Praticolella lawae</i>	
Animal	Mollusk-Terrestrial	Great Smoky Slitmouth	<i>Stenotrema depilatum</i>	
Animal	Mollusk-Terrestrial	Crinkled Ambersnail	<i>Succinea campestris</i>	
Animal	Mollusk-Terrestrial	Squatty Ambersnail	<i>Succinea unicolor</i>	
Animal	Mollusk-Terrestrial	Golden Ambersnail	<i>Succinea wilsoni</i>	
Animal	Mollusk-Terrestrial	Budded Threetooth	<i>Triodopsis tennesseensis</i>	
Animal	Mollusk-Terrestrial	Golden Dome	<i>Ventridens arcellus</i>	
Animal	Mollusk-Terrestrial	Bidentate dome	<i>Ventridens coelaxis</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Mollusk-Terrestrial	Sculptured Dome	<i>Ventridens collisella</i>	
Animal	Mollusk-Terrestrial	Hollow Dome	<i>Ventridens lasmodon</i>	
Animal	Mollusk-Terrestrial	Flat Dome Snail	<i>Ventridens suppressus</i>	
Animal	Mollusk-Terrestrial	Delicate Vertigo Snail	<i>Vertigo bollesiana</i>	
Animal	Mollusk-Terrestrial	Smallmouth Vertigo	<i>Vertigo parvula</i>	
Animal	Mollusk-Terrestrial	a vertigo snail	<i>Vertigo sp. 3</i>	
Animal	Mollusk-Terrestrial	Blunt Wedge	<i>Xolotrema caroliniense</i>	
Animal	Mollusk-Terrestrial	Appalachian Gloss	<i>Zonitoides patuloides</i>	
Animal	Reptile	Eastern Spiny Softshell	<i>Apalone spinifera spinifera</i>	
Animal	Reptile	Timber Rattlesnake	<i>Crotalus horridus</i>	
Animal	Reptile	Coal Skink	<i>Eumeces anthracinus</i>	
Animal	Reptile	Bog Turtle	<i>Glyptemys muhlenbergii</i>	SCC
Animal	Reptile	Common Map Turtle	<i>Graptemys geographica</i>	
Animal	Reptile	Eastern Milksnake	<i>Lampropeltis triangulum triangulum</i>	
Animal	Reptile	Eastern Slender Glass Lizard	<i>Ophisaurus attenuatus longicaudus</i>	
Animal	Reptile	Northern Pinesnake	<i>Pituophis melanoleucus</i>	
Animal	Reptile	Queen Snake	<i>Regina septemvittata</i>	
Animal	Reptile	Loggerhead Musk Turtle	<i>Sternotherus minor</i>	

