

The U.S. Fish and Wildlife Service's (USFWS) County Species List for North Carolina

Following is a list of counties in North Carolina within which federally listed and proposed endangered, threatened, and candidate species and federal species of concern are either known or are considered probable (but not yet documented). It has been compiled by the USFWS from a variety of sources, including field surveys, museums and herbaria, literature, and personal communications.

This list contains information that is also found in the North Carolina Natural Heritage Program's (NCNHP) database of rare species information. However, the list is likely to include additional information that is not reflected in the NCNHP database.

This list is intended to assist those conducting surveys in proposed project areas, but it is not intended to serve as a substitute for field surveys. The list is subject to change as new information is received. For the most current version, please consult the website for the USFWS North Carolina Ecological Services Division at <http://nc-es.fws.gov/es/>.

Other notes:

Critical habitat is noted for the counties where it is designated or proposed. This notation is either accompanied by a description of the approximate areas affected by this designation, or a Federal Register citation where a more detailed description of the boundaries can be found.

Sea turtles occur in North Carolina's coastal waters and nest along its beaches. They are listed here in the counties where they are known to nest. The USFWS has jurisdiction over sea turtles in terrestrial systems; the National Marine Fisheries Service (NMFS) has authority over sea turtles in coastal waters.

Manatees occur throughout North Carolina's coastal waters, and they are listed here in the counties where there are known concentrations of them. The USFWS has jurisdiction over manatees.

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Alamance County

Species

Vertebrate

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|-------------------|------------------------------------|-----|
| Carolina darter % | <i>Etheostoma collis lepidinon</i> | FSC |
|-------------------|------------------------------------|-----|

Invertebrate

| | | |
|---------------------|----------------------------|-----|
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
|---------------------|----------------------------|-----|

| | | |
|---------------------|--------------------------|-----|
| Yellow lampmussel * | <i>Lampsilis cariosa</i> | FSC |
|---------------------|--------------------------|-----|

Vascular Plant

| | | |
|--------------------|----------------------------|-----|
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
| Sweet pinesap ** | <i>Monotropsis odorata</i> | FSC |

Alexander County

Species

Vertebrate

| | | |
|------------------------------|---------------------------------|---------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |

Vascular Plant

| | | |
|---------------------------|-----------------------------|-----|
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Radford's St. John's-wort | <i>Hypericum</i> sp. 1 | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |

Alleghany County

Species

Vertebrate

| | | |
|--------------------------|-------------------------------------|---------|
| Allegheny woodrat % | <i>Neotoma magister</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Golden-winged warbler | <i>Vermivora chrysoptera</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Kanawha minnow | <i>Phenacobius teretulus</i> | FSC |

Invertebrate

| | | |
|--------------------------------|------------------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Grayson crayfish ostracod * | <i>Ascetocythere cosmata</i> | FSC |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Grizzled skipper | <i>Pyrgus wyandot</i> | FSC |
| Midget snaketail | <i>Ophiogomphus howei</i> | FSC |
| Regal fritillary (butterfly) * | <i>Speyeria idalia</i> | FSC |

Vascular Plant

| | | |
|---------------------------------|------------------------------|-----|
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Fen sedge | <i>Carex</i> sp. 2 | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage * | <i>Saxifraga caroliniana</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

| | | |
|------------------|-----------------------------|-----|
| Sweet pinesap ** | <i>Monotropsis odorata</i> | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |

Anson County

Species

Vertebrate

| | | |
|-------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Carolina redbreast | <i>Moxostoma sp. 2</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Robust redbreast | <i>Moxostoma robustum</i> | FSC |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |

Invertebrate

| | | |
|-------------------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Carolina heelsplitter * | <i>Lasmigona decorata</i> | E |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|------------------------|--------------------------------|-----|
| Bog spicebush * | <i>Lindera subcoriacea</i> | FSC |
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |
| Flatrock Panic grass | <i>Panicum lithophilum</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |

Ashe County

Species

Vertebrate

| | | |
|--------------------------------------|-------------------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Golden-winged warbler | <i>Vermivora chrysoptera</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Kanawha minnow | <i>Phenacobius teretulus</i> | FSC |
| Pygmy salamander * | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |

Invertebrate

| | | |
|------------------------------------|--------------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Gammon's stenelmis riffle beetle * | <i>Stenelmis gammoni</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------------|--|--------|
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Grizzled skipper | <i>Pyrgus wyandot</i> | FSC |
| Midget snaketail | <i>Ophiogomphus howei</i> | FSC |
| Regal fritillary (butterfly) * | <i>Speyeria idalia</i> | FSC |
| <u>Vascular Plant</u> | | |
| Appalachian oak fern | <i>Gymnocarpium appalachianum</i> | FSC |
| Bog blue grass | <i>Poa paludigena</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Heller's blazing star | <i>Liatris helleri</i> | T |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Roan mountain bluet | <i>Hedyotis purpurea</i> var. <i>montana</i> | E |
| Spreading avens | <i>Geum radiatum</i> | E |
| Swamp pink | <i>Helonias bullata</i> | T |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Lichen</u> | | |
| Bluff mountain reindeer leichen | <i>Cladonia psoromica</i> | FSC |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Avery County

Critical Habitat

Invertebrate

| | | |
|------------------------|------------------------------|---|
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |
|------------------------|------------------------------|---|

All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour, and all portions of the Pisgah National Forest in North Carolina and the Cherokee National Forest in Tennessee, bounded to the north and to the south of the North Carolina/Tennessee state line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line north of Elk Hollow Branch, Avery County, North Carolina, and southwest of Yellow Mountain, Carter County, Tennessee, west to the 1,646-m (5,400-ft) contour at Eagle Cliff, Mitchell County, North Carolina. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Species

Vertebrate

| | | |
|---|--|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Mountain blotched chub % | <i>Erimystax insignis eristigma</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Southern Appalachian black-capped chickadee | <i>Poecile atricapillus praticus</i> | FSC |
| Southern rock vole | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Virginia big-eared bat | <i>Corynorhinus townsendii virginianus</i> | E |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |

Invertebrate

| | | |
|--------------------------------|------------------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Grayson crayfish ostracod * | <i>Ascetocythere cosmeta</i> | FSC |
| Regal fritillary (butterfly) * | <i>Speyeria idalia</i> | FSC |
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |

Vascular Plant

| | | |
|-----------------------------------|------------------------------|-----|
| Bent avens | <i>Geum geniculatum</i> | FSC |
| Blue Ridge goldenrod | <i>Solidago spithamea</i> | T |
| Bog blue grass | <i>Poa paludigena</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Heller's blazing star | <i>Liatris helleri</i> | T |
| Large-leaved Grass-of-Parnassus * | <i>Parnassia grandifolia</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|--|--------|
| Roan False Goat's-beard * | <i>Astilbe crenatiloba</i> | FSC |
| Roan mountain bluet | <i>Hedyotis purpurea</i> var. <i>montana</i> | E |
| Spreading avens | <i>Geum radiatum</i> | E |
| Tall larkspur * | <i>Delphinium exaltatum</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort * | <i>Plagiochila virginica</i> var. <i>caroliniana</i> | FSC |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Beaufort County

Species

Vertebrate

| | | |
|--------------------------------------|---------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Carolina crawfish frog * | <i>Rana capito capito</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Red wolf | <i>Canis rufus</i> | E |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| West Indian manatee | <i>Trichechus manatus</i> | E |

Vascular Plant

| | | |
|--------------------------|----------------------------------|-----|
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sensitive joint-vetch | <i>Aeschynomene virginica</i> | T |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |

Bertie County

Species

Vertebrate

| | | |
|----------------------------|---------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------|-------------------------------|--------|
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| <u>Invertebrate</u> | | |
| Chowanoke crayfish | <i>Orconectes virginienis</i> | FSC |

Bladen County

Species

Vertebrate

| | | |
|------------------------------|--|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Mimic glass lizard | <i>Ophisaurus mimicus</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|--------------------------|-----------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Buchholz's dart moth ** | <i>Agrotis buchholzi</i> | FSC |
| Carter's noctuid moth ** | <i>Spartiniphaga carterae</i> | FSC |
| Variegated clubtail | <i>Progomphus bellei</i> | FSC |
| Venus flytrap cutworm ** | <i>Hemipachnobia subporphyrea</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|-----------------------------|--|-----|
| American chaffseed * | <i>Schwalbea americana</i> | E |
| Awned meadowbeauty | <i>Rhexia aristosa</i> | FSC |
| Boykin's lobelia * | <i>Lobelia boykinii</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Carolina lead-plant * | <i>Amorpha georgiana</i> var. <i>confusa</i> | FSC |
| False coco ** | <i>Pteroglossaspis ecristata</i> | FSC |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|------------------------------|---|--------|
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pineland plantain * | <i>Plantago sparsiflora</i> | FSC |
| Pondberry * | <i>Lindera melissifolia</i> | E |
| Pondspice * | <i>Litsea aestivalis</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills milk-vetch * | <i>Astragalus michauxii</i> | FSC |
| Spring-flowering goldenrod * | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Wagner's spleenwort | <i>Asplenium heteroresiliens</i> | FSC |

Brunswick County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

Species

Vertebrate

| | | |
|--------------------------------------|--|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Carolina pygmy sunfish | <i>Elassoma boehlkei</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Eastern painted bunting | <i>Passerina ciris ciris</i> | FSC |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Mimic glass lizard | <i>Ophisaurus mimicus</i> | FSC |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Piping plover | <i>Charadrius melodus</i> | T |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------------|---|--------|
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| Wood stork | <i>Mycteria americana</i> | E |
| <u>Invertebrate</u> | | |
| Buchholz's dart moth | <i>Agrotis buchholzi</i> | FSC |
| Cape Fear threetooth | <i>Triodopsis soelneri</i> | FSC |
| Carter's noctuid moth | <i>Spartiniphaga carterae</i> | FSC |
| Eastern beard grass skipper ** | <i>Atrytone arogos arogos</i> | FSC |
| Greenfield rams-horn | <i>Helisoma eucosmium</i> | FSC |
| Loammi skipper * | <i>Atrytonopsis loammi</i> | FSC |
| Magnificent rams-horn | <i>Planorbella magnifica</i> | FSC |
| Rare skipper * | <i>Problema bulenta</i> | FSC |
| Venus flytrap cutworm | <i>Hemipachnobia subporphyrea</i> | FSC |
| Waccamaw spike | <i>Elliptio waccamawensis</i> | FSC |
| <u>Vascular Plant</u> | | |
| a quillwort | <i>Isoetes microvela</i> | FSC |
| Awned meadowbeauty * | <i>Rhexia aristosa</i> | FSC |
| Carolina atamasco lily | <i>Zephyranthes simpsonii</i> | FSC |
| Carolina bishopweed | <i>Ptilimnium ahlesii</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Carolina lead-plant | <i>Amorpha georgiana</i> var. <i>confusa</i> | FSC |
| Coastal beaksedge | <i>Rhynchospora pleiantha</i> | FSC |
| Coastal goldenrod | <i>Solidago villosicarpa</i> | FSC |
| Cooley's meadowrue | <i>Thalictrum cooleyi</i> | E |
| Dune blue curls | <i>Trichostema</i> sp. 1 | FSC |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Harper's fimbristylis | <i>Fimbristylis perpusilla</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Loose watermilfoil | <i>Myriophyllum laxum</i> | FSC |
| Pickering's dawnflower * | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pineland plantain | <i>Plantago sparsiflora</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------|--|--------|
| Purple balduina * | <i>Balduina atropurpurea</i> | FSC |
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Savanna onion | <i>Allium</i> sp. 1 | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Swamp forest beakrush | <i>Rhynchospora decurrens</i> | FSC |
| Thorne's beakrush | <i>Rhynchospora thornei</i> | FSC |
| Tough bumelia | <i>Sideroxylon tenax</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Wireleaf dropseed | <i>Sporobolus teretifolius sensu stricto</i> | FSC |
| <u>Nonvascular plant</u> | | |
| Savanna campylopus | <i>Campylopus carolinae</i> | FSC |

Buncombe County

Species

Vertebrate

| | | |
|--|--------------------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Bachman's sparrow * | <i>Aimophila aestivalis</i> | FSC |
| Blotchside logperch * | <i>Percina burtoni</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Gray bat | <i>Myotis grisescens</i> | E |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Longhead darter * | <i>Percina macrocephala</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Paddlefish * | <i>Polyodon spathula</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Southern Appalachian black-capped chickadee * | <i>Poecile atricapillus praticus</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Spotfin chub (=turquoise shiner) * | <i>Erimonax monachus</i> | T |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Appalachian elktoe * | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| French Broad crayfish | <i>Cambarus reburrus</i> | FSC |
| Southern Tawny Crescent butterfly * | <i>Phyciodes batesii maconensis</i> | FSC |
| Tan riffleshell **** | <i>Epioblasma florentina walkeri</i> (=E. walkeri) | E |
| <u>Vascular Plant</u> | | |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Bunched arrowhead * | <i>Sagittaria fasciculata</i> | E |
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Cain's reedgrass | <i>Calamagrostis cainii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Fraser's loosestrife * | <i>Lysimachia fraseri</i> | FSC |
| French Broad heartleaf | <i>Hexastylis rhombiformis</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Large-leaved Grass-of-Parnassus * | <i>Parnassia grandifolia</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Mountain heartleaf | <i>Hexastylis contracta</i> | FSC |
| Mountain sweet pitcherplant * | <i>Sarracenia rubra</i> ssp.. <i>jonesii</i> | E |
| Piratebush | <i>Buckleya distichophylla</i> | FSC |
| Spreading avens | <i>Geum radiatum</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Virginia spiraea * | <i>Spiraea virginiana</i> | T |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Burke County*Critical Habitat*Vascular Plant

| | | |
|-------------------------|-------------------------|---|
| Mountain golden heather | <i>Hudsonia montana</i> | T |
|-------------------------|-------------------------|---|

The area bounded by the following: on the west by the 2200' contour; on the east by the Linville Gorge Wilderness. Boundary north from the intersection of the 2200' contour and the Shortoff Mountain Trail to where it intersects the 3400' contour at "The Chimneys"--then follow the 3400' contour north until it reintersects the Wilderness Boundary--then follow the Wilderness Boundary again northward until it intersects the 3200' contour extending west from its intersection with the Wilderness Boundary until it begins to turn south--at this point the Boundary extends due east until it intersects the 2200' contour. October 20, 1980, Federal Register, 45: 69360-69363.

