Natural Heritage Program List of Rare Animal Species of North Carolina

2016
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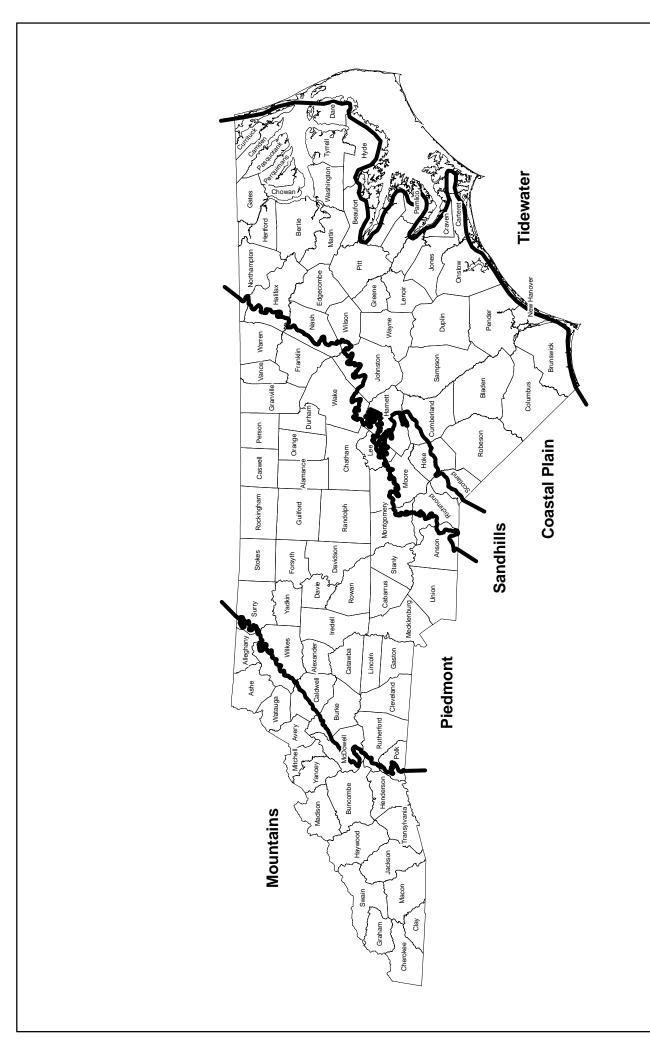


Neuse River Waterdog (Necturus lewisi) photo by Jeff Beane

Compiled by
Judith Ratcliffe, Zoologist
John Finnegan, Conservation Information Manager
Suzanne Mason, Conservation Information Manager

North Carolina Natural Heritage Program N.C. Department of Natural and Cultural Resources Raleigh, NC 27699-1651

www.ncnhp.org



THE COUNTIES AND PHYSIOGRAPHIC PROVINCES OF NORTH CAROLINA

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This list is dynamic and is revised frequently as new data become available. New species are added to the list, and others are dropped from the list as appropriate. The list is published periodically, generally every two years. Further information may be obtained by contacting the North Carolina Natural Heritage Program, Department of Natural and Cultural Resources, 1651 MSC, Raleigh, NC 27699-1651 and the North Carolina Wildlife Resources Commission, 1701 MSC, Raleigh, NC 27699-1701. Additional information on rare species, as well as a digital version of this list, can be obtained from the Natural Heritage Program's website at www.ncnhp.org .

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Many staff members of the N.C. Natural Heritage Program (NCNHP) were involved in the preparation and creation of this 2016 document. Dr. Harry LeGrand, former NCNHP Vertebrate Zoologist, developed the foundation of the Rare Animal List during his tenure with our program - his efforts are carried forward with greatest appreciation. Jame Amoroso entered numerous animal records into the database over the past two years and Linda Rudd made substantial revisions to the introduction and helped to compile this final document. Misty Buchanan, our Director, provided invaluable guidance throughout the list preparation and review of the final draft.

The Endangered, Threatened, and Special Concern species lists of the North Carolina Wildlife Resources Commission make up the majority of vertebrate and mollusk species on the Rare Animal List. Scientific Councils compile recommendations for consideration by the Commission and upon approval these become legally protected species in North Carolina – the efforts of the Councils are very much appreciated.

The invertebrate lists have been developed with the assistance of taxa experts: Steve Hall (various groups including land snails, dragonflies and damselflies, moths, and grasshoppers and katydids), John Cooper (crayfishes), Trish MacPherson, Kathy Herring, Dave Lenat, Dave Penrose, Eric Fleek, and Steven Beatty (mayflies, stoneflies, and caddisflies, beetles), Dale Schweitzer (various groups but especially moths), Bo Sullivan (butterflies and moths), and Amy VanDevender (land snails). The dragonfly and damselfly lists were developed through collection records of Duncan Cuyler, with his data provided to NCNHP by Steve Roble and Bill Mauffray.

This volume is dedicated in memory of John Finnegan (1960 - 2016) for his friendship and 20 years of unfailing service to the State of North Carolina, supporting the conservation of its natural heritage.

NORTH CAROLINA RARE ANIMAL LIST

The North Carolina Natural Heritage Program (NCNHP) conducts and maintains an inventory of known locations of rare animals and plants in the state as part of its mission to support conservation of natural areas. The primary functions of this inventory list are its use 1) in determining priorities for protection of the state's most important natural areas and the animals and plants contained therein, 2) in determining priorities for inventory, and 3) by public agencies and private persons for environmental assessment and land management planning.

The NCNHP is charged under the Nature Preserves Act (G.S. 143B-135.250 to -135.272) with compiling and maintaining information relevant to the protection of North Carolina's most important natural areas. NCNHP takes the lead role in North Carolina in the inventory of the state's natural diversity and the identification of important natural areas and rare species habitats. The list incorporates the most recent federal status designations determined by the U.S. Fish and Wildlife Service (USFWS) for all animal taxa native to North Carolina. This list also includes North Carolina legal status information from the N.C. Wildlife Resources Commission (NCWRC). NCWRC is responsible for the listing and protection of the state's nongame species of mammals, birds, reptiles, amphibians, freshwater fishes, mollusks, and crustaceans, under N.C. General Statutes - Chapter 113 Article 25. The NCNHP, NCWRC, and USFWS work cooperatively to ensure the continued survival of all of North Carolina's rich fauna. Over the past 25 years and continuing in the future, the advice and protection designations (for example, Endangered, Threatened, and Special Concern) of scientific councils and committees have been considered in the creation of the list.

Many species that lack formal legal protection are nonetheless imperiled in North Carolina. Therefore, NCNHP collects data on these species in addition to those classified under the three protection designations above and places them in two categories: Significantly Rare (SR) and Watch List (W). These species receive no special legal protection status; rather, the designation is used to convey information about the species' rarity within the state. The tracking of SR species, along with Endangered, Threatened, and Special Concern species, plays a critical role in how NCNHP evaluates natural areas for their importance in conservation of the state's native biodiversity. These status categories are defined in this list under "N.C. Status."

Because of the difficulty in gathering data for marine and estuarine fishes, marine invertebrates, millipedes, scorpionflies, most beetles, ants, and annelids, these animals are no longer tracked or included on the Rare or Watch lists. NCNHP requests locality and population data on the species listed in this publication. Survey forms have been provided on our website: www.ncnhp.org. The most current information about the range of tracked species in North Carolina is also available there. Information, including maps and datasets, on animals, plants, and communities nationwide may be found on NatureServe Explorer (www.natureserve.org).

LIST FORMAT

Species are grouped by major taxa. Vertebrate animals are arranged by class, beginning with the most phylogenetically advanced (mammals). Within a given taxon, species are listed alphabetically by scientific name. The following information is presented for each species on the list: N.C. Status, U.S. Status, N.C. Rank, Global Rank, Physiographic Province/Region, Habitat, and Counties of Occurrence.

EXPLANATION OF STATUS AND RANK CODES FOR ANIMALS

Status Codes

In North Carolina, all state status (Endangered, Threatened, and Special Concern) changes must be approved by the N.C. Wildlife Resources Commission and published in the State Register for public comment. These taxa are given state protection under the State Endangered Species Act (G.S. 113-331 to 113-337). Significantly Rare and Watch List are NCNHP designations only, not affording official state protection.

United States Status is designated by the U.S. Fish and Wildlife Service (USFWS) and the U.S. National Marine Fisheries Service (USNMFS) in accordance with the U.S. Endangered Species Act of 1973 (USESA), as amended. Plants and plant varieties, (including fungi and lichens), animal species and subspecies, and vertebrate populations are considered for Endangered or Threatened status according to the criteria established under the USESA. Proposals and determinations to add taxa or populations to the Lists of Endangered and Threatened Wildlife and plants are published in the Federal Register. Additionally, the USFWS and the USNMFS periodically publish a Notice of Review or Notice of Reclassification in the Federal Register that presents an updated list of plant and animal taxa that are regarded as candidates or proposed for possible addition to the Lists of Endangered and Threatened Wildlife and Plants. Contact the Asheville or Raleigh Ecological Services Field Offices for more information.

N.C. STATUS - ANIMALS

N.C. STATUS CODE	STATUS	DEFINITION		
E	Endangered	Any native or once-native species of wild animal whose continued existence as a viable component of the state's fauna is determined to be in jeopardy or any species of wild animal determined to be ar Endangered species pursuant to the Endangered Species Act. (G.S. 113-25.)		
Т	Threatened	Any native or once-native species of wild animal which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range, or one that is designated as a Threatened species pursuant to the Endangered Species Act. (G.S. 113-25.)		
SC	Special Concern	Any species of wild animal native or once-native to North Carolina which is determined by the NCWRC to require monitoring but which may be taken under regulations adopted under the provisions of the Article. (G.S.113-25)		
SR	Significantly Rare	Any species which has not been listed as an Endangered, Threatened, or Special Concern species, but which exists in the state (or recently occurred in the state) in small numbers (generally fewer than 100 statewide populations) and has been determined by the NCNHP to		
SR-G	Significantly Rare-Game	Species is a game animal or a furbearer, and therefore (by law) cannot be listed for state protection as E, T, or SC.		

N.C. STATUS CODE	STATUS	DEFINITION
WL	Watch List	Any other species believed to be rare and of conservation concern in the state but not warranting active monitoring at this time.

U.S. STATUS – ANIMALS

U.S. STATUS CODE	STATUS	DEFINITION		
Е	Endangered	A taxon that is in danger of extinction throughout all or a significant portion of its range (Public Law 93-205 87 Stat. 884).		
T	Threatened	A taxon that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range (Public Law 93-205 87 Stat. 884).		
С	Candidate	Taxa for which the USFWS has on file enough substantial information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened. Proposed rules have not yet been issued because this action is precluded at present by other listing activity. Development and publication of proposed rules on these taxa are anticipated. The USFWS encourages state and other federal agencies as well as other affected parties to give consideration to these taxa in environmental planning (Federal Register, 28 February 1996). Taxa formerly considered "Category 1" are now considered "Candidate."		
FSC	Federal Species of Concern	"FSC" is an informal term. It is not defined in the federal Endangered Species Act. In North Carolina, the Asheville and Raleigh Field Offices of the U.S. Fish and Wildlife Service define FSC as those species that appear to be in decline or otherwise in need of conservation and are under consideration for listing or for which there is insufficient information to support listing at this time. Subsumed under the term FSC are all species petitioned by outside parties and other selected focal species identified in USFWS strategic plans, state Wildlife Action Plans, Professional Society Lists (e.g. AFS, FMCS), or NatureServe State Program Lists.		
BGPA	Bald and Golden Eagle Protection Act	The Bald and Golden Eagle Protection Act (Eagle Act)(16U.S.C. 668-668d) 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 additional information please see http://www.fws.gov/migratorybirds/baldeagle.htm .		
EXP	Experimental Population	A taxon listed as experimental (either essential or nonessential). Experimental, nonessential populations of endangered species (e.g., red wolf) are treated as threatened species on public land, for consultation purposes, and a species proposed for listing on private land.		
P_	Proposed	Species proposed in the Federal Register as a status different from its current federal status.		

U.S. STATUS CODE	STATUS	DEFINITION	
T (S/A)	Threatened due to Similarity of Appearance	Section 4 (e) of the USESA authorizes the treatment of a species (subspecies or population segment) as endangered or threatened even though it is not otherwise listed as endangered or threatened if (a) the species so closely resembles in appearance an endangered or threatened species that enforcement personnel would have substantial difficulty in differentiating between the listed and unlisted species, (b) the effect of this substantial difficulty is an additional threat to an endangered or threatened species, and (c) such treatment of an unlisted species will substantially facilitate the enforcement and further the policy of the USESA [Federal Register 4 November 1997, Volume 62(213):59605-59623].	
T-4(d)	Threatened with a 4(d) Rule	Section 4(d) of the ESA allows special regulations for threateness species that modify normal ESA protections when it is determined that such a modification is necessary and advisable to provide for the	

Ranking System

Natural Heritage Programs and the NatureServe Network have developed a consistent method for evaluating the relative imperilment of both species and ecological communities. These assessments led to the designation of a conservation rank. These ranks provide an estimate of extinction risk. Conservation rank values have been assigned over the past 30 years by the NCNHP, NatureServe, and a large number of collaborators in government agencies, universities, natural history museums, botanical gardens, and other conservation organizations. This information has been developed primarily to help in guiding conservation and informing environmental planning and management.

Conservation ranks are either state (S) or global (G) and are based on a one-to-five scale, ranging from critically imperiled (S1 or G1) to demonstrably secure (S5 or G5). These assessments are based on the best available information, considering a variety of factors such as abundance, distribution, population trends, and threats. Global ranks apply to the species throughout its range. The system is widely used by nationwide agencies and organizations, as the best available scientific and objective assessment of a species' imperilment throughout its range.

A rank involving two numbers indicates uncertainty. For example, an S2S3 or a G2G3 rank indicates that the species may be S2 or S3 (or G2 or G3), but that existing data do not allow that determination to be made.

N.C. RANK – ANIMALS

N.C. RANK	NUMBER OF EXTANT OCCURRENCES	DESIGNATION	DESCRIPTION
S1	1-5	Critically Imperiled	Critically imperiled due to extreme rarity or some factor(s) making it especially vulnerable to extirpation (local extinction) from the state. Typically 5 or fewer occurrences or very few remaining individuals (<1,000).
S2	6-20	Imperiled	Imperiled due to rarity or some factor(s) making it very vulnerable to extirpation from the state. Typically 6 to 20 occurrences or few remaining individuals (1,000 to 3,000).
S3	21-100	Vulnerable	Vulnerable to extinction either because rare or uncommon, found only in a restricted range (even if abundant at some locations), or due to other factors making it vulnerable to extirpation. Typically 21 to 100 occurrences or between 3,000 to 10,000 individuals.
S4	101-1,000	Apparently Secure	Apparently secure and widespread, usually with more than 100 occurrences and more than 10,000 individuals.
S5	1,001+	Secure	Common, widespread, and abundant. Essentially ineradicable under present conditions. Typically with considerably more than 100 occurrences and more than 10,000 individuals.
SH	0?	Historical	Of historical occurrence, with some expectation that it may be rediscovered. Its presence may not have been verified in the past 20 years. Upon verification of an extant occurrence, SH-ranked elements would typically receive an S1 rank. Note: an element is not automatically assigned an SH (or SX) rank if it has not been verified in the past 20 years; some effort must have been made to locate or relocate occurrences.
SX	0	Presumed Extirpated	Believed to be extirpated. Has not been located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.
SU	Unknown	Unrankable	Currently unrankable due to lack of information or substantially conflicting information about status or trends. More information is needed.
SNR	Unknown	Not Ranked	Statewide rank not yet assessed.

N.C. RANK	NUMBER OF EXTANT OCCURRENCES	DESIGNATION	DESCRIPTION
SNA	N/A	Not Applicable	A conservation status rank is not applicable because the element is not a suitable target for conservation for one of these reasons: • Hybrid – an interspecific hybrid without conservation value; • Exotic Origin – not native to North Carolina; • Accidental/Nonregular – outside usual range and not regularly found in North Carolina; • Not Confidently Present – never documented as present in NC; • Synonym – the taxon is not recognized by the NCNHP.
S_B	1-?	Breeding	Rank of the breeding population in the state. Used for migratory species only. Ex: Bachman's sparrow (<i>Peucaea aestivalis</i>) is S3B,S2N).
S_N	1-?	Nonbreeding	Rank of the nonbreeding population in the state. Used for migratory species only. Ex: Bachman's sparrow.
S_?		Uncertain	Denotes inexact or uncertain numeric rank.

GLOBAL RANK – ANIMALS

GLOBAL RANK	NUMBER OF EXTANT POPULATIONS	DESIGNATION	DESCRIPTION
G1	1-5	Critically Imperiled	Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. Typically five or fewer occurrences o very few remaining individuals (<1,000) or acres (<2,000) or linear miles (<10).
G2	6-20	Imperiled	Imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction. Typically 6 to 20 occurrences or few remaining individuals (1,000 to 3,000) or acres (2,000 to 10,000) or linear miles (10 to 50).
G3	21-100	Vulnerable	Vulnerable globally either because very rare throughout its range, found only in a restricted range (even if abundant at some locations), or other factors making it vulnerable to extinction. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals.

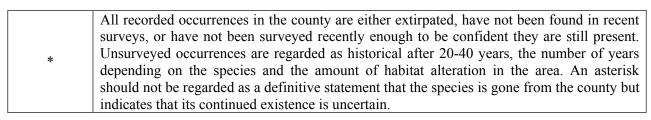
GLOBAL RANK	NUMBER OF EXTANT POPULATIONS	DESIGNATION	DESCRIPTION
G4	101-1,000	Apparently Secure	Uncommon but not rare (although it may be rare in parts of its range, particularly on the periphery) and usually widespread. Apparently not vulnerable in most of its range, but possibly cause for long-term concern. Typically more than 100 occurrences and more than 10,000 individuals.
G5	1,001+	Secure	Common, widespread, and abundant (although it may be rare in parts of its range, particularly on the periphery). Not vulnerable in most of its range. Typically with considerably more than 100 occurrences and more than 10,000 individuals.
GH	0?	Historical	Known only from historical occurrences, but with some expectation that it may be rediscovered. May still be extant; further searching is needed.
GX	0	Presumed Extinct	Believed to be extinct throughout its range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered. Not located despite intensive searches of historical sites and other appropriate habitat.
GU	Unknown	Unrankable	Currently unrankable due to lack of information or due to substantially conflicting information about status or trends; need more information.
GNR	Unknown	Not Ranked	Global rank not yet assessed.
G_T_		Subspecies or Variety Rank	As an example, G4T1 would apply to a subspecies of a species with an overall rank of G4, but the subspecies warranting a rank of G1.
G_?		Uncertain	Denotes inexact or uncertain numeric rank.
G_Q		Questionable Taxonomy	Taxonomic classification that may reduce conservation priority. Distinctiveness of this entity as a taxon at the current level is questionable. Resolution of this uncertainty may result in change from a species to a subspecies or inclusion of this taxon in another taxon, with the resulting element having a lower-priority conservation status rank.