Group	Type	Common Name	Scientific Name	Status
Animal	Reptile	Eastern Box Turtle	<i>Terrapene carolina</i>	
Animal	Reptile	Cumberland Slider	<i>Trachemys scripta troostii</i>	
Animal	Reptile	Eastern Smooth Earthsnake	<i>Virginia valeriae</i>	
Plant	Nonvascular Plant	Fontana Lichen	<i>Acanthothecis fontana</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Acrobolbus ciliatus</i>	SCC
Plant	Nonvascular Plant	Mougeot's Yoke Moss	<i>Amphidium mougeotii</i>	
Plant	Nonvascular Plant	Knothole Moss	<i>Anacamptodon splachnoides</i>	
Plant	Nonvascular Plant	A Foliose Lichen	<i>Anaptychia crinalis</i>	
Plant	Nonvascular Plant	Liverwort	<i>Anastrophyllum saxicola</i>	
Plant	Nonvascular Plant	Black Falcate Split Moss	<i>Andreaea rothii var. rothii</i>	
Plant	Nonvascular Plant	Rock Split Moss	<i>Andreaea rupestris</i>	
Plant	Nonvascular Plant	A Liiverwort	<i>Aneura sharpii</i>	SCC
Plant	Nonvascular Plant	Common Silver Moss	<i>Anomobryum julaceum</i>	
Plant	Nonvascular Plant	Foliose lichen	<i>Anzia americana</i>	SCC
Plant	Nonvascular Plant	Tokyo Soil Moss	<i>Archidium ohioense</i>	
Plant	Nonvascular Plant	Golden Spruce Dots	<i>Arthonia cupressina</i>	
Plant	Nonvascular Plant	Mountain Red Dot Lichen	<i>Arthonia kermesia</i>	SCC
Plant	Nonvascular Plant	Ol' Birch Spots	<i>Arthopyrenia betulicola</i>	SCC
Plant	Nonvascular Plant	Delgelius Spots	<i>Arthopyrenia degelii</i>	SCC
Plant	Nonvascular Plant	A Catherinea Moss	<i>Atrichum altecristatum</i>	
Plant	Nonvascular Plant	A Catherinea Moss	<i>Atrichum tenellum</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Barbilophozia attenuata</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Barbilophozia hatcheri</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Small Twist Teeth Moss	<i>Barbula indica var. indica</i>	
Plant	Nonvascular Plant	Dwarf Apple Moss	<i>Bartramidula wilsonii</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Bazzania nudicaulis</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Brachelyma subulatum</i>	
Plant	Nonvascular Plant	Peak moss	<i>Brachydontium trichodes</i>	SCC
Plant	Nonvascular Plant	Northern Shorthusk	<i>Brachyelytrum aristosum</i>	
Plant	Nonvascular Plant	Anderson's Melon-moss	<i>Brachymenium andersonii</i>	
Plant	Nonvascular Plant	Mexican Melon-moss	<i>Brachymenium systylium</i>	
Plant	Nonvascular Plant	Sprawling Grass Moss	<i>Brachythecium oedipodium</i>	
Plant	Nonvascular Plant	Rusty Feather Moss	<i>Brachythecium plumosum</i>	
Plant	Nonvascular Plant	Reflexed Feather Moss	<i>Brachythecium reflexum</i>	
Plant	Nonvascular Plant	Rota's Feather Moss	<i>Brachythecium rotaeanum</i>	SCC
Plant	Nonvascular Plant	Rough-stalked Feather Moss	<i>Brachythecium rutabulum</i>	
Plant	Nonvascular Plant	Smooth-stalked	<i>Brachythecium salebrosum</i>	
Plant	Nonvascular Plant	Velvet Moss	<i>Brachythecium velutinum</i>	
Plant	Nonvascular Plant	Boar Moss	<i>Brothera leana</i>	
Plant	Nonvascular Plant	Arrowhead Moss	<i>Bryhnia novae-angliae</i>	
Plant	Nonvascular Plant	Gorge Moss	<i>Bryocrumia vivicolor</i>	
Plant	Nonvascular Plant	Moss	<i>Bryoerythrophyllum ferruginascens</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Bryoerythrophyllum inaequalifolium</i>	
Plant	Nonvascular Plant	A Red Foot Moss	<i>Bryoerythrophyllum recurvirostrum</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Sword Moss	<i>Bryoxiphium norvegicum</i>	SCC
Plant	Nonvascular Plant	Riverside Bryum	<i>Bryum riparium</i>	
Plant	Nonvascular Plant	Evelyn's Buttons	<i>Buellia sharpiana</i>	
Plant	Nonvascular Plant	Bug-on-a-stick moss	<i>Buxbaumia minakatae</i>	
Plant	Nonvascular Plant	Paradoxical Campylopsus	<i>Campylopsus paradoxus</i>	
Plant	Nonvascular Plant	Black Fish Hook Moss	<i>Campylopus atrovirens var. atrovirens</i>	SCC
Plant	Nonvascular Plant	Sandstone Grimmia	<i>Camylostelium saxicola</i>	
Plant	Nonvascular Plant	Worthy Shield Lichen	<i>Canoparmelia amabilis</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Cephalozia macrostachya ssp. Australis</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Cephalozia pleniceps var. carolinana</i>	
Plant	Nonvascular Plant	Liverwort	<i>Cephaloziella massalongi</i>	
Plant	Nonvascular Plant	Roundleaf Liverwort	<i>Cephaloziella obtusilobula</i>	
Plant	Nonvascular Plant	Liverwort	<i>Cephaloziella spinicaulis</i>	SCC
Plant	Nonvascular Plant	Sand-loving Iceland Lichen	<i>Cetraria arenaria</i>	
Plant	Nonvascular Plant	Sea Storm Lichen	<i>Cetrelia cetrarioides</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Cheilolejeunea evansii</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Cirriphyllum piliferum</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Cololejeunea ornata</i>	
Plant	Nonvascular Plant	Cynodontium Moss	<i>Cynodontium schisti</i>	
Plant	Nonvascular Plant	Pygmy Cyrto-hypnum Moss	<i>Cyrto-hypnum pygmaeum</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Dichodontium pellucidum</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Variable Fork Moss	<i>Dicranella varia</i>	
Plant	Nonvascular Plant	Thin-rib Curved-tail Moss	<i>Dicranum bonjeanii</i>	
Plant	Nonvascular Plant	Fuscous Moss	<i>Dicranum fuscescens</i>	
Plant	Nonvascular Plant	Rusty Fork Moss	<i>Dicranum spurium</i>	
Plant	Nonvascular Plant	Bog Broom-moss	<i>Dicranum undulatum</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum andrewsii</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum apiculatum</i> var. <i>taxifolioides</i>	
Plant	Nonvascular Plant	Liverwort	<i>Diplophyllum obtusatum</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum taxifolium</i> var. <i>mucronatum</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum taxifolium</i> var. <i>taxifolium</i>	
Plant	Nonvascular Plant	Ambiguous Ditrichium	<i>Ditrichum ambiguum</i>	SCC
Plant	Nonvascular Plant	Golden Tread Moss	<i>Ditrichum rhynchostegium</i>	SCC
Plant	Nonvascular Plant	Liverwort	<i>Drepanolejeunea appalachiana</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Dumortiera hirsuta</i> ssp. <i>Nepalensis</i>	
Plant	Nonvascular Plant	Extinguisher Moss	<i>Encalypta procera</i>	SCC
Plant	Nonvascular Plant	Flattened Entodon	<i>Entodon compressus</i>	SCC
Plant	Nonvascular Plant	Sullivant's entodon	<i>Entodon sullivantii</i>	SCC
Plant	Nonvascular Plant	A Fructicose Lichen	<i>Ephebe americana</i>	
Plant	Nonvascular Plant	A Fructicose Lichen	<i>Ephebe lanata</i>	
Plant	Nonvascular Plant	Fructicose lichen	<i>Ephebe solida</i>	
Plant	Nonvascular Plant	A False Crushed-rice Moss	<i>Fabronia ciliaris</i> var. <i>polycarpa</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Erin's Fellhanera	<i>Fellhanera erinia</i>	
Plant	Nonvascular Plant	Piedmont Crustose Lichen	<i>Fellhanera hybrida</i>	SCC
Plant	Nonvascular Plant	Smoky Mountain Crustose Lichen	<i>Fellhanera montesfumosi</i>	
Plant	Nonvascular Plant	Maiden Hair Moss	<i>Fissidens adianthoides</i>	
Plant	Nonvascular Plant	Appalachian pocket moss	<i>Fissidens appalachensis</i>	
Plant	Nonvascular Plant	A Plume Moss	<i>Fissidens elegans</i>	
Plant	Nonvascular Plant	Water Pocket Moss	<i>Fissidens fontanus</i>	
Plant	Nonvascular Plant	A Water Moss	<i>Fontinalis flaccida</i>	
Plant	Nonvascular Plant	A Water Moss	<i>Fontinalis sphagnifolia</i>	SCC
Plant	Nonvascular Plant	A Water Moss	<i>Fontinalis sullivantii</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Frullania appalachiana</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Frullania oakesiana</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Frullania plana</i>	
Plant	Nonvascular Plant	Sterling Lips	<i>Graphis sterlingiana</i>	SCC
Plant	Nonvascular Plant	A Beard Moss	<i>Grimmia olneyi</i>	
Plant	Nonvascular Plant	A Leaf Lichen	<i>Gyalectidium appendiculatum</i>	
Plant	Nonvascular Plant	Rock Gnome Lichen	<i>Gymnoderma lineare</i>	T&E
Plant	Nonvascular Plant	Coiled Moss	<i>Herpetineuron tocoae</i>	
Plant	Nonvascular Plant	Flat Stump Moss	<i>Herzogiella turfacea</i>	SCC
Plant	Nonvascular Plant	Foliose lichen	<i>Heterodermia appalachensis</i>	SCC
Plant	Nonvascular Plant	A Centipede Lichen	<i>Heterodermia erecta</i>	
Plant	Nonvascular Plant	A Centipede Lichen	<i>Heterodermia pseudospeciosa</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Lime Homalia	<i>Homalia trichomanoides</i>	SCC
Plant	Nonvascular Plant	Sharp's homaliadelphus	<i>Homaliadelphus sharpii</i>	SCC
Plant	Nonvascular Plant	ColchÃ³n de pobre	<i>Huperzia acerosa</i>	
Plant	Nonvascular Plant	Appalachian fir clubmoss	<i>Huperzia appalachiana</i>	
Plant	Nonvascular Plant	Brookside Feather Moss	<i>Hygroamblystegium fluviatile</i>	
Plant	Nonvascular Plant	Closter's brook-hypnum	<i>Hygrohypnum closteri</i>	SCC
Plant	Nonvascular Plant	Shaded Feather Moss	<i>Hylocomiastrum umbratum</i>	
Plant	Nonvascular Plant	A Cedar Moss	<i>Hypnum fauriei</i>	
Plant	Nonvascular Plant	A Cedar Moss	<i>Hypnum plicatulum</i>	
Plant	Nonvascular Plant	Meadow Feather Moss	<i>Hypnum pratense</i>	
Plant	Nonvascular Plant	Oosting's Square Britches	<i>Hypotrachyna oostingii</i>	SCC
Plant	Nonvascular Plant	A Foliose Lichen	<i>Hypotrachyna sinuosa</i>	SCC
Plant	Nonvascular Plant	Virginia Square Britches	<i>Hypotrachyna virginica</i>	SCC
Plant	Nonvascular Plant	Masa's Disc Lichen	<i>Lecanora masana</i>	
Plant	Nonvascular Plant	Liverwort	<i>Lejeunea blomquistii</i>	SCC
Plant	Nonvascular Plant	Appalachian Dust Bunnies	<i>Leparia lanata</i>	SCC
Plant	Nonvascular Plant	Grandfather Mountain excelsum	<i>Leptodontium excelsum</i>	SCC
Plant	Nonvascular Plant	Pale-margined Leptodontium	<i>Leptodontium flexifolium</i>	
Plant	Nonvascular Plant	Mount Leconte Moss	<i>Leptohymenium sharpii</i>	SCC
Plant	Nonvascular Plant	Wedge Flapwort	<i>Leptoscyphus cunefolius</i>	SCC
Plant	Nonvascular Plant	Squirrel Tail Moss	<i>Leucodon andrewsianus</i>	
Plant	Nonvascular Plant	Textured Lungwort	<i>Lobaria scrobiculata</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Liverwort	<i>Lophocolea appalachiana</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Lophocolea muricata</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Lophozia capitata</i>	
Plant	Nonvascular Plant	Sullivant's manned-moss	<i>Macrocoma sullivantii</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Mannia triandra</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Marsupella emarginata var. latiloba</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Marsupella funckii</i>	
Plant	Nonvascular Plant	Foliose lichen	<i>Melanelia stygia</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Metzgeria furcata var. setigera</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Metzgeria pubescens</i>	
Plant	Nonvascular Plant	Liverwort	<i>Metzgeria temperata</i>	
Plant	Nonvascular Plant	Liverwort	<i>Metzgeria uncigera</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Metzgeria violacea</i>	
Plant	Nonvascular Plant	Irrigated Rock Lichen	<i>Micareopsis irriguata</i>	
Plant	Nonvascular Plant	A Moss	<i>Micromitrium megalosporum</i>	
Plant	Nonvascular Plant	Double Spots	<i>Mycoproum biseptatum</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Mylia tayorii</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Nardia lescuri</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Nardia scalaris ssp. scalaris</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Nardia scalaris subsp botryoidea</i>	
Plant	Nonvascular Plant	Flat Feather Moss	<i>Neckera complanata</i>	SCC
Plant	Nonvascular Plant	A Hornwort	<i>Nothoceros aenigmaticus</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Coral Saucer Lichen	<i>Ochrolechia yasudae</i>	
Plant	Nonvascular Plant	Andy's Scribble Lichen	<i>Opegrapha moroziana</i>	SCC
Plant	Nonvascular Plant	Drummond Moss	<i>Orotrichum strngulatum</i>	
Plant	Nonvascular Plant	Translucent Orthodontium	<i>Orthodontium pellucens</i>	
Plant	Nonvascular Plant	Drummond Moss	<i>Orthotrichum strangulatum</i>	
Plant	Nonvascular Plant	Pringle's Eurhynchium	<i>Oxyrrhynchium pringlei</i>	
Plant	Nonvascular Plant	Palamocladium	<i>Palamocladium leskeoides</i>	SCC
Plant	Nonvascular Plant	Foliose lichen	<i>Pannaria conoplea</i>	SCC
Plant	Nonvascular Plant	Liverwort	<i>Pellia appalachiana</i> (= <i>Pelia X appalachiana</i>)	
Plant	Nonvascular Plant	Waterfan Lichen	<i>Peltigera hydrothyria</i>	
Plant	Nonvascular Plant	Appalachian Wart Lichen	<i>Pertusaria appalachensis</i>	SCC
Plant	Nonvascular Plant	Dwarf Apple Moss	<i>Philonotis cernua</i>	
Plant	Nonvascular Plant	An Apple Moss	<i>Philonotis longiseta</i>	
Plant	Nonvascular Plant	An Apple Moss	<i>Philonotis marchica</i>	
Plant	Nonvascular Plant	Rosette lichen	<i>Physcia pseudospeciosa</i>	
Plant	Nonvascular Plant	Appalachian Matchsticks	<i>Pilophorus fibula</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Pilosium chlorophyllum</i>	SCC
Plant	Nonvascular Plant	Liverwort	<i>Plagiochila austinii</i>	SCC
Plant	Nonvascular Plant	Liverwort	<i>Plagiochila caduciloba</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila columbiana</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila corniculata</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila echinata</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila ludoviciana</i>	SCC
Plant	Nonvascular Plant	Sharp's Leafy Liverwort	<i>Plagiochila sharpii</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila sullivantii</i> var. <i>spinigera</i>	
Plant	Nonvascular Plant	Sullivant's leafy liverwort	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila undata</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila virginica</i> var. <i>euryphylla</i>	
Plant	Nonvascular Plant	Carolina Star-moss	<i>Plagiomnium carolinianum</i>	SCC
Plant	Nonvascular Plant	Marsh Magnificent Moss	<i>Plagiomnium ellipticum</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila virginica</i> var. <i>virginica</i>	SCC
Plant	Nonvascular Plant	Long-beaked Thread Moss	<i>Plagiomnium rostratum</i>	SCC
Plant	Nonvascular Plant	Varied Rag Lichen	<i>Platismatia glauca</i>	
Plant	Nonvascular Plant	A Moss	<i>Platydictya subtilis</i>	
Plant	Nonvascular Plant	Pringles Water Feather Moss	<i>Platyhypnidium pringlei</i>	SCC
Plant	Nonvascular Plant	Long-beaked Water Feather Moss	<i>Platyhypnidium riparioides</i>	SCC
Plant	Nonvascular Plant	Hair-like Hair-cap	<i>Pogonatum dentatum</i>	SCC
Plant	Nonvascular Plant	Spherical Bulb Nodding Moss	<i>Pohlia lescuriana</i>	SCC
Plant	Nonvascular Plant	Long Neck Nodding Moss	<i>Pohlia longicollis</i>	
Plant	Nonvascular Plant	Pink-fruited Thread Moss	<i>Pohlia melanodon</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	A Moss	<i>Pohlia rabunbaldensis</i>	SCC
Plant	Nonvascular Plant	Alpine Hair Moss	<i>Polytrichastrum alpinum</i>	SCC
Plant	Nonvascular Plant	Appalachian haircap moss	<i>Polytrichum appalachianum</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Porella japonica ssp. Appalachiana</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Porella wataugensis</i>	SCC
Plant	Nonvascular Plant	Boulder Lichen	<i>Porpidia macrocarpa</i>	
Plant	Nonvascular Plant	Boulder Lichen	<i>Porpidia tuberculosa</i>	
Plant	Nonvascular Plant	Twisted Thread Moss	<i>Pterigynandrum filforme</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Ptilidium ciliare</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Ptilidium pulcherrimum</i>	
Plant	Nonvascular Plant	Speckled Shield Lichen	<i>Punctelia reddenda</i>	SCC
Plant	Nonvascular Plant	Many-fruited Feather Moss	<i>Pylaisiella polyantha</i>	
Plant	Nonvascular Plant	Dark Mountain Fringe Moss	<i>Racomitrium aciculare</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Radula sullivantii</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Radula tenax</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Radula voluta</i>	SCC
Plant	Nonvascular Plant	Smaller Fern Moss	<i>Raiiella scita</i>	
Plant	Nonvascular Plant	A Liverwort	<i>Reboulia hemisphaerica ssp. Dioica</i>	
Plant	Nonvascular Plant	Himalayan Ribbed-weissia	<i>Rhabdoweisia crenulata</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Rhytidadelphus subpinnatus</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	Golden Tundra-moss	<i>Rhytidium rugosum</i>	SCC
Plant	Nonvascular Plant	Liverwort	<i>Riccardia jugata</i>	SCC
Plant	Nonvascular Plant	Brodo's Pepperpot	<i>Rinodina brodana</i>	SCC
Plant	Nonvascular Plant	Yellow Pepper Spores	<i>Rinodina chrysomeleana</i>	
Plant	Nonvascular Plant	Highlands Moss	<i>Schlotheimia lancifolia</i>	SCC
Plant	Nonvascular Plant	Agoyan Cataract Moss	<i>Scopelophila cataractae</i>	SCC
Plant	Nonvascular Plant	Copper Moss	<i>Scopelophila ligulata</i>	SCC
Plant	Nonvascular Plant	Narrowleaf Peatmoss	<i>Sphagnum angustifolium</i>	SCC
Plant	Nonvascular Plant	Northern Peatmoss	<i>Sphagnum capillifolium</i>	SCC
Plant	Nonvascular Plant	Pretty peatmoss	<i>Sphagnum fallax</i>	
Plant	Nonvascular Plant	Peatmoss	<i>Sphagnum flavicomans</i>	
Plant	Nonvascular Plant	Flexuous Peatmoss	<i>Sphagnum flexuosum</i>	SCC
Plant	Nonvascular Plant	Brown Peatmoss	<i>Sphagnum fuscum</i>	
Plant	Nonvascular Plant	Henry's Peatmoss	<i>Sphagnum henryense</i>	
Plant	Nonvascular Plant	Simple Peatmoss	<i>Sphagnum pylaesii</i>	SCC
Plant	Nonvascular Plant	Russow's peatmoss	<i>Sphagnum russowii</i>	SCC
Plant	Nonvascular Plant	Squarrose Peatmoss	<i>Sphagnum squarrosum</i>	SCC
Plant	Nonvascular Plant	Orange Peatmoss	<i>Sphagnum subsecundum</i>	
Plant	Nonvascular Plant	A Peatmoss	<i>Sphagnum subtile</i>	
Plant	Nonvascular Plant	Delicate Peatmoss	<i>Sphagnum tenellum</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Sphenobolopsis pearsonii</i>	SCC
Plant	Nonvascular Plant	Tennessee Twist	<i>Stereocaulon tennesseense</i>	SCC
Plant	Nonvascular Plant	Powdered Moon Lichen	<i>Sticta limbata</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Nonvascular Plant	A Liverwort	<i>Taxilejeunea sharpii</i>	SCC
Plant	Nonvascular Plant	Japanese Yew-moss	<i>Taxiphyllum alternans</i>	SCC
Plant	Nonvascular Plant	Little Georgia moss	<i>Tetradontium brownianum</i>	
Plant	Nonvascular Plant	Hokkaido Fern Moss	<i>Thuidium recognitum</i>	
Plant	Nonvascular Plant	Ammon's Tortula	<i>Tortula ammonsiana</i>	SCC
Plant	Nonvascular Plant	A Liverwort	<i>Tritomaria exsectiformis</i> ssp. <i>Exsectiformis</i>	
Plant	Nonvascular Plant	Old Man's Beard	<i>Usnea angulata</i>	SCC
Plant	Nonvascular Plant	Floating Sickle-moss	<i>Warnstorfia fluitans</i>	SCC
Plant	Nonvascular Plant	Xanthoparmelia lichen	<i>Xanthoparmelia monticola</i>	SCC
Plant	Nonvascular Plant	A Moss	<i>Zygodon viridissimus</i> var. <i>rupestris</i>	
Plant	Vascular Plant	Fraser fir	<i>Abies fraseri</i>	SCC
Plant	Vascular Plant	Black Maple	<i>Acer nigrum</i>	
Plant	Vascular Plant	white monkshood	<i>Aconitum reclinatum</i>	
Plant	Vascular Plant	Climbing fumatory	<i>Adlumia fungosa</i>	SCC
Plant	Vascular Plant	Piedmont Gerardia	<i>Agalinis decemloba</i>	
Plant	Vascular Plant	Yellow Giant-hyssop	<i>Agastache nepetoides</i>	SCC
Plant	Vascular Plant	Arctic Bentgrass	<i>Agrostis mertensii</i>	
Plant	Vascular Plant	Bubbling Witch's Hair	<i>Alectoria fallacina</i>	
Plant	Vascular Plant	Allegheny Onion	<i>Allium allegheniensis</i>	SCC
Plant	Vascular Plant	Red Ramps	<i>Allium tricoccum</i>	
Plant	Vascular Plant	Green Alder	<i>Alnus viridis</i> ssp <i>crispa</i>	SCC
Plant	Vascular Plant	Roundleaf Serviceberry	<i>Amelanchier sanguinea</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Heartleaf Peppervine	<i>Ampelopsis cordata</i>	
Plant	Vascular Plant	Dwarf Thimble-weed	<i>Anemone minima</i>	
Plant	Vascular Plant	Purple-stem Angelica	<i>Angelica atropurpurea</i>	
Plant	Vascular Plant	Lyre-leaved Rockcress	<i>Arabidopsis lyrata</i>	
Plant	Vascular Plant	Tower Mustard	<i>Arabis glabra</i>	SCC
Plant	Vascular Plant	Porter's Rockcress	<i>Arabis laevigata var. burkii</i>	
Plant	Vascular Plant	Spreading rockcress	<i>Arabis patens</i>	SCC
Plant	Vascular Plant	Hairy Rockcress	<i>Arabis pycnocarpa var. addressipilis</i>	
Plant	Vascular Plant	Dragon's mouth	<i>Arethusa bulbosa</i>	SCC
Plant	Vascular Plant	Bog Jack-in-the-Pulpit	<i>Arisaema triphyllum ssp. stewardsonii</i>	
Plant	Vascular Plant	Purple Chokeberry	<i>Aronia prunifolia</i>	
Plant	Vascular Plant	Rose's Heartleaf	<i>Asaram rosei</i>	SCC
Plant	Vascular Plant	Purple Milkweed	<i>Asclepias purpurascens</i>	
Plant	Vascular Plant	Bradley's Spleenwort	<i>Asplenium bradleyi</i>	SCC
Plant	Vascular Plant	Single-Sorus Spleenwort	<i>Asplenium monanthes</i>	SCC
Plant	Vascular Plant	Lobed Spleenwort	<i>Asplenium pinnatifidum</i>	SCC
Plant	Vascular Plant	Black-stem Spleenwort	<i>Asplenium resiliens</i>	
Plant	Vascular Plant	Wall-rue	<i>Asplenium ruta-muraria</i>	SCC
Plant	Vascular Plant	Northern Lady Fern	<i>Athyrium angustum</i>	SCC
Plant	Vascular Plant	Thin-pod White Wild Indigo	<i>Baptisia albescens</i>	
Plant	Vascular Plant	Creamy Wild Indigo	<i>Baptisia bracteata</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Twining Screwstem	<i>Bartonia paniculata ssp. Paniculata</i>	
Plant	Vascular Plant	American barberry	<i>Berberis canadensis</i>	SCC
Plant	Vascular Plant	mountain paper birch	<i>Betula cordifolia</i>	SCC
Plant	Vascular Plant	Margarita, Romerillo	<i>Bidens alba var. radiata</i>	
Plant	Vascular Plant	Coastal Plain Tickseed	<i>Bidens mitis</i>	
Plant	Vascular Plant	Sharp-pointed Weissia	<i>Blindia acuta</i>	
Plant	Vascular Plant	Porter's Rockcress	<i>Boechera burkii</i>	
Plant	Vascular Plant	Dixie Grapefern	<i>Botrychium jenmanii</i>	
Plant	Vascular Plant	Lance-leaf Moonwort	<i>Botrychium lanceolatum var. angustisegmentum</i>	SCC
Plant	Vascular Plant	Daisy-leaf Moonwort	<i>Botrychium matricariifolium</i>	SCC
Plant	Vascular Plant	Leathery Grape Fern	<i>Botrychium multifidum</i>	SCC
Plant	Vascular Plant	Blunt-lobed grape fern	<i>Botrychium oneidense</i>	SCC
Plant	Vascular Plant	Least Moonwort	<i>Botrychium simplex var. simplex</i>	SCC
Plant	Vascular Plant	Sideoats Grama Grass	<i>Bouteloua curtipendula var. curtipendula</i>	SCC
Plant	Vascular Plant	Brook Saxifrage	<i>Boykinia aconitifolia</i>	
Plant	Vascular Plant	fringed brome grass	<i>Bromus ciliatus</i>	SCC
Plant	Vascular Plant	Riverbank Brome	<i>Bromus latiglumis</i>	
Plant	Vascular Plant	American Bluehearts	<i>Buchnera americana</i>	SCC
Plant	Vascular Plant	Piratebush	<i>Buckleya distichophylla</i>	SCC
Plant	Vascular Plant	Cain's Reedgrass	<i>Calamagrostis cainii</i>	
Plant	Vascular Plant	Canada Reedgrass	<i>Calamagrostis canadensis var. canadensis</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Porter's Reedgrass	<i>Calamagrostis porteri ssp. Porteri</i>	SCC
Plant	Vascular Plant	Marsh Marigold	<i>Caltha palustris var. palustris</i>	
Plant	Vascular Plant	Eastern Sweetshrub	<i>Calycanthus floridus var. floridus</i>	
Plant	Vascular Plant	Shale Barren Bindweed	<i>Calystegia spithamea ssp. Stans</i>	
Plant	Vascular Plant	Marsh bellflower	<i>Campanula aparinoides var. aparinoides</i>	SCC
Plant	Vascular Plant	American harebell	<i>Campanula rotundifolia</i>	
Plant	Vascular Plant	Mountain Bittercress	<i>Cardamine clematidis</i>	SCC
Plant	Vascular Plant	Mountain Watercress	<i>Cardamine rotundifolia</i>	SCC
Plant	Vascular Plant	White Bear Sedge	<i>Carex albursina</i>	
Plant	Vascular Plant	Bailey's Sedge	<i>Carex baileyi</i>	SCC
Plant	Vascular Plant	Biltmore Sedge	<i>Carex biltmoreana</i>	
Plant	Vascular Plant	Blue Ridge Brome Sedge	<i>Carex bromoides ssp. Montana</i>	
Plant	Vascular Plant	Brown Bog Sedge	<i>Carex buxbaumii</i>	
Plant	Vascular Plant	Carey's Sedge	<i>Carex careyana</i>	SCC
Plant	Vascular Plant	Cherokee Sedge	<i>Carex cherokeensis</i>	SCC
Plant	Vascular Plant	Collin's Sedge	<i>Carex collinsii</i>	
Plant	Vascular Plant	crested sedge	<i>Carex cristatella</i>	
Plant	Vascular Plant	Star Sedge	<i>Carex echinata ssp. Echinata</i>	
Plant	Vascular Plant	Fescue Sedge	<i>Carex festucacea</i>	
Plant	Vascular Plant	Fraser's Sedge	<i>Carex fraseriana</i>	
Plant	Vascular Plant	Hitchcock's sedge	<i>Carex hitchcockiana</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	A Wood Sedge	<i>Carex leavenworthii</i>	
Plant	Vascular Plant	A Wood Sedge	<i>Carex leptonevia</i>	
Plant	Vascular Plant	Appalachian Woodland Sedge	<i>Carex lucorum var. australucorum</i>	
Plant	Vascular Plant	Manhart's Sedge	<i>Carex manhartii</i>	
Plant	Vascular Plant	Wretched Sedge	<i>Carex misera</i>	
Plant	Vascular Plant	Mitchell's Sedge	<i>Carex mitchelliana</i>	
Plant	Vascular Plant	Oklahoma Sedge	<i>Carex oklahomensis</i>	
Plant	Vascular Plant	Rich-woods Sedge	<i>Carex oligocarpa</i>	
Plant	Vascular Plant	Few-seeded Sedge	<i>Carex oligosperma</i>	SCC
Plant	Vascular Plant	longstalk sedge	<i>Carex pedunculata</i>	SCC
Plant	Vascular Plant	Necklace Sedge	<i>Carex projecta</i>	SCC
Plant	Vascular Plant	Purple Sedge	<i>Carex purpurifera</i>	SCC
Plant	Vascular Plant	Radford's Sedge	<i>Carex radfordii</i>	SCC
Plant	Vascular Plant	Roan Mountain sedge	<i>Carex roanensis</i>	SCC
Plant	Vascular Plant	Ruth's Sedge	<i>Carex ruthii</i>	
Plant	Vascular Plant	Bur-reed Sedge	<i>Carex sparganioides</i>	
Plant	Vascular Plant	Three-seeded sedge	<i>Carex trisperma</i>	
Plant	Vascular Plant	Beaked Sedge	<i>Carex utriculata</i>	SCC
Plant	Vascular Plant	Wood's Sedge	<i>Carex woodii</i>	
Plant	Vascular Plant	Northern Blue Cohosh	<i>Caulophyllum giganteum</i>	SCC
Plant	Vascular Plant	Climbing Bittersweet	<i>Celastrus scandens</i>	SCC
Plant	Vascular Plant	Mountain Hackberry	<i>Celtis occidentalis</i>	
Plant	Vascular Plant	Nodding Chickweed	<i>Cerastium nutans</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Purple Willowherb	<i>Chamerion platphyllum</i>	SCC
Plant	Vascular Plant	Longleaf Spikegrass	<i>Chasmanthium sessiliflorum</i> <i>var. sessiliflorum</i>	
Plant	Vascular Plant	Alabama Lipfern	<i>Cheilanthes alabamensis</i>	SCC
Plant	Vascular Plant	Cuthbert's Turtlehead	<i>Chelone cuthbertii</i>	SCC
Plant	Vascular Plant	Mountain Purple Turtlehead	<i>Chelone obliqua</i> <i>var. erwiniae</i>	SCC
Plant	Vascular Plant	Red Turtlehead	<i>Chelone obliqua</i> <i>var. obliqua</i>	SCC
Plant	Vascular Plant	Hicaco, Icaco, Jicaco	<i>Chrysobalanus icaco</i>	
Plant	Vascular Plant	Golden Saxifrage	<i>Chrysosplenium americanum</i>	
Plant	Vascular Plant	Slender Wood-reed	<i>Cinna latifolia</i>	
Plant	Vascular Plant	Carolina Thistle	<i>Cirsium carolinianum</i>	SCC
Plant	Vascular Plant	Yellowwood	<i>Cladrastis kentukea</i>	
Plant	Vascular Plant	Small Spreading Pogonia	<i>Cleistesiosis bifaria</i>	
Plant	Vascular Plant	Coastal Virgin's-bower	<i>Clematis catesbyana</i>	
Plant	Vascular Plant	Whorled Horsebalm	<i>Collinsonia verticillata</i>	
Plant	Vascular Plant	Sweet Fern	<i>Comptonia peregrina</i>	
Plant	Vascular Plant	Spotted Coralroot	<i>Corallorhiza maculata</i> <i>var. maculata</i>	
Plant	Vascular Plant	Autumn Coral-root	<i>Corallorhiza odontorhiza</i>	
Plant	Vascular Plant	Spring Coral-root	<i>Corallorhiza wisteriana</i>	SCC
Plant	Vascular Plant	Large-flowered Tickseed	<i>Coreopsis grandiflora</i> <i>var. grandiflora</i>	SCC
Plant	Vascular Plant	Broadleaf Coreopsis	<i>Coreopsis latifolia</i>	
Plant	Vascular Plant	Blue Ridge Coreopsis	<i>Coreopsis pubescens</i> <i>var. robusta</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Slender Corydalis	<i>Corydalis micrantha</i>	SCC
Plant	Vascular Plant	Balsam Mountain Hawthorn	<i>Crataegus oreophila</i>	
Plant	Vascular Plant	Schuetze's Hawthorn	<i>Crataegus schuettei</i>	
Plant	Vascular Plant	Littlehip Hawthorn	<i>Crataegus spathulata</i>	
Plant	Vascular Plant	Plains Sunrose	<i>Crocانthemum bicknellii</i>	SCC
Plant	Vascular Plant	Creeping Sunrose	<i>Crocانthemum propinquum</i>	SCC
Plant	Vascular Plant	Prarie-tea Croton	<i>Croton monanthogynus</i>	SCC
Plant	Vascular Plant	Fraser's sedge	<i>Cymophyllus fraserianus</i>	
Plant	Vascular Plant	Small Yellow Lady's-slipper	<i>Cypripedium parviflorum var. parviflorum</i>	SCC
Plant	Vascular Plant	showy lady's-slipper	<i>Cypripedium reginae</i>	
Plant	Vascular Plant	Bulblet Bladder Fern	<i>Cystopteris bulbifera</i>	
Plant	Vascular Plant	fragile fern	<i>Cystopteris fragilis</i>	SCC
Plant	Vascular Plant	Upland Bladder-fern	<i>Cystopteris tenuis</i>	
Plant	Vascular Plant	Robin Runaway	<i>Dalibarda repens</i>	SCC
Plant	Vascular Plant	Bog Oatgrass	<i>Danthonia epilis</i>	
Plant	Vascular Plant	tall larkspur	<i>Delphinium exaltatum</i>	SCC
Plant	Vascular Plant	Prickly Ground-pine	<i>Dendrolycopodium dendroideum</i>	
Plant	Vascular Plant	Pennsylvania Ground Pine	<i>Dendrolycopodium hickeyi</i>	
Plant	Vascular Plant	Tufted Hairgrass	<i>Deschampsia cespitosa ssp. Glauca</i>	SCC
Plant	Vascular Plant	toothed tick-trefoil	<i>Desmodium cuspidatum</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Large-bract Tick-trefoil	<i>Desmodium cuspidatum</i> var. <i>cuspidatum</i>	
Plant	Vascular Plant	Elf Orpine	<i>Diamorpha smallii</i>	
Plant	Vascular Plant	Eastern beakgrass	<i>Diarrhena americana</i>	SCC
Plant	Vascular Plant	Bleeding heart	<i>Dicentra eximia</i>	
Plant	Vascular Plant	Bicknell's Witch Grass	<i>Dichantheium bicknellii</i>	
Plant	Vascular Plant	American Witch Grass	<i>Dichantheium columbianum</i>	
Plant	Vascular Plant	Low White-haired Witch Grass	<i>Dichantheium linearifolium</i>	
Plant	Vascular Plant	Riverbank Bush-honeysuckle	<i>Diervilla rivularis</i>	SCC
Plant	Vascular Plant	Glade Fern	<i>Diplazium pycnocarpon</i>	
Plant	Vascular Plant	Leatherwood	<i>Dirca palustris</i>	
Plant	Vascular Plant	Shootingstar	<i>Dodecatheon meadia</i>	SCC
Plant	Vascular Plant	Branching Draba	<i>Draba ramosissima</i>	SCC
Plant	Vascular Plant	Spinulose Woodfern	<i>Dryopteris carthusiana</i>	
Plant	Vascular Plant	Crested Woodfern	<i>Dryopteris cristata</i>	
Plant	Vascular Plant	Goldie's Woodfern	<i>Dryopteris goldiana</i>	
Plant	Vascular Plant	Eastern Purple Coneflower	<i>Echinacea purpurea</i>	SCC
Plant	Vascular Plant	Wild Mock Cucumber	<i>Echinocystis lobata</i>	
Plant	Vascular Plant	American Waterwort	<i>Elatine americana</i>	
Plant	Vascular Plant	Englemann's Spikerush	<i>Eleocharis engelmannii</i>	
Plant	Vascular Plant	Bald Spikerush	<i>Eleocharis erythropoda</i>	
Plant	Vascular Plant	Small's Spikerush	<i>Eleocharis palustris</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Canada Waterweed	<i>Elodea canadensis</i>	
Plant	Vascular Plant	Nuttall's Elodea	<i>Elodea nuttallii</i>	
Plant	Vascular Plant	nodding wild rye	<i>Elymus canadensis</i>	
Plant	Vascular Plant	Great Plains Wild Rye	<i>Elymus canadensis</i> var. <i>canadensis</i>	
Plant	Vascular Plant	Riverbank Wild Rye	<i>Elymus riparius</i>	
Plant	Vascular Plant	Slender Wheatgrass	<i>Elymus trachycaulus</i> ssp. <i>Trachycaulus</i>	SCC
Plant	Vascular Plant	Hair willow-herb	<i>Epilobium ciliatum</i> ssp. <i>Ciliatum</i>	SCC
Plant	Vascular Plant	linear-leaved willow-herb	<i>Epilobium leptophyllum</i>	
Plant	Vascular Plant	Harbringer-of-spring	<i>Erigenia bulbosa</i>	SCC
Plant	Vascular Plant	Tawny cotton-grass	<i>Eriophorum virginicum</i>	
Plant	Vascular Plant	Eastern Wahoo	<i>Euonymus atropurpureus</i> var. <i>atropurpureus</i>	
Plant	Vascular Plant	Godfrey's thoroughwort	<i>Eupatorium godfreyanum</i>	
Plant	Vascular Plant	Pink Throughwort	<i>Eupatorium incarnatum</i>	SCC
Plant	Vascular Plant	Britton's Eupatorium	<i>Eupatorium sessilifolium</i> var. <i>brittonianum</i>	
Plant	Vascular Plant	glade spurge	<i>Euphorbia purpurea</i>	SCC
Plant	Vascular Plant	Alexander's Rock Aster	<i>Eurybia avita</i>	
Plant	Vascular Plant	Piedmont Aster	<i>Eurybia mirabilis</i>	
Plant	Vascular Plant	Creeping Aster	<i>Eurybia surculosa</i>	
Plant	Vascular Plant	Nuttall's Flat-top Goldenrod	<i>Euthamia graminifolia</i> var. <i>nuttallii</i>	
Plant	Vascular Plant	Spotted Joe-pye Weed	<i>Eutrochium maculatum</i> var. <i>maculatum</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Crested Climbing Buckwheat	<i>Fallopia cristata</i>	
Plant	Vascular Plant	Queen-of-the-Prairie	<i>Filipendula rubra</i>	SCC
Plant	Vascular Plant	Pink Throughwort	<i>Fleischmannia incarnata</i>	
Plant	Vascular Plant	Large Witch-alder	<i>Fothergilla major</i>	SCC
Plant	Vascular Plant	Woodland Strawberry	<i>Fragaria vesca var. americana</i>	
Plant	Vascular Plant	Carolina Buckthorn	<i>Frangula caroliniana</i>	
Plant	Vascular Plant	American Colombo	<i>Frasera caroliniensis</i>	SCC
Plant	Vascular Plant	Galax	<i>Galax urceolata</i>	Focal
Plant	Vascular Plant	Rough Bedstraw	<i>Galium asprellum</i>	
Plant	Vascular Plant	Lanceleaf Wild Licorice	<i>Galium lanceolatum</i>	
Plant	Vascular Plant	Creeping Snowberry	<i>Gaultheria hispidula</i>	
Plant	Vascular Plant	Appalachian Gentian	<i>Gentiana austromontana</i>	
Plant	Vascular Plant	Closed Gentian	<i>Gentiana clausa</i>	
Plant	Vascular Plant	Balsam Gentian	<i>Gentiana saponaria var. latidens</i>	SCC
Plant	Vascular Plant	Fringed Gentian	<i>Gentianopsis crinita</i>	SCC
Plant	Vascular Plant	Bent Avens	<i>Geum geniculatum</i>	SCC
Plant	Vascular Plant	spreading avens	<i>Geum radiatum</i>	T&E
Plant	Vascular Plant	Lax Mannagrass	<i>Glyceria laxa</i>	SCC
Plant	Vascular Plant	Smoky Mountain Mannagrass	<i>Glyceria nubigena</i>	SCC
Plant	Vascular Plant	dwarf rattlesnake plantain	<i>Goodyera repens</i>	
Plant	Vascular Plant	Virginia Stickseed	<i>Hackelia virginiana</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Littleleaf Sneezeweed	<i>Helenium brevifolium</i>	SCC
Plant	Vascular Plant	Pond Fern Moss	<i>Helodium paludosum</i>	
Plant	Vascular Plant	swamp-pink	<i>Helonias bullata</i>	T&E
Plant	Vascular Plant	Long-Flower Alumroot	<i>Heuchera longiflora</i>	SCC
Plant	Vascular Plant	Grotto Alumroot	<i>Heuchera parviflora</i> var. <i>parviflora</i>	
Plant	Vascular Plant	Sauratown Grotto Alumroot	<i>Heuchera parviflora</i> var. <i>saurensis</i>	SCC
Plant	Vascular Plant	Downy Alumroot	<i>Heuchera pubescens</i>	SCC
Plant	Vascular Plant	Crested Coralroot	<i>Hexalectris spicata</i>	SCC
Plant	Vascular Plant	Mountain Heartleaf	<i>Hexastylis contracta</i>	SCC
Plant	Vascular Plant	French Broad Heartleaf	<i>Hexastylis rhombiformis</i>	SCC
Plant	Vascular Plant	Granite Dome Bluet	<i>Houstonia longifolia</i> var. <i>glabra</i>	
Plant	Vascular Plant	Roan Mountain Bluet	<i>Houstonia montana</i>	T&E
Plant	Vascular Plant	Summer Bluet	<i>Houstonia purpurea</i> var. <i>calycosa</i>	
Plant	Vascular Plant	Mountain Golden-heather	<i>Hudsonia montana</i>	T&E
Plant	Vascular Plant	Rock Fir Clubmoss	<i>Huperzia porophila</i>	SCC
Plant	Vascular Plant	Ashy Hydrangea	<i>Hydrangea cinerea</i>	
Plant	Vascular Plant	Golden Seal	<i>Hydrastis canadensis</i>	SCC
Plant	Vascular Plant	Largeleaf Waterleaf	<i>Hydrophyllum macrophyllum</i>	
Plant	Vascular Plant	Gorge Filmy Fern	<i>Hymenophyllum tayloriae</i>	SCC
Plant	Vascular Plant	Blue Ridge St. John's-wort	<i>Hypericum buckleyi</i>	
Plant	Vascular Plant	pale St. John's-wort	<i>Hypericum ellipticum</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Mountain St. John's-wort	<i>Hypericum graveolens</i>	
Plant	Vascular Plant	Blue Ridge St. John's-wort	<i>Hypericum mitchellianum</i>	
Plant	Vascular Plant	Standing Cedar	<i>Ipomopsis rubra</i>	
Plant	Vascular Plant	small whorled pogonia	<i>Isotria medeoloides</i>	T&E
Plant	Vascular Plant	Whorled Pogonia	<i>Isotria verticillata</i>	
Plant	Vascular Plant	Butternut	<i>Juglans cinerea</i>	
Plant	Vascular Plant	narrow-panicled rush	<i>Juncus brevicaudatus</i>	
Plant	Vascular Plant	Nodding Rush	<i>Juncus secundus</i>	
Plant	Vascular Plant	Torrey's Rush	<i>Juncus torreyi</i>	
Plant	Vascular Plant	Highland Rush	<i>Juncus trifidus</i>	SCC
Plant	Vascular Plant	Two-flower Dwarf-dandelion	<i>Krigia biflora var. biflora</i>	
Plant	Vascular Plant	Smooth Peavine	<i>Lathyrus venosus</i>	
Plant	Vascular Plant	Rough Blazing-star	<i>Liatris aspera</i>	SCC
Plant	Vascular Plant	Heller's Blazing-star	<i>Liatris helleri</i>	T&E
Plant	Vascular Plant	New England Blazing-star	<i>Liatris scariosa var. scariosa</i>	
Plant	Vascular Plant	Earle's Blazing Star	<i>Liatris squarrulosa</i>	SCC
Plant	Vascular Plant	Shale-barren Blazing Star	<i>Liatris turgida</i>	SCC
Plant	Vascular Plant	Gray's Lily	<i>Lilium grayi</i>	SCC
Plant	Vascular Plant	Wood Lily	<i>Lilium philadelphicum var. philadelphicum</i>	SCC
Plant	Vascular Plant	Flatrock Pimpernel	<i>Lindernia monticola</i>	
Plant	Vascular Plant	Loesel's twayblade	<i>Liparis loeselii</i>	SCC
Plant	Vascular Plant	Southern Twayblade	<i>Listera australis</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Heartleaf Twayblade	<i>Listera cordata var. cordata</i>	
Plant	Vascular Plant	American fly-honeysuckle	<i>Lonicera canadensis</i>	SCC
Plant	Vascular Plant	Yellow Honeysuckle	<i>Lonicera flava</i>	
Plant	Vascular Plant	Heath Woodrush	<i>Luzula multiflora var. multiflora</i>	
Plant	Vascular Plant	northern bog clubmoss	<i>Lycopodiella inundata</i>	SCC
Plant	Vascular Plant	Fraser's Loosestrife	<i>Lysimachia fraseri</i>	SCC
Plant	Vascular Plant	Southern Loosestrife	<i>Lysimachia tonsa</i>	
Plant	Vascular Plant	Eastern Agave	<i>Manfreda virginica</i>	
Plant	Vascular Plant	Climbing Milkvine	<i>Matelea obliqua</i>	SCC
Plant	Vascular Plant	Meehania	<i>Meehania cordata</i>	
Plant	Vascular Plant	Three-flowered melic grass	<i>Melica nitens</i>	SCC
Plant	Vascular Plant	Virginia Bluebells	<i>Mertensia virginica</i>	
Plant	Vascular Plant	Carey Saxifrage	<i>Micranthes careyana</i>	
Plant	Vascular Plant	Carolina Saxifrage	<i>Micranthes caroliniana</i>	
Plant	Vascular Plant	West Indian Dwarf Polypody	<i>Micropolypodium nimbatum</i>	SCC
Plant	Vascular Plant	mountain sandwort	<i>Minuartia groenlandica</i>	SCC
Plant	Vascular Plant	Purple Bee-balm	<i>Monarda media</i>	SCC
Plant	Vascular Plant	Arkansas Horsemint	<i>Monarda punctata var. arkansana</i>	
Plant	Vascular Plant	sweet pinesap	<i>Monotropsis odorata</i>	
Plant	Vascular Plant	marsh muhly	<i>Muhlenbergia glomerata</i>	SCC
Plant	Vascular Plant	Mexican Muhly	<i>Muhlenbergia mexicana</i>	
Plant	Vascular Plant	Rock Muhly	<i>Muhlenbergia sobolifera</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Woodland Muhly	<i>Muhlenbergia sylvatica</i>	
Plant	Vascular Plant	Roan Rattlesnakeroot	<i>Nabalus roanensis</i>	
Plant	Vascular Plant	Slender Waternymph	<i>Najas gracillima</i>	
Plant	Vascular Plant	Perennial Sundrops	<i>Oenothera perennis</i>	SCC
Plant	Vascular Plant	Sampson's Snakeroot	<i>Orbexilum pedunculatum</i>	SCC
Plant	Vascular Plant	Divided-leaf Ragwort	<i>Packera millefolium</i>	SCC
Plant	Vascular Plant	Prairie Ragwort	<i>Packera paupercula</i> var. <i>appalachiana</i>	SCC
Plant	Vascular Plant	Balsam Ragwort	<i>Packera paupercula</i> var. <i>paupercula</i>	
Plant	Vascular Plant	Schweinitz's Ragwort	<i>Packera schweinitziana</i>	SCC
Plant	Vascular Plant	Serpentine Ragwort	<i>Packera serpenticola</i>	SCC
Plant	Vascular Plant	Ginseng	<i>Panax quinquefolius</i>	
Plant	Vascular Plant	Dwarf ginseng	<i>Panax trifolius</i>	
Plant	Vascular Plant	Pennsylvania Pellitory	<i>Parietaria pensylvanica</i>	
Plant	Vascular Plant	Large-leaved grass-of-parnassus	<i>Parnassia grandifolia</i>	SCC
Plant	Vascular Plant	Mountain Nailwort	<i>Paronychia montana</i>	
Plant	Vascular Plant	Hairy-seed Crown Grass	<i>Paspalum pubiflorum</i> var. <i>glabrum</i>	
Plant	Vascular Plant	Swamp Lousewort	<i>Pedicularis lanceolata</i>	SCC
Plant	Vascular Plant	Purple-stem Cliff-brake	<i>Pellaea atropurpurea</i>	
Plant	Vascular Plant	Northern Beech Fern	<i>Phegopteris connectilis</i>	SCC
Plant	Vascular Plant	Fameflower	<i>Phemeranthus teretifolius</i>	
Plant	Vascular Plant	Hairy Mock-orange	<i>Philadelphus hirsutus</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Odorless Mock-orange	<i>Philadelphus inodorus</i>	
Plant	Vascular Plant	Broadleaf phlox	<i>Phlox amplifolia</i>	
Plant	Vascular Plant	Wild Blue Phlox	<i>Phlox divaricata</i>	
Plant	Vascular Plant	Moss Pink	<i>Phlox subulata</i>	SCC
Plant	Vascular Plant	Fetterbush	<i>Pieris floribunda</i>	
Plant	Vascular Plant	Large White Fringed Orchid	<i>Platanthera blephariglottis</i>	
Plant	Vascular Plant	Turbercled rein-orchid	<i>Platanthera flava var. herbiola</i>	SCC
Plant	Vascular Plant	large purple fringed orchid	<i>Platanthera grandiflora</i>	SCC
Plant	Vascular Plant	White Fringeless orchid	<i>Platanthera integrilabia</i>	T&E
Plant	Vascular Plant	purple fringeless orchid	<i>Platanthera peramoena</i>	SCC
Plant	Vascular Plant	fowl bluegrass	<i>Poa palustris</i>	SCC
Plant	Vascular Plant	drooping bluegrass	<i>Poa saltuensis</i>	SCC
Plant	Vascular Plant	Seneca Snakeroot	<i>Polygala senega var. senega</i>	SCC
Plant	Vascular Plant	Erect Knotweed	<i>Polygonum erectum</i>	
Plant	Vascular Plant	Glade Knotweed	<i>Polygonum tenue</i>	
Plant	Vascular Plant	Canada Leaf-cup	<i>Polymnia canadensis</i>	
Plant	Vascular Plant	Bigtooth Aspen	<i>Populus grandidentata</i>	
Plant	Vascular Plant	Leafy Pondweed	<i>Potamogeton foliosus</i>	
Plant	Vascular Plant	Eastern Shooting Star	<i>Primula meadia</i>	
Plant	Vascular Plant	Canada plum	<i>Prunus nigra</i>	
Plant	Vascular Plant	Choke Cherry	<i>Prunus virginiana var. virginiana</i>	
Plant	Vascular Plant	Wafer-ash	<i>Ptelea trifoliata</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Basil Mountain-mint	<i>Pycnanthemum clinopodioides</i>	
Plant	Vascular Plant	Stone Mountain-mint	<i>Pycnanthemum curvipes</i>	SCC
Plant	Vascular Plant	Torrey's mountain-mint	<i>Pycnanthemum torreyi</i>	
Plant	Vascular Plant	American Shinleaf	<i>Pyrola americana</i>	
Plant	Vascular Plant	Chinquapin Oak	<i>Quercus muehlenbergii</i>	
Plant	Vascular Plant	Pin Oak	<i>Quercus palustris</i>	
Plant	Vascular Plant	Allegheny Mountain Buttercup	<i>Ranunculus allegheniensis</i>	
Plant	Vascular Plant	Early Buttercup	<i>Ranunculus fascicularis</i>	SCC
Plant	Vascular Plant	Roseroot	<i>Rhodiola rosea</i>	
Plant	Vascular Plant	Cumberland Azalea	<i>Rhododendron cumberlandense</i>	SCC
Plant	Vascular Plant	Pink-shell Azalea	<i>Rhododendron vaseyi</i>	SCC
Plant	Vascular Plant	White Beakrush	<i>Rhynchospora alba</i>	SCC
Plant	Vascular Plant	Fruitful Locust	<i>Robinia hispida var fertilis</i>	SCC
Plant	Vascular Plant	Kelsey's locust	<i>Robinia hispida var kelseyi</i>	SCC
Plant	Vascular Plant	Boynton's Locust	<i>Robinia hispida var. rosea</i>	
Plant	Vascular Plant	Hartwig's Locust	<i>Robinia viscosa var. hartwigii</i>	SCC
Plant	Vascular Plant	Clammy Locust	<i>Robinia viscosa var. viscosa</i>	SCC
Plant	Vascular Plant	Robin Runaway	<i>Rubus dalibardia</i>	
Plant	Vascular Plant	American red raspberry	<i>Rubus idaeus ssp. Strigosus</i>	SCC
Plant	Vascular Plant	Bristly Blackberry	<i>Rubus setosus</i>	
Plant	Vascular Plant	A Coneflower	<i>Rudbeckia laciniata var. humilis</i>	
Plant	Vascular Plant	Chauncey's Coneflower	<i>Rudbeckia triloba var. beadleii</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	A Coneflower	<i>Rudbeckia triloba var. rupestris</i>	
Plant	Vascular Plant	Pursh's wild petunia	<i>Ruellia purshiana</i>	SCC
Plant	Vascular Plant	Pale Dock	<i>Rumex altissimus</i>	
Plant	Vascular Plant	Prairie Pink	<i>Sabatia campestris</i>	
Plant	Vascular Plant	Rose Gentian	<i>Sabatia capitata</i>	
Plant	Vascular Plant	Northern Pearlwort	<i>Sagina procumbens</i>	
Plant	Vascular Plant	Bunched Arrowhead	<i>Sagittaria fasciculata</i>	T&E
Plant	Vascular Plant	Mountain Sweet Pitcher Plant	<i>Sarracenia jonesii</i>	T&E
Plant	Vascular Plant	Green Pitcher Plant	<i>Sarracenia oreophila</i>	T&E
Plant	Vascular Plant	Southern Appalachian Purple Pitcher Plant	<i>Sarracenia purpurea var. montana</i>	SCC
Plant	Vascular Plant	Leathery Grape Fern	<i>Sceptridium multifidum</i>	
Plant	Vascular Plant	Blunt-lobed Grape Fern	<i>Sceptridium oneidense</i>	
Plant	Vascular Plant	Heartleaf Skullcap	<i>Scutellaria ovata ssp. ovata var. ovata</i>	
Plant	Vascular Plant	A Heartleaf Skullcap	<i>Scutellaria ovata ssp. Rugosa</i>	
Plant	Vascular Plant	Appalachian Skullcap	<i>Scutellaria ovata ssp. rugosa var. 1</i>	
Plant	Vascular Plant	Rock skullcap	<i>Scutellaria saxatilis</i>	SCC
Plant	Vascular Plant	Showy Skullcap	<i>Scutellaria serrata</i>	
Plant	Vascular Plant	Cliff Stonecrop	<i>Sedum glaucophyllum</i>	SCC
Plant	Vascular Plant	Wild Senna	<i>Senna hebecarpa</i>	
Plant	Vascular Plant	Northern Oconee Bells	<i>Shortia galacifolia var. brevistyla</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Southern Oconee Bells	<i>Shortia galacifolia</i> var. <i>galacifolia</i>	SCC
Plant	Vascular Plant	Sticky Catchfly	<i>Silene caroliniana</i> var. <i>pennsylvanica</i>	
Plant	Vascular Plant	Ovate Catchfly	<i>Silene ovata</i>	SCC
Plant	Vascular Plant	Huger's carrion-flower	<i>Smilax hugeri</i>	
Plant	Vascular Plant	Forest Goldenrod	<i>Solidago arguta</i> var. <i>arguta</i>	
Plant	Vascular Plant	Lance-leaf Goldenrod	<i>Solidago lancifolia</i>	
Plant	Vascular Plant	Downy Goldenrod	<i>Solidago puberula</i> var. <i>puberula</i>	
Plant	Vascular Plant	Rough-leaved Goldenrod	<i>Solidago rugosa</i> var. <i>sphagnophila</i>	
Plant	Vascular Plant	Granite Dome Goldenrod	<i>Solidago simulans</i>	SCC
Plant	Vascular Plant	Blue Ridge Goldenrod	<i>Solidago spithamaea</i>	T&E
Plant	Vascular Plant	Squarrose goldenrod	<i>Solidago squarrosa</i>	
Plant	Vascular Plant	bog goldenrod	<i>Solidago uliginosa</i> var. <i>uliginosa</i>	SCC
Plant	Vascular Plant	Elm-leaf Goldenrod	<i>Solidago ulmifolia</i>	SCC
Plant	Vascular Plant	Greenfruit Bur-reed	<i>Sparganium emersum</i>	SCC
Plant	Vascular Plant	freshwater cordgrass	<i>Spartina pectinata</i>	SCC
Plant	Vascular Plant	Prairie Wedgescale	<i>Sphenopholis intermedia</i>	
Plant	Vascular Plant	Pink root	<i>Spigelia marilandica</i>	SCC
Plant	Vascular Plant	Narrow-leaf Meadowsweet	<i>Spiraea alba</i>	
Plant	Vascular Plant	Broadleaf Meadowsweet	<i>Spiraea latifolia</i>	
Plant	Vascular Plant	Virginia Spiraea	<i>Spiraea virginiana</i>	T&E