*Species*Vertebrate

| | | |
|--------------------------------------|--------------------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |

Invertebrate

| | | |
|------------------------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Cherokee clubtail ** | <i>Gomphus consanguis</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Edmund's snaketail | <i>Ophiogomphus edundo</i> | FSC |
| Margarita River skimmer | <i>Macromia margarita</i> | FSC |
| Midget snaketail | <i>Ophiogomphus howei</i> | FSC |

Vascular Plant

| | | |
|--------------------------|------------------------------|-----|
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Heller's blazing star | <i>Liatris helleri</i> | T |
| Mountain golden heather | <i>Hudsonia montana</i> | T |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Spreading avens * | <i>Geum radiatum</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Nonvascular plant

| | | |
|---------------|--|-----|
| a liverwort | <i>Porella wataugensis</i> | FSC |
| a liverwort * | <i>Cephaloziella obtusilobula</i> | FSC |
| a liverwort | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>spinigera</i> | FSC |

Cabarrus County

Species

Vertebrate

| | | |
|-----------------|---------------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |

Invertebrate

| | | |
|-------------------------|----------------------------|-----|
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Carolina heelsplitter * | <i>Lasmigona decorata</i> | E |

Vascular Plant

| | | |
|---------------------------|--|-----|
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Virginia quillwort * | <i>Isoetes virginica</i> | FSC |

Caldwell County

Critical Habitat

Invertebrate

| | | |
|------------------------|------------------------------|---|
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |
|------------------------|------------------------------|---|

All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour. (Unit 4 of the Critical Habitat designation). Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

Species

Vertebrate

| | | |
|-----------------------------------|--|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Virginia big-eared bat | <i>Corynorhinus townsendii virginianus</i> | E |

Invertebrate

| | | |
|------------------------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Edmund's snaketail | <i>Ophiogomphus edmundo</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------|--|--------|
| Margarita River skimmer ** | <i>Macromia margarita</i> | FSC |
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |
| <u>Vascular Plant</u> | | |
| Bent avens | <i>Geum geniculatum</i> | FSC |
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Heller's blazing star | <i>Liatris helleri</i> | T |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |
| Riparian vervain * | <i>Verbena riparia</i> | FSC |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |

Camden County

Species

Vertebrate

| | | |
|------------------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |

Vascular Plant

| | | |
|-------------------------|--|-----|
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |
|-------------------------|--|-----|

Carteret County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

Species

Vertebrate

| | | |
|--------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------------|---|--------|
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Eastern painted bunting | <i>Passerina ciris ciris</i> | FSC |
| Eastern puma (=cougar) ** | <i>Puma concolor cougar</i> | E |
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Hawksbill (=carey) sea turtle * | <i>Eretmochelys imbricata</i> | E |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Mimic glass lizard | <i>Ophisaurus mimicus</i> | FSC |
| Northern diamondback terrapin | <i>Malaclemys terrapin terrapin</i> | FSC |
| Piping plover | <i>Charadrius melodus</i> | T |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Roseate tern | <i>Sterna dougallii dougallii</i> | T |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Invertebrate</u> | | |
| a skipper | <i>Atrytonopsis</i> sp. 1 | FSC |
| Buchholz's dart moth | <i>Agrotis buchholzi</i> | FSC |
| Carter's noctuid moth * | <i>Spartiniphaga carterae</i> | FSC |
| Eastern beard grass skipper | <i>Atrytone arogos arogos</i> | FSC |
| Venus flytrap cutworm | <i>Hemipachnobia subporphyrea</i> | FSC |
| <u>Vascular Plant</u> | | |
| Coastal beaksedge | <i>Rhynchospora pleiantha</i> | FSC |
| Dune blue curls | <i>Trichostema</i> sp. 1 | FSC |
| Loose watermilfoil | <i>Myriophyllum laxum</i> | FSC |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Raven's boxseed | <i>Ludwigia ravenii</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Nonvascular plant
Savanna campylopus

Campylopus carolinae

FSC

Caswell County

Species

Invertebrate

Atlantic pigtoe

Fusconaia masoni

FSC

James (=Virginia) spiny mussel %

Pleurobema collina

E

Vascular Plant

Prairie birdsfoot-trefoil *

Lotus unifoliolatus var. *helleri*

FSC

Virginia quillwort *

Isoetes virginica

FSC

Catawba County

Species

Vertebrate

Bald eagle

Haliaeetus leucocephalus

BGPA

Southern Appalachian eastern woodrat

Neotoma floridana haematorea

FSC

Invertebrate

Catawba crayfish ostracod

Dactylocythere isabelae

FSC

Vascular Plant

Dwarf-flowered heartleaf

Hexastylis naniflora

T

Sweet pinesap

Monotropsis odorata

FSC

Chatham County

Critical Habitat

Vertebrate

Cape Fear shiner

Notropis mekistocholas

E

Approximately 4.1 miles of the Rocky River from North Carolina State Highway 902 Bridge downstream to Chatham County Road 1010 Bridge; and approximately 0.5 river mile of Bear Creek, from Chatham County Road 2156 Bridge downstream to the Rocky River, then downstream in the Rocky River (approximately 4.2 river miles) to the Deep River, then downstream in the Deep River (approximately 2.6 river miles) to a point 0.3 river mile below the Moncure, North Carolina, U.S. Geological Survey Gaging Station. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

Species

Vertebrate

American eel

Anguilla rostrata

FSC

Bachman's sparrow

Aimophila aestivalis

FSC

Bald eagle

Haliaeetus leucocephalus

BGPA

Cape Fear shiner

Notropis mekistocholas

E

Carolina darter

Etheostoma collis lepidinon

FSC

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|-----------------------------|--------|
| Carolina redhorse | <i>Moxostoma</i> sp. 2 | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| <u>Invertebrate</u> | | |
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Septima's clubtail | <i>Gomphus septima</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
| Harperella | <i>Ptilimnium nodosum</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Virginia quillwort * | <i>Isoetes virginica</i> | FSC |

Cherokee County

Species

Vertebrate

| | | |
|------------------------------|--|---------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat (S) | <i>Myotis sodalis</i> | E |
| Junaluska salamander | <i>Eurycea junaluska</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Northern pine snake * | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Seepage salamander | <i>Desmognathus aeneus</i> | FSC |
| Sicklefin redhorse | <i>Moxostoma</i> sp. 1 | C |

Invertebrate

| | | |
|--------------------------------|--|-----|
| a harvestman | <i>Fumontana deprehendor</i> | FSC |
| Cumberland bean (pearlymussel) | <i>Villosa trabalis</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| knotty rocksnail | <i>Elimia christyi</i> | FSC |
| Little-wing pearlymussel * | <i>Pegias fabula</i> | E |
| Parrish crayfish | <i>Cambarus parrishi</i> | FSC |
| Tan riffleshell **** | <i>Epioblasma florentina walkeri</i> (=E. walkeri) | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------|--|--------|
| Tennessee clubshell | <i>Pleurobema oviforme</i> | FSC |
| Tennessee heelsplitter * | <i>Lasmigona holstonia</i> | FSC |
| <u>Vascular Plant</u> | | |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| White fringless orchid * | <i>Platanthera integrilabia</i> | C |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |

Chowan County

Species

Vertebrate

| | | |
|----------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Southeastern myotis ** | <i>Myotis austroriparius</i> | FSC |

Vascular Plant

| | | |
|-------------------|-------------------------|-----|
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
|-------------------|-------------------------|-----|

Clay County

Species

Vertebrate

| | | |
|---|--|---------|
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Junaluska salamander | <i>Eurycea junaluska</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Northern pine snake ** | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Seepage salamander | <i>Desmognathus aeneus</i> | FSC |
| Sicklefin redhorse | <i>Moxostoma</i> sp. 1 | C |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) * | <i>Sphyrapicus varius appalachiensis</i> | FSC |

Invertebrate

| | | |
|------------------------------|--------------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Parrish crayfish | <i>Cambarus parrishi</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|------------------------------------|--|--------|
| Southern Tawny Crescent butterfly | <i>Phyciodes batesii maconensis</i> | FSC |
| <u>Vascular Plant</u> | | |
| Alabama least trillium | <i>Trillium pusillum</i> var. <i>ozarkanum</i> | FSC |
| Buck Creek serpentine barren aster | <i>Symphiotrichum rhiannon</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Green pitcherplant | <i>Sarracenia oreophila</i> | E |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| New Jersey rush | <i>Juncus caesariensis</i> | FSC |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |

Cleveland County

Species

Vascular Plant

| | | |
|--------------------------|------------------------------|-----|
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |

Columbus County

Critical Habitat

Vertebrate

| | | |
|---------------------|------------------------|---|
| Waccamaw silverside | <i>Menidia extensa</i> | T |
|---------------------|------------------------|---|

Lake Waccamaw in its entirety to mean high water level, and Big Creek from its mouth at Lake Waccamaw upstream approximately 0.6 kilometer (0.4 mile) to where the creek is crossed by County Road 1947. Constituent elements include high quality clear open water, with a neutral pH and clean substrate. April 8, 1987 Federal Register, 52:

Species

Vertebrate

| | | |
|---------------------------|--|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Carolina pygmy sunfish | <i>Elassoma boehlkei</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Mimic glass lizard * | <i>Ophisaurus mimicus</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------------|--|--------|
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Waccamaw darter | <i>Etheostoma perlongum</i> | FSC |
| Waccamaw killifish | <i>Fundulus waccamensis</i> | FSC |
| Waccamaw silverside | <i>Menidia extensa</i> | T |
| Wood stork | <i>Mycteria americana</i> | E |
| <u>Invertebrate</u> | | |
| Bronze clubtail ** | <i>Stylurus (=Gomphus) townesi</i> | FSC |
| Cape Fear threetooth * | <i>Triodopsis soelneri</i> | FSC |
| Savannah lilliput | <i>Toxolasma pullus</i> | FSC |
| Waccamaw fatmucket | <i>Lampsilis fullerkerki</i> | FSC |
| Waccamaw spike | <i>Elliptio waccamawensis</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Carolina lead-plant | <i>Amorpha georgiana</i> var. <i>confusa</i> | FSC |
| Cooley's meadowrue | <i>Thalictrum cooleyi</i> | E |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |
| Harper's fimbriatylis | <i>Fimbristylis perpusilla</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Pineland plantain | <i>Plantago sparsiflora</i> | FSC |
| Raven's boxseed | <i>Ludwigia ravenii</i> | FSC |
| Rough-leaved loosestrife * | <i>Lysimachia asperulaefolia</i> | E |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Swamp forest beakrush | <i>Rhynchospora decurrens</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Wireleaf dropseed | <i>Sporobolus teretifolius sensu stricto</i> | FSC |

Craven County

Species

Vertebrate

| | | |
|--------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------------|----------------------------------|--------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Bridle shiner | <i>Notropis bifrenatus</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Invertebrate</u> | | |
| Annointed sallow noctuid moth ** | <i>Pyreferra ceromatica</i> | FSC |
| Buchholz's dart moth ** | <i>Agrotis buchholzi</i> | FSC |
| <u>Vascular Plant</u> | | |
| Godfrey's sandwort | <i>Minuartia godfreyi</i> | FSC |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |
| Loose watermilfoil * | <i>Myriophyllum laxum</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Sensitive joint-vetch * | <i>Aeschynomene virginica</i> | T |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Wagner's spleenwort | <i>Asplenium heteroresiliens</i> | FSC |

Cumberland County

Species

Vertebrate

| | | |
|------------------------------|--|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Broadtail madtom | <i>Noturus sp. cf. leptacanthus</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Northern pine snake ** | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |

Invertebrate

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------|---|--------|
| Atlantic pigtoe * | <i>Fusconaia masoni</i> | FSC |
| Saint Francis' satyr butterfly | <i>Neonympha mitchellii francisci</i> | E |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| American chaffseed | <i>Schwalbea americana</i> | E |
| Awned meadowbeauty * | <i>Rhexia aristosa</i> | FSC |
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Boykin's lobelia | <i>Lobelia boykinii</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| False coco * | <i>Pteroglossaspis ecristata</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Loose watermilfoil | <i>Myriophyllum laxum</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pondberry | <i>Lindera melissifolia</i> | E |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Well's sandhill pixie-moss | <i>Pyxidantha barbulata</i> var. <i>brevifolia</i> | FSC |
| <u>Nonvascular plant</u> | | |
| Savanna campylopus | <i>Campylopus carolinae</i> | FSC |

Currituck County

Species

Vertebrate

| | | |
|------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|--|--------|
| Piping plover | <i>Charadrius melodus</i> | T |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Vascular Plant</u> | | |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

Dare County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. Note: Units 1, 2, 4, and 5 (including portions of Dare and Hyde Counties) of the designated Critical Habitat were vacated by court order and remanded to the USFWS. Thus, these units no longer exist. July 10, 2001, Federal Register, 66:36038- 36136.