Physiographic Province/Region. The provinces/regions in which the species is known to occur are indicated. This should not be regarded as the only province(s) or regions(s) of the state in which the species could occur; our knowledge of the fauna of North Carolina is still very imperfect. The provinces are abbreviated as follows:

ABBREVIATION	PROVINCE/REGION	DESCRIPTION
M	Mountains (Blue	All parts of North Carolina west of the foot of the Blue
IVI	Ridge)	Ridge Escarpment.
Р	Piedmont	All parts of North Carolina east of the foot of the Blue Ridge Escarpment and west of the Fall Line, including outlying "foothill" ranges, such as the Brushy, Uwharrie, Sauratown, and South mountains. This province is shallowly underlain by crystalline metamorphic, igneous, or (rarely) consolidated sedimentary rocks.
S	Sandhills	Portions of Cumberland, Harnett, Hoke, Lee, Moore, Richmond, Scotland, and Montgomery counties consisting mostly of deep aeolian sands of the Middendorf and Pinehurst formations (Cretaceous to Tertiary age). The Sandhills are really part of the coastal plain but are here distinguished because of their distinctive geomorphology and vegetation. Areas somewhat resembling the Sandhills region but occurring in other parts of the state (such as Carolina bay rims and aeolian or beach ridge deposits in the outer Coastal Plain) are considered part of the Coastal Plain Province.
С	Coastal Plain	All parts of North Carolina east of the Fall Line, but excluding the Sandhills region and those portions associated with Tidewater. Generally consisting of unconsolidated sands, silts, clays, and peats, though rarely shallowly underlain by consolidated coquina limestone ("marl").
Т	Tidewater	Areas associated with tidal water, such as the ocean and barrier islands, sounds, estuaries, and mainland brackish or salt marshes.

<u>Habitat</u>. The known habitats are described; as with provinces, these should not be regarded as the only possible habitats of the species in the state.

<u>Counties of Known Occurrence</u>. Following the description of habitats is a listing of the known counties of occurrence in the NCNHP database. We request information about any new occurrences in the state. County names are followed by symbols (defined below) if the species has not been recently verified within the county.



The zoological exploration of North Carolina is far from complete, and many additional county records will be found, generally (but not always) in proximity to counties listed. Most species that do not have county of occurrence information listed are new to the Rare List and county status information had not been compiled at the time of publication. For nearly all vertebrate species, and for many invertebrate species, this listing of counties on the Rare List is complete or reasonably complete. Visit the Natural Heritage Program website for the most up-to-date county occurrence information: www.ncnhp.org.

NUMBER OF ANIMAL TAXA BY STATUS

Numbers in the table indicate number of taxa – generally species as well as valid unique varieties and subspecies – for each group and status. Because many taxa have both an N.C. and a U.S. status, totals cannot be added across a complete line. The total number of species in North Carolina is an estimate of the species that do occur or have occurred at one time in the state.

GROUP	APPROXIMATE N.C. STATUS U.S. STA			N.C. STATUS			S. STAT	US
GROUI	NORTH CAROLINA	E	T	SC	SR	E	T	Other
Mammals	120	6	2	13	9	7	1 T; 1 T-4(d)	1 EXP
Birds	475	9	4	23	28	9	3	2 BGPA
Reptiles	75	5	4	11	9	3	1	2 T(S/A)
Amphibians	90	1	4	12	15	-	-	
Freshwater Fishes	245	12	16	28	23	4	2	
Freshwater Bivalves	85	21	11	7	8	9	-	
Gastropods	250+	4	10	24	52	-	1	1 C
Arachnids	?	-	-	-	13	1	-	
Crustaceans	?	1	-	11	11	-	-	
Mayflies	?	-	-	-	18	-	-	
Stoneflies	?	-	-	-	9	-	-	
Caddisflies	?	-	-	-	20	-	-	
Dragonflies and Damselflies	190	-	-	-	40	-	-	
Butterflies	175	-	-	-	38	1	-	
Moths	2670+	-	-	-	108	1	-	
Grasshoppers and Katydids	140	-	-	-	26	-	-	
Beetles	?	-	-	-	6	1	-	
True Bugs	?	-	-	-	1	-	-	
Bees	?	-	-	-	1	1	-	
Totals		59	51	129	435	37	9	

Scientific Name	Status		R	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Mammals	S				
Canis rufus	SR	EXP	S1	G1Q	
Red Wolf					
C: swamps, pocosins, extensive forests (Beaufort, Dare,	Hyde, Ty	yrrell, Was	hington)		
Cervus elaphus	SC		S1	G5	
Elk					
M: mid- to -high elevation meadows, grass balds (releas NP) (Haywood, Jackson, Swain)	sed in Gre	eat Smoky	Mountains		
Condylura cristata pop. 1 (= C. cristata parva)	\mathbf{SC}		S2	G5T2Q	
Star-nosed Mole - Coastal Plain population					
SC: moist meadows, bogs, swamps, bottomlands [moun Brunswick, Columbus, Craven, Cumberland, Currituck' Hanover*, Pender, Pitt, Randolph, Richmond*, Robeson Washington*)	*, Dare, H	loke, Meck	klenburg*, I	Moore, New	
Corynorhinus rafinesquii macrotis	\mathbf{SC}	FSC	S3	G3G4T3	
Eastern Big-eared Bat					
CS: roosts in hollow trees, old buildings, and beneath beneath Bertie, Bladen, Brunswick, Camden, Chowan, Columbu Hoke, Johnston, Martin, Nash, New Hanover, Northamp Robeson, Sampson, Tyrrell, Washington, Wayne*)	ıs, Craven	ı, Curritucl	k, Dare, Du	ıplin, Gates,	
Corynorhinus rafinesquii rafinesquii	T	FSC	S2	G3G4T3	
Rafinesque's Big-eared Bat					
M: roosts in caves, mines, and hollow trees, usually nea Cherokee*, Graham, Haywood, Jackson, Macon, Madis				e*, Burke,	
Corynorhinus townsendii virginianus	E	E	S1	G3G4T2	
Virginia Big-eared Bat					
M: roosts in caves (and rarely in mines), especially in li	mestone a	areas (Ave	ry, Watauga	a, Yancey)	
Glaucomys sabrinus coloratus	${f E}$	\mathbf{E}	S2	G5T2	
Carolina Northern Flying Squirrel					
M: high elevation forests, mainly spruce-fir (Ashe, Ave. Haywood, Henderson, Jackson, McDowell, Mitchell, Sv.					
Lasiurus intermedius floridanus	SC		S1	G4G5T4	
Florida Yellow Bat					
CP: roosts in Spanish moss and other thick vegetation n (Brunswick, Mecklenburg, New Hanover)	ear water,	, often in lo	ongleaf pin	e habitats	
Microtus chrotorrhinus carolinensis	SC		S3	G4T3	
Southern Rock Vole					
M: rocky areas at high elevations, forests or fields (Ave Transylvania, Yancey)	ry, Haywo	ood, Jacks	on*, Macor	ı, Swain,	

cientific Name	Stat	us	Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Mustela nivalis	SR-G		S2	G5	
Least Weasel					
M: fields and forests, mostly at high elevations (Avery, I Jackson, Madison*, Mitchell*, Swain, Transylvania, Wa			d, Henders	on,	
Myotis austroriparius	SC	FSC	S2	G4	
Southeastern Bat					
CSPM: roosts in buildings, hollow trees; forages near war Bladen, Camden, Chowan, Clay, Columbus, Craven, Cu Jones, Martin, Moore, New Hanover, Onslow, Pender, R	rrituck, C	ates, Hali	fax, Hoke,	Johnston,	
Myotis grisescens	E	E	S1	G4	
Gray Bat					
M: roosts in caves; forages mainly over open water (Bur Transylvania, Yancey)	combe, E	Iaywood, I	Madison, S	wain,	
Transyrvania, Tancey)					
	SC	FSC	S2	G4	
Myotis leibii Eastern Small-footed Bat	SC	FSC	S2	G4	
Myotis leibii	nonths), in n, Haywoo	n caves and	d mines (w	inter) on, Macon,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer n (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans	nonths), in n, Haywoo	n caves and	d mines (w	inter) on, Macon,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer n (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham	nonths), ii n, Haywoo sylvania, '	n caves and	d mines (with son, Jackson, Wilkes, Yan	inter) on, Macon, ncey)	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer new (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans	nonths), ii n, Haywoo sylvania, ' SR (winter) (. Henderso	n caves and od, Hender Watauga, ' Avery, Bu on*, Jackso	d mines (wines), Jackson, Jackson, Wilkes, Yan S3 ncombe, Bronn, Macon,	inter) on, Macon, ncey) G3 urke, Madison,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy.	nonths), ii n, Haywoo sylvania, ' SR (winter) (. Henderso	n caves and od, Hender Watauga, ' Avery, Bu on*, Jackso	d mines (wines), Jackson, Jackson, Wilkes, Yan S3 ncombe, Bronn, Macon,	inter) on, Macon, ncey) G3 urke, Madison,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer measurement (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Transmatch Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transmatch	nonths), in n, Haywoo sylvania, ' SR (winter) (Henderso lvania, W	n caves and od, Hender Watauga, ' Avery, Bu on*, Jackso atauga, W	d mines (wines), Jackson, Jackson, Wilkes, Yan S3 ncombe, Bronn, Macon, ilkes, Yanc	inter) on, Macon, ncey) G3 urke, Madison, ey)	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy Myotis septentrionalis	nonths), in I, Haywoo Sylvania, SR (winter) (I Henderso Ilvania, W SR ths), in ca e, Camde Jackson, I	Avery, Bu on*, Jackso atauga, W T-4(d) eves and men, Cheroke Lee, Maco	d mines (wites), Jackson, Jackson, Wilkes, Yandon, Macon, ilkes, Yandon, S2 ines (winted ee, Clay, Cun, Madison	inter) on, Macon, ncey) G3 urke, Madison, ey) G1G2 r); mainly urrituck,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy Myotis septentrionalis Northern Long-eared Bat MPC: roosts in hollow trees and buildings (warmer mon in the mountains (Ashe, Avery, Bertie, Buncombe, Burk Dare, Davidson, Gates, Graham, Haywood, Henderson, McDowell, Mitchell, New Hanover, Polk, Rutherford, S	nonths), in I, Haywoo Sylvania, SR (winter) (I Henderso Ilvania, W SR ths), in ca e, Camde Jackson, I	Avery, Bu on*, Jackso atauga, W T-4(d) eves and men, Cheroke Lee, Maco	d mines (wites), Jackson, Jackson, Wilkes, Yandon, Macon, ilkes, Yandon, S2 ines (winted ee, Clay, Cun, Madison	inter) on, Macon, ncey) G3 urke, Madison, ey) G1G2 r); mainly urrituck,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy Myotis septentrionalis Northern Long-eared Bat MPC: roosts in hollow trees and buildings (warmer mon in the mountains (Ashe, Avery, Bertie, Buncombe, Burk Dare, Davidson, Gates, Graham, Haywood, Henderson, McDowell, Mitchell, New Hanover, Polk, Rutherford, S Watauga, Wilkes, Yancey)	nonths), in n, Haywoo sylvania, 'SR (winter) (, Henderso lvania, W SR ths), in ca e, Camde Jackson, I wain, Tra	Avery, Bu on*, Jackso atauga, W T-4(d) eves and m n, Cheroko Lee, Maco nsylvania,	d mines (wites), Jackson, Jackson, Wilkes, Yandon, Macon, ilkes, Yandon, Wates, Clay, Cun, Madison, Wake*, W	inter) on, Macon, ncey) G3 urke, Madison, ey) G1G2 r); mainly urrituck, , ashington,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy Myotis septentrionalis Northern Long-eared Bat MPC: roosts in hollow trees and buildings (warmer mon in the mountains (Ashe, Avery, Bertie, Buncombe, Burk Dare, Davidson, Gates, Graham, Haywood, Henderson, McDowell, Mitchell, New Hanover, Polk, Rutherford, Swatauga, Wilkes, Yancey) Myotis sodalis	nonths), in a, Haywood sylvania, 'SR (winter) (Henderson lawaina, W SR ths), in case, Camde Jackson, I wain, Tra	Avery, Bu on*, Jackso atauga, W T-4(d) eves and m n, Cheroko Lee, Maco nsylvania, E months), in	son, Jackson Wilkes, Yand S3 ncombe, Bronn, Macon, ilkes, Yand S2 ines (winte ee, Clay, Cun, Madison Wake*, W	inter) on, Macon, ncey) G3 urke, Madison, ey) G1G2 r); mainly urrituck, , ashington,	
Myotis leibii Eastern Small-footed Bat M: roosts in hollow trees and in rock crevices (warmer in (Alleghany, Avery, Buncombe, Cherokee, Clay, Graham Madison, McDowell, Mitchell, Rutherford, Swain, Trans Myotis lucifugus Little Brown Bat MPC: roosts in buildings (summer), in caves and mines Cherokee, Clay, Cleveland, Craven, Graham, Haywood, McDowell, Mitchell, Rutherford, Stokes, Swain, Transy Myotis septentrionalis Northern Long-eared Bat MPC: roosts in hollow trees and buildings (warmer mon in the mountains (Ashe, Avery, Bertie, Buncombe, Burk Dare, Davidson, Gates, Graham, Haywood, Henderson, McDowell, Mitchell, New Hanover, Polk, Rutherford, Swatauga, Wilkes, Yancey) Myotis sodalis Indiana Bat M: roosts in hollow trees or under loose bark and snags (Martin Bat)	nonths), in a, Haywood sylvania, 'SR (winter) (Henderson lawaina, W SR ths), in case, Camde Jackson, I wain, Tra	Avery, Bu on*, Jackso atauga, W T-4(d) eves and m n, Cheroko Lee, Maco nsylvania, E months), in	son, Jackson Wilkes, Yand S3 ncombe, Bronn, Macon, ilkes, Yand S2 ines (winte ee, Clay, Cun, Madison Wake*, W	inter) on, Macon, ncey) G3 urke, Madison, ey) G1G2 r); mainly urrituck, , ashington,	

C: forests, mainly in moist areas (Brunswick*, Carteret*, New Hanover, Onslow, Pender)

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Neotoma magister	SC	FSC	S2S3	G3G4
Allegheny Woodrat MP: rocky places and abandoned buildings in deciduous mountains and adjacent Piedmont (Ashe, Avery, Bunco Mitchell, Watauga, Wilkes*, Yancey)				
Perimyotis subflavus	SR		S3	G2G3
Tricolored Bat				
MPSC: roosts in clumps of leaves (mainly in summer), sheltered places (Alleghany*, Avery, Bertie, Bladen, Bu Cherokee, Clay, Cleveland, Craven, Davidson, Gates, C Jones, Lenoir, Macon, Madison, McDowell, Onslow, O Swain, Transylvania, Wake, Washington, Watauga, Wil	incombe, Fraham, H range, Po	Burke, Ca aywood, I lk, Robeso	mden, Carte Henderson, J	ret, ackson,
Peromyscus leucopus buxtoni	\mathbf{SC}	FSC	S1	G5T1
Buxton Woods White-footed Deermouse				
T: maritime forests in Cape Hatteras vicinity (endemic t	to this area	a) (Dare)		
Peromyscus leucopus easti	\mathbf{SC}		S1	G5T1
Pungo White-footed Deermouse				
T: dunes and maritime thickets along coast south to Cor	olla (Curi	rituck)		
Peromyscus polionotus (= P. polionotus colemani) Oldfield Deermouse	SC		S1	G5
P: sandy, fallow fields near South Carolina line (Clevela	and, Meck	denburg, F	Rutherford)	
Sorex dispar blitchi	SC		S3	G4T3T4
Southern Rock Shrew				
M: high elevation forests with talus or rocky slopes (Av Henderson, Jackson, Macon, Mitchell, Swain, Transylvania)				vood,
Sorex palustris punctulatus	SC	FSC	S3	G5T3
Southern Water Shrew				
M: stream banks in montane forests (Avery, Buncombe Watauga)	, Clay, Ha	ywood, Ja	ickson, Maco	on, Swain,
Sorex sp. 1	SR		S1S2	G2Q
an undescribed shrew				
C: early succession fields, possibly low pocosins (ender	nic to eas	tern North	Carolina) (I	Oare, Hyde)
Spilogale putorius	SR-G		S2	G4
Eastern Spotted Skunk				
MP: forests with rocks, cliffs, and other den sites (Alleg Caldwell, Cherokee*, Graham*, Haywood, Henderson* Rutherford, Swain, Transylvania, Wilkes, Vancey)	•			

Rutherford, Swain, Transylvania, Wilkes, Yancey)

Scientific Name		JS	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Sylvilagus obscurus	SR-G	FSC	S3	G4
Appalachian Cottontail				
M: dense cover of montane woods and thickets (Allegha Cherokee, Clay, Graham, Haywood, Jackson, Macon, M Watauga, Yancey)	Iadison, M		wain*, Tran	sylvania,
Synaptomys cooperi helaletes	SR		S2S3	G5T3
Dismal Swamp Southern Bog Lemming				
C: low pocosins, early succession wetlands (Beaufort, C Perquimans*)	raven, Ga	tes, Jones	, Pasquotank	ζ*,
Trichechus manatus	\mathbf{E}	T	S1N	G2
West Indian Manatee		(2017-03-	-30)	

T: warm waters of estuaries and river mouths (Beaufort, Brunswick, Carteret, Craven, Currituck, Dare, Hyde, Jones, Lenoir, New Hanover, Onslow, Pamlico, Pender, Pitt)

West Indian Manatee

Scientific Name	Status		Rank	ζ
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Birds				
Accipiter striatus	SR		S2B,S4N	G5
Sharp-shinned Hawk				
MPS: forests and woodlands (for nesting) [breeding evid Jackson, Mitchell*, Orange, Watauga, Yancey)	dence only	y] (Avery,	Caldwell, Du	rham,
Aegolius acadicus	T	FSC	S2B,S2N	G5
Northern Saw-whet Owl				
M: spruce-fir forests or mixed hardwood/spruce forests (Avery, Buncombe, Clay, Graham, Haywood, Jackson, Transylvania, Watauga, Yancey)				
Ammodramus henslowii	SC	FSC	S1B,S1N	G4
Henslow's Sparrow				
C: clearcut pocosins and other damp weedy fields [breed Brunswick, Carteret, Columbus, Edgecombe, Gates, Ma				
Aquila chrysaetos	SR	BGPA	SXB,S1N	G5
Golden Eagle				
MC: grass balds or fields amid remote and extensive for impoundments or large lakes in coastal areas [regular w Wilkes, Yancey)				
Botaurus lentiginosus	SR		S1B,S3N	G5
American Bittern				
CT: fresh or brackish marshes [breeding evidence only]	(Beaufort	t, Carteret,	Hyde, Pamlio	co)
Catharus guttatus	SR		S2B,S5N	G5
Hermit Thrush				
M: spruce-fir forests; sparingly in northern hardwood for Avery, Buncombe, Graham, Haywood, Jackson, McDow Watauga, Yancey)				
Catharus ustulatus	SR		S1B,S5N	G5
Swainson's Thrush				
M: spruce-fir forests [breeding evidence only] (Buncom	be, Mitch	ell, Yancey	7)	
Certhia americana	\mathbf{SC}		S3B,S5N	G5
Brown Creeper				
M: high elevation forests, favoring spruce-fir mixed wit (Avery, Buncombe, Burke, Caldwell, Clay, Graham, Ha McDowell, Mitchell, Swain, Transylvania, Watauga, Ya	iywood, Ja	_	_	
Charadrius melodus circumcinctus	E	\mathbf{E}	S1N	G3T3
Piping Plover - Interior subspecies				
T: ocean beaches and island-end flats [wintering only]				

