

Final List of Rare, Threatened and Endangered Species for Yadkin Project Search
for terrestrial and wetland species only, including insects

Scientific Name	Common Name	Source	State*	Federal**	County	Habitat Notes
Priority						
<i>Amorpha schwerinii</i>	Piedmont indigo-bush	1	SR-T		M, R, S, Dd	dry forests
<i>Aster georgianus</i>	Georgia aster	1,2	T	C1	M, R, S, Dd	open woods and roadsides
<i>Aster mirabilis</i>	Piedmont aster	1	SR-T		S	rich slopes and bottomlands
<i>Baptisia alba</i>	Thick-pod white wild indigo	1	SR-P		M, S	open woodland clearings
<i>Baptisia albescens</i>	Thin-pod white wild indigo	1	SR-P		M, R, S	open woodland clearings
<i>Cardamine dissecta</i>	Dissected toothwort	1	SR-P		M, R, Dd	rich woods, bottomlands
<i>Carex impressinervia</i>	Ravine sedge	1,2	SR-T	FSC	M	wet forests
<i>Cirsium carolinianum</i>	Carolina thistle	1	SR-P		M, R	forests, disturbed areas, basic soils
<i>Helenium brevifolium</i>	Littleleaf sneezeweed	1	E		M, R	bogs, seeps, riverbanks
<i>Helianthus schweinitzii</i>	Schweinitz's sunflower	1, 2, 3	E	E	M, R, S, Dd	open woods and roadsides
<i>Plantago cordata</i>	Heart-leaf plantain	1	E		Dd	beds of small, slate-bottomed perennial streams
<i>Porteranthus stipulatus</i>	Indian Physic	1	SR-P		M, Dd	forests and open woods, mainly over mafic rocks
<i>Solidago plumosa</i>	Yadkin River goldenrod	1,2	E	FSC	M, S	riverside rocks
<i>Solidago radula</i> var. <i>radula</i>	Western rough goldenrod	1	SR-P		S	dry woodlands over mafic rocks
Secondary						
<i>Ambystoma talpoideum</i>	Mole salamander	1	SC		M, R	fish-free semipermanent woodland ponds
<i>Anemone berlandieri</i>	Southern anemone/thimbleweed	1	SR-P		M, R, S	thin soils around rock outcrops
<i>Carex bushii</i>	Bush's sedge	1	SR-P		R	open wet areas
<i>Collinsonia tuberosa</i>	Piedmont horsebalm	1	SR-P		M	rich hardwood forests
<i>Corynorhinus rafinesquii</i>	Rafinesque's big-eared bat	***	E	FSC		old buildings, hollow trees, caves, mines, near water
<i>Crotalus horridus</i>	Timber rattlesnake	1	SC		M, S, Dd	rocky, upland forests
<i>Fothergilla major</i>	Large witch-alder	1	SR-T		M, S	dry ridgetop or bluff forests
<i>Gomphus abbreviatus</i>	Spine-crowned clubtail	1	SR		M	rivers
<i>Gomphus fraternus</i>	Midland clubtail	1	SR		S	rocky rivers
<i>Hemidactylium scutatum</i>	Four-toed salamander	1	SC		M	wetlands in hardwood forests
<i>Hexalectris spicata</i>	Crested coralroot	1	SR-P		S, Dd, D	dry or mesic woods on basic soils
<i>Quercus austrina</i>	Bluff oak	1	SR-P		M	bluff and bottomland forests
<i>Ruellia purshiana</i>	Pursh's wild-petunia	1	SR-O		M	glades, woodlands over mafic/calcareous rocks
<i>Spartina pectinata</i>	Freshwater cordgrass	1	SR-P		M	freshwater marshes
<i>Stachys</i> sp 1	Yadkin hedge nettle	1	SR-T		M	sandy edges of forested floodplains
<i>Tradescantia virginiana</i>	Virginia spiderwort	1	SR-P		M	rich woods on circumneutral soils
<i>Verbena riparia</i>	Riverbank vervain	1,2	SR-T	FSC	S	habitat not known
Transmission lines						
<i>Echinacea laevigata</i>	Smooth coneflower	1, 2, 3	E-SC	E	M	glades and open areas over mafic rocks
<i>Gnaphalium helleri</i> var <i>helleri</i>	Heller's rabbit tobacco	1	SR-P		M, R, Dd	dry woodlands, openings, glades over mafic rocks
<i>Helianthus laevigatus</i>	Smooth sunflower	1	SR-P		M, R, S	shaly open woods and roadsides
<i>Lotus helleri</i>	Carolina birdfoot-trefoil/Heller's trefoil	1,2	SR-T	FSC	R, S, Dd, D	open woods over clay soils, roadsides
<i>Parthenium auriculatum</i>	Glade wild quinine	1	SR-T		M	glades and openings over mafic rocks

Final List of Rare, Threatened and Endangered Species for Yadkin Project Search
for terrestrial and wetland species only, including insects