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	yellow nodding ladies'-tresses	<i>Spiranthes ochroleuca</i>	SCC
Plant	Vascular Plant	Prairie Dropseed	<i>Sporobolus heterolepis</i>	SCC
Plant	Vascular Plant	Clingman's Hedge-nettle	<i>Stachys clingmanii</i>	SCC
Plant	Vascular Plant	Heartleaf Hedge-nettle	<i>Stachys cordata</i>	SCC
Plant	Vascular Plant	Smooth Hedge-nettle	<i>Stachys tenuifolia</i>	
Plant	Vascular Plant	Longstalk Starwort	<i>Stellaria alsine</i>	
Plant	Vascular Plant	Core's Starwort	<i>Stellaria corei</i>	
Plant	Vascular Plant	Pinebarren Death-camas	<i>Stenanthium leimanthoides</i>	SCC
Plant	Vascular Plant	Mountain Camellia	<i>Stewartia ovata</i>	
Plant	Vascular Plant	White Mandarin	<i>Streptopus amplexifolius</i>	SCC
Plant	Vascular Plant	Purple-stem Aster	<i>Symphyotrichum firmum</i>	
Plant	Vascular Plant	Smooth Blue Aster	<i>Symphyotrichum laeve</i> var. <i>laeve</i>	SCC
Plant	Vascular Plant	New England Aster	<i>Symphyotrichum novae-angliae</i>	
Plant	Vascular Plant	Aromatic Aster	<i>Symphyotrichum oblongifolium</i>	SCC
Plant	Vascular Plant	Barrens Silky Aster	<i>Symphyotrichum pratense</i>	
Plant	Vascular Plant	Rhiannon's Aster	<i>Symphyotrichum rhiannon</i>	SCC
Plant	Vascular Plant	Short's Aster	<i>Symphyotrichum shortii</i>	SCC
Plant	Vascular Plant	Pineland Squarehead	<i>Tetragonotheca helianthoides</i>	
Plant	Vascular Plant	Small-leaved Meadowrue	<i>Thalictrum macrostylum</i>	SCC
Plant	Vascular Plant	Mountain Thaspium	<i>Thaspium pinnatifidum</i>	SCC
Plant	Vascular Plant	Ash-leaved Golden-banner	<i>Thermopsis fraxinifolia</i>	SCC