Scientific Name	Stat	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Charadrius melodus melodus	T	T	S1B,S1N	G3T3
Piping Plover - Atlantic Coast subspecies				
T: ocean beaches and island-end flats [breeding evidenc Dare, Hyde, New Hanover, Onslow, Pender)	e only] (E	Brunswick,	Carteret, Cur	rituck,
Charadrius wilsonia	SC		S2B	G5
Wilson's Plover				
T: beaches, island-end flats, estuarine islands [breeding Dare, Hyde, New Hanover, Onslow, Pender)	evidence	only] (Bru	nswick, Carte	ret,
Chondestes grammacus	SR		S1B	G5
Lark Sparrow				
S: barren, sandy fields with scattered saplings in the san (Cumberland, Hoke, Montgomery, Moore, Richmond, S		ion [breed	ing evidence o	only]
Circus cyaneus	SR		S1B,S4N	G5
Northern Harrier				
T: extensive brackish marshes (for nesting) [breeding ex	idence or	nly] (Carte	ret, Dare, Hyd	le)
Coccyzus erythropthalmus	SR		S2B	G5
Black-billed Cuckoo				
M: deciduous forests, mainly at higher elevations [breed Buncombe, Burke, Caldwell, Haywood, Henderson, Jac Watauga, Yancey)				
Columbina passerina	SR		SXB	G5
Common Ground-Dove				
T: dunes, sandy fields, margins of maritime woods and (Brunswick*, New Hanover*, Pender*)	thickets [b	oreeding ev	vidence only]	
Dolichonyx oryzivorus	SR		S1B	G5
Bobolink				
M: meadows and other grasslands [breeding evidence of Transylvania, Watauga)	nly] (Ash	e, Haywoo	d, Henderson,	
Egretta caerulea	SC		S3B,S3N	G5
Little Blue Heron				
TC: forests or thickets on maritime islands, rarely in swe (Brunswick, Carteret, Columbus, Cumberland, Currituck Pender, Robeson)				
Egretta thula Snowy Egret	SC		S2S3B,S3N	N G5

TC: forests or thickets on maritime islands, rarely in swamps or at ponds [breeding evidence only] (Brunswick, Carteret, Columbus, Currituck, Dare, Hyde, New Hanover, Robeson)

Scientific Name	Stat	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Egretta tricolor	SC		S3B,S3N	G5
Tricolored Heron				
T: forests or thickets on maritime islands [breeding evid Currituck, Dare, Hyde, New Hanover)	ence only] (Brunswi	ck, Carteret,	
Elanoides forficatus	SR		S1B	G5
Swallow-tailed Kite				
C: swamps and bottomlands near lower Cape Fear River marshes [breeding evidence only] (Bladen)	r, often fo	rages over	nearby fields o	or
Empidonax alnorum	SR		S2B	G5
Alder Flycatcher				
M: high elevation shrub/sapling thickets [breeding evide Buncombe, Haywood, Jackson, Mitchell, Watauga, Yan		(Alleghan	y, Ashe, Aver	y,
Falco peregrinus anatum	\mathbf{E}		S1B,S2N	G4T4
American Peregrine Falcon				
Henderson, Hyde, Jackson, Macon, Madison, Mecklenb Transylvania, Wilkes*, Yancey)		erford, Stol		
Falco sparverius	SR		S2B,S5N	G5
American Kestrel MPSC: open country, such as extensive farmland; nests (records not yet entered)	in cavitie	s [breeding	evidence only	/]
Gelochelidon nilotica (= G. nilotica aranea)	T		S1S2B	G5
Gull-billed Tern				
T: sand flats on maritime islands [breeding evidence on Hanover, Onslow)	y] (Bruns	wick, Carte	eret, Dare, Hy	de, New
Haematopus palliatus	\mathbf{SC}		S2S3B,S3N	G5
American Oystercatcher				
T: estuaries, oyster beds, mudflats [breeding evidence of New Hanover, Onslow, Pender)	nly] (Brur	nswick, Car	teret, Dare, H	yde,
Haliaeetus leucocephalus	T	BGPA	S3B,S3N	G5
Bald Eagle				
PCTM: mature forests near large bodies of water (nesting [breeding evidence only] (Anson, Beaufort, Bertie, Black Camden*, Carteret, Catawba, Chatham, Cherokee, Chow Currituck, Dare, Davidson, Durham, Edgecombe, Frank Guilford, Halifax, Harnett*, Haywood, Hyde, Iredell, Jo	en, Bruns wan, Clay lin, Gasto	swick, Burk , Cleveland on, Gates, G	te, Cabarrus, l, Columbus, C Fraham, Granv	Craven,

Martin, Mecklenburg, Montgomery, Nash, New Hanover, Northampton, Onslow, Orange,

Union, Vance, Wake, Warren, Washington, Wayne, Wilkes, Yadkin)

Pamlico, Pasquotank, Pender, Perquimans, Pitt, Rowan, Rutherford, Stanly, Surry, Swain, Tyrrell,

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Himantopus mexicanus	SR		S1B	G5
Black-necked Stilt T: fresh or brackish ponds and impoundments [breeding Carteret, Currituck, Dare, New Hanover, Onslow, Pamle		only] (Be	aufort, Brunsw	ick,
Hydroprogne caspia	SR		S1B,S2N	G5
Caspian Tern				
T: sand flats on maritime islands [breeding evidence on	ly] (Dare,	Hyde)		
Ixobrychus exilis	\mathbf{SC}		S2S3B	G5
Least Bittern				
TCP: fresh or brackish marshes [breeding evidence only Currituck, Dare, Hyde, Moore*, New Hanover, Onslow Wayne)	- '			
Laterallus jamaicensis	SC	FSC	S2S3B,S2N	G3G4
Black Rail				
TCP: brackish marshes, rarely fresh marshes [breeding of Currituck, Dare, Hyde, New Hanover, Onslow, Pamlico		only] (Bear	ufort, Carteret,	
Loxia curvirostra	SC	FSC	S3B,S3N	G5
Red Crossbill M: coniferous forests, preferably spruce-fir (Ashe, Aver Jackson, McDowell, Mitchell, Swain, Transylvania, Wa			e, Caldwell, Ha	aywood,
Mycteria americana	E	T	S1B,S1N	G4
Wood Stork	_	_	~,~	
CT: swamps, fresh or brackish ponds (foraging) [breedi (Bladen, Brunswick, Columbus, Robeson, Sampson)	ng eviden	ce and reg	ular non-breed	ing sites]
Nyctanassa violacea	SR		S2B	G5
Yellow-crowned Night-Heron				
CPT: inland swamps; woods or thickets on maritime islandare, Durham, Forsyth, Guilford, Mecklenburg)	ands [bree	eding evide	ence only] (Car	teret,
Passerculus sandwichensis	SR		S2B,S5N	G5
Savannah Sparrow			·	
M: grassy fields and pastures [breeding evidence only] (Alleghan	y, Ashe, W	/atauga)	
Passerina ciris	SC	FSC	S3B	G5
Painted Bunting				
T: maritime shrub thickets and forest edges [breeding ev Hanover, Onslow, Pender)	vidence or	nly] (Bruns	swick, Carteret	, New
Pelecanus occidentalis Brown Pelican	SR		S3B,S4N	G4

T: maritime islands [breeding evidence only] (Brunswick, Carteret, Dare, Hyde, New Hanover)

Scientific Name	Sta	tus	Rank	ζ
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Peucaea aestivalis	SC	FSC	S3B,S2N	G3
Bachman's Sparrow				
CSP: open longleaf pine forests, old fields [breeding evi Buncombe*, Carteret, Chatham, Columbus, Craven, Cu Macon*, Moore, New Hanover, Onslow, Pender, Richm Wake*, Warren*)	mberland	, Halifax, 1	Harnett, Hoke	
Phalacrocorax auritus	SR		S1B,S5N	G5
Double-crested Cormorant				
CPT: lakes with scattered trees, coastal sand bars (nestin Chatham, Craven)	ng) [breed	ling evider	nce only] (Car	teret,
Picoides borealis	E	E	S2	G3
Red-cockaded Woodpecker				
Beaufort, Bertie*, Bladen, Brunswick, Camden, Cartere Cumberland, Currituck, Dare, Duplin*, Edgecombe*, G Hoke, Hyde, Johnston, Jones, Lee*, Lenoir*, Montgome Northampton*, Onslow, Pamlico*, Pender, Pitt*, Richm Tyrrell, Wake*, Washington, Wayne*, Wilson*)	ates, Greery, Moor	ene*, Halit e, Nash*,	fax*, Harnett, New Hanover	,
Plegadis falcinellus	\mathbf{SC}		S1S2B	G5
Glossy Ibis T: forests or thickets on maritime islands [breeding evid Currituck, Dare, Hyde, New Hanover)	lence only	/] (Brunsw	rick, Carteret,	
Poecile atricapillus	SC	FSC	S3	G5
Black-capped Chickadee				
M: high elevation forests, mainly spruce-fir [breeding elevation Caldwell, Haywood, Jackson, Swain, Transylvania, Wa			y, Buncombe	* ,
Pooecetes gramineus	SC		S2B,S2N	G5
Vesper Sparrow				
M: high elevation pastures and grassy fields [breeding e Mitchell, Watauga)	vidence o	only] (Ash	e, Avery, Hay	wood,
Porphyrio martinicus	SR		SHB	G5
Purple Gallinule				
C: freshwater ponds with floating vegetation [breeding of Onslow*, Robeson*)	evidence	only] (Bru	nswick*, Cart	eret*,
Riparia riparia	SR		S1B	G5
Bank Swallow MP: high, vertical banks for nesting [breeding evidence	only] (A	very, Wilk	es*)	
Rynchops niger	SC		S2B,S3N	G5
Black Skimmer				
T: sand flats on maritime islands [breeding evidence onl Hanover, Onslow, Pender)	ly] (Bruns	swick, Car	teret, Dare, Hy	yde, New

Scientific Name	Sta	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Setophaga cerulea	SC	FSC	S2B	G4
Cerulean Warbler				
MC: mature hardwood forests; steep slopes and coves in Plain [breeding evidence only] (Alleghany*, Ashe, Bert Halifax, Haywood, Henderson, Jackson*, Johnston*, Ma Mitchell, Northampton, Polk, Rutherford, Swain, Transy	ie, Bunco acon, Ma	mbe, Cald dison, Mar	well, Clay, Gratin, McDowel	aham, I,
Setophaga coronata	SR		S1B,S5N	G5
Yellow-rumped Warbler				
M: spruce-fir forests, especially in immature stands [bre Mitchell, Swain, Yancey)	eding evi	dence only	[(Avery, Hay	wood,
Setophaga magnolia Magnolia Warbler	SR		S2B	G5
M: spruce-fir forests, especially in immature stands [bre Caldwell, Graham, Haywood, Jackson, McDowell, Mitc	-			
Setophaga virens waynei	SR	FSC	S2S3B	G5T3
Black-throated Green Warbler - Coastal Plain population C: nonriverine wetland forests, especially where white complete [breeding evidence only] (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Dare, Gates, Hyde, Jones, Onslow, Pamlico, Tyrrell, Warbley (Beaufort, Bladen, Brunswick, Bladen,	edar or cy Camden	Carteret,		
Sphyrapicus varius (= S. varius appalachiensis) Yellow-bellied Sapsucker	SC		S2S3B,S5N	G5
M: mature, open hardwoods with scattered dead trees [b Buncombe, Clay*, Graham, Haywood, Jackson, Macon, Watauga, Yancey)				
Spiza americana Dickcissel	SR		S2B,SZN	G5
PC: fallow fields and pastures with tall forbs [breeding e only] (Carteret)	evidence t	for consist	ent year-to-yea	ar sites
Sterna dougallii dougallii	E	\mathbf{E}	SHB	G4T3
Roseate Tern T: sand flats on maritime islands [breeding evidence onl	y] (Carte	ret*, Dare	k)	
Sterna hirundo	SC		S2B	G5
Common Tern				
T: sand flats on maritime islands [breeding evidence onl New Hanover, Onslow, Pamlico*, Pender)	y] (Bruns	swick*, Ca	rteret, Dare, H	yde,
Sternula antillarum	SC		S3B	G4

T: beaches, sand flats, open dunes, gravel rooftops [breeding evidence only] (Brunswick, Carteret, Craven, Currituck, Dare, Hyde, New Hanover, Onslow, Pender)

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Thryomanes bewickii	E		SXB	G5
Bewick's Wren				
M: woodland borders or openings, farmlands or brushy evidence only] (Ashe*, Avery*, Buncombe*, Haywood Transylvania*, Watauga*)		_	-	_
Tyto alba	SR		S2S3B,S31	N G5
Barn Owl				
MPCT: extensive open country, nesting in old buildings evidence only] (Madison)	, silos, la	rge tree cav	vities [breedir	ng
Vermivora chrysoptera	SC	FSC	S2S3B	G4
Golden-winged Warbler				
M: old fields and successional hardwoods [breeding evi Clay, Graham, Haywood, Jackson, Macon, Madison, W		y] (Allegh	any, Ashe, Av	very,
Vermivora cyanoptera	SR		S2B	G5
Blue-winged Warbler				
M: low elevation brushy fields and thickets [breeding ev Buncombe*, Cherokee, Graham*, Macon, Rutherford)	idence or	nly] (Alleg	hany, Ashe,	
Vireo gilvus	SR		S2B	G5
Warbling Vireo				
MP: groves of hardwoods along rivers and streams [bre Avery, Bertie, Buncombe, Caldwell, Cleveland, Forsyth	_			

Avery, Bertie, Buncombe, Caldwell, Cleveland, Forsyth, Halifax, Henderson, Macon*, Orange, Wake, Watauga)

Color (Co. No.	Ctatus		Rank				
Scientific Name Common Name	Status		Kank				
Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global			
Reptiles							
Alligator mississippiensis	Т	T(S/A)	S3	G5			
American Alligator	1	I (S/A)	55	d3			
CT: fresh to slightly brackish lakes, ponds, rivers, and marshes (Beaufort*, Bladen, Brunswick, Carteret, Columbus, Craven, Cumberland*, Currituck, Dare, Duplin, Gates, Hoke*, Hyde, Jones, Lenoir*, New Hanover, Onslow, Pamlico, Pender, Pitt*, Robeson, Sampson, Scotland, Tyrrell, Washington)							
Apalone spinifera spinifera	\mathbf{SC}		S1	G5T5			
Eastern Spiny Softshell							
M: large streams in the French Broad system (Buncomb	e, Hender	son*, Madi	ison)				
Caretta caretta	T	T	S3B,S3N	G3			
Loggerhead Seaturtle							
T: nests on beaches; forages in ocean and sounds (Brunswick, Carteret, Currituck, Dare, Hyde, New Hanover, Onslow, Pender)							
Chelonia mydas	T	T	S1B,SUN	G3			
Green Seaturtle							
T: nests on beaches; forages in ocean and sounds (Bruns Hanover, Onslow, Pender)	swick, Car	rteret, Dare	, Hyde, New				
Crotalus adamanteus	E	FSC	S1	G4			
Eastern Diamondback Rattlesnake							
C: pine flatwoods, savannas, pine-oak sandhills (Bladen Craven*, Cumberland*, Duplin*, Jones*, New Hanover							
Crotalus horridus	SC		S3	G4			
Timber Rattlesnake							
CMP: wetland forests in the Coastal Plain; rocky, upland forests elsewhere [NHP tracking only den/hibernacula sites and selected isolated populations] (Alexander, Alleghany, Anson, Ashe, Avery*, Beaufort, Bertie, Bladen, Brunswick, Buncombe, Burke, Cabarrus, Camden, Carteret, Catawba, Cherokee, Chowan, Clay*, Cleveland, Columbus, Craven, Cumberland, Currituck, Dare, Davidson, Duplin, Durham, Gaston, Graham, Granville, Haywood, Henderson, Hoke, Hyde, Jackson, Jones, Lenoir, Lincoln, Macon, Madison, McDowell, Mecklenburg, Mitchell*, Montgomery, Moore, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Pitt, Polk, Randolph, Richmond, Robeson, Rutherford, Sampson, Scotland, Stanly, Stokes, Surry, Swain, Transylvania, Tyrrell, Union, Wake, Washington, Watauga, Wayne, Wilkes, Yadkin)							
Deirochelys reticularia	SR		S3	G5			
Charles Tradis							

Chicken Turtle

SC: quiet waters of ponds, ditches, and sluggish streams (Bladen, Brunswick, Carteret, Columbus, Craven*, Cumberland, Dare*, Duplin*, Hoke, New Hanover, Onslow, Pender, Richmond, Robeson, Sampson, Scotland, Wayne*)

Scientific Name	Status		Rank	-
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Dermochelys coriacea	E	E	S1B,SUN	G2
Leatherback Seaturtle				
T: oceans, rarely in sounds (Brunswick, Carteret, Cravel Onslow)	n*, Currit	uck, Dare,	Hyde, New H	anover,
Farancia erytrogramma	SR		S3	G4
Rainbow Snake				
CS: swamps, lakes, rivers, and other sluggish water (Becamden*, Carteret*, Chowan, Columbus, Craven, Cum Harnett, Hertford*, Hoke*, Hyde, Johnston*, Jones*, Le Pamlico*, Pasquotank*, Pender, Perquimans*, Pitt*, Ro	berland*, enoir*, M	Currituck, oore*, New	Dare, Duplin Hanover, Or	*, Gates, slow*,
Glyptemys muhlenbergii	T	T(S/A)	S2	G3
Bog Turtle				
MP: bogs, wet pastures, wet thickets (Alexander*, Alleg Caldwell, Catawba, Cherokee*, Clay, Forsyth, Gaston, McDowell, Mitchell, Rutherford, Surry, Transylvania, V	Graham, 1	Henderson,	Iredell*, Mad	
Graptemys geographica	SR		S 1	G5
Common Map Turtle				
M: rivers in the Hiwassee system (Cherokee)				
Heterodon simus	SC	FSC	S2	G2
Southern Hognose Snake				
SC: sandy woods, particularly pine-oak sandhills (Blade Cumberland*, Duplin, Edgecombe, Hoke, Jones*, Moor Richmond, Robeson, Sampson, Scotland, Wake, Wayne	e, New H			
Lampropeltis getula sticticeps	SC		S2	G5T2Q
Outer Banks Kingsnake				_
T: maritime forests, thickets, and grasslands on the Oute (Carteret*, Currituck*, Dare*, Hyde)	er Banks (endemic to	North Caroli	na)
Lepidochelys kempii	E	E	S1B,SUN	G1
Kemp's Ridley Seaturtle				
T: ocean and sounds (Beaufort, Brunswick, Carteret, Cu Onslow, Pamlico)	rrituck, [Dare, Hyde,	New Hanove	r,
Liodytes pygaea	SR		S2	G5
Black Swampsnake				
C: in lush vegetation of ponds, ditches, or sluggish streat Dare*, Hyde, New Hanover*, Onslow, Pender, Tyrrell*		swick*, Ca	rteret*, Crave	en*,
Liodytes rigida	SR		S2S3	G5
Glossy Crayfish Snake				
C: marshes, cypress ponds, other wetlands (Bladen, Bru Dare, Hoke*, Hyde*, Jones*, New Hanover*, Onslow, I			olumbus, Cra	ven,

Scientific Name	Status		Rank			
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global		
Malaclemys terrapin	SC	FSC	S 3	G4		
Diamondback Terrapin T: salt or brackish marshes, estuaries (Beaufort, Brunsw Onslow, Pamlico, Pender)	ick, Carte	eret, Dare,	Hyde, New	Hanover,		
Masticophis flagellum Coachwhip	SR		S3	G5		
SCTP: dry and sandy woods, mainly in pine/oak sandhills (Anson, Bladen, Brunswick*, Carteret*, Columbus, Craven*, Cumberland, Harnett, Hoke, Lenoir, Montgomery, Moore, New Hanover, Onslow, Pender, Richmond, Sampson, Scotland, Stanly, Union, Wayne)						
Micrurus fulvius (= M. fulvius fulvius)	\mathbf{E}		S1	G5		
Eastern Coralsnake CS: pine-oak sandhills, sandy flatwoods, maritime forest		*		erland*,		
Harnett*, Hoke*, Moore*, New Hanover, Onslow*, Pen		eson, scou	ŕ	C FINA		
Nerodia sipedon williamengelsi Carolina Watersnake	SC		S3	G5T3		
T: salt or brackish marshes (endemic to North Carolina) (Beaufort, Carteret, Currituck, Dare, Hyde, Pamlico)						
Ophisaurus attenuatus	SR		S2	G5		
Slender Glass Lizard						
CPSM: old fields, wooded edges, open woods (Beaufort Cherokee, Chowan, Clay, Columbus, Durham, Edgecom Iredell, Johnston, Lenoir, Orange, Pitt, Stanly, Vance, W Brunswick*, Chatham*, Cherokee, Chowan, Columbus* Lenoir*, Pender, Pitt, Stanly*, Vance*, Wake, Warren*)	nbe, Fran Vake, War ', Durhan	klin, Gates rren, Wilso	, Halifax, H on) (Bertie*	arnett, , Bladen*,		
Ophisaurus mimicus	SC	FSC	S1	G3		
Mimic Glass Lizard						
C: pine flatwoods, savannas, pine/oak sandhills (Bladen Hanover*, Onslow*, Pender, Sampson*)	*, Brunsv	vick, Carte	ret, Columb	ous*, New		
Pituophis melanoleucus melanoleucus	SC	FSC	S2	G4T4		
Northern Pinesnake						
SCM: dry and sandy woods, mainly in pine/oak sandhill Cumberland*, Graham*, Harnett, Hoke, Montgomery, N. Rutherford, Scotland, Swain*)	•			d,		
Plestiodon anthracinus Coal Skink	SR		S2S3	G5		