Scientific Name	Common Name	Source	State*	Federal**	County	Habitat Notes
Excluded						
<i>Arabis missouriensis</i>	Missouri rockcress	1	SR-P		S	thin soils around basic rock outcrops
<i>Aster laevis var concinnus</i>	Narrow-leaf aster	1	SR-P		S	forests, woodland borders over mafic rocks
<i>Baptisia minor</i>	Prairie blue wild indigo	1	T		S	glades and open forests on basic soils
<i>Clemmys muhlenbergii</i>	Bog turtle	2, 3	T	T/SA	Dd	bogs, wet pastures
<i>Cyperus houghtonii</i>	Houghtons umbrella sedge	1	SR-P			dry soil
<i>Desmodium ochroleucum</i>	Cream ticktrefoil	1,2	SR-T	FSC	D	sandy/rocky woodland openings
<i>Dicanthelium annulum</i>	Ringed witch grass	1	SR-P			dry, sandy or rocky woods, borders of thickets
<i>Dodecatheon meadia var meadia</i>	Eastern shooting star	1	SR-P		S, Dd	rich rocky woods over mafic or calcareous rocks
<i>Erynnis martialis</i>	Mottled duskywing	1	SR		M	upland woods, needs <i>Ceanothus americanus</i>
<i>Fixsenia favonius ontario</i>	Northern oak hairstreak	1	SR		M	dry oak-dominated woods
<i>Gomphus consanguis</i>	Cherokee clubtail	1	SR		D	spring-fed streams
<i>Helenium pinnatifidum</i>	Dissected sneezeweed	1	SR-P		R	savannahs and open mucky sites
<i>Ilex amelanchier</i>	Sarvis holly	1	SR-P		M	blackwater swamps and riverbanks
<i>Isoetes piedmontana</i>	Piedmont quillwort	1	T		R	granite flatrocks and diabase glades
<i>Isoetes virginica</i>	Virginia quillwort	1,2	SR-L	FSC	R	upland depression swamp forests
<i>Juglans cinerea</i>	Butternut	2		FSC	S	coves, stream benches, rock ledges
<i>Lilium canadense ssp editorum</i>	Red Canada lily	1	SR-P		S	bogs, wet meadows
<i>Lindera subcoriacea</i>	Bog spicebush	1,2	E	FSC	M	streamhead pocosins, white cedar swamps, bogs
<i>Masticophis flagellum</i>	Coachwhip	1	SR		S	dry sandy woods, pine/oak sandhills
<i>Matelea decipiens</i>	Glade milkvine	1	SR-P		S, Dd	thin woodlands over mafic or calcareous rocks
<i>Minuartia uniflora</i>	Single-flowered sandwort	1	E		R	granite flatrocks
<i>Oxypolis ternata</i>	Savanna/Piedmont cowbane	***		FSC		wetlands, wet swales, bogs
<i>Pellaea wrightiana</i>	Wright's cliff-brake	1	E-SC		S	rock outcrops, mafic or with nutrient-rich seepage
<i>Pituophis melanoleucus melanoleucus</i>	Northern pinesnake	1,2	SC	FSC	M	dry, sandy woods, pine/oak sandhills
<i>Platanthera integra</i>	Yellow fringeless orchid	1	T		R	savannas
<i>Portulaca smallii</i>	Small's portulaca	1	T		R	granite flatrocks and diabase glades
<i>Puma concolor cougar</i>	Eastern cougar	1, 2, 3	E	E	M	needs open forest
<i>Quercus prinoides</i>	Dwarf Chinquapin oak	1	SR-P		S	dry, rocky slopes
<i>Rhus michauxii</i>	Michaux's sumac	1, 2, 3	E-SC	E	D	sandhills, sandy forests, woodlands and edges
<i>Silphium terebinthinaceum</i>	Prairie dock	1	SR-P		D	diabase glades, open/semi-open areas, mafic rocks
<i>Sistrurus miliarius</i>	Pigmy rattlesnake	1	SC		M	pine flatwoods, pine/oak sandhills
<i>Solidago ptarmicoides</i>	Prairie goldenrod	1	E		R	diabase glades
Birds						
(addressed by Center for Conservation of Birds)						
<i>Haliaeetus leucocephalus</i>	Bald eagle	1, 2, 3	T	T	M, R, S, Dd	mature forests near large bodies of water
<i>Lanius ludovicianus ludovicianus</i>	Loggerhead shrike	1	SC		M, R, S, D	fields and pastures
<i>Picoides borealis</i>	Red-cockaded woodpecker	1, 2, 3	E	E	M	mature open pine forests, mainly long-leaf pine

**Final List of Rare, Threatened and Endangered Species for Yadkin Project Search
for terrestrial and wetland species only, including insects**

Scientific Name	Common Name	Source	State*	Federal**	County	Habitat Notes
-----------------	-------------	--------	--------	-----------	--------	---------------

Notes:

- 1 NC Natural Heritage Program County lists updated May 2003, NHP List of Rare Animal Species 2001, and NHP list of Rare Plant Species, 2002
- 2 US Fish & Wildlife Service North Carolina County lists updated 2/2003
- 3 US Fish and Wildlife Service TESS State list updated 2/2004

* based on NCNHP County lists updated May 2003

** based on USFWS County lists updated 2/2003

*** State and/or Federally listed but not found in counties

C1 = Consideration for listing- no protected status

E = Endangered

E/PT = Endangered Potentially Threatened

E-SC = Endangered but available commercially

FSC = Federal Special Concern - no protected status

SC = Special Concern

SR = Significantly Rare

SR-L = Significantly Rare Limited

SR-O = Significantly Rare Other

SR-P = Significantly Rare Peripheral

SR-T = Significantly Rare Throughout

T = Threatened

T/SA = Threat. due to Similarity of Appearance -

no effect on land-management activities by private landowners

Counties

S Stanly

R Rowan

M Montgomery

Dd Davidson

D Davie

Expert Reviewers

Dr. Alan Weakley, Curator, UNC Herbarium, Chapel Hill, NC

Dr. Moni Bates, NC Plant Conservation Program

Dr. Peter Diamond, NC Zoological Park, Asheboro, NC

Sarah McRae, Natural Heritage Program, Raleigh, NC

Dr. Mary Kay Clark, NC Museum of Natural Sciences, Raleigh, NC

Mr. Mark Lewis, NC Zoological Park, Asheboro, NC

Dr. Dennis Herman, NC Museum of Natural Sciences, Raleigh, NC