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Appalachian Golden-banner	<i>Thermopsis mollis</i>	SCC
Plant	Vascular Plant	Aaron's-rod	<i>Thermopsis villosa</i>	
Plant	Vascular Plant	bristly sarsaparilla, American Arborvitae	<i>Thuja occidentalis</i>	
Plant	Vascular Plant	American Basswood	<i>Tilia americana var. americana</i>	
Plant	Vascular Plant	Fragile Tortula	<i>Tortula fragilis</i>	
Plant	Vascular Plant	Hairy Spiderwort	<i>Tradescantia hirsuticaulis</i>	
Plant	Vascular Plant	Sticky Bog Asphodel	<i>Triantha glutinosa</i>	SCC
Plant	Vascular Plant	Appalachian Filmy-fern	<i>Trichomanes boschianum</i>	SCC
Plant	Vascular Plant	Dwarf Filmy-fern	<i>Trichomanes petersii</i>	SCC
Plant	Vascular Plant	Deerhair Bulrush	<i>Trichophorum cespitosum</i>	
Plant	Vascular Plant	Glade Bluecurls	<i>Trichostema brachiatum</i>	SCC
Plant	Vascular Plant	narrow-leaved blue curls	<i>Trichostema setaceum</i>	
Plant	Vascular Plant	Starflower	<i>Trientalis borealis</i>	SCC
Plant	Vascular Plant	Mottled Trillium	<i>Trillium discolor</i>	SCC
Plant	Vascular Plant	Bent White Trillium	<i>Trillium flexipes</i>	
Plant	Vascular Plant	Alabama Least Trillium	<i>Trillium pusillum var. ozarkanum</i>	SCC
Plant	Vascular Plant	Southern Nodding Trillium	<i>Trillium rugelii</i>	
Plant	Vascular Plant	Sweet White Trillium	<i>Trillium simile</i>	SCC
Plant	Vascular Plant	Early Horse Gentian	<i>Triosteum aurantiacum var. aurantiacum</i>	
Plant	Vascular Plant	Three Birds Orchid	<i>Triphora trianthophoros var. trianthophoros</i>	

Group	Type	Common Name	Scientific Name	Status
Plant	Vascular Plant	Soft Trisetum	<i>Trisetum spicatum</i>	
Plant	Vascular Plant	Eastern Hemlock	<i>Tsuga canadensis</i>	
Plant	Vascular Plant	Carolina Hemlock	<i>Tsuga caroliniana</i>	SCC
Plant	Vascular Plant	Tower Mustard	<i>Turritis glabra</i>	
Plant	Vascular Plant	September Elm	<i>Ulmus serotina</i>	
Plant	Vascular Plant	Northern Lowbush Blueberry	<i>Vaccinium angustifolium</i>	SCC
Plant	Vascular Plant	Hairy blueberry	<i>Vaccinium hirsutum</i>	
Plant	Vascular Plant	large cranberry	<i>Vaccinium macrocarpon</i>	SCC
Plant	Vascular Plant	Woodland Cornsalad	<i>Valerianella umbilicata</i>	
Plant	Vascular Plant	Blue Vervain	<i>Verbena hastata</i>	
Plant	Vascular Plant	A Crownbeard	<i>Verbesina helianthoides</i>	
Plant	Vascular Plant	Frostweed	<i>Verbesina virginica</i> var. <i>virginica</i>	
Plant	Vascular Plant	Walter's Crownbeard	<i>Verbesina walteri</i>	
Plant	Vascular Plant	American Speedwell	<i>Veronica americana</i>	SCC
Plant	Vascular Plant	Blue Water Speedwell	<i>Veronica anagallis-aquatica</i>	
Plant	Vascular Plant	Culver's-root	<i>Veronicastrum virginicum</i>	
Plant	Vascular Plant	Appalachian blue violet	<i>Viola appalachiensis</i>	SCC
Plant	Vascular Plant	Alpine Violet	<i>Viola labradorica</i>	
Plant	Vascular Plant	Three-parted Violet	<i>Viola tripartita</i>	
Plant	Vascular Plant	Prostrate Blue Violet	<i>Viola walteri</i>	
Plant	Vascular Plant	Appalachian Cliff Fern	<i>Woodsia appalachiana</i>	SCC
Plant	Vascular Plant	Weakleaf Yucca	<i>Yucca flaccida</i>	

Species excluded from full analysis

Not all species considered for inclusion in the ESE were carried forward into the analysis. Species shown here were excluded from further analysis for one of the following reason: (1) species was eliminated by one or more members of expert panel prior to DEIS (refer to project record for description of this panel); (2) species was eliminated by state, federal, or other species expert during DEIS comment period; (3) species is not known to occur on the Forests; (4) species is considered common and persistence is not at risk on the Forests; (5) knowledge of species range and ecology is insufficient to assess associated habitats and conditions; (6) incorrectly identified on unit and/or in NC; (7) species taxonomy revised or questionable; or (8) uncertain recent documentation on Forests.