Species

Vertebrate

| | | |
|--------------------------------------|-------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Buxton Woods white-footed mouse ** | <i>Peromyscus leucopus</i> ssp.. 1 | FSC |
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Hawksbill (=carey) sea turtle | <i>Eretmochelys imbricata</i> | E |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Northern diamondback terrapin * | <i>Malaclemys terrapin terrapin</i> | FSC |
| Piping plover | <i>Charadrius melodus</i> | T |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red wolf | <i>Canis rufus</i> | E |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Roseate tern | <i>Sterna dougallii dougallii</i> | T |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|--|---------|
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Vascular Plant</u> | | |
| Dune blue curls | <i>Trichostema</i> sp. 1 | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Davidson County | | |
| <i>Species</i> | | |
| <u>Vertebrate</u> | | |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle % | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| <u>Vascular Plant</u> | | |
| Georgia aster | <i>Symphotrichum georgianum</i> | C |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Davie County | | |
| <i>Species</i> | | |
| <u>Vertebrate</u> | | |
| Robust redborse * | <i>Moxostoma robustum</i> | FSC |
| <u>Invertebrate</u> | | |
| Cherokee clubtail ** | <i>Gomphus consanguis</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| Creamy tick-trefoil * | <i>Desmodium ochroleucum</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Prairie birdsfoot-trefoil * | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Duplin County | | |
| <i>Species</i> | | |
| <u>Vertebrate</u> | | |
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |
| <u>Vascular Plant</u> | | |
| American chaffseed | <i>Schwalbea americana</i> | E |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

| | | |
|-------------------|--------------------------|-----|
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |

Durham County

Species

Vertebrate

| | | |
|---------------------|------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis lepidinon</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|-----------------------|--------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Panhandle pebblesnail | <i>Somatogyryus virginicus</i> | FSC |
| Septima's clubtail * | <i>Gomphus septima</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|-------------------|-----------------------------|-----|
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Smooth coneflower | <i>Echinacea laevigata</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |

Edgecombe County

Species

Vertebrate

| | | |
|---------------------------|---------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Pinewoods shiner | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|-----------------|-----------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Green floater | <i>Lasmigona subviridis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

| | | |
|------------------------|-------------------------------|-----|
| Tar River spiny mussel | <i>Elliptio steinstansana</i> | E |
| Yellow lamp mussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance * | <i>Elliptio lanceolata</i> | FSC |

Forsyth County

Species

Vertebrate

| | | |
|---------------------------|-----------------------------|---------|
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |

Invertebrate

| | | |
|---------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
|---------------|-----------------------------|-----|

Vascular Plant

| | | |
|------------------------------|------------------------------|---|
| Small-anthered bittercress * | <i>Cardamine micranthera</i> | E |
|------------------------------|------------------------------|---|

Franklin County

Species

Vertebrate

| | | |
|---------------------|------------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|------------------------|-------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Tar River spiny mussel | <i>Elliptio steinstansana</i> | E |
| Yellow lamp mussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|-----------------|-----------------------|---|
| Michaux's sumac | <i>Rhus michauxii</i> | E |
|-----------------|-----------------------|---|

Gaston County

Species

Vertebrate

| | | |
|------------|---------------------------------|---------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |

Vascular Plant

| | | |
|------------------------|----------------------------------|-----|
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Shoals spiderlily % | <i>Hymenocallis coronaria</i> | FSC |

COMMON NAME**SCIENTIFIC NAME****STATUS****Gates County***Species*Vertebrate

| | | |
|------------------------------|---------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |

Vascular Plant

| | | |
|-------------------------|--|-----|
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

Graham County*Critical Habitat*Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the Cheoah River (Little Tennessee River system), from the Santeetlah Dam, downstream to its confluence with the Little Tennessee River. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register,

*Species*Vertebrate

| | | |
|-----------------------------------|--|---------|
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat | <i>Myotis sodalis</i> | E |
| Junaluska salamander | <i>Eurycea junaluska</i> | FSC |
| Northern pine snake * | <i>Pituophis melanoleucus melanoleucus</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) % | <i>Loxia curvirostra</i> | FSC |
| Seepage salamander | <i>Desmognathus aeneus</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| a harvestman | <i>Fumontana deprehendor</i> | FSC |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Southern Tawny Crescent butterfly | <i>Phyciodes batesii maconensis</i> | FSC |
| <u>Vascular Plant</u> | | |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitidis</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Smoky Mountains manna grass | <i>Glyceria nubigena</i> | FSC |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort | <i>Plagiochila sharpii</i> | FSC |
| a liverwort | <i>Porella wataugensis</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Granville County

Species

Vertebrate

| | | |
|---------------------|------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis lepidinon</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|-----------------|-----------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------------------------|--|--------|
| Chowanoke crayfish ** | <i>Orconectes virginienis</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |
| <u>Vascular Plant</u> | | |
| Butner's barbara's-buttons | <i>Marshallia</i> sp. | FSC |
| Harperella | <i>Ptilimnium nodosum</i> | E |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Smooth coneflower | <i>Echinacea laevigata</i> | E |
| Smooth-seeded hairy nutrush * | <i>Scleria</i> sp. 1 | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |

Greene County

Species

Vertebrate

| | | |
|---------------------------|----------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker % | <i>Picoides borealis</i> | E |

Guilford County

Species

Vertebrate

| | | |
|-----------------|------------------------------------|------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis lepidinon</i> | FSC |

Vascular Plant

| | | |
|-----------------------|----------------------------|---|
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
|-----------------------|----------------------------|---|

Halifax County

Species

Vertebrate

| | | |
|---------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow * | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------------------|--|--------|
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| <u>Invertebrate</u> | | |
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Chowanoke crayfish | <i>Orconectes virginienis</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Tar River spiny mussel | <i>Elliptio steinstansana</i> | E |
| Yellow lamp mussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |
| <u>Vascular Plant</u> | | |
| Bog St. John's-wort * | <i>Hypericum adpressum</i> | FSC |
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

Harnett County

Species

Vertebrate

| | | |
|-------------------------|--|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
| Carolina redbreast | <i>Moxostoma</i> sp. 2 | FSC |
| Northern pine snake ** | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |

Invertebrate

| | | |
|--------------------|--------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Septima's clubtail | <i>Gomphus septima</i> | FSC |
| Yellow lamp mussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|-----------------------------|---|-----|
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Ravine sedge | <i>Carex impressinervia</i> | FSC |
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------|--|--------|
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Sun-facing coneflower * | <i>Rudbeckia heliopsidis</i> | FSC |
| Well's sandhill pixie-moss | <i>Pyxidantha barbulata</i> var. <i>brevifolia</i> | FSC |

Haywood County

Critical Habitat

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the West Fork Pigeon River (French Broad River system), from the confluence of the Little East Fork Pigeon River, downstream to the confluence of the East Fork Pigeon River, and the main stem of the Pigeon River, from the confluence of the West Fork Pigeon River and the East Fork Pigeon River, downstream to the N.C. Highway 215 Bridge crossing, south of Canton, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

Species

Vertebrate

| | | |
|--|-------------------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle % | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Gray bat | <i>Myotis grisescens</i> | E |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat (W)* | <i>Myotis sodalis</i> | E |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive-sided flycatcher | <i>Contopus cooperi</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Southern Appalachian black-capped chickadee | <i>Poecile atricapillus praticus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |
| Southern rock vole | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Southern Tawny Crescent butterfly ** | <i>Phyciodes batesii maconensis</i> | FSC |
| Spruce-fir moss spider % | <i>Microhexura montivaga</i> | E |
| <u>Vascular Plant</u> | | |
| Alabama least trillium * | <i>Trillium pusillum</i> var. <i>ozarkanum</i> | FSC |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Fraser's loosestrife ** | <i>Lysimachia fraseri</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Piratebush | <i>Buckleya distichophylla</i> | FSC |
| Rugel's ragwort | <i>Rugelia nudicaulis</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Smoky Mountains manna grass | <i>Glyceria nubigena</i> | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort * | <i>Sphenolobopsis pearsonii</i> | FSC |
| a liverwort * | <i>Plagiochila sharpii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Henderson County*Species*Vertebrate

| | | |
|--|--|---------|
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) ** | <i>Sphyrapicus varius appalachiensis</i> | FSC |

Invertebrate

| | | |
|------------------------------|--------------------------------|-----|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| French Broad crayfish ** | <i>Cambarus reburru</i> | FSC |
| Tennessee heelsplitter | <i>Lasmigona holstonia</i> | FSC |

Vascular Plant

| | | |
|------------------------------------|---|-----|
| Blue Ridge Ragwort * | <i>Packera millefolium</i> | FSC |
| Bog asphodel * | <i>Narthecium americanum</i> | C |
| Bunched arrowhead | <i>Sagittaria fasciculata</i> | E |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Fort Mountain sedge | <i>Carex communis</i> var. <i>amplisquama</i> | FSC |
| Fraser's loosestrife ** | <i>Lysimachia fraseri</i> | FSC |
| French Broad heartleaf | <i>Hexastylis rhombiformis</i> | FSC |
| Gray's lily * | <i>Lilium grayi</i> | FSC |
| Large-flowered barbara's-buttons * | <i>Marshallia grandiflora</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Mountain heartleaf | <i>Hexastylis contracta</i> | FSC |
| Mountain sweet pitcherplant | <i>Sarracenia rubra</i> ssp. <i>jonesii</i> | E |
| New Jersey rush | <i>Juncus caesariensis</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| Swamp pink | <i>Helonias bullata</i> | T |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| White fringless orchid * | <i>Platanthera integrilabia</i> | C |

| | | |
|----------------|--------------------------------|---|
| White irisette | <i>Sisyrinchium dichotomum</i> | E |
|----------------|--------------------------------|---|

Hertford County

Species

Vertebrate

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|-------------------------|--------------------------|---|
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
|-------------------------|--------------------------|---|

Invertebrate

| | | |
|--------------------|-------------------------------|-----|
| Chowanoke crayfish | <i>Orconectes virginienis</i> | FSC |
|--------------------|-------------------------------|-----|

Hoke County

Species

Vertebrate

| | | |
|--------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
|--------------------|-----------------------------------|---------|

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|-------------------|-----------------------------|-----|
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
|-------------------|-----------------------------|-----|

| | | |
|------------------------|---------------------------|-----|
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
|------------------------|---------------------------|-----|

| | | |
|---------------------|--|-----|
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
|---------------------|--|-----|

| | | |
|------------------|--------------------------|-----|
| Pinewoods darter | <i>Etheostoma mariae</i> | FSC |
|------------------|--------------------------|-----|

| | | |
|-------------------------------|---------------------------------|-----|
| Rafinesque's big-eared bat ** | <i>Corynorhinus rafinesquii</i> | FSC |
|-------------------------------|---------------------------------|-----|

| | | |
|-------------------------|--------------------------|---|
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
|-------------------------|--------------------------|---|

| | | |
|----------------|-------------------------|-----|
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |
|----------------|-------------------------|-----|

| | | |
|---------------------|------------------------------|-----|
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
|---------------------|------------------------------|-----|

| | | |
|------------------------|------------------------|-----|
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
|------------------------|------------------------|-----|

Invertebrate

| | | |
|--------------------------------|---------------------------------------|---|
| Saint Francis' satyr butterfly | <i>Neonympha mitchellii francisci</i> | E |
|--------------------------------|---------------------------------------|---|