M: rocky slopes, wooded hillsides, roadbanks (Avery, Buncombe*, Caldwell, Clay, Graham*, Haywood, Henderson*, Jackson, Macon, Polk, Rutherford, Swain*, Transylvania, Wilkes)

Scientific Name	Stat	Status		ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Sistrurus miliarius miliarius	SC		S3	G5T4T5
Carolina Pigmy Rattlesnake				
CSP: pine flatwoods, pine/oak sandhills, other pine/oak Carteret, Cleveland*, Craven, Cumberland, Gaston, Har Moore, New Hanover, Onslow, Pamlico, Pender, Pitt, R Washington)	nett, Hok	e, Hyde, L	ee, Montgo	mery,
Sternotherus minor (= S. minor peltifer)	SC		S1	G5
Loggerhead Musk Turtle (= Stripeneck Musk Turtle	e)			
M: streams and rivers in Mississippi drainage (Cherokee	e, Madison	n)		
Trachemys scripta troostii	SR		S1	G5T4
Cumberland Slider				

M: rivers in French Broad drainage (Madison)

Scientific Name Common Name	Sta	Status		nnk
Region: Habitat Comments (Counties of Occurrence) N.C.	U.S.	N.C	Global
Amphibi	ans			
Ambystoma mabeei	SR		S2	G4
Mabee's Salamander				
CS: shallow ephemeral wetlands, such as Carolina ba Brunswick, Carteret*, Columbus*, Cumberland, Dare Pender*, Perquimans*, Robeson, Sampson, Scotland)	*, Duplin, l			
Ambystoma talpoideum	SC		S2S3	G5
Mole Salamander				
MP: breeds in fish-free semipermanent woodland por (Alleghany, Buncombe, Cherokee, Clay, Davidson, C McDowell, Montgomery, Person, Polk, Richmond, R Transylvania, Union, Yadkin)	Granville, G	uilford, He	enderson, Ma	acon,
Ambystoma tigrinum (= A. tigrinum tigrinum)	T		S2	G5
Eastern Tiger Salamander		1		
SC: breeds in fish-free semipermanent ponds; forages (Cumberland, Hoke, Richmond, Robeson, Scotland, V		t woods, us	sually sandy	pinewoods
Anaxyrus quercicus	SR		S3	G5
Oak Toad				
CS: pine flatwoods and savannas, pine sandhills wher Carteret, Craven*, Cumberland, Dare, Duplin*, Gates Onslow, Pamlico*, Pender, Perquimans, Richmond, F Washington, Wilson*)	s, Harnett, H	Iyde*, Joh	nston*, New	Hanover,
Aneides aeneus	${f E}$	FSC	S2S3	G3G4
Green Salamander				
M: damp, shaded crevices of cliffs or rock outcrops in (Henderson, Jackson, Macon, Polk, Rutherford, Trans		forests (so	outhern mou	ntains)
Cryptobranchus alleganiensis alleganiensis	SC	FSC	S3	G3G4T3T4
Eastern Hellbender				
M: large and clear fast-flowing streams (Alleghany, A Graham, Haywood, Henderson, Jackson, Macon, Mac Watauga, Yancey)				
Desmognathus folkertsi	SR		S1	G2
Dwarf Black-bellied Salamander M: small streams and seeps in forests (Clay)				
• • • • • • • • • • • • • • • • • • • •	CD	ECC	gg.	C2
Desmognathus organi Northorn Dygmy Solomondon	SR	FSC	S2	G3
Northern Pygmy Salamander	, 0.1 =	1 5	1D: // '	1 4
M: spruce-fir and other high elevation forests; norther Buncombe, Caldwell, McDowell*, Mitchell, Watauga		ench Broa	d River (A	sl

Scientific Name	Status		Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Desmognathus wrighti	SR	FSC	S2S3	G3
Southern Pygmy Salamander				
M: mid- to high elevation forests, often in spruce-fir; we Haywood, Henderson, Jackson, Macon, Swain, Transylv		French Bro	oad River (C	Clay,
Eurycea junaluska	T	FSC	S1S2	G3
Junaluska Salamander				
M: forests near seeps and streams in the Cheoah River's represent specimens of uncertain taxonomy] (Cherokee,			Cherokee a	and Clay
Eurycea longicauda longicauda	SC		S1S2	G5T5
Longtail Salamander				
M: moist woods and floodplains; small ponds for breedi Macon, Watauga)	ng (Alleg	ghany*, Cla	ay, Graham,	Haywood,
Eurycea quadridigitata	SC		S2	G5
Dwarf Salamander				
C: pocosins, Carolina bays, pine flatwoods, savannas, ar Brunswick, Columbus, Hoke, Pender, Robeson, Scotlan		vetland hal	oitats (Blade	en*,
Hemidactylium scutatum	SC		S3	G5
Four-toed Salamander				
MPC: pools, bogs, and other wetlands in hardwood fore Buncombe, Chatham, Cherokee, Clay, Cumberland*, D Granville, Henderson, Macon, McDowell, Mitchell, Mo Person, Polk*, Randolph, Rockingham, Stanly, Stokes, Yadkin)	uplin, Du ntgomery	rham, Frar , Moore, N	nklin, Gates, Nash, Orang	Graham, e, Pender,
Hyla andersonii	SR		S3	G4
Pine Barrens Treefrog				
SC: pocosins, bay forests, boggy areas (Bladen, Cumber Lee*, Moore, Onslow, Pender, Richmond, Robeson, San				, Jones,
Hyla versicolor	SR		S2S3	G5
Common Gray Treefrog				
PM?: deciduous or mixed forests, often near water; prin Warren*)	narily nea	r VA bord	er (Caswell,	Person,
Necturus lewisi	SC	FSC	S2	G2
Neuse River Waterdog				
PC: rivers and large streams in Neuse and Tar drainages Craven, Durham, Edgecombe, Franklin, Granville, Gree Nash, Orange, Person, Pitt, Vance, Wake, Warren, Way	ne, Halif	ax, Johnsto		
Necturus maculosus	SC		S1	G5
Mudpuppy				
M: rivers and large streams in New, French Broad, and Ashe, Buncombe*, Henderson, Macon, Madison, Trans		nnessee dra	inages (Alle	eghany,

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Plethodon amplus Blue Ridge Gray-cheeked Salamander	SR	FSC	S2	G2	
M: mesic forests in the Hickorynut Gorge vicinity (ende Rutherford)	emic to thi	is area) (B	uncombe, H	enderson,	
Plethodon aureolus	SR		S2?	G2G3	
Tellico Salamander					
M: forests in the Unicoi Mountains (Cherokee, Graham))				
Plethodon chattahoochee	SR		S1?	G2G3	
Chattahoochee Slimy Salamander					
M: moist forests in the southwestern counties, close to the	he Georgi	a border (Cherokee, C	lay)	
Plethodon cheoah	SR	FSC	S1S2	G1G2	
Cheoah Bald Salamander					
M: mesic forests on Cheoah Bald (endemic to this area)	(Graham	, Swain)			
Plethodon meridianus	SR	FSC	S2	G2	
South Mountain Gray-cheeked Salamander	521	120	~-	32	
P: mesic forests of the South Mountains (endemic to this	s area) (B	urke. Clev	eland. McD	owell.	
Rutherford)	s ureu) (B	urre, ere i	orarra, ivios	owen,	
Plethodon ventralis	SC		S1	G4	
Southern Zigzag Salamander	50		51	J.	
M: moist areas of talus slopes or rock outcrops in hardw Henderson*, Madison, Yancey)	ood fores	ts (Bunco	nbe, Haywo	ood,	
Plethodon wehrlei	T		0100	G4	
Wehrle's Salamander	1		S1S2	G4	
P: upland forests (low mountains near Virginia border) (Alleghan	v Stokes	Surry Wilk	res)	
,		•	•	•	
Plethodon welleri	SC	FSC	S2	G3	
Weller's Salamander		~ 1.			
M: high elevation forests in northern mountains, mainly northern hardwood forests (Ashe, Avery, Mitchell, Water			a lesser deg	gree,	
Plethodon yonahlossee pop. 1 (= P. longicrus)	SC		S2	G4T1T2Q	
Crevice Salamander					
M: Hickorynut Gorge area (endemic to this area); crevio Henderson, McDowell, Rutherford)	es in moi	st shaded	rocks (Bunc	ombe,	
Pseudacris brachyphona	SC		S2	G5	
Mountain Chorus Frog					
M: ditches, pools, and other small wet areas near forests (Cherokee, Clay)	, in extre	ne southw	estern mour	ntains	

Scientific Name	Sta	Status		ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Pseudacris nigrita	SR		S2	G5
Southern Chorus Frog				
CS: ditches, Carolina bays, and other temporary shallow Carteret*, Columbus*, Cumberland, Hoke, Onslow*, Pe				
Pseudacris ornata	SR		S1S2	G4
Ornate Chorus Frog				
SC: swamps, savannas, wooded ponds and pools (Beauf Craven, Cumberland, Hoke, New Hanover*, Onslow, R.				eret*,
Rana capito capito	T	FSC	S1	G3
Carolina Gopher Frog				
SC: breeds in temporary fish-free pools; forages in sand (Beaufort*, Bladen*, Brunswick, Carteret, Cumberland, Pender, Robeson*, Sampson, Scotland)		1		
Rana heckscheri	SC		SH	G5
River Frog				
SC: river floodplains, such as pools or borrow pit ponds Sampson*, Scotland*)	(Cumber	land*, Mo	ore*, Robes	on*,
Rana sylvatica pop. 3	SR		S1	G5TNR
Wood Frog Coastal Plain population C: mesic to moist hardwood forests (Hyde, Tyrrell)				

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Freshwater Fi	shes				
Acipenser brevirostrum	\mathbf{E}	E	S1	G3	
Shortnose Sturgeon					
TC: brackish water of large rivers and estuaries; spawns Bertie, Bladen, Brunswick, Camden, Carteret, Chowan, Hyde, New Hanover, Onslow*, Pamlico*, Pasquotank, I Tyrrell, Washington)	Columbu	s, Craven*	k, Currituck	, Dare,	
Acipenser fulvescens	SC	FSC	SX	G3G4	
Lake Sturgeon					
M: large rivers of Tennessee drainages (Madison*)					
Acipenser oxyrinchus	\mathbf{E}	\mathbf{E}	S2	G3	
Atlantic Sturgeon					
TC: coastal waters, estuaries, large rivers (Beaufort, Ber Chowan, Craven, Currituck, Dare, Gates, Halifax, Hertf Northampton, Onslow, Pamlico, Pasquotank, Pender, Pe	ord, Hyde	e, Martin, 1	New Hanov	er,	
Ambloplites cavifrons	SR	FSC	S2	G3	
Roanoke Bass					
PC: streams in Neuse and Tar systems (Chatham, Durha Halifax, Johnston*, Lee, Montgomery, Moore, Nash, Or Rockingham, Vance, Warren, Wilson)					
Aplodinotus grunniens	SC		S1	G5	
Freshwater Drum					
M: French Broad River (Madison)					
Carpiodes carpio	SC		S1	G5	
River Carpsucker					
M: French Broad and Cane rivers (Madison, Mitchell, Y	ancey)				
Carpiodes cyprinus	SR		S2	G5	
Quillback					
M: French Broad drainage (Davidson, Davie, Halifax, M Rockingham, Stokes, Yancey)	Iadison, I	Mitchell, N	Northampton	n,	
Carpiodes sp. cf. cyprinus	SR		S2	GNR	
Carolina Carpsucker					
P: Yadkin-Pee Dee, Catawba, Broad, and Roanoke drain Cleveland, Davidson, Davie, Forsyth, Iredell*, McDowe Richmond, Rowan, Rutherford, Stanly, Yadkin)	•			*	
Carpiodes sp. cf. velifer	SC	FSC	S1	GNR	
Atlantic Highfin Carpsucker					
PC: Catawba, Pee Dee, and Cape Fear rivers (Anson*, E Mecklenburg*, Richmond*)	Bladen, Ca	atawba*, (Gaston*, Ire	dell*,	

Scientific Name	Sta	tus	Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Clinostomus sp. 1	SC	FSC	S2	G5T3Q	
Smoky Dace					
M: Little Tennessee and Hiwassee drainages (Cherokee	, Clay, Gr	aham, Jac	kson, Maco	n, Swain)	
Cottus caeruleomentum	SC		S1	G4	
Blue Ridge Sculpin					
P: Dan drainage (Stokes)					
Cottus carolinae	T		S1	G5	
Banded Sculpin					
M: French Broad and Pigeon drainages (Cherokee, Clay	, Haywoo	od, Madiso	on)		
Cyprinella sp. 1	SC		S2	G2Q	
Thinlip Chub					
CS: Cape Fear, Lumber, and Pee Dee drainages (Anson Moore, Richmond, Robeson, Sampson, Scotland)	, Bladen,	Columbus	, Cumberla	nd, Hoke,	
Elassoma boehlkei	T	FSC	S2	G2	
Carolina Pygmy Sunfish					
C: streams and canals in Waccamaw drainage (Brunswi	ck, Colun	nbus)			
Enneacanthus chaetodon	SR		S3	G3G4	
Blackbanded Sunfish					
CS: many drainages, particularly Lumber and Waccama Columbus, Craven*, Cumberland, Duplin*, Gates, Harn Montgomery*, Moore, Nash*, New Hanover, Pender*, Wayne*)	ett*, Hok	e, Johnsto	n*, Lenoir*	, Martin*,	
Enneacanthus obesus	SR		S3	G5	
Banded Sunfish					
C: most Atlantic drainages (Beaufort, Bertie, Bladen, Br Cumberland, Dare*, Duplin*, Gates, Harnett*, Hertford Northampton, Onslow, Pender, Pitt, Robeson, Sampson	, Hyde*,	Johnston,	Jones, New		
Erimonax monachus	T	T	S1	G2	
Spotfin Chub					
M: Little Tennessee River; formerly in French Broad dr Madison*, Swain)	ainage (B	uncombe*	f, Graham, I	Macon,	
Erimystax insignis	SR		S2	G4	
Blotched Chub					
M: primarily French Broad drainage (Buncombe, Chero	kee, Clay	, Henderso	on, Madisor	n, Mitchell,	

M: primarily French Broad drainage (Buncombe, Cherokee, Clay, Henderson, Madison, Mitchell, Transylvania, Yancey)

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Etheostoma acuticeps	T	FSC	S1	G3	
Sharphead Darter					
M: Toe and Cane drainages (Mitchell, Yancey)					
Etheostoma collis	SC	FSC	S3	G3	
Carolina Darter					
P: Roanoke, Tar, Neuse, Cape Fear, YadkinPee Dee, a Cabarrus, Chatham, Davidson, Durham*, Granville, Gu Orange*, Person, Randolph, Richmond, Stanly, Union,	ilford, M		•		
Etheostoma inscriptum	T		S1	G4	
Turquoise Darter					
M: streams of Savannah drainage (Jackson*, Macon*, T	ransylvar	nia)			
Etheostoma jessiae	SC		SX	G4	
Blueside Darter					
M: streams in Mills River system (Henderson*)					
Etheostoma kanawhae	SR		S3	G4	
Kanawha Darter					
M: New drainage (Alleghany, Ashe, Watauga)					
Etheostoma mariae	SC	FSC	S2	G3	
Pinewoods Darter					
SC: streams of Lumber drainage, mainly in the sandhills Hoke, Montgomery, Moore, Richmond, Robeson*, Scot		tle Pee Dee	e drainage (Bladen,	
Etheostoma perlongum	T	FSC	S1	G1Q	
Waccamaw Darter					
C: Lake Waccamaw, and sparingly in the Waccamaw R (Columbus)	iver (ende	emic to No	orth Carolin	a)	
Etheostoma podostemone	SC		S2	G4	
Riverweed Darter					
P: large streams in Dan River system (Caswell, Rocking	ham, Sto	kes)			
Etheostoma simoterum	SC		S1	G3G4	
Tennessee Snubnose Darter					
M: streams of French Broad drainage (Madison)					
Etheostoma thalassinum	SR		S 3	G4	
Seagreen Darter					
MP: Catawba and Broad drainages (Alexander, Avery, l Cleveland, Gaston, Lincoln, McDowell, Polk, Rutherfor		e*, Burke,	Caldwell,	Catawba,	
Etheostoma vulneratum	SC	FSC	S2	G3	
Wounded Darter					

M: streams of Little Tennessee and French Broad drainages (Graham, Jackson, Macon, Madison*,

Swain, Transylvania)

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Exoglossum laurae Tonguetied Minnow M: New drainage (Alleghany, Ashe, Watauga)	SR		S2	G4	
Exoglossum maxillingua Cutlip Minnow P: streams of Dan River system (Rockingham, Stokes)	SC		S1	G5	
Fundulus cf. diaphanus Lake Phelps Killifish C: Lake Phelps (endemic to this lake) (Tyrrell, Washing	SR ton)	FSC	S1	G1Q	
Fundulus chrysotus Golden Topminnow C: Waccamaw drainage (Brunswick, Columbus)	SR		S1S3	G5	
Fundulus waccamensis Waccamaw Killifish C: Lake Waccamaw (endemic to North Carolina) (Colum	SC mbus)	FSC	S1	G1	
Heterandria formosa Least Killifish C: streams and lakes near Wilmington (Brunswick, New	SC Hanover	r, Pender)	S2	G5	
Hiodon tergisus Mooneye M: French Broad River (Henderson*, Madison)	SC		S1	G5	
Hybopsis rubrifrons Rosyface Chub M: Savannah drainage (Transylvania)	T		S1	G4	
Ichthyomyzon bdellium Ohio Lamprey M: French Broad and Cane drainages (Madison, Mitchel	SR II, Yancey	y)	S1	G3G4	
Ictiobus bubalus Smallmouth Buffalo M: French Broad drainage [reservoir populations in Atla Davidson, Davie, Madison, Mitchell, Montgomery, Rich				G5	
Ictiobus niger Black Buffalo M: French Broad River (Madison)	SR		S1	G5	