Table C-2. Species included in the ESE Tool that were not carried into the ecological sustainability evaluation, and rationale for exclusion.

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Animal	Amphibian	Eastern Tiger Salamander	<i>Ambystoma tigrinum</i>	2
Animal	Amphibian	Waterrock Knob Salamander	<i>Desmognathus imitator pop. 1</i>	2
Animal	Amphibian	Northern Two-lined Salamander	<i>Eurycea bislineata</i>	2
Animal	Amphibian	Blue Ridge Gray-cheeked Salamander	<i>Plethodon amplus</i>	2
Animal	Amphibian	South Mountain Gray-cheeked Salamander	<i>Plethodon meridianus</i>	2
Animal	Amphibian	Wehrle's Salamander	<i>Plethodon wehrlei</i>	2
Animal	Amphibian	Crevice Salamander	<i>Plethodon yonahlossee pop. 1</i>	2
Animal	Bird	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	1
Animal	Bird	Le Conte's Sparrow	<i>Ammospiza (Ammodramus) leconteii</i>	1
Animal	Bird	Short-eared Owl	<i>Asio flammeus</i>	1
Animal	Bird	Long-eared Owl	<i>Asio otus</i>	1

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Animal	Bird	Upland Sandpiper	<i>Bartramia longicauda</i>	1
Animal	Bird	Swainson's Thrush	<i>Catharus ustulatus</i>	1
Animal	Bird	Henslow's Sparrow	<i>Centronyx (Ammodramus) henslowii</i>	1
Animal	Bird	Common Nighthawk	<i>Chordeiles minor</i>	1
Animal	Bird	Sedge Wren	<i>Cistothorus platensis</i>	1
Animal	Bird	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	1
Animal	Bird	Olive-sided Flycatcher	<i>Contopus cooperi</i>	1
Animal	Bird	Bobolink	<i>Dolichonyx oryzivorus</i>	1
Animal	Bird	Rusty Blackbird	<i>Euphagus carolinus</i>	1
Animal	Bird	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	1
Animal	Bird	Merlin	<i>Falco columbarius</i>	1
Animal	Bird	Loggerhead shrike	<i>Lanius ludovicianus</i>	1
Animal	Bird	Nashville Warbler	<i>Leiothlypis (Oreothlypis) ruficapilla</i>	1
Animal	Bird	Lincoln's Sparrow	<i>Melospiza lincolnii</i>	1
Animal	Bird	Savannah Sparrow	<i>Passerculus sandwichensis</i>	1
Animal	Bird	Bachman's Sparrow	<i>Peucaea aestivalis</i>	1
Animal	Bird	Summer Tanager	<i>Piranga rubra</i>	1
Animal	Bird	Purple Martin	<i>Progne subis</i>	1
Animal	Bird	Prothonotary Warbler	<i>Protonotaria citrea</i>	1
Animal	Bird	Bank Swallow	<i>Riparia riparia</i>	1

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Animal	Bird	Northern Parula	<i>Setophaga americana</i>	1
Animal	Bird	Bay-breasted Warbler	<i>Setophaga castanea</i>	1
Animal	Bird	Blackpoll Warbler	<i>Setophaga striata</i>	1
Animal	Bird	American Tree Sparrow	<i>Spizella arborea</i>	1
Animal	Bird	Bewick's Wren	<i>Thryomanes bewickii</i>	1
Animal	Bird	Barn Owl	<i>Tyto alba</i>	1
Animal	Bird	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1
Animal	Mammal	Eastern Cougar	<i>Puma concolor cougar</i>	1
Animal	Mollusk-Terrestrial	Snowhill Ambersnail	<i>Catinella hubrichti</i>	1
Animal	Mollusk-Terrestrial	Furrowed Glyph	<i>Glyphyalinia luticola</i>	1
Animal	Reptile	Eastern Slender Glass Lizard	<i>Ophisaurus attenuatus longicaudus</i>	1
Plant	Nonvascular Plant	Fontana Lichen	<i>Acanthothesia fontana</i>	5
Plant	Nonvascular Plant	Mougeot's Yoke Moss	<i>Amphidium mougeotii</i>	3
Plant	Nonvascular Plant	Knothole Moss	<i>Anacamptodon splachnoides</i>	3
Plant	Nonvascular Plant	A Foliose Lichen	<i>Anaptychia crinalis</i>	6
Plant	Nonvascular Plant	Black Falcate Split Moss	<i>Andreaea rothii var. rothii</i>	8
Plant	Nonvascular Plant	Rock Split Moss	<i>Andreaea rupestris</i>	8
Plant	Nonvascular Plant	Common Silver Moss	<i>Anomobryum julaceum</i>	5
Plant	Nonvascular Plant	Tokyo Soil Moss	<i>Archidium ohioense</i>	5
Plant	Nonvascular Plant	Golden Spruce Dots	<i>Arthonia cupressina</i>	3

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Nonvascular Plant	A Catherinea Moss	<i>Atrichum altecristatum</i>	5
Plant	Nonvascular Plant	A Catherinea Moss	<i>Atrichum tenellum</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Barbilophozia attenuata</i>	5
Plant	Nonvascular Plant	Small Twist Teeth Moss	<i>Barbula indica var. indica</i>	5
Plant	Nonvascular Plant	Sharp-pointed Weissia	<i>Blindia acuta</i>	8
Plant	Nonvascular Plant	A Moss	<i>Brachelyma subulatum</i>	5
Plant	Nonvascular Plant	Northern Shorthusk	<i>Brachyelytrum aristosum</i>	4
Plant	Nonvascular Plant	Sprawling Grass Moss	<i>Brachythecium oedipodium</i>	5
Plant	Nonvascular Plant	Rusty Feather Moss	<i>Brachythecium plumosum</i>	5
Plant	Nonvascular Plant	Reflexed Feather Moss	<i>Brachythecium reflexum</i>	5
Plant	Nonvascular Plant	Rough-stalked Feather Moss	<i>Brachythecium rutabulum</i>	8
Plant	Nonvascular Plant	Smooth-stalked	<i>Brachythecium salebrosum</i>	5
Plant	Nonvascular Plant	Velvet Moss	<i>Brachythecium velutinum</i>	5
Plant	Nonvascular Plant	Boar Moss	<i>Brothera leana</i>	5
Plant	Nonvascular Plant	Arrowhead Moss	<i>Bryhnia novae-angliae</i>	8
Plant	Nonvascular Plant	A Red Foot Moss	<i>Bryoerythrophyllum recurvirostrum</i>	5
Plant	Nonvascular Plant	Evelyn's Buttons	<i>Buellia sharpiana</i>	3
Plant	Nonvascular Plant	Bug-on-a-stick moss	<i>Buxbaumia minakatae</i>	5
Plant	Nonvascular Plant	Paradoxical Campylopsus	<i>Campylopsus paradoxus</i>	5
Plant	Nonvascular Plant	Sandstone Grimmia	<i>Camylostelium saxicola</i>	8

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Nonvascular Plant	Worthy Shield Lichen	<i>Canoparmelia amabilis</i>	7
Plant	Nonvascular Plant	A Liverwort	<i>Cephalozia macrostachya</i> <i>ssp. australis</i>	7
Plant	Nonvascular Plant	Liverwort	<i>Cephaloziella massalongi</i>	5
Plant	Nonvascular Plant	Roundleaf Liverwort	<i>Cephaloziella obtusilobula</i>	8
Plant	Nonvascular Plant	Cynodontium Moss	<i>Cynodontium schisti</i>	5
Plant	Nonvascular Plant	Thin-rib Curved-tail Moss	<i>Dicranum bonjeanii</i>	5
Plant	Nonvascular Plant	Fuscous Moss	<i>Dicranum fuscescens</i>	5
Plant	Nonvascular Plant	Rusty Fork Moss	<i>Dicranum spurium</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum andrewsii</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum apiculatum</i> var. <i>taxifolioides</i>	7
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum taxifolium</i> var. <i>mucronatum</i>	8
Plant	Nonvascular Plant	A Liverwort	<i>Diplophyllum taxifolium</i> var. <i>taxifolium</i>	8
Plant	Nonvascular Plant	A Liverwort	<i>Dumortiera hirsuta</i> ssp. <i>nepalensis</i>	4
Plant	Nonvascular Plant	Pond Fern Moss	<i>Elodium paludosum</i>	5
Plant	Nonvascular Plant	Fructicose lichen	<i>Ephebe solida</i>	4
Plant	Nonvascular Plant	A False Crushed-rice Moss	<i>Fabronia ciliaris</i> var. <i>polycarpa</i>	5
Plant	Nonvascular Plant	Erin's Fellhanera	<i>Fellhanera eriniae</i>	3

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Nonvascular Plant	Smoky Mountain Crustose Lichen	<i>Fellhanera montesfumosi</i>	3
Plant	Nonvascular Plant	Maiden Hair Moss	<i>Fissidens adianthoides</i>	5
Plant	Nonvascular Plant	A Plume Moss	<i>Fissidens elegans</i>	5
Plant	Nonvascular Plant	Water Pocket Moss	<i>Fissidens fontanus</i>	8
Plant	Nonvascular Plant	A Water Moss	<i>Fontinalis flaccida</i>	5
Plant	Nonvascular Plant	A Water Moss	<i>Fontinalis sullivantii</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Frullania oakesiana</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Frullania plana</i>	8
Plant	Nonvascular Plant	A Beard Moss	<i>Grimmia olneyi</i>	8
Plant	Nonvascular Plant	A Leaf Lichen	<i>Gyalectidium appendiculatum</i>	5
Plant	Nonvascular Plant	Coiled Moss	<i>Herpetineuron toccoae</i>	5
Plant	Nonvascular Plant	A Centipede Lichen	<i>Heterodermia pseudospeciosa</i>	5
Plant	Nonvascular Plant	Brookside Feather Moss	<i>Hygroamblystegium fluviatile</i>	5
Plant	Nonvascular Plant	A Cedar Moss	<i>Hypnum fauriei</i>	8
Plant	Nonvascular Plant	A Cedar Moss	<i>Hypnum plicatulum</i>	5
Plant	Nonvascular Plant	Squirrel Tail Moss	<i>Leucodon andrewsianus</i>	8
Plant	Nonvascular Plant	A Liverwort	<i>Lophozia capitata</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Mannia triandra</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Marsupella emarginata var. latiloba</i>	8

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Nonvascular Plant	A Liverwort	<i>Marsupella funckii</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Metzgeria pubescens</i>	5
Plant	Nonvascular Plant	Liverwort	<i>Metzgeria temperata</i>	5
Plant	Nonvascular Plant	A Moss	<i>Micromitrium megalosporum</i>	5
Plant	Nonvascular Plant	A Moss	<i>Nardia lescuri</i>	4
Plant	Nonvascular Plant	A Hornwort	<i>Nothoceros aenigmaticus</i>	4
Plant	Nonvascular Plant	Coral Saucer Lichen	<i>Ochrolechia yasudae</i>	5
Plant	Nonvascular Plant	Drummond Moss	<i>Orthotrichum strangulatum</i>	5
Plant	Nonvascular Plant	Liverwort	<i>Pellia appalachiana</i> (= <i>Pelia X appalachiana</i>)	4
Plant	Nonvascular Plant	Waterfan Lichen	<i>Peltigera hydrothyria</i>	4
Plant	Nonvascular Plant	An Apple Moss	<i>Philonotis longiseta</i>	5
Plant	Nonvascular Plant	An Apple Moss	<i>Philonotis marchica</i>	5
Plant	Nonvascular Plant	Liverwort	<i>Plagiochila caduciloba</i>	4
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila columbiana</i>	3
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila undata</i>	5
Plant	Nonvascular Plant	A Liverwort	<i>Plagiochila virginica</i> var. <i>euryphylla</i>	7
Plant	Nonvascular Plant	Varied Rag Lichen	<i>Platismatia glauca</i>	5
Plant	Nonvascular Plant	A Moss	<i>Platydictya subtilis</i>	5
Plant	Nonvascular Plant	Long Neck Nodding Moss	<i>Pohlia longicollis</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Nonvascular Plant	Boulder Lichen	<i>Porpidia macrocarpa</i>	5
Plant	Nonvascular Plant	Boulder Lichen	<i>Porpidia tuberculosa</i>	5
Plant	Nonvascular Plant	Twisted Thread Moss	<i>Pterigynandrum filiforme</i>	8
Plant	Nonvascular Plant	A Liverwort	<i>Ptilidium pulcherrimum</i>	5
Plant	Nonvascular Plant	Many-fruited Feather Moss	<i>Pylaisiella polyantha</i>	4
Plant	Nonvascular Plant	A Liverwort	<i>Radula sullivantii</i>	4
Plant	Nonvascular Plant	Smaller Fern Moss	<i>Rauvella scita</i>	8
Plant	Nonvascular Plant	A Liverwort	<i>Reboulia hemisphaerica ssp. dioica</i>	5
Plant	Nonvascular Plant	Yellow Pepper Spores	<i>Rinodina chrysomeleana</i>	5
Plant	Nonvascular Plant	Henry's Peatmoss	<i>Sphagnum henryense</i>	3
Plant	Nonvascular Plant	A Peatmoss	<i>Sphagnum subtile</i>	3
Plant	Nonvascular Plant	Hokkaido Fern Moss	<i>Thuidium recognitum</i>	5
Plant	Nonvascular Plant	Fragile Tortula	<i>Tortula fragilis</i>	3
Plant	Nonvascular Plant	A Liverwort	<i>Tritomaria exsectiformis ssp. exsectiformis</i>	3
Plant	Nonvascular Plant	A Moss	<i>Zygodon viridissimus var. rupestris</i>	8
Plant	Vascular Plant	Black Maple	<i>Acer nigrum</i>	5
Plant	Vascular Plant	Piedmont Gerardia	<i>Agalinis decemloba</i>	3
Plant	Vascular Plant	Roundleaf Serviceberry	<i>Amelanchier sanguinea</i>	4
Plant	Vascular Plant	Heartleaf Peppervine	<i>Ampelopsis cordata</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Dwarf Thimble-weed	<i>Anemone minima</i>	8
Plant	Vascular Plant	Purple-stem Angelica	<i>Angelica atropurpurea</i>	5
Plant	Vascular Plant	Lyre-leaved Rockcress	<i>Arabidopsis lyrata</i>	4
Plant	Vascular Plant	Hairy Rockcress	<i>Arabis pycnocarpa</i> var. <i>addressipilis</i>	8
Plant	Vascular Plant	Purple Chokeberry	<i>Aronia prunifolia</i>	4
Plant	Vascular Plant	Purple Milkweed	<i>Asclepias purpurascens</i>	3
Plant	Vascular Plant	Black-stem Spleenwort	<i>Asplenium resiliens</i>	4
Plant	Vascular Plant	Thin-pod White Wild Indigo	<i>Baptisia albescens</i>	3
Plant	Vascular Plant	Creamy Wild Indigo	<i>Baptisia bracteata</i>	3
Plant	Vascular Plant	Twining Screwstem	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	4
Plant	Vascular Plant	Margarita, Romerillo	<i>Bidens alba</i> var. <i>radiata</i>	6
Plant	Vascular Plant	Coastal Plain Tickseed	<i>Bidens mitis</i>	5
Plant	Vascular Plant	Brook Saxifrage	<i>Boykinia aconitifolia</i>	4
Plant	Vascular Plant	Cain's Reedgrass	<i>Calamagrostis cainii</i>	3
Plant	Vascular Plant	Marsh Marigold	<i>Caltha palustris</i> var. <i>palustris</i>	3
Plant	Vascular Plant	Eastern Sweetshrub	<i>Calycanthus floridus</i> var. <i>floridus</i>	7
Plant	Vascular Plant	Shale Barren Bindweed	<i>Calystegia spithamea</i> ssp. <i>stans</i>	3
Plant	Vascular Plant	American harebell	<i>Campanula rotundifolia</i>	3