Vascular Plant

| | | |
|--------------------|----------------------------|---|
| American chaffseed | <i>Schwalbea americana</i> | E |
|--------------------|----------------------------|---|

| | | |
|--------------------|------------------------|-----|
| Awned meadowbeauty | <i>Rhexia aristosa</i> | FSC |
|--------------------|------------------------|-----|

| | | |
|---------------|----------------------------|-----|
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
|---------------|----------------------------|-----|

| | | |
|------------------|-------------------------|-----|
| Boykin's lobelia | <i>Lobelia boykinii</i> | FSC |
|------------------|-------------------------|-----|

| | | |
|-----------------------------|------------------------------|-----|
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
|-----------------------------|------------------------------|-----|

| | | |
|------------|----------------------------------|-----|
| False coco | <i>Pteroglossaspis ecristata</i> | FSC |
|------------|----------------------------------|-----|

| | | |
|--------------------|--|-----|
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
|--------------------|--|-----|

| | | |
|--------------------------|------------------------------|-----|
| Hairy-peduncled beakrush | <i>Rhynchospora crinipes</i> | FSC |
|--------------------------|------------------------------|-----|

| | | |
|--------------------|---------------------------|-----|
| Loose watermilfoil | <i>Myriophyllum laxum</i> | FSC |
|--------------------|---------------------------|-----|

| | | |
|-----------------|-----------------------|---|
| Michaux's sumac | <i>Rhus michauxii</i> | E |
|-----------------|-----------------------|---|

| | | |
|------------------------|---|-----|
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
|------------------------|---|-----|

| | | |
|-----------|--------------------------|-----|
| Pondspice | <i>Litsea aestivalis</i> | FSC |
|-----------|--------------------------|-----|

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|--|--------|
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Well's sandhill pixie-moss | <i>Pyxidantha barbulata</i> var. <i>brevifolia</i> | FSC |

Hyde County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. Note: Units 1, 2, 4, and 5 (including portions of Dare and Hyde Counties) of the designated Critical Habitat were vacated by court order and remanded to the USFWS. Thus, these units no longer exist. July 10, 2001, Federal Register, 66:36038- 36136.

Species

Vertebrate

| | | |
|--------------------------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Green sea turtle ** | <i>Chelonia mydas</i> | T |
| Hawksbill (=carey) sea turtle | <i>Eretmochelys imbricata</i> | E |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Piping plover | <i>Charadrius melodus</i> | T |
| Red wolf | <i>Canis rufus</i> | E |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Vascular Plant</u> | | |
| Dune blue curls | <i>Trichostema</i> sp. 1 | FSC |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|-------------------------------|--------|
| Sensitive joint-vetch | <i>Aeschynomene virginica</i> | T |
| Small-leaved meadow-rue * | <i>Thalictrum macrostylum</i> | FSC |

Iredell County

Species

Vertebrate

| | | |
|-------------------|-----------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |

Vascular Plant

| | | |
|-----------------------------|--|-----|
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Prairie birdsfoot-trefoil * | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |

Jackson County

Critical Habitat

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the Tuckasegee River (Little Tennessee River system), from the N.C. State Route 1002 Bridge in Cullowhee, Jackson County, North Carolina, downstream to the N.C. Highway 19 Bridge, north of Bryson City, Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

Species

Vertebrate

| | | |
|--|--|---------|
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Bog turtle % | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat (W)* | <i>Myotis sodalis</i> | E |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Sicklefin redhorse | <i>Moxostoma</i> sp. 1 | C |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Smoky dace | <i>Clinostomus funduloides</i> ssp.. | FSC |
| Southern Appalachian black-capped chickadee | <i>Poecile atricapillus praticus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |
| Southern rock vole * | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| wounded darter | <i>Etheostoma vulneratum</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| a harvestman | <i>Fumontana deprehendor</i> | FSC |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| French Broad crayfish | <i>Cambarus reburrrus</i> | FSC |
| Southern Tawny Crescent butterfly | <i>Phyciodes batesii maconensis</i> | FSC |
| Whitewater crayfish ostracod ** | <i>Dactylocythere prinsi</i> | FSC |
| <u>Vascular Plant</u> | | |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Fraser's loosestrife | <i>Lysimachia fraseri</i> | FSC |
| Gorge filmy fern | <i>Hymenophyllum tayloriae</i> | FSC |
| Granite dome goldenrod | <i>Solidago simulans</i> | FSC |
| Gray's saxifrage * | <i>Saxifraga caroliniana</i> | FSC |
| Lobed Barren-strawberry * | <i>Waldsteinia lobata</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Mountain Thaspium * | <i>Thaspium pinnatifidum</i> | FSC |
| Radford's sedge | <i>Carex radfordii</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Southern Oconee-bells * | <i>Shortia galacifolia</i> var. <i>galacifolia</i> | FSC |
| Swamp pink | <i>Helonias bullata</i> | T |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |

Nonvascular plant

| | | |
|---------------|--|-----|
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>spinigera</i> | FSC |
| a liverwort * | <i>Sphenolobopsis pearsonii</i> | FSC |
| a liverwort * | <i>Plagiochila virginica</i> var. <i>caroliniana</i> | FSC |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort | <i>Plagiochila sharpii</i> | FSC |
| Gorge moss * | <i>Bryocrumia vivicolor</i> | FSC |

Lichen

| | | |
|-------------------|---------------------------|---|
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |
|-------------------|---------------------------|---|

Johnston County

Species

Vertebrate

| | | |
|-------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|------------------------|-------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Tar River spiny mussel | <i>Elliptio steinstansana</i> | E |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|----------------------------|--|-----|
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Michaux's sumac * | <i>Rhus michauxii</i> | E |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Virginia least trillium * | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

Jones County

Species

Vertebrate

| | | |
|--------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|------------------------------|----------------------------------|--------|
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Carolina crawfish frog * | <i>Rana capito capito</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |
| <u>Vascular Plant</u> | | |
| a quillwort | <i>Isoetes microvela</i> | FSC |
| Carolina bogmint ** | <i>Macbridea caroliniana</i> | FSC |
| Godfrey's sandwort * | <i>Minuartia godfreyi</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap * | <i>Dionaea muscipula</i> | FSC |
| Wagner's spleenwort | <i>Asplenium heteroresiliens</i> | FSC |

Lee County

Critical Habitat

Vertebrate

| | | |
|------------------|-------------------------------|---|
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
|------------------|-------------------------------|---|

Approximately 0.5 river mile of Bear Creek, from Chatham County Road 2156 Bridge downstream to the Rocky River, then downstream in the Rocky River (approximately 4.2 river miles) to the Deep River, then downstream in the Deep River (approximately 2.6 river miles) to a point 0.3 river mile below the Moncure, North Carolina, U.S. Geological Survey Gaging Station. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2:

Species

Vertebrate

| | | |
|---------------------------|-------------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
| Carolina redhorse | <i>Moxostoma</i> sp. 2 | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |

Invertebrate

| | | |
|--------------------|------------------------|-----|
| Septima's clubtail | <i>Gomphus septima</i> | FSC |
|--------------------|------------------------|-----|

Vascular Plant

| | | |
|-------------------------------|--|-----|
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
| Carolina grass-of-parnassus * | <i>Parnassia caroliniana</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Harperella * | <i>Ptilimnium nodosum</i> | E |

| | | |
|--------------------|--------------------------|-----|
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
|--------------------|--------------------------|-----|

Lenoir County

Species

Vertebrate

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|------------|---------------------------------|------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
|------------|---------------------------------|------|

| | | |
|-----------------|-------------------------|-----|
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
|-----------------|-------------------------|-----|

| | | |
|---------------------------|--------------------------|---|
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
|---------------------------|--------------------------|---|

Vascular Plant

| | | |
|----------------------|--|-----|
| Georgia lead-plant * | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
|----------------------|--|-----|

| | | |
|-------------------------|-------------------------------|---|
| Sensitive joint-vetch * | <i>Aeschynomene virginica</i> | T |
|-------------------------|-------------------------------|---|

| | | |
|-------------------|--------------------------|-----|
| Venus' fly-trap * | <i>Dionaea muscipula</i> | FSC |
|-------------------|--------------------------|-----|

Lincoln County

Species

Vascular Plant

| | | |
|--------------------------|-----------------------------|---|
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
|--------------------------|-----------------------------|---|

| | | |
|---------------|---------------------------------|---|
| Georgia aster | <i>Symphotrichum georgianum</i> | C |
|---------------|---------------------------------|---|

| | | |
|-------------------|-----------------------|---|
| Michaux's sumac * | <i>Rhus michauxii</i> | E |
|-------------------|-----------------------|---|

| | | |
|---------------------|-------------------------------|-----|
| Shoals spiderlily % | <i>Hymenocallis coronaria</i> | FSC |
|---------------------|-------------------------------|-----|

Macon County

Critical Habitat

Vertebrate

| | | |
|----------------------------------|--------------------------|---|
| Spotfin chub (=turquoise shiner) | <i>Erimonax monachus</i> | T |
|----------------------------------|--------------------------|---|

Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia state line. September 22, 1977, Federal Register,

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina. The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Species

Vertebrate

| | | |
|---|--|---------|
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bachman's sparrow * | <i>Aimophila aestivalis</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat % | <i>Myotis sodalis</i> | E |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Olive-sided flycatcher * | <i>Contopus cooperi</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) % | <i>Loxia curvirostra</i> | FSC |
| Seepage salamander | <i>Desmognathus aeneus</i> | FSC |
| Sicklefin redhorse | <i>Moxostoma</i> sp. 1 | C |
| Smoky dace | <i>Clinostomus funduloides</i> ssp.. | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |
| Southern rock vole | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Spotfin chub (=turquoise shiner) | <i>Erimonax monachus</i> | T |
| wounded darter | <i>Etheostoma vulneratum</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |

Invertebrate

| | | |
|-----------------------------------|---|-----|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Little Tennessee mussel | <i>Lexingtonia</i> sp. cf. <i>dolabelloides</i> | FSC |
| Little-wing pearlymussel | <i>Pegias fabula</i> | E |
| Lost Nantahala Cave spider | <i>Nesticus cooperi</i> | FSC |
| Margarita River skimmer ** | <i>Macromia margarita</i> | FSC |
| Southern Tawny Crescent butterfly | <i>Phyciodes batesii maconensis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------|--|--------|
| <u>Vascular Plant</u> | | |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead * | <i>Chelone cuthbertii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Dwarf aster * | <i>Eurybia mirabilis</i> | FSC |
| Dwarf polypody fern | <i>Grammitis nimbata</i> | FSC |
| Fraser's loosestrife | <i>Lysimachia fraseri</i> | FSC |
| Gorge filmy fern | <i>Hymenophyllum tayloriae</i> | FSC |
| Granite dome goldenrod | <i>Solidago simulans</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Piratebush | <i>Buckleya distichophylla</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Sweet pinesap ** | <i>Monotropsis odorata</i> | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Porella wataugensis</i> | FSC |
| a liverwort * | <i>Plagiochila virginica</i> var. <i>caroliniana</i> | FSC |
| a liverwort * | <i>Cephaloziella obtusilobula</i> | FSC |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort | <i>Plagiochila sharpii</i> | FSC |
| Anderson's Melon-moss * | <i>Brachymenium andersonii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

Madison County

Species

Vertebrate

| | | |
|--|-------------------------------------|---------|
| Bog turtle % | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Gray bat | <i>Myotis grisescens</i> | E |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Lake sturgeon * | <i>Acipenser fulvescens</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------------|-------------------------------------|--------|
| Olive darter * | <i>Percina squamata</i> | FSC |
| Paddlefish * | <i>Polyodon spathula</i> | FSC |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |
| Spotfin chub (=turquoise shiner) * | <i>Erimonax monachus</i> | T |
| wounded darter * | <i>Etheostoma vulneratum</i> | FSC |
| <u>Invertebrate</u> | | |
| French Broad crayfish | <i>Cambarus reburrus</i> | FSC |
| Sculptured supercoil | <i>Paravitrea ternaria</i> | FSC |
| <u>Vascular Plant</u> | | |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Mountain Thaspium | <i>Thaspium pinnatifidum</i> | FSC |
| Piratebush | <i>Buckleya distichophylla</i> | FSC |

Martin County

Species

Vertebrate

| | | |
|----------------------------|---------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |

Invertebrate

| | | |
|--------------------|-------------------------------|-----|
| Chowanoke crayfish | <i>Orconectes virginienis</i> | FSC |
|--------------------|-------------------------------|-----|

McDowell County

Species

Vertebrate

| | | |
|-----------------------------------|-------------------------------------|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Olive-sided flycatcher | <i>Contopus cooperi</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------------|--|--------|
| Pygmy salamander * | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |
| Southern rock vole * | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Bennett's Mill Cave water slater | <i>Caecidotea carolinensis</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| <u>Vascular Plant</u> | | |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Mountain golden heather | <i>Hudsonia montana</i> | T |
| Short-styled Oconee-bells | <i>Shortia galacifolia</i> var. <i>brevistyla</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort | <i>Porella wataugensis</i> | FSC |