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Lampetra aepyptera	T		S2	G5	
Least Brook Lamprey CP: Tar and Neuse drainages (Edgecombe, Franklin, Hawake, Warren)	alifax, Jol	nnston, Jon	es*, Lenoir	·, Pitt*,	
Lethenteron appendix American Brook Lamprey M: French Broad drainage (Madison)	T		S1	G4	
Luxilus chrysocephalus Striped Shiner	SC		S1	G5	
M: French Broad and Hiwassee drainages (Buncombe, C	Cherokee	, Macon, N	Aitchell, Ya	ncey)	
Menidia extensa Waccamaw Silverside C: Lake Waccamaw (endemic to North Carolina) (Colum	T mbus)	T	S1	G1	
Micropterus coosae Redeye Bass M: Savannah and Broad drainages (Burke*, Henderson,	SR Transylv	vania)	S1	G5	
Moxostoma ariommum Bigeye Jumprock P: Dan drainage (Caswell, Forsyth, Rockingham, Stokes	T 3)		S2	G4	
Moxostoma breviceps Smallmouth Redhorse M: Tennessee drainages (Cherokee, Jackson, Macon, M	SR adison, N	Aitchell. Sy	S2	G5	
Moxostoma robustum Robust Redhorse P: Pee Dee River; formerly in tributaries of this river (A	E .nson, Bu	FSC rke*, Davi	S1 dson*, Dav	G1	
Iredell*, Richmond, Stanly*, Union*)					
Moxostoma sp. 2 Sicklefin Redhorse M: Hiwassee and Little Tennessee drainages (Cherokee	T Clay G	raham Jac	S2 kson Maco	G2Q	
Moxostoma sp. 3	T	FSC	S2	G1G2Q	
Carolina Redhorse P: Cape Fear and Pee Dee drainages (Anson, Chatham, Randolph, Richmond, Stanly)				-	
Notropis bifrenatus Bridle Shiner	E	FSC	S1	G3	
C: streams in lower Neuse and Chowan drainages (Crav	en, Hertf	ora, Jones'	·)		

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Notropis chalybaeus	SR		S2S3	G4	
Ironcolor Shiner					
C: coastal plain rivers and creeks (Beaufort*, Bertie*, B Columbus, Craven*, Cumberland*, Duplin, Edgecombe Hertford, Hoke, Johnston, Jones, Lenoir*, Martin, Moor Onslow, Pender*, Richmond, Robeson, Sampson*, Scot	*, Gates* e*, Nash	, Greene*, *, New Ha	, Halifax*, H nover*, Nor	larnett, thampton,	
Notropis lutipinnis	SC		S2	G4Q	
Yellowfin Shiner					
MP: Savannah, Little Tennessee, and Broad drainages [o (Jackson, Macon, Transylvania)	only the S	savannah d	lrainage is li	sted as SC]	
Notropis mekistocholas	E	E	S1	G1	
Cape Fear Shiner					
P: Cape Fear drainage (endemic to North Carolina) (Cha	atham, Ha	rnett, Lee	, Moore, Rai	ndolph)	
Notropis micropteryx	SR		S2	G5	
Highland Shiner					
M: French Broad, Little Tennessee, and Hiwassee drains Haywood, Jackson, Macon, Madison, Mitchell, Swain, T	•			y,	
Notropis sp. 1	SR		S2	GNR	
Kanawha Rosyface Shiner					
M: New drainage (Alleghany, Ashe, Watauga)					
Notropis volucellus	SR		S2	G5	
Mimic Shiner					
MPC: New, French Broad, Little Tennessee, Tar, and N Durham*, Franklin, Granville, Greene*, Halifax, Johnst Nash*, Orange*, Person, Pitt*, Swain, Vance, Wake*, V	on*, Jone	s, Lenoir,			
Noturus eleutherus	SC		S1	G4	
Mountain Madtom					
M: French Broad drainage (Madison)					
Noturus flavus	E		S1	G5	
Stonecat					
M: Nolichucky, French Broad, and Little Tennessee dra	inages (M	Iacon, Ma	dison, Swair	, Yancey)	
Noturus furiosus	T	FSC	S2	G2	
Carolina Madtom					
CP: Tar and Neuse drainages (endemic to North Carolin Franklin, Granville, Greene*, Halifax, Johnston, Jones* Wayne*, Wilson)					
Noturus gilberti	E	FSC	S1	G2	
Orangefin Madtom					
P: Dan drainage (Stokes)					

Scientific Name	Sta	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global		
Noturus sp. 2 Broadtail Madtom C: Cape Fear, Waccamaw, and Lumber drainages (Blad				G2 umberland,		
Duplin*, Hoke, Moore*, Pender*, Richmond*, Robeson *Percina burtoni* *Blotchside Logperch* M: South Toe drainage; formerly in French Broad drain.	E	FSC	S1	G2G3		
Percina caprodes Logperch M: Tennessee drainages (Alleghany, Ashe, Haywood, M	T	,	S1	G 5		
Percina gymnocephala Appalachia Darter M: New drainage (Alleghany, Ashe, Watauga)	SR		S2	G4		
Percina nigrofasciata Blackbanded Darter M: Savannah drainage (Transylvania)	Т		S1	G5		
Percina oxyrhynchus Sharpnose Darter M: New drainage (Alleghany, Ashe)	SC		S1	G4		
Percina rex Roanoke Logperch P: Dan drainage (Caswell, Rockingham)	E	E	S1	G1G2		
Percina squamata Olive Darter M: Tennessee drainages (Cherokee, Haywood, Henderse Swain, Yancey)	SC on, Jackso	FSC on, Macon	S2, Madison,	G3 Mitchell,		
Percina williamsi (= P. macrocephala) Sickle Darter (= Longhead Darter) M: formerly in French Broad River (Buncombe*)	SC	FSC	SX	G2		
Phenacobius teretulus Kanawha Minnow M: New drainage (Alleghany, Ashe, Watauga)	SC		S3	G3G4		
Polyodon spathula Paddlefish	E	FSC	SH	G4		

M: French Broad River (Buncombe*, Henderson*, Madison*, Transylvania*)

Scientific Name	Status		Ra	ank			
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global			
Sander canadensis	SR		S1	G5			
Sauger							
M: French Broad and Hiwassee drainages (Cherokee*, Haywood*, Madison)							
Semotilus lumbee	SC	FSC	S2	G3G4			
Sandhills Chub							
S: Sandhills streams in the Cape Fear, Lumber, and YadkinPee Dee drainages (Cumberland, Harnett, Hoke, Montgomery, Moore, Richmond, Scotland)							
Thoburnia hamiltoni	E	FSC	S1	G3			
Rustyside Sucker							

P: Dan drainage (Stokes)

Scientific Name	Status		R	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Mollusks: Freshwate	er Bival	ves		
Alasmidonta heterodon	E	E	S1	G1G2
Dwarf Wedgemussel PC: Tar and Neuse drainages, mainly near Fall Line (Front Orange*, Vance, Wake, Warren, Wilson)	anklin, G	ranville, H	alifax, Johr	nston, Nash,
Alasmidonta raveneliana Appalachian Elktoe M: Tennessee drainages (Buncombe*, Graham, Haywoo	E od, Hende	E erson, Jack	S1 son, Macor	G1 n, Mitchell,
Swain, Transylvania, Yancey)	GD.		G A	C10
Alasmidonta sp. 2 Freshwater Mussel (Uwharries region)	SR		S2	G1?
P: Pee Dee drainage streams in Uwharries region (ender Montgomery, Randolph)	nic to No	rth Carolin	na) (Anson [*]	· ,
Alasmidonta undulata	T	FSC	S3	G4
Triangle Floater PC: Roanoke, Chowan, Tar, Neuse, Cape Fear drainage Edgecombe, Franklin, Gates, Granville, Guilford, Halifa Montgomery, Moore, Nash, Northampton, Orange, Pers Wayne, Wilson)	ax, Harne	tt, Hertford	d, Johnston,	
Alasmidonta varicosa	E	FSC	S2	G3
Brook Floater PM: along Blue Ridge escarpment of Catawba and Yadl drainage (Burke, Caldwell, Chatham, Forsyth, Granville Surry, Wilkes, Yadkin)				
Alasmidonta viridis	E	FSC	S1	G4G5
Slippershell Mussel M: Little Tennessee and French Broad drainages (Hende	erson, Ma	icon, Swain	n, Transylv	ania)
Anodonta couperiana	E		S1	G4
Barrel Floater C: Cape Fear drainage (Bladen, New Hanover*)				
Anodonta implicata	T		S2	G5
Alewife Floater C: Chowan, Roanoke, Cape Fear, and Pee Dee drainage Halifax, Hertford, Montgomery, Northampton, Richmon				
Cyclonaias tuberculata Purple Wartyback	E		S1	G5

M: New River (Alleghany)

Scientific Name	Stat	us	R	ank			
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global			
Elliptio dilatata Spike	SC	FSC	S2	G5			
M: New, Little Tennessee, and Hiwassee drainages (Alleghany, Ashe, Cherokee, Clay, Macon, Swain, Watauga)							
Elliptio fisheriana	SR		S3	G4			
Northern Lance CP: many Atlantic drainages, mainly from the Fall Line Granville, Halifax, Hertford, Johnston, Martin, Nash, New Wilson)							
Elliptio folliculata	SC		S2	G2G3Q			
Pod Lance C: Cape Fear, Lumber, and YadkinPee Dee drainages Cumberland, Duplin*, Harnett, Montgomery, Pender*, 1				olumbus,			
Elliptio lanceolata	E	FSC	S2	G2G3			
Yellow Lance							
PC: Tar and Neuse drainages (Edgecombe, Franklin, Gr Wake, Warren, Wayne)	anville, H	alifax, Joh	nnston, Nas	h, Vance,			
Elliptio marsupiobesa	SC		S2	G3Q			
Cape Fear Spike							
C: Cape Fear and Neuse drainages (endemic to North Couplin, Johnston, New Hanover, Pender, Pitt, Robeson,	, ,		aven, Cum	berland,			
Elliptio roanokensis	T	FSC	S3	G3			
Roanoke Slabshell							
PC: Roanoke, Tar, Neuse, White Oak, Cape Fear, Lumb (Anson, Bladen, Chatham, Craven, Cumberland, Durhan Halifax, Harnett, Johnston, Jones, Lee, Lenoir, Montgor Pitt, Randolph, Richmond, Stanly, Wake, Warren, Wayn	m, Edgeco nery, Moo	ombe, Frar ore, Nash,	ıklin, Gran	ville,			
Elliptio steinstansana	E	E	S1	G1			
Tar River Spinymussel							
PC: Tar drainage, very rare in Neuse drainage (endemic Halifax, Johnston, Nash, Pitt*, Warren)	to North	Carolina)	(Edgecomb	e, Franklin,			
Elliptio waccamawensis	T	FSC	S1	G2G3Q			
Waccamaw Spike							
C: Lake Waccamaw and vicinity (endemic to North Car (Brunswick, Columbus)	olina; pos	sibly in ad	ljacent Sou	th Carolina)			
Fusconaia masoni	E	FSC	S3	G2			
Atlantic Pigtoe							
CP: Roanoke, Tar, Neuse, Cape Fear, YadkinPee Dee Chatham, Cumberland*, Durham, Edgecombe, Franklin Montgomery, Moore, Nash, Northampton*, Orange, Per Union, Vance, Wake, Warren, Wayne*, Wilson)	, Granvill	e, Halifax	Harnett*,	Johnston,			

Scientific Name	Sta	tus	Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Fusconaia subrotunda Longsolid	SR	FSC	S1	G3	
M: Hiwassee, Little Tennessee, and French Broad drains Swain, Transylvania)	ages (Bur	ncombe, C	herokee, C	lay, Macon,	
Lampsilis cariosa	E	FSC	S3	G3G4	
Yellow Lampmussel					
PC: Chowan, Roanoke, Neuse, Tar, Cape Fear, Lumber, Anson, Bladen*, Chatham, Columbus, Cumberland, Dar Granville, Halifax, Harnett, Hertford, Johnston, Lee, Mc Orange, Pender*, Person, Pitt, Randolph, Richmond, Ro Vance)	vie, Durh	am, Edgec y, Moore, I	ombe, Fran Nash, Nort	nklin, Gates, hampton,	
Lampsilis fasciola	\mathbf{SC}		S2	G5	
Wavyrayed Lampmussel					
M: French Broad, Pigeon, Hiwassee, and Little Tenness Haywood, Jackson, Macon, Mitchell, Swain, Yancey)	ee draina	ges (Chero	kee, Clay,	Graham,	
Lampsilis fullerkati	T	FSC	S1	G1Q	
Waccamaw Fatmucket					
C: Lake Waccamaw and vicinity (endemic to North Car (Columbus)	olina and	adjacent S	South Carol	lina)	
Lampsilis radiata	T		S3	G5	
Eastern Lampmussel					
CP: Chowan, Roanoke, Tar, Neuse, Cape Fear, Yadkin-Bertie*, Bladen, Cabarrus, Chatham, Chowan*, Columb Edgecombe, Franklin, Gates, Granville, Halifax, Hertfor Nash, Northampton, Orange, Pender, Person, Pitt, Rand Stanly, Union, Wake, Warren, Wayne, Wilson)	ous, Crave rd, Johnst	en, Davids con, Jones,	on, Durhan Lee, Mont	n, gomery,	
Lampsilis sp. 2	SR	FSC	S2	G1	
Chameleon Lampmussel					
PC: Tar, Neuse, Cape Fear, and Yadkin Pee Dee drainag Nash, Orange, Person, Vance, Warren)	ges (Anso	on, Durham	ı, Franklin,	Granville,	
Lampsilis splendida	SR	FSC	S1	G3	
Rayed Pink Fatmucket CP: Lake Waccamaw and Waccamaw River, Yadkin-Per Richmond)	e Dee Ri	ver (Ansor	ı, Columbu	ıs,	
Lasmigona decorata	E	E	S1	G1	
Carolina Heelsplitter	-	_		-	
P: Catawba and Pee Dee drainages (endemic to this area Carolina) (Cabarrus*, Mecklenburg, Union)	in North	Carolina a	and adjacer	nt South	
Lasmigona holstonia	E	FSC	SH	G3	
Tennessee Heelsplitter					
M: formerly in Valley Creek in Cherokee County (Cher	okee*)				

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Lasmigona subviridis	E	FSC	S2	G3
Green Floater				
CPM: Roanoke, Tar, Neuse and YadkinPee Dee drains (Alleghany, Ashe, Durham, Edgecombe, Franklin, Gran Nash, Northampton, Orange, Person, Pitt, Randolph, Ro	ville, Hal	ifax, Johns	ston, Montg	gomery,
Leptodea ochracea	T		S2	G3G4
Tidewater Mucket				
CP: Chowan, Roanoke, and Tar drainages, and abundan Columbus, Edgecombe, Gates, Halifax, Hertford, Martin				
Ligumia nasuta	T		S2	G4
Eastern Pondmussel				
C: Chowan, Roanoke, Neuse, Tar, Cape Fear, and Yadk Brunswick*, Chowan, Gates, Halifax, Hertford, Martin, Richmond, Stanly, Washington)		_		
Pegias fabula	E	${f E}$	S1	G1
Littlewing Pearlymussel				
M: Little Tennessee River; formerly in Valley River in (Swain)	Cherokee	County (C	Cherokee*,	Macon,
Pleurobema collina	E	E	S1	G1
James Spinymussel				
P: Dan and Mayo rivers (Rockingham, Stokes)				
Pleurobema oviforme	E	FSC	S1	G2G3
Tennessee Clubshell				
M: French Broad, Little Tennessee, and Hiwassee drain: Transylvania)	ages (Che	rokee, Cla	y, Macon,	Swain,
Pleuronaia barnesiana	E	FSC	S1	G2G3
Tennessee Pigtoe				
M: Little Tennessee and Hiwassee rivers (Cherokee, Ma	icon)			
Potamilus alatus	SR		S1	G5
Pink Heelsplitter				
M: French Broad River (Madison)				
Strophitus undulatus	T		S3	G5
Creeper				
PCM: Roanoke, Tar, Neuse, Cape Fear, YadkinPee Dedrainages (Alamance, Alexander, Anson, Buncombe, Buncombe, Durham, Davidson*, Durham, Edgecombe, Forsyth, Fr	ırke, Cab	arrus, Casv	well, Cataw	ba,

drainages (Alamance, Alexander, Anson, Buncombe, Burke, Cabarrus, Caswell, Catawba, Chatham, Davidson*, Durham, Edgecombe, Forsyth, Franklin, Gaston, Granville, Halifax, Harnett*, Henderson, Johnston, Jones, Lee, Mecklenburg, Montgomery, Moore, Nash, Orange, Person, Pitt, Polk*, Randolph, Richmond, Rockingham, Stanly, Surry, Transylvania, Union, Vance, Wake, Warren, Wilson, Yadkin)

Scientific Name	Sta	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Toxolasma pullus	E	FSC	S2	G2
Savannah Lilliput				
PC: Cape Fear, Lumber, and YadkinPee Dee drainage: Moore, Orange, Randolph, Stanly, Union)	s (Chatha	m, Columb	ous, Lee, M	ontgomery,
Villosa constricta	SC	FSC	S3	G3
Notched Rainbow				
PC: Roanoke, Tar, Neuse, YadkinPee Dee, and Cataw Anson, Burke, Cabarrus, Caswell, Catawba, Chatham, I Franklin, Granville, Guilford, Halifax, Harnett, Johnston Montgomery, Moore, Nash, Orange, Person, Randolph, Stokes, Union, Vance, Wake, Warren, Wilson)	Davidson* n, Lee*, N	f, Duplin, I AcDowell,	Durham, Ed Mecklenbu	lgecombe, irg,
Villosa delumbis	SR		S4	G4
Eastern Creekshell				
PC: Cape Fear, Lumber, YadkinPee Dee, and Catawba Brunswick*, Burke, Cabarrus, Caldwell, Chatham, Colu Gaston, Guilford, Harnett, Iredell, Lee, Mecklenburg, M Randolph, Richmond, Rockingham, Sampson, Stanly, U	ımbus, Cı Iontgome	ımberland, ry, Moore,	, Davidson*	, Duplin,
Villosa iris	\mathbf{SC}		S2	G5Q
Rainbow				
M: Hiwassee and Little Tennessee drainages; formerly i Jackson, Macon, Swain)	n French	Broad drai	inage (Cher	okee, Clay,
Villosa trabalis	SR	${f E}$	SH	G1
Cumberland Bean				
M: Hiwassee River (Cherokee)				
Villosa vanuxemensis	T		S1?	G4
Mountain Creekshell				
M: Hiwassee River; documented from Hiwassee and Fro (Cherokee, Clay)	ench Broa	nd drainage	es in Tennes	ssee
Villosa vaughaniana Carolina Creekshell	E	FSC	S3	G2

P: Cape Fear, Yadkin--Pee Dee, and Catawba drainages (endemic to North Carolina and adjacent South Carolina) (Alamance, Anson*, Cabarrus, Chatham, Guilford, Lee, Mecklenburg, Montgomery, Moore, Orange, Randolph, Richmond, Rowan, Stanly, Union)

Scientific Name	Status		Ra	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Mollusks: Freshwater and Te	rrestria	l Gastro	pods		
Allogona profunda Broad-banded Forestsnail M: mixed hardwood forests (Avery, Mitchell)	SR		S2S3	G5	
Amnicola sp. 1 Waccamaw Snail C: Lake Waccamaw and adjacent Big Creek (endemic to	SC North C	Carolina) (C	S1 Columbus)	G1	
Anguispira knoxensis Rustic Tigersnail M: around large rotting logs near limestone outcrops (So	SR wain*)		SH	G1G2	
Anguispira strongylodes Southeastern Tigersnail MP: forested areas with high pH soils (Clay, Graham, M	SR IcDowell	, Rutherfor	S2S3 rd)	G5	
Appalachina chilhoweensis Queen Crater M: cove hardwoods (Graham, Haywood, Madison, Swa	SC		S2	G4	
Appalachina sayana Spike-lip Crater M: rich upland hardwood forests (Ashe, Avery, Madison	SR n, Watau	ga, Yancey	S2S3	G5T5	
Carychium arboreum Tree Thorn M: mixed hardwood forests just north of Fontana Lake (SR endemic	to this area	S1? a) (Swain)	GNR	
Catinella pugilator Weedpatch Ambersnail C: marsh ecotones (Currituck)	SR		S1?	G1G2	
Catinella waccamawensis Waccamaw Ambersnail C: shoreline of Lake Waccamaw (endemic to this area)	T (Columbi	FSC	SH	G1Q	
Cincinnatia sp. 1 Waccamaw Siltsnail C: Lake Waccamaw and adjacent Big Creek (endemic to	SC North C	FSC Carolina) (C	S1 Columbus)	G1	
Daedalochila sp. 1 nr. auriformis a Liptooth C: very wet clay savannas? (Brunswick)	SR		S1S2	GNR	