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	White Bear Sedge	<i>Carex albursina</i>	5
Plant	Vascular Plant	Biltmore Sedge	<i>Carex biltmoreana</i>	4
Plant	Vascular Plant	Blue Ridge Brome Sedge	<i>Carex bromoides ssp. montana</i>	4
Plant	Vascular Plant	Brown Bog Sedge	<i>Carex buxbaumii</i>	3
Plant	Vascular Plant	Collin's Sedge	<i>Carex collinsii</i>	3
Plant	Vascular Plant	crested sedge	<i>Carex cristatella</i>	8
Plant	Vascular Plant	Star Sedge	<i>Carex echinata ssp. echinata</i>	4
Plant	Vascular Plant	Fescue Sedge	<i>Carex festucacea</i>	4
Plant	Vascular Plant	Fraser's Sedge	<i>Carex fraseriana</i>	4
Plant	Vascular Plant	A Wood Sedge	<i>Carex leavenworthii</i>	5
Plant	Vascular Plant	A Wood Sedge	<i>Carex leptonevia</i>	4
Plant	Vascular Plant	Appalachian Woodland Sedge	<i>Carex lucorum var. austrolucorum</i>	4
Plant	Vascular Plant	Manhart's Sedge	<i>Carex manhartii</i>	4
Plant	Vascular Plant	Wretched Sedge	<i>Carex misera</i>	4
Plant	Vascular Plant	Mitchell's Sedge	<i>Carex mitchelliana</i>	3
Plant	Vascular Plant	Oklahoma Sedge	<i>Carex oklahomensis</i>	5
Plant	Vascular Plant	Ruth's Sedge	<i>Carex ruthii</i>	4
Plant	Vascular Plant	Bur-reed Sedge	<i>Carex sparganioides</i>	5
Plant	Vascular Plant	Three-seeded sedge	<i>Carex trisperma</i>	3
Plant	Vascular Plant	Wood's Sedge	<i>Carex woodii</i>	4

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Mountain Hackberry	<i>Celtis occidentalis</i>	5
Plant	Vascular Plant	Nodding Chickweed	<i>Cerastium nutans</i>	5
Plant	Vascular Plant	Longleaf Spikegrass	<i>Chasmanthium sessiliflorum</i> <i>var. sessiliflorum</i>	4
Plant	Vascular Plant	Hicaco, Icaco, Jicaco	<i>Chrysobalanus icaco</i>	6
Plant	Vascular Plant	Golden Saxifrage	<i>Chrysosplenium americanum</i>	4
Plant	Vascular Plant	Slender Wood-reed	<i>Cinna latifolia</i>	4
Plant	Vascular Plant	Whorled Horsebalm	<i>Collinsonia verticillata</i>	8
Plant	Vascular Plant	Sweet Fern	<i>Comptonia peregrina</i>	4
Plant	Vascular Plant	Autumn Coral-root	<i>Corallorhiza odontorhiza</i>	4
Plant	Vascular Plant	Broadleaf Coreopsis	<i>Coreopsis latifolia</i>	4
Plant	Vascular Plant	Blue Ridge Coreopsis	<i>Coreopsis pubescens</i> <i>var. robusta</i>	5
Plant	Vascular Plant	Balsam Mountain Hawthorn	<i>Crataegus oreophila</i>	5
Plant	Vascular Plant	Schuetze's Hawthorn	<i>Crataegus schuettei</i>	4
Plant	Vascular Plant	Littlehip Hawthorn	<i>Crataegus spathulata</i>	3
Plant	Vascular Plant	showy lady's-slipper	<i>Cypripedium reginae</i>	6
Plant	Vascular Plant	Bulblet Bladder Fern	<i>Cystopteris bulbifera</i>	3
Plant	Vascular Plant	Upland Bladder-fern	<i>Cystopteris tenuis</i>	3
Plant	Vascular Plant	Bog Oatgrass	<i>Danthonia epilis</i>	4
Plant	Vascular Plant	Prickly Ground-pine	<i>Dendrolycopodium dendroideum</i>	3

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Large-bract Tick-trefoil	<i>Desmodium cuspidatum</i> var. <i>cuspidatum</i>	5
Plant	Vascular Plant	Elf Orpine	<i>Diamorpha smallii</i>	3
Plant	Vascular Plant	Bleeding heart	<i>Dicentra eximia</i>	4
Plant	Vascular Plant	American Witch Grass	<i>Dichanthelium columbianum</i>	4
Plant	Vascular Plant	Low White-haired Witch Grass	<i>Dichanthelium linearifolium</i>	5
Plant	Vascular Plant	Glade Fern	<i>Diplazium pycnocarpon</i>	4
Plant	Vascular Plant	Leatherwood	<i>Dirca palustris</i>	4
Plant	Vascular Plant	Spinulose Woodfern	<i>Dryopteris carthusiana</i>	5
Plant	Vascular Plant	Crested Woodfern	<i>Dryopteris cristata</i>	4
Plant	Vascular Plant	Goldie's Woodfern	<i>Dryopteris goldiana</i>	4
Plant	Vascular Plant	Wild Mock Cucumber	<i>Echinocystis lobata</i>	3
Plant	Vascular Plant	American Waterwort	<i>Elatine americana</i>	5
Plant	Vascular Plant	Englemann's Spikerush	<i>Eleocharis engelmannii</i>	3
Plant	Vascular Plant	Bald Spikerush	<i>Eleocharis erythropoda</i>	5
Plant	Vascular Plant	Small's Spikerush	<i>Eleocharis palustris</i>	5
Plant	Vascular Plant	Canada Waterweed	<i>Elodea canadensis</i>	3
Plant	Vascular Plant	Nuttall's Elodea	<i>Elodea nuttallii</i>	5
Plant	Vascular Plant	Great Plains Wild Rye	<i>Elymus canadensis</i> var. <i>canadensis</i>	5
Plant	Vascular Plant	Riverbank Wild Rye	<i>Elymus riparius</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	linear-leaved willow-herb	<i>Epilobium leptophyllum</i>	4
Plant	Vascular Plant	Tawny cotton-grass	<i>Eriophorum virginicum</i>	4
Plant	Vascular Plant	Eastern Wahoo	<i>Euonymus atropurpureus</i> var. <i>atropurpureus</i>	5
Plant	Vascular Plant	Godfrey's thoroughwort	<i>Eupatorium godfreyanum</i>	4
Plant	Vascular Plant	Britton's Eupatorium	<i>Eupatorium sessilifolium</i> var. <i>brittonianum</i>	5
Plant	Vascular Plant	Alexander's Rock Aster	<i>Eurybia avita</i>	5
Plant	Vascular Plant	Piedmont Aster	<i>Eurybia mirabilis</i>	3
Plant	Vascular Plant	Creeping Aster	<i>Eurybia surculosa</i>	4
Plant	Vascular Plant	Nuttall's Flat-top Goldenrod	<i>Euthamia graminifolia</i> var. <i>nuttallii</i>	7
Plant	Vascular Plant	Spotted Joe-pye Weed	<i>Eutrochium maculatum</i> var. <i>maculatum</i>	5
Plant	Vascular Plant	Crested Climbing Buckwheat	<i>Fallopia cristata</i>	5
Plant	Vascular Plant	Woodland Strawberry	<i>Fragaria vesca</i> var. <i>americana</i>	5
Plant	Vascular Plant	Carolina Buckthorn	<i>Frangula caroliniana</i>	4
Plant	Vascular Plant	Rough Bedstraw	<i>Galium asprellum</i>	5
Plant	Vascular Plant	Lanceleaf Wild Licorice	<i>Galium lanceolatum</i>	5
Plant	Vascular Plant	Creeping Snowberry	<i>Gaultheria hispidula</i>	6
Plant	Vascular Plant	Appalachian Gentian	<i>Gentiana austromontana</i>	4

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Closed Gentian	<i>Gentiana clausa</i>	3
Plant	Vascular Plant	dwarf rattlesnake plantain	<i>Goodyera repens</i>	4
Plant	Vascular Plant	Grotto Alumroot	<i>Heuchera parviflora</i> var. <i>parviflora</i>	4
Plant	Vascular Plant	Sauratown Grotto Alumroot	<i>Heuchera parviflora</i> var. <i>saurensis</i>	SCC
Plant	Vascular Plant	Granite Dome Bluet	<i>Houstonia longifolia</i> var. <i>glabra</i>	4
Plant	Vascular Plant	Summer Bluet	<i>Houstonia lanceolata</i>	8
Plant	Vascular Plant	Puerto Rico clubmoss	<i>Huperzia acerosa</i>	6
Plant	Vascular Plant	Appalachian fir clubmoss	<i>Huperzia appalachiana</i>	4
Plant	Vascular Plant	Ashy Hydrangea	<i>Hydrangea cinerea</i>	5
Plant	Vascular Plant	Largeleaf Waterleaf	<i>Hydrophyllum macrophyllum</i>	4
Plant	Vascular Plant	Blue Ridge St. John's-wort	<i>Hypericum buckleyi</i>	4
Plant	Vascular Plant	pale St. John's-wort	<i>Hypericum ellipticum</i>	5
Plant	Vascular Plant	Mountain St. John's-wort	<i>Hypericum graveolens</i>	4
Plant	Vascular Plant	Blue Ridge St. John's-wort	<i>Hypericum mitchellianum</i>	4
Plant	Vascular Plant	Standing Cedar	<i>Ipomopsis rubra</i>	3
Plant	Vascular Plant	Whorled Pogonia	<i>Isotria verticillata</i>	4
Plant	Vascular Plant	narrow-panicled rush	<i>Juncus brevicaudatus</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Nodding Rush	<i>Juncus secundus</i>	5
Plant	Vascular Plant	Torrey's Rush	<i>Juncus torreyi</i>	8
Plant	Vascular Plant	Two-flower Dwarf-dandelion	<i>Krigia biflora var. biflora</i>	5
Plant	Vascular Plant	Smooth Peavine	<i>Lathyrus venosus</i>	4
Plant	Vascular Plant	New England Blazing-star	<i>Liatris scariosa var. scariosa</i>	5
Plant	Vascular Plant	Flatrock Pimpernel	<i>Lindernia monticola</i>	3
Plant	Vascular Plant	Southern Twayblade	<i>Listera australis</i>	3
Plant	Vascular Plant	Heartleaf Twayblade	<i>Listera cordata var. cordata</i>	5
Plant	Vascular Plant	Yellow Honeysuckle	<i>Lonicera flava</i>	4
Plant	Vascular Plant	Heath Woodrush	<i>Luzula multiflora var. multiflora</i>	5
Plant	Vascular Plant	Southern Loosestrife	<i>Lysimachia tonsa</i>	8
Plant	Vascular Plant	Eastern Agave	<i>Manfreda virginica</i>	4
Plant	Vascular Plant	Virginia Bluebells	<i>Mertensia virginica</i>	3
Plant	Vascular Plant	Carey Saxifrage	<i>Micranthes careyana</i>	4
Plant	Vascular Plant	Arkansas Horsemint	<i>Monarda punctata var. arkansana</i>	5
Plant	Vascular Plant	Mexican Muhly	<i>Muhlenbergia mexicana</i>	5
Plant	Vascular Plant	Rock Muhly	<i>Muhlenbergia sobolifera</i>	8
Plant	Vascular Plant	Woodland Muhly	<i>Muhlenbergia sylvatica</i>	5
Plant	Vascular Plant	Roan Rattlesnakeroot	<i>Nabalus roanensis</i>	4

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Slender Waternymph	<i>Najas gracillima</i>	5
Plant	Vascular Plant	Dwarf ginseng	<i>Panax trifolius</i>	4
Plant	Vascular Plant	Pennsylvania Pellitory	<i>Parietaria pennsylvanica</i>	5
Plant	Vascular Plant	Mountain Nailwort	<i>Paronychia montana</i>	5
Plant	Vascular Plant	Hairy-seed Crown Grass	<i>Paspalum pubiflorum var. glabrum</i>	5
Plant	Vascular Plant	Purple-stem Cliff-brake	<i>Pellaea atropurpurea</i>	4
Plant	Vascular Plant	Hairy Mock-orange	<i>Philadelphus hirsutus</i>	4
Plant	Vascular Plant	Odorless Mock-orange	<i>Philadelphus inodorus</i>	4
Plant	Vascular Plant	Broadleaf phlox	<i>Phlox amplifolia</i>	4
Plant	Vascular Plant	Wild Blue Phlox	<i>Phlox divaricata</i>	5
Plant	Vascular Plant	Fetterbush	<i>Pieris floribunda</i>	5
Plant	Vascular Plant	Large White Fringed Orchid	<i>Platanthera blephariglottis</i>	3
Plant	Vascular Plant	Erect Knotweed	<i>Polygonum erectum</i>	5
Plant	Vascular Plant	Glade Knotweed	<i>Polygonum tenue</i>	5
Plant	Vascular Plant	Canada Leaf-cup	<i>Polymnia canadensis</i>	5
Plant	Vascular Plant	Bigtooth Aspen	<i>Populus grandidentata</i>	5
Plant	Vascular Plant	Leafy Pondweed	<i>Potamogeton foliosus</i>	4
Plant	Vascular Plant	Canada plum	<i>Prunus nigra</i>	3
Plant	Vascular Plant	Choke Cherry	<i>Prunus virginiana var. virginiana</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Wafer-ash	<i>Ptelea trifoliata</i>	4
Plant	Vascular Plant	Basil Mountain-mint	<i>Pycnanthemum clinopodioides</i>	5
Plant	Vascular Plant	American Shinleaf	<i>Pyrola americana</i>	3
Plant	Vascular Plant	Chinquapin Oak	<i>Quercus muehlenbergii</i>	4
Plant	Vascular Plant	Pin Oak	<i>Quercus palustris</i>	3
Plant	Vascular Plant	Allegheny Mountain Buttercup	<i>Ranunculus allegheniensis</i>	5
Plant	Vascular Plant	Roseroot	<i>Rhodiola rosea</i>	3
Plant	Vascular Plant	Boynton's Locust	<i>Robinia hispida var. rosea</i>	5
Plant	Vascular Plant	Bristly Blackberry	<i>Rubus setosus</i>	5
Plant	Vascular Plant	A Coneflower	<i>Rudbeckia laciniata var. humilis</i>	5
Plant	Vascular Plant	A Coneflower	<i>Rudbeckia triloba var. rupestris</i>	5
Plant	Vascular Plant	Pale Dock	<i>Rumex altissimus</i>	3
Plant	Vascular Plant	Prairie Pink	<i>Sabatia campestris</i>	
Plant	Vascular Plant	Rose Gentian	<i>Sabatia capitata</i>	5
Plant	Vascular Plant	Northern Pearlwort	<i>Sagina procumbens</i>	5
Plant	Vascular Plant	Green Pitcher Plant	<i>Sarracenia oreophila</i>	3
Plant	Vascular Plant	Showy Skullcap	<i>Scutellaria serrata</i>	3
Plant	Vascular Plant	Wild Senna	<i>Senna hebecarpa</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Sticky Catchfly	<i>Silene caroliniana</i> var. <i>pennsylvanica</i>	3
Plant	Vascular Plant	Huger's carrion-flower	<i>Smilax hugeri</i>	4
Plant	Vascular Plant	Forest Goldenrod	<i>Solidago arguta</i> var. <i>arguta</i>	4
Plant	Vascular Plant	Downy Goldenrod	<i>Solidago puberula</i> var. <i>puberula</i>	5
Plant	Vascular Plant	Rough-leaved Goldenrod	<i>Solidago aestivalis</i>	5
Plant	Vascular Plant	Squarrose goldenrod	<i>Solidago squarrosa</i>	8
Plant	Vascular Plant	Prairie Wedgescale	<i>Sphenopholis intermedia</i>	5
Plant	Vascular Plant	Narrow-leaf Meadowsweet	<i>Spiraea alba</i>	4
Plant	Vascular Plant	Broadleaf Meadowsweet	<i>Spiraea latifolia</i>	4
Plant	Vascular Plant	yellow nodding ladies'-tresses	<i>Spiranthes ochroleuca</i>	SCC
Plant	Vascular Plant	Smooth Hedge-nettle	<i>Stachys tenuifolia</i>	8
Plant	Vascular Plant	Longstalk Starwort	<i>Stellaria alsine</i>	4
Plant	Vascular Plant	Purple-stem Aster	<i>Symphyotrichum firmum</i>	5
Plant	Vascular Plant	New England Aster	<i>Symphyotrichum novae-angliae</i>	4
Plant	Vascular Plant	Pineland Squarehead	<i>Tetragonotheca helianthoides</i>	3
Plant	Vascular Plant	bristly sarsaparilla, American Arborvitae	<i>Thuja occidentalis</i>	6
Plant	Vascular Plant	American Basswood	<i>Tilia americana</i> var. <i>americana</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Hairy Spiderwort	<i>Tradescantia hirsuticaulis</i>	5
Plant	Vascular Plant	Deerhair Bulrush	<i>Trichophorum cespitosum</i>	4
Plant	Vascular Plant	narrow-leaved blue curls	<i>Trichostema setaceum</i>	8
Plant	Vascular Plant	Bent White Trillium	<i>Trillium flexipes</i>	3
Plant	Vascular Plant	Southern Nodding Trillium	<i>Trillium rugelii</i>	4
Plant	Vascular Plant	Early Horse Gentian	<i>Triosteum aurantiacum var. aurantiacum</i>	5
Plant	Vascular Plant	Three Birds Orchid	<i>Triphora trianthophoros var. trianthophoros</i>	4
Plant	Vascular Plant	Soft Trisetum	<i>Trisetum spicatum</i>	5
Plant	Vascular Plant	Eastern Hemlock	<i>Tsuga canadensis</i>	4
Plant	Vascular Plant	September Elm	<i>Ulmus serotina</i>	8
Plant	Vascular Plant	Hairy blueberry	<i>Vaccinium hirsutum</i>	4
Plant	Vascular Plant	Woodland Cornsalad	<i>Valerianella umbilicata</i>	5
Plant	Vascular Plant	Blue Vervain	<i>Verbena hastata</i>	5
Plant	Vascular Plant	A Crownbeard	<i>Verbesina helianthoides</i>	3
Plant	Vascular Plant	Frostweed	<i>Verbesina virginica var. virginica</i>	3
Plant	Vascular Plant	Walter's Crownbeard	<i>Verbesina walteri</i>	3
Plant	Vascular Plant	Blue Water Speedwell	<i>Veronica anagallis-aquatica</i>	3
Plant	Vascular Plant	Culver's-root	<i>Veronicastrum virginicum</i>	3
Plant	Vascular Plant	Alpine Violet	<i>Viola labradorica</i>	5

Group	Type	Common Name	Scientific Name	Rationale for Exclusion From Further Analysis
Plant	Vascular Plant	Three-parted Violet	<i>Viola tripartita</i>	5
Plant	Vascular Plant	Prostrate Blue Violet	<i>Viola walteri</i>	8
Plant	Vascular Plant	Weakleaf Yucca	<i>Yucca flaccida</i>	8

Species associations to ecosystems, unique habitats and species groups

Species in table C-3 are those that were included in the ecological sustainability evaluation and were associated with coarse-filter elements (ecosystems and/or species groups) based on Forest Service interdisciplinary team members, pre-DEIS expert panel (refer to project record for description of this panel), and other state, federal, or other species expert advice during DEIS comment period.