Mecklenburg County

Species

Vertebrate

| | | |
|-----------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |

Invertebrate

| | | |
|-----------------------|----------------------------|-----|
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Carolina heelsplitter | <i>Lasmigona decorata</i> | E |

Vascular Plant

| | | |
|---------------------------|--|-----|
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Shoals spiderlily % | <i>Hymenocallis coronaria</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------------|-----------------------------|--------|
| Smooth coneflower | <i>Echinacea laevigata</i> | E |
| Tall larkspur * | <i>Delphinium exaltatum</i> | FSC |

Mitchell County

Critical Habitat

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the North Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of Big Crabtree Creek, downstream to the confluence of the South Toe River; the main stem of the South Toe River, Yancey County, North Carolina, from the N.C. State Route 1152 Bridge, downstream to its confluence with the North Toe River; the main stem of the Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of the North Toe River and the South Toe River, downstream to the confluence of the Cane River; the main stem of the Cane River, Yancey County, North Carolina, from the N.C. State Route 1381 Bridge, downstream to its confluence with the Toe River; and the main stem of the Nolichucky River, from the confluence of the Toe River and the Cane River in Yancey and Mitchell Counties, North Carolina, downstream to the U.S. Highway 23/19W Bridge southwest of Erwin, Unicoi County, Tennessee. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

| | | |
|------------------------|------------------------------|---|
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |
|------------------------|------------------------------|---|

All portions of the Pisgah National Forest in North Carolina and the Cherokee National Forest in Tennessee, bounded to the north and to the south of the North Carolina/Tennessee state line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line north of Elk Hollow Branch, Avery County, North Carolina, and southwest of Yellow Mountain, Carter County, Tennessee, west to the 1,646-m (5,400-ft) contour at Eagle Cliff, Mitchell County, North Carolina. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

Species

Vertebrate

| | | |
|-----------------------------------|-------------------------------------|---------|
| Allegheny woodrat ** | <i>Neotoma magister</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Indiana bat (W)* | <i>Myotis sodalis</i> | E |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Olive-sided flycatcher | <i>Contopus cooperi</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Sharphead darter | <i>Etheostoma acuticeps</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) * | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Roan supercoil | <i>Paravitrea varidens</i> | FSC |
| Spruce-fir moss spider | <i>Microhexura montivaga</i> | E |
| <u>Vascular Plant</u> | | |
| Bent avens | <i>Geum geniculatum</i> | FSC |
| Blue Ridge goldenrod | <i>Solidago spithamaea</i> | T |
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Heller's blazing star * | <i>Liatris helleri</i> | T |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |
| Piratebush | <i>Buckleya distichophylla</i> | FSC |
| Roan False Goat's-beard * | <i>Astilbe crenatiloba</i> | FSC |
| Roan mountain bluet | <i>Hedyotis purpurea</i> var. <i>montana</i> | E |
| Spreading avens | <i>Geum radiatum</i> | E |
| Tall larkspur * | <i>Delphinium exaltatum</i> | FSC |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

COMMON NAME

SCIENTIFIC NAME

STATUS

Montgomery County*Species*Vertebrate

| | | |
|--------------------------|--|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Carolina redhorse | <i>Moxostoma</i> sp. 2 | FSC |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Pinewoods darter | <i>Etheostoma mariae</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Sandhills chub * | <i>Semotilus lumbee</i> | FSC |

Invertebrate

| | | |
|---------------------|-----------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Savannah lilliput | <i>Toxolasma pullus</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|------------------------|----------------------------------|-----|
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Ravine sedge | <i>Carex impressinervia</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Smooth coneflower * | <i>Echinacea laevigata</i> | E |
| Yadkin River goldenrod | <i>Solidago plumosa</i> | C |

Moore County*Critical Habitat*Vertebrate

| | | |
|------------------|-------------------------------|---|
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
|------------------|-------------------------------|---|

Approximately 1.5 miles of Fork Creek, from a point 0.1 river mile upstream of Randolph County Road 2873 Bridge downstream to the Deep River then downstream approximately 4.1 river miles of the Deep River in Randolph and Moore Counties, North Carolina, to a point 2.5 river miles below Moore County Road 1456 Bridge. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Species

Vertebrate

| | | |
|-------------------------|--|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
| Carolina darter | <i>Etheostoma collis lepidinon</i> | FSC |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Carolina redhorse | <i>Moxostoma</i> sp. 2 | FSC |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Pinewoods darter | <i>Etheostoma mariae</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|-------------------------------|-------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Eastern beard grass skipper * | <i>Atrytone arogos arogos</i> | FSC |
| Septima's clubtail ** | <i>Gomphus septima</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|-----------------------------|---|-----|
| American chaffseed | <i>Schwalbea americana</i> | E |
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Hairy-peduncled beakrush | <i>Rhynchospora crinipes</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------|--|--------|
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Sun-facing coneflower * | <i>Rudbeckia heliopsidis</i> | FSC |
| Venus' fly-trap * | <i>Dionaea muscipula</i> | FSC |
| Well's sandhill pixie-moss | <i>Pyxidantha barbulata</i> var. <i>brevifolia</i> | FSC |

Nash County

Species

Vertebrate

| | | |
|---------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|------------------------------|-------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Tar River spinymussel | <i>Elliptio steinstansana</i> | E |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|-------------------------|--|-----|
| Sandhills bog lily * | <i>Lilium pyrophilum</i> | FSC |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

New Hanover County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

See the Federal Register for a description of the primary constituent elements essential for the conservation of wintering piping plovers within the designated units. This document also contains a map and a description of each designated unit. July 10, 2001, Federal Register, 66:36038- 36136.

Species

Vertebrate

| | | |
|------------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------|---|--------|
| Eastern painted bunting | <i>Passerina ciris ciris</i> | FSC |
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Mimic glass lizard * | <i>Ophisaurus mimicus</i> | FSC |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Piping plover | <i>Charadrius melodus</i> | T |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Invertebrate</u> | | |
| Buchholz's dart moth | <i>Agrotis buchholzi</i> | FSC |
| Cape Fear threetooth | <i>Triodopsis soelneri</i> | FSC |
| Eastern beard grass skipper ** | <i>Atrytone arogos arogos</i> | FSC |
| Greenfield rams-horn * | <i>Helisoma eucosmium</i> | FSC |
| Loammi skipper ** | <i>Atrytonopsis loammi</i> | FSC |
| Magnificent rams-horn * | <i>Planorbella magnifica</i> | FSC |
| Rare skipper | <i>Problema bulenta</i> | FSC |
| <u>Vascular Plant</u> | | |
| Bog St. John's-wort * | <i>Hypericum adpressum</i> | FSC |
| Carolina bishopweed | <i>Ptilimnium ahlesii</i> | FSC |
| Carolina lead-plant * | <i>Amorpha georgiana</i> var. <i>confusa</i> | FSC |
| Coastal beaksedge | <i>Rhynchospora pleiantha</i> | FSC |
| Coastal goldenrod * | <i>Solidago villosicarpa</i> | FSC |
| Dune blue curls | <i>Trichostema</i> sp. 1 | FSC |
| False coco * | <i>Pteroglossaspis ecristata</i> | FSC |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills milk-vetch * | <i>Astragalus michauxii</i> | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|----------------------------|--------------------------|--------|
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Tough bumelia * | <i>Sideroxylon tenax</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |

Northampton County

Species

Vertebrate

| | | |
|----------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |

Invertebrate

| | | |
|--------------------|----------------------------------|-----|
| Atlantic pigtoe * | <i>Fusconaia masoni</i> | FSC |
| Chowanoke crayfish | <i>Orconectes virginianensis</i> | FSC |
| Green floater | <i>Lasmigona subviridis</i> | FSC |

Vascular Plant

| | | |
|-----------------------|-------------------------------|-----|
| Bog St. John's-wort * | <i>Hypericum adpressum</i> | FSC |
| Reclining bulrush | <i>Scirpus flaccidifolius</i> | FSC |
| Sandhills bog lily * | <i>Lilium pyrophilum</i> | FSC |

Onslow County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

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Species

Vertebrate

| | | |
|---------------------------|---------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Eastern painted bunting | <i>Passerina ciris ciris</i> | FSC |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|---|--------|
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Leatherback sea turtle | <i>Dermochelys coriacea</i> | E |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Mimic glass lizard | <i>Ophisaurus mimicus</i> | FSC |
| Piping plover | <i>Charadrius melodus</i> | T |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon * | <i>Acipenser brevirostrum</i> | E |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Invertebrate</u> | | |
| a skipper | <i>Atrytonopsis</i> sp. 1 | FSC |
| Buchholz's dart moth ** | <i>Agrotis buchholzi</i> | FSC |
| <u>Vascular Plant</u> | | |
| a quillwort | <i>Isoetes microvela</i> | FSC |
| Awned meadowbeauty | <i>Rhexia aristosa</i> | FSC |
| Boykin's lobelia | <i>Lobelia boykinii</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Carolina trillium * | <i>Trillium pusillum</i> var. <i>pusillum</i> | FSC |
| Coastal beaksedge | <i>Rhynchospora pleiantha</i> | FSC |
| Coastal goldenrod | <i>Solidago villosicarpa</i> | FSC |
| Cooley's meadowrue | <i>Thalictrum cooleyi</i> | E |
| Golden sedge | <i>Carex lutea</i> | E |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |
| Hirst's panic grass | <i>Dichanthelium hirstii</i> | C |
| Loose watermilfoil | <i>Myriophyllum laxum</i> | FSC |
| Many-flowered grass-pink | <i>Calopogon multiflorus</i> | FSC |
| Pineland plantain | <i>Plantago sparsiflora</i> | FSC |
| Pondberry | <i>Lindera melissifolia</i> | E |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Savanna onion | <i>Allium</i> sp. 1 | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Smooth-seeded hairy nutrush | <i>Scleria</i> sp. 1 | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Swamp forest beakrush | <i>Rhynchospora decurrens</i> | FSC |
| Thorne's beakrush | <i>Rhynchospora thornei</i> | FSC |

| | | |
|-----------------------|----------------------------------|-----|
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| Wagner's spleenwort * | <i>Asplenium heteroresiliens</i> | FSC |

Orange County

Species

Vertebrate

| | | |
|---------------------------|------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis lepidinon</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|-------------------|------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Savannah lilliput | <i>Toxolasma pullus</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|------------------------|------------------------------|-----|
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Creamy tick-trefoil * | <i>Desmodium ochroleucum</i> | FSC |
| Michaux's sumac * | <i>Rhus michauxii</i> | E |
| Smooth coneflower * | <i>Echinacea laevigata</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| Torrey's Mountain-mint | <i>Pycnanthemum torrei</i> | FSC |

Pamlico County

Species

Vertebrate

| | | |
|--------------------------------------|-------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black rail | <i>Laterallus jamaicensis</i> | FSC |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Kemp's (=Atlantic) ridley sea turtle | <i>Lepidochelys kempii</i> | E |
| Northern diamondback terrapin | <i>Malaclemys terrapin terrapin</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Shortnose sturgeon % | <i>Acipenser brevirostrum</i> | E |
| West Indian manatee * | <i>Trichechus manatus</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Vascular Plant

| | | |
|----------------------------|----------------------------------|-----|
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap * | <i>Dionaea muscipula</i> | FSC |

Pasquotank County

Species

Vertebrate

| | | |
|--------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |

Vascular Plant

| | | |
|-----------------------|--------------------------------|-----|
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
|-----------------------|--------------------------------|-----|

Pender County

Critical Habitat

Vertebrate

| | | |
|---------------|---------------------------|---|
| Piping plover | <i>Charadrius melodus</i> | T |
|---------------|---------------------------|---|

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Species

Vertebrate

| | | |
|----------------------------|---------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Eastern painted bunting | <i>Passerina ciris ciris</i> | FSC |
| Green sea turtle | <i>Chelonia mydas</i> | T |
| Loggerhead sea turtle | <i>Caretta caretta</i> | T |
| Piping plover | <i>Charadrius melodus</i> | T |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picooides borealis</i> | E |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|---|--------|
| West Indian manatee | <i>Trichechus manatus</i> | E |
| <u>Invertebrate</u> | | |
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Buchholz's dart moth | <i>Agrotis buchholzi</i> | FSC |
| Carter's noctuid moth | <i>Spartiniphaga carterae</i> | FSC |
| Venus flytrap cutworm | <i>Hemipachnobia subporphyrea</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| American chaffseed * | <i>Schwalbea americana</i> | E |
| Carolina bishopweed | <i>Ptilimnium ahlesii</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Carolina trillium | <i>Trillium pusillum</i> var. <i>pusillum</i> | FSC |
| Coastal goldenrod | <i>Solidago villosicarpa</i> | FSC |
| Cooley's meadowrue | <i>Thalictrum cooleyi</i> | E |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Golden sedge | <i>Carex lutea</i> | E |
| Grassleaf arrowhead | <i>Sagittaria weatherbiana</i> | FSC |
| Pickering's dawnflower * | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Pineland plantain | <i>Plantago sparsiflora</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Savanna onion | <i>Allium</i> sp. 1 | FSC |
| Seabeach amaranth | <i>Amaranthus pumilus</i> | T |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| Smooth-seeded hairy nutrush | <i>Scleria</i> sp. 1 | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Thorne's beakrush | <i>Rhynchospora thornei</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |