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Discus bryanti Sawtooth Disc M: Watauga to Macon counties in cove hardwoods (Bur	SC	Madison, M	S2 Mitchell)	G3
Discus nigrimontanus Black Mountain Disc M: talus slopes in hardwood forests (Ashe, Graham, Sw	SR ain, Wata	uga, Yanc	S2S3 ey)	G4
Discus whitneyi Forest Disc M?: Mesic to slightly drier forests, no specific locality in	SR nformatio	n available	S1S2	G5
Elimia christyi Christy's Elimia M: Hiwassee River and tributaries (Cherokee)	E		S1	G2
Euchemotrema fraternum Upland Pillsnail M: under forest litter in upland hardwood forests (Swain	SR		S2S3	G5
Ferrissia hendersoni Blackwater Ancylid PC: Neuse, White Oak, and Cape Fear drainages (record	SC	entered)	SU	G5Q
Fumonelix cherohalaensis Rock-loving Covert M: undersides of rock ledges in northern hardwood fore (Graham)	SR sts (ender	nic to Huc	S1 kleberry Kr	GNR nob area)
Fumonelix clingmanica	T	FSC	S1	G4T4
Summit Covert M: highest summits spruce-fir and northern hardwood National Park (endemic to the park) (Swain)	l forests -	- in Great S	Smoky Mou	ıntains
Fumonelix jonesiana	T		S1?	G1
M: spruce-fir and northern hardwood forests; Newfound National Park (endemic to this area) (Swain)	l Gap area	of Great	Smoky Mou	untains
Fumonelix langdoni	SR		S1	GNR
Talus Covert				
M: in talus and under leaf litter in high elevation hardwoline in Great Smoky Mountains National Park) (Swain)	ood forest	s (endemic	to the NC-	-TN state
Fumonelix orestes	T		S1	G1
Engraved Covert				
M: spruce-fir and northern hardwood forests; Plott Balsa (Haywood Jackson)	am mount	ains (ende	mic to this	area)

(Haywood, Jackson)

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Fumonelix roanensis Roan Mountain Covert M: high elevation hardwood and coniferous forests (end state line) (Mitchell)	SR lemic to R	oan Moun	S1	GNR he NCTN	
Gastrocopta corticaria Bark Snaggletooth MC: rich cove forests and other forests over high pH so:	SR ils (Swain)	S2S3	G5	
Glyphyalinia clingmani Fragile Glyph M: wet leaf litter associated with seepage runs; Black M (Buncombe, Yancey)	E Countains	FSC (endemic t	S1 to North Car	G1 rolina)	
Glyphyalinia cryptomphala Thin Glyph MP: hardwood forests, mainly along river bluffs or in ra	SR avines (Ha	ywood)	S1S2	G5	
Glyphyalinia junaluskana Dark Glyph M: cove hardwoods; southwestern mountains (Cherokee	SC e*, Grahar	n, Macon,	S2 Swain)	G2	
Glyphyalinia pentadelphia Pink Glyph M: cove hardwoods; southwestern mountains (Cherokee	SC e, Clay, G	raham, Ma	S2 acon, Swain	G2G3	
Haplotrema kendeighi Blue-footed Lancetooth M: southwestern mountains (Macon, Swain)	SC		S1S2	G2	
Helicodiscus bonamicus Spiral Coil M: Nantahala Gorge vicinity (endemic to this area) (Gra	SC nham, Swa	ain)	S1	G1	
Helicodiscus fimbriatus Fringed Coil M: rocky soils; extreme southwestern corner of the state	SC (Cheroke	ee, Grahan	S2	G4	
Helicodiscus inermis Oldfield Coil M: open, grassy areas (Haywood, Swain)	SR		S1?	G4	
Helicodiscus multidens Twilight Coil M: river bluffs or caves, in calcium-rich soils (Macon, Macon,	SR Madison)		S1	G3	

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Helicodiscus saludensis	SR		S1?	G1	
Corncob Snail					
P: no habitat information; apparently restricted to NC at Mountains State Park (Burke)	nd SC, kn	own in the	state only f	From South	
Helisoma eucosmium	E	FSC	S1	G1Q	
Greenfield Rams-horn					
C: Greenfield Lake (formerly), creek in Brunswick Cou (Brunswick*, New Hanover*)	nty (ende	mic to No	th Carolina)	
Hendersonia occulta	SR		S2S3	G4	
Cherrystone Drop					
M: river bluffs, talus slopes, and other forested areas wi Swain, Watauga, Yancey)	th high pl	H soils (Ca	ldwell, Mac	lison,	
Inflectarius downieanus	SR		S1S2	G3	
Dwarf Globelet					
M: montane forests, but habitats not well known; report counties (Watauga)	ed also fr	om Grahar	n and Chero	okee	
Inflectarius ferrissi	T		S2	G2	
Smokey Mountain Covert					
M: spruce-fir and northern hardwood forests; Great Smoto these ranges) (Haywood, Jackson, Swain)	oky Mour	ntains and l	Plott Balsan	ns (endemic	
Inflectarius subpalliatus	SC		S2S3	G2	
Velvet Covert					
M: central mountains (Watauga to Haywood counties) (Watauga)	Avery, H	aywood, N	Iadison, Mi	tchell,	
Inflectarius verus	SR		S1?	G1	
Fuzzy Covert					
M: rich forests, known only from both the NC and TN s Park (Haywood, Swain)	ides of G	reat Smoky	y Mountains	s National	
Leptoxis dilatata	${f T}$	FSC	S3	G3	
Seep Mudalia					
M: New drainage (Alleghany, Ashe, Watauga)					
Mesodon altivagus	SR		S1?	G2G3	
Wandering Globe					
M: spruce-fir and northern hardwood forests, known on Smoky Mountains National Park (Haywood, Swain)	ly from b	oth the NC	and TN sid	les of Great	
Mesodon andrewsae Balsam Globe	SR		S2S3	G3	

M: high elevation forests, from Madison County to southwestern Virginia (Avery)

entific Name Status		us	Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Mesomphix latior	SR		S2S3	G3G4	
Broad Button M: low elevation hardwood forests (Haywood, Swain)					
Mesomphix pilsbryi Striate Button	SR		S2S3	G4	
CP: no habitat information (Bladen, Brunswick, Craven,	Gaston, l	Harnett, S	ampson, Sta	nly, Union)	
Mesomphix vulgatus	SR		S2?	G4	
Common Button M: a variety of forested slopes, often where steep or in r Watauga)	avines (H	enderson,	McDowell,	Swain,	
Novisuccinea ovalis	SR		S2S3	G5	
Oval Ambersnail M: a variety of montane forests, at all elevations (Avery Yancey)	, Madison	, Mitchell	, Swain, Wa	itauga,	
Pallifera hemphilli	SC		S2S3	G4	
Black Mantleslug M: high elevation forests, mainly spruce-fir (Avery, Jack)	kson, Mito	chell, Swa	in, Yancey*)	
Pallifera ohioensis Redfoot Mantleslug	SR	D 14	S1	G5	
M: under bark, logs, or leaf litter in spruce-fir forests, kr	own fron	ı Koan Mo	ountain (Mit	chell)	
Paravitrea andrewsae	SC		S2	G2	
High Mountain Supercoil M: cove forests with rocky slopes; northern half of the n Mitchell, Watauga, Yancey)	nountains	(Avery, B	Buncombe, N	Madison,	
Paravitrea clappi Mirey Ridge Supercoil	SC		S1S2	G2G3	
M: high elevations in Great Smoky Mountains National	Park (end	emic to th	is park) (Sw	vain)	
Paravitrea lacteodens Ramp Cove Supercoil M: Graham County, possibly Cherokee County (endemi	SC to this a	raa) (Grak	SH	G1	
		ica) (Gran		G2	
Paravitrea lamellidens Lamellate Supercoil M: forested hillsides, especially near talus slopes (Chercyancey)	SC okee, Grah	ıam, Hayv	S2S3 wood, Macon	G2 n, Swain,	
Paravitrea multidentata Dentate Supercoil	SR		S2S3	G5	
MP: hillsides, especially near seeps, in hardwood forests	(Haywoo	od)			

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Paravitrea petrophila	SR		S1	G4	
Cherokee Supercoil					
M: a variety of hardwood forests (Macon)					
Paravitrea placentula	SC		S2S3	G3	
Glossy Supercoil					
MP: a variety of mesic to rich hardwood forests (Madiso	on, Mitch	ell, Swain)			
Paravitrea reesei	SR		S2?	G3	
Round Supercoil					
M: hillsides and ravines in hardwood forests (Madison,	Watauga,	Wilkes)			
Paravitrea ternaria	T	FSC	S1	G1G2	
Sculpted Supercoil					
M: under moist leaf litter on wooded hillsides and slope: County, Tennessee) (Madison)	s (endem	ic to Madis	son County a	and Unicoi	
Paravitrea umbilicaris	SC		S2	G2	
Open Supercoil					
M: cove forests with rocky slopes (Cherokee, Graham*,	Macon,	Swain)			
Paravitrea varidens	T	FSC	S1S2	G1G2	
Roan Supercoil					
M: high elevation forests (endemic to northwestern Nort (Mitchell, Yancey)	th Carolin	na and adja	cent Tennes	see)	
Patera clarki clarki	SC		S3	G3T3	
Dwarf Proud Globe					
M: forested mountainsides (Cherokee, Clay, Graham, H	aywood,	Jackson, M	Iacon, Swai	n)	
Patera clarki nantahala	T	T	S1	G3T1	
Noonday Globe					
M: Nantahala Gorge (endemic to this site) (Graham*, M	acon*, S	wain)			
Philomycus virginicus	SR		S1S2	G3	
Virginia Mantleslug					
M: wooded hillsides at high elevations in the northern m	ountains	(Ashe, Av	ery)		
Pilsbryna nodopalma	SR		S1	G1G2	
Oar Tooth Bud					
M: rock outcrops and rocky hillsides (Buncombe, Hayw	ood, Mac	dison)			
Pilsbryna vanattai	SC		S1	G2G3	
Honey Bud					

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Planorbella magnifica Magnificent Rams-horn	E	C	S1	G1	
C: Orton Pond and pond on Sand Hill Creek; formerly Carolina) (Brunswick, New Hanover*)	Greenfield	Lake (end	demic to No	orth	
Praticolella lawae	SR		S1	G3	
Appalachian Scrubsnail M: mainly in sandy soil of dry pine woods and glades (Control of the control of the con	Clay)				
Somatogyrus virginicus Panhandle Pebblesnail P: Eno River (Chatham, Durham)	SR	FSC	S2S3	G2G3	
Stenotrema depilatum Great Smoky Slitmouth M: Great Smoky Mountains National Park (essentially e	SC endemic to	o this area)	S2 (Graham, 1	G2 Haywood,	
Swain)					
Stenotrema sp. 1 Cove Slitmouth M: cove hardwoods at lower elevations (endemic to the and immediate vicinity) (Haywood, Swain)	SR Great Sm	oky Moun	S1?	GNR nal Park	
Striatura exigua Ribbed Striate	SR		S1	G5	
M: swampy woods and bog margins; disjunct south from	n West V	irginia (Sv	vain)		
Succinea unicolor Squatty Ambersnail C: marshy areas near streams and lakes (Bertie)	SR		S1S2	G3G4	
Triodopsis fulciden Dwarf Threetooth	SC		S2S3	G1G2	
P: southwestern Piedmont (endemic to North Carolina)	(Burke, C	atawba*,	Cleveland, I	Lincoln)	
Triodopsis soelneri Cape Fear Threetooth	T	FSC	S2S3	G2	
C: swampy habitats in the southeastern portion of the sta (Brunswick, Columbus, New Hanover, Onslow)	ate (ender	nic to Nor	th Carolina))	
Triodopsis tennesseensis Budded Threetooth M: mixed hardwoods on hillsides (Madison)	SR		S1	G4	
Vallonia pulchella Lovely Vallonia	SR		S1S2	G5	

no locality or habitat information; at southern edge of species' range

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Ventridens coelaxis Bidentate Dome	SC		S3?	G3	
M: cove forests and northern hardwood forests (Allegha	ny, Avery	*, Madiso	on, Watauga)	
Ventridens collisella Sculptured Dome M: wooded hillsides in hardwood forests, on high pH so	SR oils (Mitcl	hell, Wata	S2? uga)	G4	
Ventridens decussatus Crossed Dome MP: montane oak-hickory forests (Haywood)	SR		S3?	G3	
Ventridens lasmodon Hollow Dome M: wooded hillsides and ravines (Madison)	SR		S1?	G4	
Ventridens lawae Rounded Dome MP: hillsides and ravines in hardwood forests (Avery, B Henderson, Macon, Madison, Swain, Transylvania) (Ha		dwell, Cat	S2S3 awba, Clay,	G4	
Ventridens suppressus Flat Dome no locality or habitat information; at southern edge of sp	SR becies' ran	ge	S1S2	G5	
Vertigo alabamensis Alabama Vertigo C: pocosins (Bladen, Brunswick, Carteret, Craven, Gree Tyrrell)	SR ne, Moore	e, Pamlico	S2S3 , Pender, Sc	G3 cotland,	
Vertigo bollesiana Delicate Vertigo M: wooded hillsides and marshes; however, records sou gouldii (Haywood)	SR th of PA a	are suspect	S1S2	G4 Vertigo	
Vertigo oralis Palmetto Vertigo C: swamps and other wetland forests in the lower Coasta	SR al Plain (E	Beaufort, P	S2S3 Pender)	G5	
Vertigo parvula Smallmouth Vertigo M: cove forests and rich slopes, at low elevations (Burke	SR		S1	G3	
Vertigo sp. 3 a new Vertigo C: pocosins (Bladen, Brunswick, Craven, Jones, Pamlice)	SR o, Pender,	Tyrrell)	S2S3	GNR	

Scientific Name	Status		Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Vertigo tridentata	SR		S1S2	G5
Honey Vertigo				
PM: often around species of mints close to rock outcrop	s or talus	slopes (As	she, Burke, (Gaston)
Viviparus intertextus	SR		S2?	G4
Rotund Mysterysnail				
C: swamps in Lumber and Waccamaw drainages (Blade	n, Columl	bus, Robe	son)	
Zonitoides patuloides	SC		S2	G3
Appalachian Gloss				
M: cove hardwoods in deep leaf litter; southwestern more	untains (H	Iaywood,	Macon, Swa	nin)

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Arachnids	3				
Hypochilus coylei a Lampshade Weaver M: rock outcrops (endemic to southern mountains of No	SR	ina) (Runc	S3?	G3?	
McDowell, Polk, Rutherford)	rui Caroi	ilia) (Dulic	omoe, mene	icison,	
Hypochilus sheari a Lampshade Weaver M: rock outcrops (endemic to North Carolina) (Buncom	SR be, McD	owell, Yan	S2S3	G2G3	
Microhexura montivaga	SR	E	S1	G1	
Spruce-fir Moss Spider					
M: in moss of spruce-fir forests (endemic to North Caro Buncombe, Caldwell, Haywood, Jackson, Mitchell, Swa				very,	
Nesticus brimleyi a Cave Cobweb Spider M: caves (endemic to the vicinity of Bat Cave) (Polk)	SR		S1?	G1G2	
Nesticus carolinensis	SR	FSC	S1	G1?	
Linville Caverns Spider					
M: caves (endemic to Linville Caverns) (McDowell)					
Nesticus cooperi	SR	FSC	S1	G1	
Lost Nantahala Cave Spider M: caves and along Nantahala River (endemic to this are	ea) (Mace	on Swain)			
Nesticus crosbyi	SR	on, owani)	S1?	G1?	
a Cave Cobweb Spider	SI		51.	01.	
M: spruce-fir forests (endemic to Mount Mitchell)					
Nesticus gertschi	SR		S1?	G1G2	
a Cave Cobweb Spider					
M: caves; Bat Cave, NC, and in Tennessee					
Nesticus mimus	SR		S2?	G2	
a Cave Cobweb Spider					
M: rocky areas; known from Grandfather Mountain and	Table Ro	ock; also in	Nirginia Virginia		
Nesticus sheari	SR		S2?	G2?	
a Cave Cobweb Spider					
M: on ground in moist or rich forests (apparently endem	ic to Gra	ham Coun	ty)		
Nesticus silvanus	SR		S2?	G2?	
a Cave Cobweb Spider					
M: habitat not indicated (apparently endemic to southern	n mounta	ins of Nort	th Carolina)		

Scientific Name	Stat	tus	Ra	ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Nesticus sp. 1	SR		S2?	G2?
a Cave Cobweb Spider				
M: habitat not indicated (known only from Jackson and County, SC)	Transylva	ania count	ies, NC, and	l Oconee
Nesticus sp. 2	SR		S1S3	G1G3
a Cave Cobweb Spider				

M: on ground in forests (only known from Clay County)

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Crustacear	ns			
Caecidotea carolinensis	E	FSC	SH	G2G3
Bennett's Mill Cave Water Slater				
P: caves (endemic to North Carolina) (McDowell*)				
Cambarus acanthura	SR		S1	G4G5
Thornytail Crayfish				
M: pools and small creeks in the Hiwassee drainage (Ch	erokee)			
Cambarus brimleyorum	SR	FSC	S2	G3G4
Valley River Crayfish				
M: streams in the Hiwassee drainage (endemic to North	Carolina) (Cheroke	e, Clay)	
Cambarus catagius	SC		S1	G2
Greensboro Burrowing Crayfish				
P: Cape Fear and YadkinPee Dee drainages; Greensbo North Carolina) (Davidson, Guilford, Montgomery, Rar		the Uwha	arries (enden	nic to
Cambarus chaugaensis	SC	FSC	S2	G2
Chauga Crayfish				
M: streams in Savannah drainage (endemic to northwes Carolina and Georgia) (Jackson, Macon, Transylvania)	t South C	arolina and	l adjacent N	orth
Cambarus davidi	SR		S3	G3
Carolina Ladle Crayfish				
P: Neuse and Cape Fear drainages (endemic to North Ca Durham, Granville, Guilford, Harnett*, Orange, Person,	, ,			natham,
Cambarus eeseeohensis	SR	FSC	S2S3	G1
Grandfather Mountain Crayfish				
M: Linville River above Linville Falls (endemic to this	area) (Av	ery, Burke)	
Cambarus georgiae	SC	FSC	S2	G2G3
Little Tennessee Crayfish				
M: streams in Little Tennessee drainage (Jackson, Macc	n, Swain)		
Cambarus hystricosus	SR	FSC	S2	G2
Sandhills Spiny Crayfish				
S: streams in the Sandhills portion of the Cape Fear drai (Cumberland, Hoke, Moore)	nage (en	demic to N	orth Carolin	na)
Cambarus johni	SR	FSC	S3	G3
Carolina Foothills Crayfish				
PM: headwater streams in the Vadkin-Pee Dee Catawk	a and R	road drains	ngas (Alayar	ndar

PM: headwater streams in the Yadkin--Pee Dee, Catawba, and Broad drainages (Alexander, Burke, Caldwell, Cleveland, Iredell, McDowell, Polk, Rutherford, Wilkes)