Expected outcomes for ecosystems, unique habitats and species groups

Table C-5 provides expected outcomes and composite scores by alternative and time period for all ESE ecozones, unique habitats, and terrestrial species groups. Indicator ranges and weights are described in the NP ESE Tool. Ecozone composite scores are carried to the next table to display forest-wide condition and expected outcomes. Aquatic Species Group composite scores are summarized at the bottom of this table. More information on aquatic ecological sustainability, as represented by watershed health and resilience, is available in the watershed composite score summary.

This table also contains elements and indicators that are not housed in the ESE Tool, but have been included to improve analysis of potential effects. The same composite score process was used for these components.

Indicators for coarse-filter elements were identified based on primary factors influencing habitat quality and quantity on the Forests that are relevant to the particular ecosystem or species group. To be useful, these indicators needed to have reliable and relevant data available. Data sources for each element are included in this appendix and represent the use of best available science. Using best available science does not mean all relevant data was used, but rather reliable, accurate, and repeatable information. Data for each indicator was ranked poor, fair, good, or very good based on simple quartiles or statistical summary of data distribution. These processes are documented in the project record.

A key consideration in using the ESE tool for this evaluation is capturing the direction of anticipated change from current to future conditions under the planning framework. To do this, the ESE tool uses four categories of overall scoring: poor, fair, good and very good. Since many of the ecozones in western NC were damaged and degraded in the past, many are currently estimated to be in a category of *poor* or *fair* condition (compared with desired conditions Proposed Plan, Terrestrial Ecosystems, Tables 2 & 3), depending on the extent of recovery that has occurred over the last 80 to 100 years and may take multiple planning cycles to see improvement.

Table C-4. Overall Ecological Sustainability Scores

Range of Condition Score	Condition	Definition of Ecological Sustainability Evaluation Score Applied to Planning Elements
3.25 to 4	Very Good (VG)	Element conditions are optimal
2.50 to 3.24	Good (G)	Element conditions are acceptable
1.75 to 2.49	Fair (F)	Element conditions are slightly inadequate
1.00 to 1.74	Poor (P)	Element conditions are severely inadequate

Another important interpretation of ESE tool conditions for this evaluation is whether or not the ecozone or species group scores would improve over the next 10 to 50 years, even if the condition remains in the same condition category. When the ecological sustainability score improves over existing condition by moving from a lower to a higher ranking, or by improving the score within the same ranking over time, it is assumed that plant and animal species associated with the ecozone or species group would persist, and potentially improve this persistence or recovery. Maintaining a stable score means that the current condition of the plant and animal species associated with the ecozone or species group would be maintained. Conversely, declining overall scores over time indicate that alternatives may not adequately protect ecosystem sustainability and the diversity of associated species. The EIS discloses when it is

beyond the authority of the Forest Service, or not within the inherent capability of the plan area, to maintain or restore ecological conditions that would result in maintaining or improving the ecological sustainability score.

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Table C-5. Expected outcomes and composite scores by alternative and time period for all NP ESE Tool Ecosystems (ecozones and unique habitats) and terrestrial Species Groups. Indicator ranges and weights are described in the NP ESE Tool. Ecozone composite scores are carried to the next table to display forest-wide condition and expected outcomes. This table contains elements and indicators that are not housed in the ESE Tool, but have been included to improve analysis of potential effects. The same composite score process was used for these components. Aquatic Species Group composite scores are summarized at the bottom of this table. More information on aquatic ecological sustainability, as represented by watershed health and resilience, is available in the watershed composite score summary.

Element Type	Element Name	Indicator Name*	Data Source(s)*	Weight*	Existing	A-10	A-50	B1-10	B1-50	B2-10	B2-50	C1-10	C1-50	C2-10	C2-50	D1-10	D1-50	D2-10	D2-50	E1-10	E1-50	E2-10	E2-50
Ecosystem	Acidic Cove Forest	Percent of ecosystem dominated by characteristic canopy species	FSVeg, PNV	Moderate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Ecosystem	Acidic Cove Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High	Red	Green	Red	Green	Red	Yellow	Red	Green	Red	Yellow	Red	Green	Red	Yellow	Red	Green	Red	Yellow	
Ecosystem	Acidic Cove Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green	
Ecosystem	Acidic Cove Forest	Percent of ecosystem occupied by nonnative invasive plant species	NCNHP EO rank; recent observations	Moderate	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Acidic Cove Forest	Total open road density within the acidic cove forest ecosystem	INFRA, FSVeg, PNV	Moderate	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Acidic Cove Forest	COMPOSITE SCORE				Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Ecosystem	Beech Gap/Boulderfield Forest	Percent of ecosystem dominated by characteristic native vegetation	NCNHP description; recent observations	Very High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Beech Gap/Boulderfield Forest	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Beech Gap/Boulderfield Forest	COMPOSITE SCORE				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ecosystem	Calcareous Oak-walnut Forest	Percent of ecosystem dominated by characteristic native vegetation	NCNHP description; recent observations	High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Calcareous Oak-walnut Forest	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Calcareous Oak-walnut Forest	COMPOSITE SCORE				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ecosystem	Carolina Hemlock Forest	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Carolina Hemlock Forest	Percent of ecosystem occupied by Carolina Hemlock	aerial imagery; recent observations	Very High	Yellow	Yellow	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	
Ecosystem	Carolina Hemlock Forest	Percent of ecosystem representing high quality habitat	recent observations	Very High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Carolina Hemlock Forest	COMPOSITE SCORE				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ecosystem	Caves and Abandoned Mines	Percent of known caves and abandoned mines identified as Biologically Significant (supporting bat or other rare species populations) per the Federal Cave Resources Protection Act (FCRPA)	FS Significant Cave Resources determination	High	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Caves and Abandoned Mines	Presence of WNS in bat populations within abandoned caves and mines	FS, NCWRC, et al. cave monitoring	Very High	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Ecosystem	Caves and Abandoned Mines	The percent of occupied mines or caves (or rare bats) adversely impacted by...	FS, NCWRC, et al. cave monitoring	High	Yellow	Yellow	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	
Ecosystem	Caves and Abandoned Mines	COMPOSITE SCORE				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ecosystem	Dry Oak Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	High	Yellow	Yellow	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	
Ecosystem	Dry Oak Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High	Red	Green	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry Oak Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High	Red	Red	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry Oak Forest	Percent of ecosystem in open canopy condition	LIDAR, departure assessment, NRV estimation, gap analysis,...	Very High	Red	Red	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry Oak Forest	Percent of ecosystem NOT occupied by invasive species	recent observations	Low	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Dry Oak Forest	Total open road density within the dry oak forest ecosystem	INFRA, FSVeg, PNV	Moderate	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Ecosystem	Dry Oak Forest	COMPOSITE SCORE				Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Ecosystem	Dry-mesic Oak Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	High	Yellow	Yellow	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	
Ecosystem	Dry-mesic Oak Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High	Red	Green	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry-mesic Oak Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High	Red	Red	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry-mesic Oak Forest	Percent of ecosystem in open canopy condition	LIDAR, departure assessment, NRV estimation, gap analysis,...	Very High	Red	Red	Red	Green	Red	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	
Ecosystem	Dry-mesic Oak Forest	Percent of ecosystem NOT occupied by invasive species	recent observations	Moderate	Yellow	Yellow	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	Yellow	Green	

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Element Type	Element Name	Indicator Name*	Data Source(s)*	Weight*	Existing	A-10	A-50	B1-10	B1-50	B2-10	B2-50	C1-10	C1-50	C2-10	C2-50	D1-10	D1-50	D2-10	D2-50	E1-10	E1-50	E2-10	E2-50
Ecosystem	Dry-mesic Oak Forest	Total open road density within the dry-mesic oak forest ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	Dry-mesic Oak Forest	COMPOSITE SCORE																					
Ecosystem	Floodplain Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Moderate																			
Ecosystem	Floodplain Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Floodplain Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Floodplain Forest	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Floodplain Forest	Total open road density within the floodplain forest ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	Floodplain Forest	COMPOSITE SCORE																					
Ecosystem	Floodplain Pools	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Floodplain Pools	Percent of floodplain pools experiencing at least one flood annually	USGS flow data; expert judgement	Moderate																			
Ecosystem	Floodplain Pools	COMPOSITE SCORE																					
Ecosystem	Grassy Balds	Percent of ecosystem in open canopy condition	LIDAR, departure assessment; NRV estimation	Very High																			
Ecosystem	Grassy Balds	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Grassy Balds	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	High																			
Ecosystem	Grassy Balds	COMPOSITE SCORE																					
Ecosystem	High Elevation Granitic Domes	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	High Elevation Granitic Domes	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	High Elevation Granitic Domes	COMPOSITE SCORE																					
Ecosystem	High Elevation Red Oak Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Moderate																			
Ecosystem	High Elevation Red Oak Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	High Elevation Red Oak Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	High Elevation Red Oak Forest	Percent of ecosystem in open canopy condition	LIDAR, departure assessment; NRV estimation; gap analysis	High																			
Ecosystem	High Elevation Red Oak Forest	Total open road density within the high elevation red oak ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	High Elevation Red Oak Forest	COMPOSITE SCORE																					
Ecosystem	High Elevation Rocky Summits	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	High Elevation Rocky Summits	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	High Elevation Rocky Summits	COMPOSITE SCORE																					
Ecosystem	Low Elevation Glades	Percent of ecosystem burned at desired return interval	NCNHP EO; FS Rx fire history	High																			
Ecosystem	Low Elevation Glades	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Low Elevation Glades	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO, INFRA, trails data	Very High																			
Ecosystem	Low Elevation Glades	COMPOSITE SCORE																					
Ecosystem	Low Elevation Granitic Domes	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Low Elevation Granitic Domes	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	Low Elevation Granitic Domes	COMPOSITE SCORE																					
Ecosystem	Low Elevation Rocky Summits	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Low Elevation Rocky Summits	Percent of system acres burned at desired return interval	NCNHP EO; FS Rx fire history	Very High																			
Ecosystem	Low Elevation Rocky Summits	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	Low Elevation Rocky Summits	COMPOSITE SCORE																					
Ecosystem	Mesic Oak Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	High																			
Ecosystem	Mesic Oak Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			

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Element Type	Element Name	Indicator Name*	Data Source(s)*	Weight*	Existing	A-10	A-50	B1-10	B1-50	B2-10	B2-50	C1-10	C1-50	C2-10	C2-50	D1-10	D1-50	D2-10	D2-50	E1-10	E1-50	E2-10	E2-50
Ecosystem	Mesic Oak Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Mesic Oak Forest	Percent of ecosystem in open canopy condition	LIDAR, departure assessment, NRV estimation, gap analysis, etc.	Very High																			
Ecosystem	Mesic Oak Forest	Percent of ecosystem NOT occupied by invasive species	recent observations	Moderate																			
Ecosystem	Mesic Oak Forest	Total open road density within the mesic oak forest ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	Mesic Oak Forest			COMPOSITE SCORE																			
Ecosystem	Montane Calcareous Cliffs	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Montane Calcareous Cliffs	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	Montane Calcareous Cliffs			COMPOSITE SCORE																			
Ecosystem	Montane Cliffs	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Montane Cliffs	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	High																			
Ecosystem	Montane Cliffs			COMPOSITE SCORE																			
Ecosystem	Montane Red Cedar Hardwood Woodlands	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Montane Red Cedar Hardwood Woodlands	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	Montane Red Cedar Hdwd Woodlands			COMPOSITE SCORE																			
Ecosystem	Northern Hardwood Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Moderate																			
Ecosystem	Northern Hardwood Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Northern Hardwood Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Northern Hardwood Forest	Percent of ecosystem NOT occupied by invasive species	recent observations	High																			
Ecosystem	Northern Hardwood Forest	Total open road density within the northern hardwood forest ecosystem	INFRA, FSVeg, PNV	Low																			
Ecosystem	Northern Hardwood Forest			COMPOSITE SCORE																			
Ecosystem	Pine Oak-Heath Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Very High																			
Ecosystem	Pine Oak-Heath Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Pine Oak-Heath Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Pine Oak-Heath Forest	Percent of ecosystem in open canopy condition	LIDAR, departure assessment, NRV estimation, gap analysis, etc.	Very High																			
Ecosystem	Pine Oak-Heath Forest	Percent of ecosystem occupied by invasive species	NCNHP EO rank; recent observations	Moderate																			
Ecosystem	Pine Oak-Heath Forest	Total open road density within the pine oak heath ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	Pine Oak-Heath Forest			COMPOSITE SCORE																			
Ecosystem	Rich Cove Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Moderate																			
Ecosystem	Rich Cove Forest	Percent of ecosystem exhibiting mature forest characteristics	FSVeg, PNV, NRV, Spectrum	Very High																			
Ecosystem	Rich Cove Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Rich Cove Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																			
Ecosystem	Rich Cove Forest	Percent of ecosystem occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Rich Cove Forest	Total open road density within the rich cove forest ecosystem	INFRA, FSVeg, PNV	Moderate																			
Ecosystem	Rich Cove Forest			COMPOSITE SCORE																			
Ecosystem	Rocky Bars and Shore	Percent of ecosystem experiencing periodic flooding	NCNHP EO; USGS flow data; expert judgement	High																			
Ecosystem	Rocky Bars and Shore	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																			
Ecosystem	Rocky Bars and Shore			COMPOSITE SCORE																			
Ecosystem	Seeps	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																			
Ecosystem	Seeps	Percent of ecosystem occurrence within 100 meters of road or trail	NCNHP EO; INFRA; FS trails data	Very High																			
Ecosystem	Seeps			COMPOSITE SCORE																			