Perquimans County

Species

Vertebrate

| | | |
|----------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |

Vascular Plant

| | | |
|-------------------|-------------------------|-----|
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
|-------------------|-------------------------|-----|

Person County

Species

Vertebrate

| | | |
|-------------------|------------------------------------|-----|
| Carolina darter % | <i>Etheostoma collis lepidinon</i> | FSC |
|-------------------|------------------------------------|-----|

| | | |
|---------------------|----------------------------|-----|
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
|---------------------|----------------------------|-----|

| | | |
|--------------|------------------------------|-----|
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |
|--------------|------------------------------|-----|

Invertebrate

| | | |
|-----------------|-------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
|-----------------|-------------------------|-----|

| | | |
|----------------------|------------------------------|---|
| Dwarf wedgemussel ** | <i>Alasmidonta heterodon</i> | E |
|----------------------|------------------------------|---|

| | | |
|---------------|-----------------------------|-----|
| Green floater | <i>Lasmigona subviridis</i> | FSC |
|---------------|-----------------------------|-----|

| | | |
|-------------------|--------------------------|-----|
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
|-------------------|--------------------------|-----|

Vascular Plant

| | | |
|---------------------------|--|-----|
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
|---------------------------|--|-----|

| | | |
|-----------------|----------------------------|-----|
| Sweet pinesap * | <i>Monotropsis odorata</i> | FSC |
|-----------------|----------------------------|-----|

| | | |
|--------------------|--------------------------|-----|
| Virginia quillwort | <i>Isoetes virginica</i> | FSC |
|--------------------|--------------------------|-----|

Pitt County

Species

Vertebrate

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|------------|---------------------------------|------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
|------------|---------------------------------|------|

| | | |
|-----------------|-------------------------|-----|
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
|-----------------|-------------------------|-----|

| | | |
|---------------------------|---------------------------------------|-----|
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
|---------------------------|---------------------------------------|-----|

| | | |
|---------------------|----------------------------|-----|
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
|---------------------|----------------------------|-----|

| | | |
|---------------------------|--------------------------|---|
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
|---------------------------|--------------------------|---|

| | | |
|--------------|------------------------------|-----|
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |
|--------------|------------------------------|-----|

| | | |
|---------------------------|------------------------|-----|
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |
|---------------------------|------------------------|-----|

| | | |
|---------------------|---------------------------|---|
| West Indian manatee | <i>Trichechus manatus</i> | E |
|---------------------|---------------------------|---|

Invertebrate

| | | |
|-----------------|-------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
|-----------------|-------------------------|-----|

| | | |
|---------------|-----------------------------|-----|
| Green floater | <i>Lasmigona subviridis</i> | FSC |
|---------------|-----------------------------|-----|

| | | |
|-------------------------|-------------------------------|---|
| Tar River spinymussel * | <i>Elliptio steinstansana</i> | E |
|-------------------------|-------------------------------|---|

| | | |
|-------------------|--------------------------|-----|
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
|-------------------|--------------------------|-----|

Vascular Plant

| | | |
|-----------------------|--------------------------------|-----|
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
|-----------------------|--------------------------------|-----|

Polk County

Species

Vertebrate

| | | |
|--------------------------------------|--------------------------------------|-----|
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |

Invertebrate

| | | |
|------------------------------|-----------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Grizzled skipper * | <i>Pyrgus wyandot</i> | FSC |

Vascular Plant

| | | |
|------------------------------------|--------------------------------|-----|
| Big-leaf scurfpea * | <i>Orbexilum macrophyllum</i> | FSC |
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| French Broad heartleaf | <i>Hexastylis rhombiformis</i> | FSC |
| Large-flowered barbara's-buttons * | <i>Marshallia grandiflora</i> | FSC |
| Small whorled pogonia % | <i>Isotria medeoloides</i> | T |
| Sweet pinesap * | <i>Monotropsis odorata</i> | FSC |
| White irisette | <i>Sisyrinchium dichotomum</i> | E |
| <u>Lichen</u> a lichen | <i>Canoparmelia amabilis</i> | FSC |

Randolph County

Critical Habitat

Vertebrate

| | | |
|------------------|-------------------------------|---|
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
|------------------|-------------------------------|---|

Approximately 1.5 miles of Fork Creek, from a point 0.1 river mile upstream of Randolph County Road 2873 Bridge downstream to the Deep River then downstream approximately 4.1 river miles of the Deep River in Randolph and Moore Counties, North Carolina, to a point 2.5 river miles below Moore County Road 1456 Bridge. Constituent elements include clean streams with gravel, cobble, and boulder substrates with pools, riffles, shallow runs and slackwater areas with large rock outcrops and side channels and pools with water of good quality with relatively low silt loads. September 25, 1987, Federal Register, 2: 36034-36039.

Species

Vertebrate

| | | |
|--------------------|---------------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Cape Fear shiner | <i>Notropis mekistocholas</i> | E |
| Carolina darter ** | <i>Etheostoma collis collis</i> | FSC |
| Carolina redbhorse | <i>Moxostoma sp. 2</i> | FSC |

Invertebrate

| | | |
|-----------------|-------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
|-----------------|-------------------------|-----|

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|--|--------|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Savannah lilliput | <i>Toxolasma pullus</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |

Richmond County

Species

Vertebrate

| | | |
|----------------------------|--|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Carolina redbhorse | <i>Moxostoma</i> sp. 2 | FSC |
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Pinewoods darter | <i>Etheostoma mariae</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Robust redbhorse | <i>Moxostoma robustum</i> | FSC |
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |
| Shortnose sturgeon | <i>Acipenser brevirostrum</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|--------------------------------|-------------------------------|-----|
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
| Carolina heelsplitter * | <i>Lasmigona decorata</i> | E |
| Eastern beard grass skipper ** | <i>Atrytone arogos arogos</i> | FSC |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |

Vascular Plant

| | | |
|--------------------|--|-----|
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|---|--------|
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Small-leaved meadow-rue | <i>Thalictrum macrostylum</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |

Robeson County

Species

Vertebrate

| | | |
|----------------------------|--|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow * | <i>Aimophila aestivalis</i> | FSC |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Pinewoods darter ** | <i>Etheostoma mariae</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|--------------------|------------------------------------|-----|
| Bronze clubtail ** | <i>Stylurus (=Gomphus) townesi</i> | FSC |
|--------------------|------------------------------------|-----|

Vascular Plant

| | | |
|------------------------|--|-----|
| Awed meadowbeauty | <i>Rhexia aristosa</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| False coco * | <i>Pteroglossaspis ecristata</i> | FSC |
| Georgia lead-plant * | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Sandhills milk-vetch * | <i>Astragalus michauxii</i> | FSC |
| Venus' fly-trap * | <i>Dionaea muscipula</i> | FSC |

Rockingham County

Species

Vertebrate

| | | |
|------------------|--------------------|---|
| Roanoke logperch | <i>Percina rex</i> | E |
|------------------|--------------------|---|

Invertebrate

| | | |
|---------------|-----------------------------|-----|
| Green floater | <i>Lasmigona subviridis</i> | FSC |
|---------------|-----------------------------|-----|

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------|--|--------|
| James (=Virginia) spiny mussel | <i>Pleurobema collina</i> | E |
| <u>Vascular Plant</u> | | |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Smooth coneflower | <i>Echinacea laevigata</i> | E |
| <u>Nonvascular plant</u> | | |
| Gorge moss | <i>Bryocrumia vivicolor</i> | FSC |

Rowan County

Species

Vertebrate

| | | |
|-------------------|---------------------------------|------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter % | <i>Etheostoma collis collis</i> | FSC |
| Robust redhorse * | <i>Moxostoma robustum</i> | FSC |

Invertebrate

| | | |
|-------------------|--------------------------|-----|
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
|-------------------|--------------------------|-----|

Vascular Plant

| | | |
|---------------------------|--|-----|
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Virginia quillwort * | <i>Isoetes virginica</i> | FSC |

Rutherford County

Species

Vertebrate

| | | |
|--------------------------------------|--|-----|
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Indiana bat | <i>Myotis sodalis</i> | E |
| Northern pine snake ** | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematorea</i> | FSC |

Vascular Plant

| | | |
|--------------------------|------------------------------|-----|
| Blue Ridge Ragwort | <i>Packera millefolium</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Dwarf-flowered heartleaf | <i>Hexastylis naniflora</i> | T |
| Granite dome goldenrod | <i>Solidago simulans</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Mountain catchfly * | <i>Silene ovata</i> | FSC |
| Mountain heartleaf | <i>Hexastylis contracta</i> | FSC |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------------|--|---------|
| Sweet pinesap | <i>Monotropis odorata</i> | FSC |
| White irisette | <i>Sisyrinchium dichotomum</i> | E |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |
| Sampson County | | |
| <i>Species</i> | | |
| <u>Vertebrate</u> | | |
| American alligator * | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Broadtail madtom | <i>Noturus</i> sp. cf. <i>leptacanthus</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |
| Mimic glass lizard | <i>Ophisaurus mimicus</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
| <u>Invertebrate</u> | | |
| American sandburrowing mayfly * | <i>Dolania americana</i> | FSC |
| <u>Vascular Plant</u> | | |
| Awnead meadowbeauty | <i>Rhexia aristosa</i> | FSC |
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Carolina bogmint | <i>Macbridea caroliniana</i> | FSC |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Pondberry | <i>Lindera melissifolia</i> | E |
| Pondspice | <i>Litsea aestivalis</i> | FSC |
| Raven's boxseed * | <i>Ludwigia ravenii</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| Venus' fly-trap | <i>Dionaea muscipula</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Cylindrocolea andersonii</i> | FSC |

Scotland County

Species

Vertebrate

| | | |
|------------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Carolina crawfish frog | <i>Rana capito capito</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|---|--------|
| Northern pine snake | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Pinewoods darter | <i>Etheostoma mariae</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Sandhills chub | <i>Semotilus lumbee</i> | FSC |
| Southeastern myotis | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake | <i>Heterodon simus</i> | FSC |
| <u>Vascular Plant</u> | | |
| American chaffseed | <i>Schwalbea americana</i> | E |
| Awned meadowbeauty | <i>Rhexia aristosa</i> | FSC |
| Bog oatgrass | <i>Danthonia epilis</i> | FSC |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Boykin's lobelia | <i>Lobelia boykinii</i> | FSC |
| Canby's dropwort | <i>Oxypolis canbyi</i> | E |
| Carolina grass-of-parnassus | <i>Parnassia caroliniana</i> | FSC |
| Georgia lead-plant | <i>Amorpha georgiana</i> var. <i>georgiana</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Pickering's dawnflower | <i>Stylisma pickeringii</i> var. <i>pickeringii</i> | FSC |
| Roughleaf yellow-eyed grass | <i>Xyris scabrifolia</i> | FSC |
| Rough-leaved loosestrife | <i>Lysimachia asperulaefolia</i> | E |
| Sandhills bog lily | <i>Lilium pyrophilum</i> | FSC |
| Sandhills milk-vetch | <i>Astragalus michauxii</i> | FSC |
| Spring-flowering goldenrod | <i>Solidago verna</i> | FSC |
| <u>Nonvascular plant</u> | | |
| Savanna campylopus | <i>Campylopus carolinae</i> | FSC |

Stanly County

Species

Vertebrate

| | | |
|--------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
| Carolina redbreast | <i>Moxostoma</i> sp. 2 | FSC |

Invertebrate

| | | |
|---------------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |

Vascular Plant

| | | |
|-------------|--------------------------|-----|
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|--|--------|
| Georgia aster * | <i>Symphyotrichum georgianum</i> | C |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Riparian vervain ** | <i>Verbena riparia</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Virginia quillwort * | <i>Isoetes virginica</i> | FSC |
| Yadkin River goldenrod | <i>Solidago plumosa</i> | C |

Stokes County

Species

Vertebrate

| | | |
|------------------|----------------------------|-----|
| Orangefin madtom | <i>Noturus gilberti</i> | FSC |
| Rustyside sucker | <i>Thoburnia hamiltoni</i> | FSC |

Invertebrate

| | | |
|--------------------------------|-----------------------------|-----|
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| James (=Virginia) spiny mussel | <i>Pleurobema collina</i> | E |
| Margarita River skimmer | <i>Macromia margarita</i> | FSC |