N.C. SR ch Carolin SR	U.S.	N.C S2	Global G2
h Carolin	a) (Clevel		G2
	a) (Clevel	1 5 44 =	
	a) (Clevel	1 5 44 -	
SR		and, Polk, R	Rutherford)
		S1	G4
inage (Ch	erokee, Cl	ay)	
SC	FSC	S1	G2
SR	FSC	S2	G3
	_	(endemic to	North
SC	FSC	S2	G3
therford)			
SR	FSC	S1S2	G1G2
Γennesse c	e drainage	(endemic to	North
SC		SH	G3G4T1T
na) (Orar	nge*)		
SC		S2	G5
anover*,	Scotland)		
SC		S3	G3
SC	FSC	S3	G3
ages (Ber	tie, Chowa	ın, Gates, Gı	ranville,
SC		S2	G3
	SR avannah ansylvan SC atherford) SR Fennessee SC na) (Oran SC anover*, SC and Tar of ohnston, on) SC ages (Ber	sr FsC avannah drainages (ansylvania) sc FsC atherford) sr FsC fennessee drainage sc FsC ana) (Orange*) sc anover*, Scotland) sc and Tar drainages (fohnston, Jones, Leron) sc FsC ages (Bertie, Chowa	sr FSC S2 avannah drainages (endemic to ransylvania) SC FSC S2 attherford) SR FSC S1S2 Fennessee drainage (endemic to SC SH ana) (Orange*) SC S2 anover*, Scotland) SC S3 and Tar drainages (Craven*, Economic to SC S1 and Tar drainages (Craven*, Econo

Scientific Name	Stat	tus	Ra	ank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Skistodiaptomus carolinensis	SC		SH	GNR	
Carolina Skistodiaptomus					
M: Lake Ravenel in Macon County (endemic to North C	Carolina) ((Macon*)			
Stygobromus carolinensis	SR	FSC	SH	G1	
Vancey Sideswimmer					

M: seeps at Mount Mitchell (endemic to North Carolina) (Yancey*)

scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: May	flies				
Ameletus tertius a mayfly	SR		S2	G4	
M: Wilson Creek, Panthertown Creek; also in Great Sme	•	itains Nat	ional Park (Swain)	
Amercaenis cusabo a mayfly C: Black River, Pee Dee River (Anson, Bladen, Richmo	SR	on Blader	S1 Pender R	G3	
	SR	ni, Diadei	S2	G4	
Asioplax dolani a mayfly P: Neuse River (Edgecombe, Johnston, Montgomery, Po		n)	52	G4	
Attenella margarita a mayfly M: Eagle Creek (Swain)	SR		S1	G5	
Baetisca becki a mayfly PC: Swift Creek (Nash), Fishing Creek (Catawba, Edge	SR	Jalifav* 1	S1	G2G3	
Baetisca obesa a mayfly C: rivers and streams in the Tar drainage (Edgecombe*,	SR	iumax , i	S1	G5	
Baetopus trishae a mayfly M: Panthertown Creek (Jackson)	SR		S1	G1G2	
Barbaetis benfieldi Benfield's Bearded Small Minnow Mayfly M. Joseb Fork, French Broad River, Coney Fork (Punce)	SR	dro* Ingle	S1	G2G4	
M: Jacob Fork, French Broad River, Caney Fork (Bunco Cercobrachys etowah	SR	кет, јаск	son, Transy S2	G4	
a caenid mayfly P: known in NC only from the Tar River (Cherokee, Cle	eveland, P	olk, Rowa	an)		
Choroterpes basalis a mayfly PSC: Waccamaw River, Drowning Creek, Bear Creek, I Dutchmans Creek (Brunswick*, Chatham*, Columbus, I				G5 k,	
Dolania americana	SR		SH	G4	
American Sand Burrowing Mayfly C: only known NC occurrence is from the Black River (Sampson ³	k)			

Scientific Name	Statu	IS	Ra	ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Ephemerella floripara a mayfly	SR		S2	G3Q
M: Wilson Creek, Linville River, and North and South F Burke*, Caldwell, Watauga*)	orks of Ne	ew River	(Alleghany	, Ashe,
Homoeoneuria cahabensis Cahaba Sand-filtering Mayfly	SR		S2	G2G3
P: South Fork Yadkin River (Davie), South Fork Catawk Second Broad River (Catawba, Iredell*, Rowan*, Ruthe		Iunting C	reek, Third	Creek,
Maccaffertium wudigeum Wilson Creek "Stenonema" M: Wilson Creek vicinity (endemic to this area) (Burke,	SR Caldwell)		S1	G1
Macdunnoa brunnea a mayfly MP: French Broad River, Mills River, Hunting Creek, L		ek, Yadk	S2 in River, Sv	G3G4
(Buncombe, Davie*, Gaston, Henderson, Iredell*, Nash *Pseudiron centralis** White Sand-river Mayfly P: Iredell County (Iredell*)	*, Wilkes) SR		S2	G5
Tortopsis puella a mayfly P: only one NC specimen known, from Tar River (Frank	SR klin*)		S1	G5
Tsalia berneri a mayfly PM: probably widespread in clean streams and rivers wi	SR th riverwee	ed (Podos	S3	G4

PM: probably widespread in clean streams and rivers with riverweed (*Podostemum*) (Ashe*, Buncombe*, Burke*, Caldwell, Durham, Haywood, Henderson, Iredell, McDowell*, Rockingham)

Scientific Name	Status		Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Stone	eflies			
Alloperla lenati	SR		S1	G2G3
Sandhill Sallfly SC: Lumber River at Wagram and Upper Rockfish Cree	k			
Attaneuria ruralis	SR		S2S3	G4
Giant Stone	SK		5255	04
MSC: Cataloochee Creek, West Fork Pigeon River, Sou Haywood, Richmond*)	th Fork N	ew River;	Naked Cree	ek (Ashe,
Bolotoperla rossi	SR		S3	G4
Smoky Willowfly				
M: known from eight streams and rivers in the mountain County (Alleghany*, Ashe*, Caldwell*, McDowell, Tra				lvania
Haploperla fleeki	SR		S1	G1
Piedmont Sallfly				
S: Little River (Moore) (endemic to this area) (Moore)				
Hydroperla phormidia	SR		S2	G3
Brownwater Springfly				
PSC: Lumber River drainage (Columbus, Robeson)				
Megaleuctra williamsae	SR		S1	G2
Williams' Rare Winter Stonefly				
M: UT Cullasaja River, Cove Creek, Mull Creek (Swain	1)			
Pteronarcys comstocki	SR		S2	G3
Spiny Salmonfly				
M: medium to large cold streams in French Broad and C	Catawba d	rainages (l	Buncombe,	Madison)
Rasvena terna	SR		S2	G4
Vermont Sallfly				
M: small streams in the French Broad drainage (Cherok	ee, Transy	/lvania)		
Zapada chila	SR		S1S2	G2
Smokies Forestfly	· <u>-</u>			-
M: small streams in Little Tennessee and New drainage	s (Ashe*,	Swain)		
	, ,	,		

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: Caddi	sflies				
Brachycentrus etowahensis a caddisfly M: Hiwassee River (Cherokee*)	SR		S2	G3	
Ceraclea cancellata a longhorned caddisfly PSC: Naked Creek, Roanoke River, Eliis Creek, Turnbu	SR all Creek (Bertie, Ri	S2 chmond*)	G5	
Ceraclea joannae Lenat's Ceraclea P: Little River (Montgomery) (endemic to this area) (Montgomery)	SR ontgomery	7)	S1	G1	
Ceraclea slossonae a caddisfly M: larger stream and rivers in New and Catawba drainage	SR ges (Ashe,	Burke*)	S1?	G4	
Dibusa angata a caddisfly P: larger streams and rivers in Tar, Neuse, and Yadkin-Rowan*, Wake*)	SR Pee Dee d	rainages (S2 (Davie*, Du	G5 urham,	
Diplectrona metaqui a diplectronan caddisfly P: very small streams; known in NC only from Hanging	SR Rock Star	te Park (H	S3 Iarnett, Stok	G4G5	
Goerita flinti a caddisfly M: known only from Great Smoky Mountains National	SR Park (Swa	uin)	S1	G2G3	
Homoplectra monticola a caddisfly M: scattered sites in central and southern mountains (Bu	SR incombe, J	Jackson, N	S1 Macon)	G2G3	
Hydropsyche carolina a caddisfly M: rivers and streams in Savannah, French Broad, and N Transylvania)	SR New draina	ages (Jack	S1	G2G3 n*, Swain*,	
Hydropsyche walkeri a caddisfly M: Beech Creek (Watauga)	SR		S2	G5	
Manophylax altus Mount Mitchell Caddisfly M: moist vertical rockfaces (Buncombe, Yancey)	SR		S1	G2G3	

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Nectopsyche waccamawensis Waccamaw White Miller C: Lake Waccamaw (endemic to this area) (Columbus)	SR		S1	G1	
Oecetis sp. D a caddisfly C: Lake Waccamaw and additional sites (endemic to No	SR orth Caroli	ina) (Brun	S1 swick, Colu	G1 mbus)	
Oropsyche howellae a caddisfly M: streams (Jackson*, Macon*)	SR		S2	G2	
Palaeagapetus celsus a caddisfly M: small streams in headwaters of Watauga and Catawb	SR a drainag	es (Avery'	S2 *, Watauga)	G5	
Polycentropus colei a caddisfly M: high elevation streams in Great Smoky Mountains N	SR ational Pa	ark (Hayw	S1 ood, Swain)	G3G4	
Rhyacophila accola a caddisfly M: small streams and springs (endemic to North Carolin	SR a) (Hayw	ood, Swai	S1S2	G1G2	
Rhyacophila appalachia a rhyacophilan caddisfly M: mountain streams (Cherokee, Macon, Transylvania)	SR (Cheroke	e, Macon,	S2 Transylvan	G3	
Rhyacophila celadon Celadon Caddisfly M: seeps and streams (Avery, Haywood, Swain, Wataug	SR ga)		S2	G2G3	
Rhyacophila sp. 1 a caddisfly C: streams and swamps (Columbus, Moore, Pender, Rob	SR beson)		S2	G2G3	

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: Dragonflies and	d Dams	elflies			
Aeshna tuberculifera Black-tipped Darner M: boggy or marshy ponds (Avery, Burke, Wilkes*)	SR		S1	G5	
Aeshna verticalis Green-striped Darner M: marshy ponds (Burke, Henderson)	SR		S1	G5	
Arigomphus pallidus Gray-green Clubtail C: ponds, lakes, and streams (Pender)	SR		S1	G5	
Boyeria grafiana Ocellated Darner M: rocky forest streams (Avery*, Burke, Macon, McDow	SR well Swa	in* Wata	S2?	G5	
Calopteryx amata	SR	, , , uu	S1S2	G4	
Superb Jewelwing	510		5152	0.	
M: cold, shallow, rocky rivers (Buncombe*, Graham, Ha Mitchell*, Swain, Transylvania*, Yancey)	iywood, I	Henderson	*, Jackson,	Macon*,	
Cordulia shurtleffii	SR		S1	G5	
American Emerald					
M: ponds, lakes, bogs (Burke)					
Coryphaeschna ingens	SR		S2?	G5	
Regal Darner					
C: lakes and ponds (Bladen, Carteret*, Columbus, Crave Martin*, Onslow, Pamlico*, Pender, Tyrrell, Wake*)	n*, Durh	am, Gates	, Granville,	Jones,	
Dromogomphus spoliatus	SR		S1	G4G5	
Flag-tailed Spinyleg					
M: slow-moving rivers, or sometimes ponds, often in sun	nny place	s (Grahan	n)		
Gomphus abbreviatus	SR		S3	G4	
Spine-crowned Clubtail					
PC: rivers (Caswell, Chatham, Cumberland, Durham, Lec Randolph, Union, Wake)	e, Mecklo	enburg, M	ontgomery,	Moore,	
Gomphus adelphus	SR		S1S2	G4G5	
Mustached Clubtail		Madison	Watauga, Ya	ancev*)	
Mustached Clubtail M: small rivers with rapids (Ashe, Avery, Buncombe, Ha	aywood, l	viadison,)	
	aywood, l SR	viudison,	S1	G4	

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Gomphus borealis Beaverpond Clubtail M: lakes, ponds, streams (Mitchell*)	SR		SH	G4
Gomphus cavillaris Sandhill Clubtail SC: sand-bottomed lakes and streams (Bladen, Brunswick)	SR ck)		S1	G4
Gomphus consanguis Cherokee Clubtail MP: small spring-fed streams (Burke*, Davie)	SR	FSC	S1?	G3
Gomphus descriptus Harpoon Clubtail M: large streams and rivers (Avery*, Haywood*, Madis	SR son)		S1	G4
Gomphus fraternus Midland Clubtail P: rocky rivers (Anson, Stanly)	SR		S1	G5
Gomphus lineatifrons Splendid Clubtail MP: rocky rivers (Alleghany, Ashe, Avery, Durham, Ha	SR nywood, (Orange, Wa	S2	G4
Gomphus quadricolor Rapids Clubtail MP: rocky rivers (Buncombe, Chatham, Madison, Moon	SR		S1?	G3G4
Gomphus septima Septima's Clubtail PC: rocky rivers (Alamance, Anson, Chatham, Cumberl Montgomery, Moore, Nash, Northampton, Orange, Rich				G2 Lee,
Gomphus ventricosus Skillet Clubtail P: rivers (Caswell, Franklin, Vance, Wake)	SR		S1S2	G3
Gomphus viridifrons Green-faced Clubtail M: rivers (Alleghany*, Ashe, Macon, Madison)	SR		S1	G3G4
Ladona julia Chalk-fronted Corporal M: bogs, marshes (Jackson)	SR		S1	G5
Lestes congener Spotted Spreadwing	SR		S1	G5

M: ponds and small lakes with emergent vegetation along the margins (Alleghany, Watauga)

Scientific Name		tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Lestes vidua Carolina Spreadwing	SR		S2?	G5
C: ponds and pools (Bladen, Brunswick, Hoke, Onslow,	Pender, S	Sampson*)	
Macromia margarita Mountain River Cruiser PM: rivers (Burke, Caldwell, Cleveland, Davie, Franklin Rockingham, Transylvania*, Watauga)	SR n, Granvil	FSC	S2?	G3
Neurocordulia yamaskanensis Stygian Shadowdragon M: rivers (Alleghany*, Macon, Madison)	SR		S1?	G5
Ophiogomphus aspersus Brook Snaketail M: rapids of rivers and streams (Alleghany, Ashe, Hayw	SR vood*)		S1	G4
Ophiogomphus edmundo Edmund's Snaketail P: rocky rivers and streams in the upper Piedmont and for	SR pothills (E	FSC Burke, Cal	S1 dwell, Rock	G1G2
Ophiogomphus howei Pygmy Snaketail M: rivers (Alleghany, Ashe, Burke)	SR	FSC	S1	G3
Ophiogomphus mainensis Maine Snaketail M: rapids of rivers and streams (Ashe, Buncombe, Burk Mitchell, Swain*, Watauga, Yancey)	SR e, Caldwe	ell, Haywo	S2S3 ood, Jackson	G4G5, Madison,
Ophiogomphus rupinsulensis Rusty Snaketail M: rivers (Alleghany)	SR		S1	G5
Progomphus bellei Belle's Sanddragon C: sand-bottomed lakes (Bladen)	SR	FSC	S1	G3
Somatochlora elongata Ski-tipped Emerald M: bogs, marshes, and other open wetlands with slow-m	SR noving wa	iter (Ashe,	S2S3 Avery, Bur	G5 ke, Clay*,
Jackson*, Macon, Watauga)				
Coppery Emerald CSP: creeks and other slow-moving acidic streams, in for Bladen*, Brunswick*, Chatham, Columbus*, Cumberlan Ernellin*, Greene*, Harnett*, Hake Johnston*, Look M.	nd*, Dupl	lin*, Durh	am, Edgecoi	nbe,

Franklin*, Greene*, Harnett*, Hoke, Johnston*, Lee*, Martin*, Moore, Nash, Northampton*, Orange*, Pender*, Pitt*, Richmond*, Robeson*, Rockingham*, Sampson*, Scotland*)

Scientific Name	Status		Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Stylogomphus sigmastylus	SR		SH	G5
Interior Least Clubtail				
S: small, clear streams in wooded areas (Moore*)				
Stylurus ivae	SR		S2S3	G4
Shining Clubtail				
CS: sandy creeks or small rivers, where waters are clean Duplin, Jones, Moore*, Pender*, Robeson, Sampson*, S		, Columb	us*, Cumbe	rland*,
Stylurus scudderi	SR		S2?	G4G5
Zebra Clubtail				
M: streams and rivers (Ashe, Avery*, Jackson*, Macon*	*, Swain*	, Watauga	, Wilkes)	
Stylurus townesi	SR		SH	G3
Townes' Clubtail				
C: sand-bottomed small streams and rivers (Columbus*,	Robeson	*)		
Sympetrum obtrusum	SR		S1	G5
White-faced Meadowhawk				
M: boggy or marshy ponds and lakes (Ashe, Avery, Wa	tauga)			
Triacanthagyna trifida	SR		S1?	G5
Phantom Darner				
C: slow-flowing streams (Carteret*, Craven*, Pender, R	obeson*)			

Scientific Name	Sta	tus	Ra	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Butter	rflies			
Amblyscirtes alternata	SR		S2	G2G3
Dusky Roadside-Skipper				
CS: open pine woods, savannas; host plants unknown Craven, Cumberland, Hoke, Jones, Moore, New Hanovo				
Amblyscirtes reversa	SR		S3	G3G4
Reversed Roadside-Skipper				
CSPM: flatwoods, savannas, pocosin borders, near cane (Beaufort, Bertie, Brunswick, Carteret, Craven, Cumber Macon, Martin, Moore, Onslow, Pender, Pitt, Polk, Rich Washington)	land, Dar	e, Franklir	i, Gaston, H	loke,
Atrytone arogos arogos	SR	FSC	SH	G3T1T2
Eastern Arogos Skipper				
CS: savannas, open pinewoods, and other relatively und mainly pinebarrens sandreed (<i>Calamovilfa brevipilis</i>) (Hanover*, Richmond*)				
Atrytonopsis loammi	SR	FSC	SH	G1
Loammi Skipper				
CT: grassy areas near the coast; host plants presumed to New Hanover*)	be Andro	opogon gra	sses (Bruns	swick*,
Atrytonopsis quinteri	SR	FSC	S 1	G1Q
Crystal Skipper				_
T: dunes and sandy flats; host plant seaside little blue North Carolina) (Carteret, Onslow)	stem (Sch	izachyriun	n littorale)	(endemic to
Autochton cellus	SR		S2	G4
Golden Banded-Skipper				
MP: moist woods near streams; host plant wild bean (Buncombe, Burke, Caldwell, Caswell, Cherokee, Cleve Henderson, Macon, Madison, Mitchell, Orange*, Pitt*,	land, Gas	ton, Graha	m, Haywoo	od,
Calephelis virginiensis	SR		S2	G4
Little Metalmark				
C: savannas and pine flatwoods; host plants vanilla-pl (<i>Cirsium</i>) (Brunswick, Carteret, Craven, Cumberland, E Pender)				
Callophrys hesseli	SR		S3	G3G4
Hessel's Hairstreak				
CS: Atlantic white cedar swamps; host plant white ce	dar (<i>Chan</i>	naecyparis	thyoides) (Bladen,

CS: Atlantic white cedar swamps; host plant -- white cedar (*Chamaecyparis thyoides*) (Bladen, Brunswick, Camden, Columbus, Craven, Cumberland, Dare, Gates, Harnett*, Hoke*, Moore, Pender, Richmond, Sampson, Scotland, Tyrrell, Washington)