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Ecosystem	Serpentine Woodlands	Percent of ecosystem burned at desired return interval	NCNHP EO; FS Rx fire history	High																					
Ecosystem	Serpentine Woodlands	Percent of the ecosystem with unpermitted rock or mineral harvest	Professional judgement; expert advice	High																					
Ecosystem	Serpentine Woodlands	COMPOSITE SCORE																							
Ecosystem	Shortleaf Pine Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Very High																					
Ecosystem	Shortleaf Pine Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																					
Ecosystem	Shortleaf Pine Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																					
Ecosystem	Shortleaf Pine Forest	Percent of ecosystem in open canopy condition	LiDAR, departure assessment, NRV estimation, gap analysis,	Very High																					
Ecosystem	Shortleaf Pine Forest	Percent of ecosystem occupied by invasive species	recent observations	Moderate																					
Ecosystem	Shortleaf Pine Forest	Total open road density within the shortleaf pine ecosystem	INFRA, FSVeg, PNV	Moderate																					
Ecosystem	Shortleaf Pine Forest	COMPOSITE SCORE																							
Ecosystem	Shrub Balds	Percent of ecosystem in open canopy condition	LiDAR, aerial photography	High																					
Ecosystem	Shrub Balds	COMPOSITE SCORE																							
Ecosystem	Southern Appalachian Bogs	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																					
Ecosystem	Southern Appalachian Bogs	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Very High																					
Ecosystem	Southern Appalachian Bogs	Shrub to herbaceous species ratio	aerial imagery; recent observations	Very High																					
Ecosystem	Southern Appalachian Bogs	COMPOSITE SCORE																							
Ecosystem	Spray Cliffs	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	High																					
Ecosystem	Spray Cliffs	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Moderate																					
Ecosystem	Spray Cliffs	COMPOSITE SCORE																							
Ecosystem	Spruce-fir Forest	Percent of ecosystem exhibiting old growth conditions	FSVeg, PNV, NRV, Spectrum	High																					
Ecosystem	Spruce-fir Forest	Percent of ecosystem exhibiting young forest conditions	FSVeg, PNV, NRV, Spectrum	High																					
Ecosystem	Spruce-fir Forest	Percent of the ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Very High																					
Ecosystem	Spruce-fir Forest	Percent of the ecosystem impacted by balsam wooly adelgid	aerial imagery; recent observations	High																					
Ecosystem	Spruce-fir Forest	Total open road density within the spruce-fir forest ecosystem	INFRA, FSVeg, PNV	Moderate																					
Ecosystem	Spruce-fir Forest	COMPOSITE SCORE																							
Ecosystem	Swamp Forest-bog Complex	Percent of ecosystem NOT occupied by invasive species	recent observations	High																					
Ecosystem	Swamp Forest-bog Complex	COMPOSITE SCORE																							
Ecosystem	Vernal Pools	Percent of ecosystem NOT occupied by invasive species	recent observations	High																					
Ecosystem	Vernal Pools	Presence of fish in seasonal wetlands	recent observations	Very High																					
Ecosystem	Vernal Pools	COMPOSITE SCORE																							
Ecosystem	White Pine Forest	Percent of ecosystem dominated by the ecologically characteristic canopy species	FSVeg, PNV	Very High																					
Ecosystem	White Pine Forest	Percent of ecosystem NOT occupied by invasive species	recent observations	Very High																					
Ecosystem	White Pine Forest	COMPOSITE SCORE																							
Ecosystem	Woodlands and Shale Slopes	Percent of ecosystem burned at desired return interval	FS Rx fire history	Moderate																					
Ecosystem	Woodlands and Shale Slopes	Percent of ecosystem NOT occupied by invasive species	NCNHP EO rank; recent observations	Very High																					
Ecosystem	Woodlands and Shale Slopes	Percent of ecosystem occurrences within 100 feet of road or trail	NCNHP EO; INFRA; FS trails data	Moderate																					
Ecosystem	Woodlands and Shale Slopes	COMPOSITE SCORE																							
Species Group	Bark and Leaf Epiphytes	Ecological system acres in late and old growth seral classes (mesic ecozones)	FSVeg, NRV, PNV	Very High																					
Species Group	Bark and Leaf Epiphytes	Ecological system acres with mid-aged trees (mesic ecozones)	FSVeg, NRV, PNV	Moderate																					
Species Group	Bark and Leaf Epiphytes	COMPOSITE SCORE																							
Species Group	Closed Canopy Associates	Percent of NP with at least moderately closed canopy	FSVeg, PNV, NRV, Spectrum	High																					
Species Group	Closed Canopy Associates	COMPOSITE SCORE																							

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Species Group	Coarse Woody Debris and Downed Wood Associates	CWD density	FVS	High																			
Species Group	CWD and Downed Wood Associates	COMPOSITE SCORE																					
Species Group	Dispersal-limited Species	Barriers to Aquatic Species Movement	WCF, ESE WS module (mean CS)	High																			
Species Group	Dispersal-limited Species	Barriers to movement of small-ranging species (road density)	ESE ES Road Density (mean ES), INFRA, FSveg, PNV	High																			
Species Group	Dispersal-limited Species	Barriers to movement of small-ranging species (gap size)	FSVeg, Spectrum, disturbance, gap analysis	High																			
Species Group	Dispersal-limited Species	Potential effects of forest management on TE/SCC	NCNHP	High																			
Species Group	Dispersal-limited Species	Potential effects of forest management on terrestrial salamanders	Apodaca and Smith (2019)	High																			
Species Group	Dispersal-limited Species	COMPOSITE SCORE																					
Species Group	Fire-adapted Species	Percent ecozone burned at desired return interval (Buck Creek Serpentine Barrens)	FSVeg, PNV, FS Rx fire history	Very High																			
Species Group	Fire-adapted Species	Percent ecozone burned at desired return interval (Low Elevation Glades)	FSVeg, PNV, FS Rx fire history	High																			
Species Group	Fire-adapted Species	Percent ecozone burned at desired return interval (Low Elevation Rocky Summits)	FSVeg, PNV, FS Rx fire history	Very High																			
Species Group	Fire-adapted Species	Percent ecozone burned at desired return interval (Woodlands and Shale Slopes)	FSVeg, PNV, FS Rx fire history	Moderate																			
Species Group	Fire-adapted Species	Percent open forest conditions within fire-adapted ecozones	FSVeg, PNV, NRV, Spectrum	High																			
Species Group	Fire-adapted Species	COMPOSITE SCORE																					
Species Group	Fire-intolerant Species	Acres burned within mesic ecozones	FSVeg, PNV, FS Rx fire history	Very High																			
Species Group	Fire-intolerant Species	COMPOSITE SCORE																					
Species Group	Forest Edge and Transition Associates	Acres of edge and transitional habitat	FS Gap Analysis; USGS Landcover	Moderate																			
Species Group	Forest Edge and Transition Associates	Miles of forest edge	FS Gap Analysis; USGS Landcover	Moderate																			
Species Group	Forest Edge and Transition Associates	COMPOSITE SCORE																					
Species Group	Hard and Soft Mast Dependent Species	Percent of oak ecozones in mid- and late-seral forest	FSVeg, NRV, PNV, Spectrum	Moderate																			
Species Group	Hard and Soft Mast Dependent Species	Miles of forest edge (soft mast)	FS Gap Analysis; USGS Landcover	High																			
Species Group	Hard and Soft Mast Dependent Species	Pounds per acre of acorn production (hard mast)	FVS	High																			
Species Group	Hard/Soft Mast Dependent Species	COMPOSITE SCORE																					
Species Group	Interior Forest Associates	Acres of interior forest habitat	FS Gap Analysis; USGS Landcover	High																			
Species Group	Interior Forest Associates	Edge to Interior Forest Ratio	FS Gap Analysis; USGS Landcover	Moderate																			
Species Group	Interior Forest Associates	Percent of Forest with Canopy Cover >= 60%	NC Audubon	High																			
Species Group	Interior Forest Associates	COMPOSITE SCORE																					
Species Group	Old Forest Associates	CWD density under natural conditions	FVS	High																			
Species Group	Old Forest Associates	Percent of each ecozone contributing to old growth forest characteristics	FSVeg, NRV, Spectrum	Very High																			
Species Group	Old Forest Associates	Percent of forest represented by small openings (<0.25 acre)	FS Gap Analysis	High																			
Species Group	Recreation Traffic Sensitive Species	Cave/Mine Gate Indicator	FS data, NCWRC data	Moderate																			
Species Group	Recreation Traffic Sensitive Species	Roads & Trail Indicator	FS data, SAB summary analysis	High																			
Species Group	Recreation Traffic Sensitive Species	COMPOSITE SCORE																					
Species Group	Road Density Sensitive Species	NHD Density Near Roads and Trails	NHDPlus, INFRA	Moderate																			
Species Group	Road Density Sensitive Species	Percent of amphibian occurrence (T&E/SCC) within 100 feet of an open road	INFRA; NCNHP EOs	Moderate																			
Species Group	Road Density Sensitive Species	Open road density	INFRA	High																			
Species Group	Road Density Sensitive Species	COMPOSITE SCORE																					
Species Group	Snag and Den Tree Associates	Snag Density	FVS	High																			
Species Group	Snag and Den Tree Associates	COMPOSITE SCORE																					
Species Group	Species Persistence and Recovery	Amount of NHNA (top 3 ranks) in MA Group 1 (or density estimate)	NCNHP, FS data	High																			
Species Group	Species Persistence and Recovery	Dam and Stream Crossing Density	NP WCF	High																			

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Species Group	Species Persistence and Recovery	Riparian Road and Trail Density	NP WCF	High																				
Species Group	Species Persistence and Recovery	Salamander core habitat and connectivity	Apodaca and Smith (2019)	High																				
Species Group	Species Persistence and Recovery	Susceptibility to Climate Change	NCNHP, FS data	High																				
Species Group	Species Persistence and Recovery	Susceptibility to Forest Management	NCNHP, FS data	High																				
Species Group	Species Persistence and Recovery	Roads & Trail Indicator	NCNHP, FS data	High																				
Species Group	Species Persistence and Recovery	COMPOSITE SCORE																						
Species Group	Woodland Associates	Percent of acres burned at desired return interval	FS Rx fire history	Moderate																				
Species Group	Woodland Associates	Percent of acres burned at desired return interval (Buck Creek Serpentine Barrens)	FS Rx fire history	High																				
Species Group	Woodland Associates	Percent of NP exhibiting open forest characteristics	LIDAR, NRV, Spectrum	Very High																				
Species Group	Young Forest Associates	Percent of NP exhibiting open forest characteristics	LIDAR, NRV, Spectrum	Moderate																				
Species Group	Young Forest Associates	Percent of NP exhibiting young forest characteristics	FVeg, NRV, Spectrum	High																				
Species Group	Young Forest Associates	Percent of permanent openings functioning as young forest (ESH)	FS Gap Analysis; FS permanent openings data	Moderate																				
Species Group	Stream Associates																							
Species Group	Small River Associates																							
Species Group	Medium and Large River Associates																							
Species Group	Pond, Lake, and Reservoir Associates																							

Expected outcomes for watersheds

This table includes the ESE Tool Composite Scores for USGS 6th level hydrologic units associated with the Nantahala and Pisgah National Forests. Ownership across these watersheds is fragmented-- there are no 6th level hydrologic units with 100% Forest Service ownership. Therefore, each watershed was evaluated on a suite of indicators that addresses both FS lands and other ownerships in the calculation of overall watershed response to implementation of the revised forest plan. This table summarizes those results by alternative and time period. Individual indicator descriptions and values for each watershed can be found in the project record. Priority Watersheds are highlighted.

Table C-6. ESE Tool Composite Scores for USGS 6th level hydrologic units associated with the Nantahala and Pisgah National Forests.

HUC 12	Watershed Name	%FS	Existing	A-10	A-50	BCDE-10	BCDE-50
030501010101	Curtis Creek	88.50%					
030501010102	Headwaters Catawba River	50.89%					
030501010104	Buck Creek	63.73%					
030501010105	Mackey Creek-Catawba River	32.94%					
030501010106	Toms Creek-Catawba River	24.71%					
030501010201	Armstrong Creek	46.23%					
030501010202	North Fork Catawba River	38.59%					
030501010302	Lower Linville River	87.04%					
030501010303	Lake James-Catawba River	23.43%					
030501010401	Upper Warrior Fork	83.38%					
030501010402	Irish Creek	37.75%					
030501010501	Upper Johns River	48.98%					
030501010502	Upper Wilson Creek	79.24%					
030501010503	Mulberry Creek	46.83%					
030501010504	Lower Wilson Creek	83.19%					
030501010505	Middle Johns River	47.65%					
030501010506	Lower Johns River	22.11%					
030601010103	Horsepasture River	6.06%					
030601010104	Whitewater River	38.64%					
030601020201	Headwaters Chattooga River	48.79%					
030601020202	Headwaters West Fork Chattooga River	77.67%					
060101050101	North Fork French Broad River	77.87%					

HUC 12	Watershed Name	%FS	Existing	A-10	A-50	BCDE-10	BCDE-50
060101050102	Cold Springs Creek-Pigeon River	47.84%					
060101050104	Catheys Creek	63.55%					
060101050105	Cherryfield Creek-French Broad River	14.69%					
060101050202	Davidson River	89.45%					
060101050203	Williamson Creek-French Broad River	13.97%					
060101050401	Boylston Creek	6.51%					
060101050402	South Fork Mills River	84.00%					
060101050403	Mills River	61.83%					
060101050501	South Hominy Creek	22.34%					
060101050503	Lower Hominy Creek	9.12%					
060101050704	Avery Creek-French Broad River	6.05%					
060101050705	Bent Creek-French Broad River	27.52%					
060101050801	Dillingham Creek	58.73%					
060101050803	Upper Ivy Creek	16.07%					
060101051001	Upper Big Laurel Creek	9.42%					
060101051002	Upper Shelton Laurel Creek	68.24%					
060101051003	Lower Shelton Laurel Creek	39.06%					
060101051004	Lower Big Laurel Creek	21.49%					
060101051103	Big Pine Creek-French Broad River	9.26%					
060101051201	Meadow Fork	34.76%					
060101051202	Spring Creek	18.77%					
060101051203	Shut-in Creek-French Broad River	64.85%					
060101060101	Lake Logan-West Fork Pigeon River	84.30%					
060101060102	Little East Fork Pigeon River-West Fork Pigeon River	40.58%					
060101060103	East Fork Pigeon River	44.12%					
060101060302	Lower Cataloochee Creek	9.06%					

HUC 12	Watershed Name	%FS	Existing	A-10	A-50	BCDE-10	BCDE-50
060101060303	Walters Lake-Pigeon River	6.32%					
060101060305	Cold Springs Creek-Pigeon River	86.31%					
060101080101	Headwaters North Toe River	11.87%					
060101080105	Big Crabtree Creek	7.41%					
060101080201	Upper South Toe River	68.72%					
060101080203	Lower South Toe River	8.95%					
060101080301	Headwaters Cane River	8.32%					
060101080303	Upper Cane River	15.95%					
060101080304	Bald Mountain Creek	13.66%					
060101080306	Lower Cane River	28.56%					
060101080602	Little Rock Creek	17.60%					
060101080603	Big Rock Creek	23.06%					
060101080604	Hollow Poplar Creek-Nolichucky River	34.37%					
060102020102	Middle Creek-Little Tennessee River	34.99%					
060102020103	Coweeta Creek-Little Tennessee River	54.30%					
060102020104	Upper Cartoogechaye Creek	45.24%					
060102020105	Lower Cartoogechaye Creek	45.63%					
060102020106	Skeenah Creek-Little Tennessee River	9.35%					
060102020201	Upper Cullasaja River	48.93%					
060102020202	Ellijay Creek	16.84%					
060102020203	Lower Cullasaja River	31.98%					
060102020301	Buck Creek - Tusquitee	96.90%					
060102020302	Headwaters Nantahala River	82.05%					
060102020303	Nantahala Lake-Nantahala River	81.27%					
060102020304	Whiteoak Creek-Nantahala River	59.55%					
060102020305	Big Creek-Nantahala River	69.15%					

HUC 12	Watershed Name	%FS	Existing	A-10	A-50	BCDE-10	BCDE-50
060102020306	Fontana Lake-Nantahala River	38.21%					
060102020401	Lake Emory-Little Tennessee River	9.21%					
060102020402	Cowee Creek	33.55%					
060102020403	Burningtown Creek	53.54%					
060102020404	Tellico Creek-Little Tennessee River	32.16%					
060102020405	Brush Creek-Little Tennessee River	14.33%					
060102020406	Alarka Creek	15.92%					
060102020407	Upper Fontana Lake-Little Tennessee River	30.96%					
060102020501	Panther Creek	74.96%					
060102020502	Stecoah Creek	41.86%					
060102020505	Lower Fontana Lake-Little Tennessee River	23.98%					
060102030101	Wolf Creek-Tuckasegee River	65.14%					
060102030104	Cedar Cliff Lake-Tuckasegee River	17.53%					
060102030105	Caney Fork	63.25%					
060102030106	Cullowhee Creek	23.10%					
060102030107	Wayehutta Creek-Tuckasegee River	15.83%					
060102030301	Savannah Creek	26.90%					
060102030304	Conley Creek-Tuckasegee River	15.29%					
060102030405	Fontana Lake-Tuckasegee River	6.39%					
060102040101	Tulula Creek	54.84%					
060102040102	Sweetwater Creek	22.48%					
060102040103	Snowbird Creek	48.86%					
060102040104	West Buffalo Creek	19.90%					
060102040105	Santeetlah Creek	98.08%					
060102040106	Santeetlah Lake	42.39%					
060102040107	Yellow Creek-Cheoah River	76.11%					

HUC 12	Watershed Name	%FS	Existing	A-10	A-50	BCDE-10	BCDE-50
060102040401	Lake Cheoah-Little Tennessee River	22.96%					
060102040402	Slick Rock Creek	99.93%					
060200020105	Shooting Creek	46.13%					
060200020201	Tusquitee Creek	58.77%					
060200020202	Fires Creek	94.76%					
060200020203	Sweetwater Creek-Hiwassee River	10.11%					
060200020303	Fall Branch-Hiwassee River	19.73%					
060200020401	Headwaters Valley River	56.18%					
060200020402	Upper Valley River	33.40%					
060200020403	Middle Valley River	30.20%					
060200020404	Lower Valley River	8.45%					
060200020603	Nottely River	29.68%					
060200020701	Hanging Dog Creek	30.17%					
060200020702	Grape Creek-Hiwassee Lake	29.16%					
060200020703	Lake Cherokee-Persimmon Creek	20.75%					
060200020704	Beaverdam Creek	54.13%					
060200020705	Hiwassee Lake-Hiwassee River	31.96%					
060200020902	Apalachia Lake-Hiwassee River	34.24%					
060200020903	Shuler Creek	88.43%					

Plan component crosswalk to species

Table C-7 documents the final step of the Ecological Sustainability Evaluation process, in which plan components are checked to ensure species specific needs are met. In the following table, plan components that contribute to directly or indirectly to the sustainability of the species are listed in the left column, and each plan component row identifies the species groups associated with that plan component. To see which species are associated with each ecosystem or species group, refer to Table C-1 in this appendix.