Vascular Plant

| | | |
|----------------------------|--------------------------------|-----|
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Small-anthered bittercress | <i>Cardamine micranthera</i> | E |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |

Surry County

Species

Vertebrate

| | | |
|-------------------|-----------------------------|---------|
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Robust redhorse * | <i>Moxostoma robustum</i> | FSC |

Invertebrate

| | | |
|---------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
|---------------|-----------------------------|-----|

Vascular Plant

| | | |
|-------------------------|--------------------------------|---|
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Small whorled pogonia * | <i>Isotria medeoloides</i> | T |

Swain County*Critical Habitat*Vertebrate

Spotfin chub (=turquoise shiner) *Erimonax monachus* T

Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia state line. September 22, 1977, Federal Register,

Invertebrate

Appalachian elktoe *Alasmidonta raveneliana* E

The main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, North Carolina, downstream to the backwaters of Fontana Reservoir in Swain County, North Carolina, and the main stem of the Tuckasegee River (Little Tennessee River system), from the N.C. State Route 1002 Bridge in Cullowhee, Jackson County, North Carolina, downstream to the N.C. Highway 19 Bridge, north of Bryson City, Swain County, North Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

Spruce-fir moss spider * *Microhexura montivaga* E

All portions of the Great Smoky Mountain National Park bounded to the north and to the south of the North Carolina/Tennessee State line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line, south of Mingus Lead, Tennessee, southwest and then west to the intersection of the 1,646-m (5,400-ft) contour with the State line, east of The Narrows and west of Jenkins Knob, North Carolina, and Tennessee. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

*Species*Vertebrate

Appalachian cottontail *Sylvilagus obscurus* FSC

Bald eagle *Haliaeetus leucocephalus* BGPA

Bog turtle % *Clemmys muhlenbergii* T (S/A)

Carolina northern flying squirrel *Glaucomys sabrinus coloratus* E

Eastern puma (=cougar) * *Puma concolor cougar* E

Eastern small-footed bat *Myotis leibii* FSC

Gray bat *Myotis grisescens* E

Hellbender ** *Cryptobranchus alleganiensis* FSC

Indiana bat *Myotis sodalis* E

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|---|--------|
| Northern pine snake * | <i>Pituophis melanoleucus melanoleucus</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Olive-sided flycatcher | <i>Contopus cooperi</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Seepage salamander | <i>Desmognathus aeneus</i> | FSC |
| Sicklefin redhorse | <i>Moxostoma</i> sp. 1 | C |
| Smoky dace | <i>Clinostomus funduloides</i> ssp.. | FSC |
| Southern Appalachian black-capped chickadee | <i>Poecile atricapillus praticus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |
| Southern rock vole | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| Southern water shrew | <i>Sorex palustris punctulatus</i> | FSC |
| Spotfin chub (=turquoise shiner) | <i>Erimonax monachus</i> | T |
| wounded darter | <i>Etheostoma vulneratum</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Clingman covert | <i>Mesodon clingmanicus</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| French Broad crayfish % | <i>Cambarus reburus</i> | FSC |
| Little Tennessee mussel | <i>Lexingtonia</i> sp. cf. <i>dolabelloides</i> | FSC |
| Little-wing pearlymussel | <i>Pegias fabula</i> | E |
| Lost Nantahala Cave spider ** | <i>Nesticus cooperi</i> | FSC |
| Margarita River skimmer | <i>Macromia margarita</i> | FSC |
| Noonday snail | <i>Mesodon clarki nantahala</i> | T |
| Southern Tawny Crescent butterfly | <i>Phyciodes batesii maconensis</i> | FSC |
| Spruce-fir moss spider * | <i>Microhexura montivaga</i> | E |
| <u>Vascular Plant</u> | | |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Creamy tick-trefoil * | <i>Desmodium ochroleucum</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-----------------------------|--|--------|
| Mountain bitter cress * | <i>Cardamine clematitidis</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Mountain Thaspium * | <i>Thaspium pinnatifidum</i> | FSC |
| Piratebush ** | <i>Buckleya distichophylla</i> | FSC |
| Rugel's ragwort | <i>Rugelia nudicaulis</i> | FSC |
| Smoky Mountains manna grass | <i>Glyceria nubigena</i> | FSC |
| Southern Oconee-bells * | <i>Shortia galacifolia</i> var. <i>galacifolia</i> | FSC |
| Sweet pinesap * | <i>Monotropsis odorata</i> | FSC |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |
| a liverwort * | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen * | <i>Gymnoderma lineare</i> | E |

Transylvania County

Critical Habitat

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the Little River (French Broad River system), from the Cascade Lake Power Plant, downstream to its confluence with the French Broad River. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register,

Species

Vertebrate

| | | |
|--|-------------------------------------|---------|
| Appalachian Bewick's wren * | <i>Thryomanes bewickii altus</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Green salamander | <i>Aneides aeneus</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---|--|--------|
| Southern Appalachian black-capped chickadee | <i>Poecile atricapillus praticus</i> | FSC |
| Southern Appalachian eastern woodrat | <i>Neotoma floridana haematoreia</i> | FSC |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| French Broad crayfish | <i>Cambarus reburrrus</i> | FSC |
| Grizzled skipper * | <i>Pyrgus wyandot</i> | FSC |
| Margarita River skimmer * | <i>Macromia margarita</i> | FSC |
| Oconee crayfish ostracod | <i>Cymocythere clavata</i> | FSC |
| Tennessee clubshell | <i>Pleurobema oviforme</i> | FSC |
| Transylvania crayfish ostracod * | <i>Waltoncythere acuta</i> | FSC |
| <u>Vascular Plant</u> | | |
| Alexander's rock aster * | <i>Eurybia avita</i> | FSC |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Fraser's loosestrife | <i>Lysimachia fraseri</i> | FSC |
| French Broad heartleaf | <i>Hexastylis rhombiformis</i> | FSC |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Lobed Barren-strawberry | <i>Waldsteinia lobata</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitis</i> | FSC |
| Mountain sweet pitcherplant | <i>Sarracenia rubra ssp.. jonesii</i> | E |
| Small whorled pogonia | <i>Isotria medeoloides</i> | T |
| Smoky Mountains manna grass | <i>Glyceria nubigena</i> | FSC |
| Southern Oconee-bells | <i>Shortia galacifolia</i> var. <i>galacifolia</i> | FSC |
| Spreading avens | <i>Geum radiatum</i> | E |
| Swamp pink | <i>Helonias bullata</i> | T |
| Sweet pinesap | <i>Monotropsis odorata</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a hornwort * | <i>Aspiromitus appalachianus</i> | FSC |
| a liverwort | <i>Porella wataugensis</i> | FSC |
| a liverwort * | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort * | <i>Plagiochila virginica</i> var. <i>caroliniana</i> | FSC |
| a liverwort | <i>Plagiochila sharpii</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

| | | |
|--------------|-----------------------------|-----|
| Gorge moss * | <i>Bryocrumia vivicolor</i> | FSC |
|--------------|-----------------------------|-----|

Lichen

| | | |
|-------------------|---------------------------|---|
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |
|-------------------|---------------------------|---|

Tyrrell County

Species

Vertebrate

| | | |
|--------------------|-----------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
|--------------------|-----------------------------------|---------|

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|------------|---------------------------------|------|
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
|------------|---------------------------------|------|

| | | |
|------------------------------|--------------------------------|-----|
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
|------------------------------|--------------------------------|-----|

| | | |
|----------------------------|---------------------------------|-----|
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
|----------------------------|---------------------------------|-----|

| | | |
|----------|--------------------|---|
| Red wolf | <i>Canis rufus</i> | E |
|----------|--------------------|---|

| | | |
|-------------------------|--------------------------|---|
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
|-------------------------|--------------------------|---|

Union County

Critical Habitat

Invertebrate

| | | |
|-----------------------|---------------------------|---|
| Carolina heelsplitter | <i>Lasmigona decorata</i> | E |
|-----------------------|---------------------------|---|

The main stem of Goose Creek (Pee Dee River system), from the N.C. Highway 218 Bridge, downstream to its confluence with the Rocky River, and the main stem of Duck Creek, from the Mecklenburg/Union County line, downstream to its confluence with Goose Creek; the main stem of Waxhaw Creek (Catawba River system), from the N.C. Highway 200 Bridge, downstream to the North Carolina/South Carolina State line; and the main stem of Flat Creek (Pee Dee River system), Lancaster County, South Carolina, from the S.C. Route 204 Bridge, downstream to its confluence with the Lynches River, and the main stem of the Lynches River, Lancaster and Chesterfield Counties, South Carolina, from the confluence of Belk Branch, Lancaster County, northeast (upstream) of the U.S. Highway 601 Bridge, downstream to the S.C. Highway 903 Bridge in Kershaw County, South Carolina. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream and river channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable substrates with no more than low amounts of fine sediment; (v) Moderate stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. July 2, 2002, Federal Register, 67:44501-44522.

Species

Vertebrate

| | | |
|--------------|--------------------------|-----|
| American eel | <i>Anguilla rostrata</i> | FSC |
|--------------|--------------------------|-----|

| | | |
|-----------------|---------------------------------|-----|
| Carolina darter | <i>Etheostoma collis collis</i> | FSC |
|-----------------|---------------------------------|-----|

Invertebrate

| | | |
|-----------------|-------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
|-----------------|-------------------------|-----|

| | | |
|---------------------|----------------------------|-----|
| Carolina creekshell | <i>Villosa vaughaniana</i> | FSC |
|---------------------|----------------------------|-----|

| | | |
|-----------------------|---------------------------|---|
| Carolina heelsplitter | <i>Lasmigona decorata</i> | E |
|-----------------------|---------------------------|---|

| | | |
|-------------------|-------------------------|-----|
| Savannah lilliput | <i>Toxolasma pullus</i> | FSC |
|-------------------|-------------------------|-----|

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|---------------------------|--|--------|
| Yellow lampmussel % | <i>Lampsilis cariosa</i> | FSC |
| <u>Vascular Plant</u> | | |
| Dwarf aster | <i>Eurybia mirabilis</i> | FSC |
| Georgia aster | <i>Symphyotrichum georgianum</i> | C |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Prairie birdsfoot-trefoil | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
| Schweinitz's sunflower | <i>Helianthus schweinitzii</i> | E |
| Shoals spiderlily % | <i>Hymenocallis coronaria</i> | FSC |
| Virginia quillwort * | <i>Isoetes virginica</i> | FSC |

Vance County

Species

Vertebrate

| | | |
|---------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |

Invertebrate

| | | |
|-------------------|------------------------------|-----|
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Yellow lampmussel | <i>Lampsilis cariosa</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|--------------------|--------------------------|-----|
| Buttercup phacelia | <i>Phacelia covillei</i> | FSC |
|--------------------|--------------------------|-----|

Wake County

Species

Vertebrate

| | | |
|---------------------------|------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow * | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina darter % | <i>Etheostoma collis lepidinon</i> | FSC |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |
| Southeastern myotis * | <i>Myotis austroriparius</i> | FSC |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

Invertebrate

| | | |
|------------------------------|--|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Green floater | <i>Lasmigona subviridis</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |
| <u>Vascular Plant</u> | | |
| Bog spicebush | <i>Lindera subcoriacea</i> | FSC |
| Grassleaf arrowhead * | <i>Sagittaria weatherbiana</i> | FSC |
| Michaux's sumac | <i>Rhus michauxii</i> | E |
| Sweet pinesap * | <i>Monotropsis odorata</i> | FSC |
| Virginia least trillium | <i>Trillium pusillum</i> var. <i>virginianum</i> | FSC |

Warren County

Species

Vertebrate

| | | |
|---------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bachman's sparrow | <i>Aimophila aestivalis</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Roanoke bass | <i>Ambloplites cavifrons</i> | FSC |

Invertebrate

| | | |
|------------------------|-------------------------------|-----|
| Atlantic pigtoe | <i>Fusconaia masoni</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |
| Tar River spiny mussel | <i>Elliptio steinstansana</i> | E |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|-----------------------------|--|-----|
| Prairie birdsfoot-trefoil * | <i>Lotus unifoliolatus</i> var. <i>helleri</i> | FSC |
|-----------------------------|--|-----|

Washington County

Species

Vertebrate

| | | |
|------------------------------|--------------------------------------|---------|
| American alligator | <i>Alligator mississippiensis</i> | T (S/A) |
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Black-throated green warbler | <i>Dendroica virens waynei</i> | FSC |
| Lake Phelps killfish | <i>Fundulus</i> cf. <i>diaphanus</i> | FSC |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> | FSC |
| Red wolf | <i>Canis rufus</i> | E |

Watauga County*Critical Habitat*Invertebrate

Spruce-fir moss spider

Microhexura montivaga

E

All areas of privately owned Grandfather Mountain at and above the 1,646-m (5,400-ft) contour. Within these areas, the primary constituent elements include (1) Fraser fir or fir-dominated spruce-fir forests at and above 1,646-m (5,400-m) in elevation, and (2) moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface. July 6, 2001, Federal Register, 66:35547-35566.

*Species*Vertebrate

Allegheny woodrat

Neotoma magister

FSC

Appalachian cottontail

Sylvilagus obscurus

FSC

Bog turtle

Clemmys muhlenbergii

T (S/A)

Carolina northern flying squirrel

Glaucomys sabrinus coloratus

E

Cerulean warbler

Dendroica cerulea

FSC

Eastern small-footed bat

Myotis leibii

FSC

Golden-winged warbler

Vermivora chrysoptera

FSC

Hellbender

Cryptobranchus alleganiensis

FSC

Kanawha minnow

Phenacobius teretulus

FSC

Northern saw-whet owl
(Southern Appalachian population)*Aegolius acadicus* pop. 1

FSC

Pygmy salamander

Desmognathus wrighti

FSC

Red crossbill (Southern Appalachian) %

Loxia curvirostra

FSC

Southern water shrew **

Sorex palustris punctulatus

FSC

Virginia big-eared bat

Corynorhinus townsendii virginianus

E

Yellow-bellied sapsucker
(Southern Appalachian population)*Sphyrapicus varius appalachiensis*

FSC

Invertebrate

Diana fritillary (butterfly)

Speyeria diana

FSC

Green floater

Lasmigona subviridis

FSC

Spruce-fir moss spider

Microhexura montivaga

E

Vascular Plant

Bent avens

Geum geniculatum

FSC

Blue Ridge goldenrod

Solidago spithamea

T

Bog blue grass *

Poa paludigena

FSC

Butternut

Juglans cinerea

FSC

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|-------------|-----------------|--------|
|-------------|-----------------|--------|

| | | |
|---------------------------------|--|-----|
| Darlington's spurge ** | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Heller's blazing star | <i>Liatris helleri</i> | T |
| Large-leaved Grass-of-Parnassus | <i>Parnassia grandifolia</i> | FSC |
| Mountain bitter cress | <i>Cardamine clematitidis</i> | FSC |
| Roan mountain bluet | <i>Hedyotis purpurea</i> var. <i>montana</i> | E |
| Spreading avens | <i>Geum radiatum</i> | E |
| Tall larkspur | <i>Delphinium exaltatum</i> | FSC |
| <u>Nonvascular plant</u> | | |
| a liverwort * | <i>Porella wataugensis</i> | FSC |
| a liverwort * | <i>Plagiochila sullivanii</i> var. <i>sullivanii</i> | FSC |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |

Wayne County

Species

Vertebrate

| | | |
|------------------------------|---------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Rafinesque's big-eared bat * | <i>Corynorhinus rafinesquii</i> | FSC |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | E |
| Southern hognose snake ** | <i>Heterodon simus</i> | FSC |

Invertebrate

| | | |
|-------------------|----------------------------|-----|
| Atlantic pigtoe * | <i>Fusconaia masoni</i> | FSC |
| Yellow lance | <i>Elliptio lanceolata</i> | FSC |

Vascular Plant

| | | |
|---------------------|---------------------------|-----|
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Pondspice | <i>Litsea aestivalis</i> | FSC |

Wilkes County

Species

Vertebrate

| | | |
|--------------------------|-----------------------------|---------|
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Cerulean warbler | <i>Dendroica cerulea</i> | FSC |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------------|----------------------------|--------|
| <u>Invertebrate</u> | | |
| Diana fritillary (butterfly) | <i>Speyeria diana</i> | FSC |
| Regal fritillary (butterfly) * | <i>Speyeria idalia</i> | FSC |
| <u>Vascular Plant</u> | | |
| Butternut * | <i>Juglans cinerea</i> | FSC |
| Radford's St. John's-wort | <i>Hypericum</i> sp. 1 | FSC |
| Torrey's Mountain-mint * | <i>Pycnanthemum torrei</i> | FSC |

Wilson County

Species

Vertebrate

| | | |
|---------------------------|---------------------------------------|------|
| American eel | <i>Anguilla rostrata</i> | FSC |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | BGPA |
| Carolina madtom | <i>Noturus furiosus</i> | FSC |
| Eastern Henslow's sparrow | <i>Ammodramus henslowii susurrans</i> | FSC |
| Pinewoods shiner ** | <i>Lythrurus matutinus</i> | FSC |
| Red-cockaded woodpecker * | <i>Picoides borealis</i> | E |

Invertebrate

| | | |
|-------------------|------------------------------|-----|
| Atlantic pigtoe * | <i>Fusconaia masoni</i> | FSC |
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | E |

Vascular Plant

| | | |
|-------------------|-----------------------|---|
| Michaux's sumac * | <i>Rhus michauxii</i> | E |
|-------------------|-----------------------|---|

Yadkin County

Species

Vertebrate

| | | |
|-------------------|---------------------------|-----|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Robust redhorse * | <i>Moxostoma robustum</i> | FSC |

Invertebrate

| | | |
|---------------|-----------------------------|-----|
| Brook floater | <i>Alasmidonta varicosa</i> | FSC |
|---------------|-----------------------------|-----|

Yancey County

Critical Habitat

Invertebrate

| | | |
|--------------------|--------------------------------|---|
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
|--------------------|--------------------------------|---|

The main stem of the North Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of Big Crabtree Creek, downstream to the confluence of the South Toe River; the main stem of the South Toe River, Yancey County, North Carolina, from the N.C. State Route 1152 Bridge, downstream to its confluence with the North Toe River; the main stem of the Toe River, Yancey and Mitchell Counties, North Carolina, from the confluence of the North Toe River and the South Toe River, downstream to the confluence of the Cane River; the main stem of the Cane River, Yancey County, North Carolina, from the N.C. State Route 1381 Bridge, downstream to its confluence with the Toe River; and the main stem of the Nolichucky River, from

COMMON NAME

SCIENTIFIC NAME

STATUS

the confluence of the Toe River and the Cane River in Yancey and Mitchell Counties, North Carolina, downstream to the U.S. Highway 23/19W Bridge southwest of Erwin, Unicoi County, Tennessee. Within these areas, the primary constituent elements include: (i) Permanent, flowing, cool, clean water; (ii) Geomorphically stable stream channels and banks; (iii) Pool, riffle, and run sequences within the channel; (iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment; (v) Moderate to high stream gradient; (vi) Periodic natural flooding; and (vii) Fish hosts, with adequate living, foraging, and spawning areas for them. September 27, 2002, Federal Register, 67:61016-61040.

*Species*Vertebrate

| | | |
|---|--|---------|
| Allegheny woodrat | <i>Neotoma magister</i> | FSC |
| Appalachian cottontail | <i>Sylvilagus obscurus</i> | FSC |
| Blotchside logperch | <i>Percina burtoni</i> | FSC |
| Bog turtle | <i>Clemmys muhlenbergii</i> | T (S/A) |
| Carolina northern flying squirrel | <i>Glaucomys sabrinus coloratus</i> | E |
| Eastern puma (=cougar) * | <i>Puma concolor cougar</i> | E |
| Eastern small-footed bat | <i>Myotis leibii</i> | FSC |
| Hellbender | <i>Cryptobranchus alleganiensis</i> | FSC |
| Mountain blotched chub ** | <i>Erimystax insignis eristigma</i> | FSC |
| Northern saw-whet owl (Southern Appalachian population) | <i>Aegolius acadicus</i> pop. 1 | FSC |
| Olive darter | <i>Percina squamata</i> | FSC |
| Olive-sided flycatcher | <i>Contopus cooperi</i> | FSC |
| Pygmy salamander | <i>Desmognathus wrighti</i> | FSC |
| Red crossbill (Southern Appalachian) | <i>Loxia curvirostra</i> | FSC |
| Sharphead darter | <i>Etheostoma acuticeps</i> | FSC |
| Southern Appalachian black-capped chickadee * | <i>Poecile atricapillus praticus</i> | FSC |
| Southern rock vole | <i>Microtus chrotorrhinus carolinensis</i> | FSC |
| Virginia big-eared bat | <i>Corynorhinus townsendii virginianus</i> | E |
| Yellow-bellied sapsucker (Southern Appalachian population) | <i>Sphyrapicus varius appalachiensis</i> | FSC |
| <u>Invertebrate</u> | | |
| a harvestman | <i>Fumontana deprehendor</i> | FSC |
| Appalachian elktoe | <i>Alasmidonta raveneliana</i> | E |
| Fragile supercoil | <i>Glyphyalinia clingmani</i> | FSC |
| Roan supercoil ** | <i>Paravitrea varidens</i> | FSC |
| Spruce-fir moss spider * | <i>Microhexura montivaga</i> | E |
| Yancey sideswimmer ** | <i>Stygobromus carolinensis</i> | FSC |

| COMMON NAME | SCIENTIFIC NAME | STATUS |
|--------------------------|--|--------|
| <u>Vascular Plant</u> | | |
| Butternut | <i>Juglans cinerea</i> | FSC |
| Cain's reedgrass | <i>Calamagrostis cainii</i> | FSC |
| Cuthbert turtlehead | <i>Chelone cuthbertii</i> | FSC |
| Darlington's spurge | <i>Euphorbia purpurea</i> | FSC |
| Fraser fir | <i>Abies fraseri</i> | FSC |
| Gray's lily | <i>Lilium grayi</i> | FSC |
| Gray's saxifrage | <i>Saxifraga caroliniana</i> | FSC |
| Mountain bitter cress * | <i>Cardamine clematitidis</i> | FSC |
| Mountain catchfly | <i>Silene ovata</i> | FSC |
| Roan mountain bluet | <i>Hedyotis purpurea</i> var. <i>montana</i> | E |
| Spreading avens | <i>Geum radiatum</i> | E |
| Virginia spiraea | <i>Spiraea virginiana</i> | T |
| <u>Nonvascular plant</u> | | |
| a liverwort | <i>Sphenolobopsis pearsonii</i> | FSC |
| a liverwort * | <i>Plagiochila sullivantii</i> var. <i>sullivantii</i> | FSC |
| a liverwort * | <i>Plagiochila sharpii</i> | FSC |
| <u>Lichen</u> | | |
| Rock gnome lichen | <i>Gymnoderma lineare</i> | E |

KEY:**Definitions of Species Status Codes:**

E = endangered. A taxon "in danger of extinction throughout all or a significant portion of its range."

T = threatened. A taxon "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."

C = candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)

BGPA = Bald and Golden Eagle Protection Act. See below.

FSC = federal species of concern. A species that may or may not be listed in the future (formerly C2 candidate species or species under consideration for listing for which there is insufficient information to support listing).

T(S/A) = threatened due to similarity of appearance. A taxon that is threatened due to similarity of appearance with another listed species and is therefore listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation. See below.

EXP = experimental population. A taxon that is listed as experimental (either essential or nonessential). Experimental, nonessential endangered species (e.g., red wolf) are treated as threatened on public land, for consultation purposes, and as species proposed for listing on private land.

P = proposed. Taxa proposed for official listing as endangered or threatened will be noted as "PE" or "PT", respectively.

Bald and Golden Eagle Protection Act (BGPA):

In the July 9, 2007 Federal Register (72:37346-37372), the bald eagle was declared recovered, and removed (de-listed) from the Federal List of Endangered and Threatened Wildlife. This delisting took effect August 8, 2007. After delisting, the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668-668d) becomes the primary law protecting bald eagles. The Eagle Act prohibits take of bald and golden eagles and provides a statutory definition of "take" that includes "disturb." The USFWS has developed National Bald Eagle Management Guidelines to provide guidance to land managers, landowners, and others as to how to avoid disturbing bald eagles. For more information, visit <http://www.fws.gov/migratorybirds/baldeagle.htm>.

Threatened due to similarity of appearance (T(S/A)):

In the November 4, 1997 Federal Register (55822-55825), the northern population of the bog turtle (from New York south to Maryland) was listed as T (threatened), and the southern population (from Virginia south to Georgia) was listed as T(S/A) (threatened due to similarity of appearance). The T(S/A) designation bans the collection and interstate and international commercial trade of bog turtles from the southern population. The T(S/A) designation has no effect on land management activities by private landowners in North Carolina, part of the southern population of the species. In addition to its official status as T(S/A), the U.S. Fish and Wildlife Service considers the southern population of the bog turtle as a Federal species of concern due to habitat loss.

Denotation of county records:

- %** A percent symbol (%) indicates that the species is regarded as probable but as of yet undocumented in this county due to the presence of potentially suitable habitat and/or the proximity of confirmed observations of the species in adjacent counties.
- (S)** Summer habitat (Indiana bat county records only)
- *** Historic record - the species was last observed in the county more than 50 years ago.
- **** Obscure record - the date and/or location of observation is uncertain.
- ***** Incidental/migrant record - the species was observed outside of its normal range or habitat.
- ****** Historic and obscure record.
- ******* Obscure and incidental record.