Scientific Name	Stat	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Callophrys irus	SR		S2	G3
Frosted Elfin				
CSPM: open woods and borders, usually in dry situation wild indigos (<i>Baptisia</i>) (Brunswick, Buncombe*, Chero Franklin, Gates, Harnett, Hoke, Jones, Moore, Pender, P	kee*, Col	umbus, Ĉ	raven*, Cun	
Celastrina nigra	SR		S2	G4
Dusky Azure				
M: rich, moist deciduous forests; host plant goat's-bea Graham, Haywood, Jackson, Macon, Mitchell, Polk, Sw				be, Clay,
Chlosyne gorgone	SR		S1?	G5
Gorgone Checkerspot				
M: woodland openings and borders; host plants sunflocomposites (Clay, Macon)	wers, ros	inweeds,	and other tal	11
Erora laeta	SR		S2S3	$\mathbf{G}\mathbf{U}$
Early Hairstreak				
M: deciduous forests, especially along edges of rich fore (<i>Fagus grandifolia</i>) (Alleghany, Ashe, Avery, Buncomb Jackson, Macon, Madison, Mitchell, Swain, Transylvani	e, Burke,	Clay, Gra	aham, Hayw	
Erynnis martialis	SR		S2	G3
Mottled Duskywing				
MPSC: upland woods and wooded edges; host plant N (Alleghany, Ashe, Brunswick*, Buncombe, Caswell, Claurham, Franklin, Gaston*, Graham, Granville, Hender Montgomery, Moore, Orange*, Polk, Richmond*, Ruther Wayne, Yadkin)	ay, Cleve son, Jone	land, Crav s*, Macor	ven*, Cumbe n*, Madison	erland,
Euchloe olympia	SR		S1	G5
Olympia Marble				
M: dry, open wooded slopes, mainly on circumneutral so (Alleghany, Madison, Swain, Wilkes)	oils; host	plants c	resses (Aral	bis)
Euphydryas phaeton	SR		S2	G4
Baltimore Checkerspot				
M: bogs, marshes, wet meadows; rarely in upland woods false foxglove (<i>Aureolaria</i>) (Alleghany, Ashe, Avery, B Jackson, Macon, Madison, Mitchell, Polk, Transylvania)	uncombe	Graham,		
Euphyes berryi	SR		S1	G2
Berry's Skipper				
C: wet areas near ponds, canals, or marshes; host plants Craven, Dare, Hyde, Washington)	sedges	(Carex) (Carteret, Co	lumbus,

Scientific Name	Statu	IS	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Euphyes bimacula	SR		S2	G4
Two-spotted Skipper CSPM: wet savannas, bogs, sedgy areas near wet woods Ashe, Brunswick, Carteret, Craven, Gates, Harnett, John Pender, Pitt, Vance)				
Euphyes dukesi	SR		S1S2	G3
Dukes' Skipper CT: ecotones of brackish or fresh marshes with swamps: Brunswick, Craven, Currituck, Dare, New Hanover)	; host plan	ts sedge	es (Carex) (I	Beaufort,
Hesperia attalus	SR		S2S3	G3G4
Dotted Skipper SC: pine/oak sandhills, flatwoods, mainly in Sandhills; h Craven*, Cumberland, Hoke, Moore, Pender*, Richmon	•	•	s (Brunswic	k*,
Hesperia meskei	SR		S3	G3G4
Meske's Skipper SC: open pine woods, especially in Sandhills; host plant Cumberland, Hoke, Moore, Onslow*, Richmond, Samps	•	,	, Brunswick	,
Megathymus cofaqui	SR		S1	G3G4
Cofaqui Giant-Skipper				
P: monadnocks with yucca; host plant Yucca filamente	osa (Alexa	nder, Poll	k*)	
Neonympha areolatus	SR		S2	G3G4
Georgia Satyr C: savannas, wet powerline clearings, other damp grassy Carteret, Columbus, Craven, Durham*, Hoke*, Jones*,				
Neonympha helicta	SR		S1?	G3G4
Helicta Satyr				
CSP: sedgy wetlands, including sandhill seeps, pocosing Sandhills, low pocosins in the northeast Coastal Plain, at plants sedges (Alamance*, Anson, Beaufort, Bertie*, Gaston*, Gates*, Granville, Halifax, Harnett, Hoke, Hyd Scotland, Washington) (Alamance*, Anson*, Beaufort, Durham*, Gaston*, Gates*, Granville*, Halifax*, Harnett, Richmond*, Scotland, Washington)	nd wet ope Chatham*, de, Martin* Bertie*, Cl	en swales Cumberl k, Moore, hatham, C	in the Piedn and, Dare, I Pitt, Richm Cumberland,	nont; host Durham*, ond, Dare,
Neonympha mitchellii francisci	SR	E	S1	G2T1

Saint Francis' Satyr

S: boggy areas, overgrown beaver ponds, and pocosin margins with sedges in sandhills; host plants -- sedges (taxon endemic to North Carolina) (Cumberland, Hoke)

Scientific Name Common Name	Status		Ra	nk
Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Papilio cresphontes	SR		S2S3	G5
Giant Swallowtail				
TCMP: primarily coastal in maritime forests or thickets; hoptree; host plants prickly-ash (<i>Zanthoxylum</i>), hoptre Brunswick, Buncombe, Caldwell, Carteret, Cherokee*, Hanover, Onslow, Orange*, Pender, Wake, Yancey)	ee (Ptelea	i) (Alexand	der, Allegha	ny, Ashe,
Phyciodes batesii maconensis	SR	FSC	S2	G4G5T2
Appalachian Tawny Crescent				
M: woodland openings, glades, and road banks at higher mainly <i>Symphyotrichum undulatum</i> (Buncombe*, Clay, Swain)				
Poanes aaroni	SR		S1S2	G4
Aaron's Skipper				
T: brackish marshes along the northern coast and sounds (<i>Distichlis spicata</i>) (Currituck, Dare, Hyde)	s; host pla	ants gras	ses, perhaps	saltgrass
Polites mystic	SR		S1	G5
Long Dash				
M: bogs, wet meadows; host plants grasses (Alleghan	y, Ashe,	Watauga)		
Polygonia faunus	SR		S1S2	G5
Green Comma				
M: spruce, fir, or hemlock forests, where mixed with hat (Betula) (Avery*, Buncombe, Caldwell*, Graham, Hayv Transylvania*, Watauga, Yancey)				
Polygonia progne	SR		S1	G5
Gray Comma				
M: rich deciduous forests; host plants mainly goosebe Madison*, Mitchell*, Swain*, Watauga)	rries (<i>Rib</i>	oes) (Avery	, Buncombe	e, Clay,
Pontia protodice	SR		S1S2	G5
Checkered White PCMS: fields, pastures; host plants mustard species (Cabarrus, Chatham, Durham, Forsyth, Gates, Granville, Wayne)				
Problema bulenta	SR	FSC	S1	G2G3
Rare Skipper				
T: fresh to brackish marshes with tall grasses in Wilmin <i>aquatica</i>), possibly other tall grasses (Brunswick, New I		; host plan	t wild rice	e (Zizania
Pyrgus wyandot	SR	FSC	S1	G1G2Q
Appalachian Grizzled Skipper				
M: openings and edges near wooded hilltops; host plants (Alleghany, Ashe, Polk*)	s mainl	y cinquefo	oil (<i>Potentill</i>	<i>a</i>)

Scientific Name Common Name Region: Habitat Comments (Counties of Occurrence)	Sta	tus U.S.	Ra N.C	ink Global
Satyrium caryaevorus	SR		S1	G4
•	SK		31	04
Hickory Hairstreak M: mid- to high elevation deciduous forests; host plants Buncombe, Macon, Madison, McDowell, Watauga)	primar	rily hickori	es (Carya)	(Ashe,
Satyrium edwardsii	SR		S2	G5
Edwards' Hairstreak				
SM: scrubby or xeric oak woods; host plants mainly of Hoke, Macon, Moore, Polk*, Sampson, Scotland, Trans				arnett,
Satyrium favonius favonius	SR		S1	G4G5T4
Southern Oak Hairstreak				
T: maritime forests along southern coast; host plant o virginiana) (Brunswick, New Hanover)	aks, espec	cially live o	oak (<i>Querci</i>	us
Satyrium favonius ontario	SR		S2S3	G4G5T4
Northern Oak Hairstreak				
PSCTM: oak-dominated woods, usually in dry sites; how Brunswick, Camden*, Carteret, Caswell, Cleveland, Cu Hoke, Hyde*, Iredell, Mecklenburg, Montgomery, Moo	mberland	*, Curritud	ek, Dare, Du	ırham,
Speyeria idalia	SR	FSC	SX	G3
Regal Fritillary				
M: wet or dry meadows bogs open hilltons: host plants	s violets	s (Viola) (A	Alleghany*	Ashe*

M: wet or dry meadows, bogs, open hilltops; host plants -- violets (*Viola*) (Alleghany*, Ashe*, Avery*, Wilkes*)

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: Mo	ths				
Acronicta albarufa Barrens Dagger Moth S: oak glades and barrens (Cumberland, Moore, Wake*	SR)		S1S2	G3G4	
Acronicta dolli Doll's Dagger M: dry oak woodlands (Macon)	SR		S1S2	G3G4	
Acronicta perblanda Cypress Daggermoth C: cypress swamps (Craven*)	SR		SH	G3G4	
Acronicta sinescripta a Dagger Moth C: savannas and flatwoods (Brunswick, Pender)	SR		S1S3	G3G4	
Agrotis carolina a Dart Moth CS: flatwoods with pyxie-moss (<i>Pyxidanthera</i>) (endemicanteret, Columbus, Craven, Cumberland, Harnett, Ons			S2S3) (Bladen, B	G2G3Q runswick,	
Apamea inebriata Drunk Apamea S: sedge meadows (Cumberland, Harnett, Moore)	SR		S1S2	G3G4	
Apameine new genus 2 sp. 1 a Cane Borer CM: woodland canebrakes (Brunswick, Swain)	SR		S2S3	GNR	
Apameine new genus 2 sp. 3 a Canebrake Moth CS: woodland canebrakes (Cumberland, Hoke, Martin,	SR Northamp	oton, Wash	S2S3	GNR	
Apameine new genus 2 sp. 4 a Cane Borer M: woodland canebrakes (Swain)	SR		S1S2	GNR	
Arctia caja Great Tiger Moth M: high elevation hardwood forests (Watauga, Yancey)	SR		S1	G5	
Argyrostrotis quadrifilaris	SR		S2S3	G4	

Hoke, Moore, New Hanover, Onslow, Pender)

Scientific Name	Statu	ıs	Rai	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Bleptina sangamonia a Litter Moth CPM: habitats not known (Bladen, Macon, Montgomery	SR Onglosy	Dandalah	S1S2	GU
		Kandoipi		C4
Catocala consors Consort Underwing P: oak-hickory forests (Gaston*)	SR		SH	G4
Catocala dulciola Sweet Underwing M: forests with hawthorns (Alleghany*)	SR		SH	G3
Catocala grisatra Grisatra Underwing C: sandhills and dry woods with hawthorns (Bladen)	SR		S1S2	G1G3
Catocala herodias Herodias Underwing P: oak forests, particularly with bear oak (Quercus ilicife)	SR <i>plia</i>) (Stok	es)	S1	G3
Catocala jair Jair Underwing SC: xeric pine-oak sandhills (Bladen, Moore, New Hand	SR over)		S1S3	G4?
Catocala lincolnana Lincoln Underwing C: wooded areas with hawthorns (Brunswick, Martin, Pe	SR ender)		S2S3	G3G4
Catocala louiseae Louise's Underwing C: flatwoods and other habitats with blueberries (Bladen	SR)		S1S2	G4
Catocala marmorata Marbled Underwing CMP: forests with cottonwoods or willows, especially w Brunswick, Martin, New Hanover)	SR vith swamp	cottonw	S1S3	G3G4 any, Ashe,
Catocala messalina Messalina Underwing TC: maritime forests and xeric sandhills (Dare*, New H	SR anover)		S2?	G4?
Catocala orba Orba Underwing C: levee forests with hawthorn (Martin, Northampton)	SR		S2S3	G4
Cerma cora Owl-eyed Bird-dropping Moth	SR		S2S3	G3G4

CM: levee forests with hawthorn (Ashe, Martin, New Hanover)

Scientific Name	Stat	us	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Chaetaglaea fergusoni Ferguson's Sallow CS: sandhills (Brunswick, Moore, New Hanover)	SR		S1S2	G3G4
Cherokeea attakullakulla Cherokee Moth M: forests with stands of cane (Arundinaria) in the south entered)	SR hwestern i	nountains	S2S3 (records no	GNR t yet
Cyclophora sp. 1 (culicaria of authors) Sand-myrtle Geometer C: flatwoods with sand-myrtle (Kalmia buxifolia) (Brun	SR swick, Ne	ew Hanove	S1 er)	G3
Cycnia inopinatus Unexpected Cycnia Moth CS: on milkweeds (Asclepias) (Harnett, Onslow, Pender	SR)		S2S3	G4
Dargida aleada an Armyworm Moth T: maritime grasslands (Carteret)	SR		S1S2	GNR
Dargida rubripennis Pink Streak CS: beach grasslands and sandy fields (Carteret, Dare)	SR		S2S3	G3G4
Dasychira leucophaea a Tussock Moth CS: habitat not known (Moore, New Hanover)	SR		S2S3	G4
Post-burn Datana Moth CSPM: recently burned flatwoods and sandhills (Bladen Onslow)	SR ı, Brunswi	ick, Colum	S2S3 nbus, New H	G3G4 Ianover,
Datana robusta a Prominent Moth C: savannas, flatwoods, and sandhills (Onslow)	SR		S1S2	G2G4
Derrima stellata Pink Star Moth M: habitat not known (Avery*, Transylvania*)	SR		SH	G4
Digrammia ordinata Amorpha Angle CS: sandhills, mainly near the coast (Cumberland, Harne	SR ett)		S2S3	GNR

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Drasteria graphica Graphic Moth T: maritime shrub thickets (Brunswick, New Hanover)	SR		S1S2	G4	
Eilema bicolor Bicolored Moth M: spruce-fir forests (Swain)	SR		S1S2	G5	
Elaphria cyanympha a Midget Moth C: sandhills (Onslow, Pender)	SR		S2S3	G4	
Entephria separata a Geometrid Moth M: high elevation forests or heath balds (Yancey)	SR		S1	G4	
Erastria coloraria Broad-lined Erastria Moth SP: open woodlands with New Jersey tea (Ceanothus an Richmond, Wake)	SR nericanus) (Cumber	S2S3	G3G4	
Eubaphe meridiana Little Beggar Moth CS: savannas (Brunswick, Pender)	SR		S2S3	G4	
Euchlaena milnei Milne's Euchlaena M: hardwood forests, perhaps in riparian areas (Swain, V	SR Watauga)		S1S3	G2G4	
Eucoptocnemis dapsilis a Dart Moth CS: habitat not known (New Hanover)	SR		S2S3	G4	
Eulithis propulsata Currant Eulithis Moth M: high elevation forests (Ashe)	SR		S2S3	G4	
Euxoa declarata Clear Dart Moth M: habitat not known (Ashe, Avery, Haywood, Watauga	SR		S2?	G4G5	
Exyra fax Epauletted Pitcher-plant Moth PC: wetlands with purple pitcher-plants (Brunswick, Ca.)	SR	mborland	S2S3	G4	

PC: wetlands with purple pitcher-plants (Brunswick, Carteret, Cumberland, Dare, Hoke, Montgomery, Moore, Pender, Richmond)

Scientific Name		Status		nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Exyra ridingsii a Pitcher-plant Moth PC: wetlands with yellow pitcher-plants (Moore, Pender	SR		S2	G2G4
Exyra semicrocea a Pitcher-plant Moth C: wetlands with pitcher-plants (Bladen, Brunswick, Mo	SR pore, Onsl	ow, Pende	S2S3 er)	G3G4
Feltia manifesta Adobe Dart CSM: xeric oak woodlands (Brunswick, Moore, New Ha	SR anover, O	nslow, Pe	S2S3	G4
Franclemontia interrogans Franclemont's Cane Moth C: canebrakes (Camden, Carteret)	SR		S2S3	G3G4
Gabara sp. 1 a Noctuid Moth C: savannas and flatwoods (Brunswick, Onslow, Pender	SR)		S1S2	G1G3
Gazoryctra sciophanes a Ghost Moth M: spruce-fir forests (Jackson)	SR		S1?	GU
Grammia doris Doris Tiger Moth MP: rich forests? (Wake)	SR		S1S3	G4?
Grammia placentia Placentia Tiger Moth SM: sandhills and dry forests (Moore)	SR		S2	G3G4
Hadena ectypa Campion Coronet M: forests or forest edges with Silene (Haywood, Swain)	SR)		S1S2	G3G4
Hemaris gracilis Slender Clearwing C: sandhills, barrens, and other dry heathlands; no locali	SR ty data		SH	G3G4
Hemeroplanis sp. 1 nr. obliqualis an Owlet Moth PS: dry woodlands with dwarf locusts (Cumberland, Ho	SR ke, Moore	e, Stokes)	S2S3	GNR
Hemipachnobia monochromatea Sundew Cutworm Moth C: cranberry bogs and northern low pocosins (Dare)	SR		S1?	G4

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Hemipachnobia subporphyrea	SR	FSC	S1?	G1	
Venus Flytrap Cutworm Moth C: savannas with Venus flytraps (endemic to North Card Columbus, Pender)	olina) (Bla	aden*, Bru	ınswick, Caı	rteret,	
Heterocampa varia	SR		S1S2	G3G4	
a Prominent Moth SPM: xeric pine-oak sandhills and other dry, scrub oak l Richmond)	habitats ((Cumberlan	id, Hoke, M	oore,	
Hydriomena exculpata a Geometrid Moth M: spruce-fir forests (Yancey*)	SR		SH	GU	
Hypagyrtis brendae Brenda's Hypagyrtis Moth CS: Atlantic white coder forests (Proposition Pero Pero	SR	d)	S2S3	G4	
CS: Atlantic white cedar forests (Brunswick, Dare, Pend Hypomecis buchholzaria Buchholz's Gray CS: fire-maintained glades and barrens (Carteret, Moore	SR	ana)	S1S2	G3G4	
Idaea ostentaria Showy Wave CS: sandhills (New Hanover, Northampton)	SR		S2S3	GNR	
Idia majoralis Greater Idia Moth P: associated with woodrat nests (Stokes)	SR		S1S3	GNR	
Iridopsis cypressaria Small Cypress Looper C: cypress swamps (Beaufort, Brunswick, Camden, Dar	SR a Martin	New Hon	S2S3	GU	
Korscheltellus gracilis Conifer Swift Moth M: spruce-fir forests; no locality data	SR	, ivew fram	S1S2	GNR	
Lagoa pyxidifera Yellow Flannel Moth CS: savannas, flatwoods, and sandhills (Brunswick, Cur	SR mberland	Moore Po	S2S3	G4G5	
Lemmeria digitalis Fingered Lemmeria Moth S: sedge meadows (Cumberland)	SR		S1S3	G4	

Scientific Name		Status		nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Leptostales laevitaria Raspberry Wave C: habitat not known (Brunswick, Onslow, Pender)	SR		S2S3	G4
Leucania calidior Cane Wainscot C: canebrakes (Halifax, Northampton)	SR		S1S2	G2G4
Lithophane georgii Large Grey Pinion M: spruce-fir forests (Ashe, Yancey)	SR		S1S2	G5
Lithophane laceyi a Pinion Moth C: swamp forests (Brunswick, Moore, New Hanover, Pe	SR ender)		S1S3	G4
Lithophane oriunda Immigrant Pinion M: no habitat data (Watauga)	SR		S1?	G4
Loscopia roblei Roble's Cane Borer CS: woodland canebrakes (Martin)	SR		S2S3	G3G4
Lytrosis permagnaria A Geometrid Moth M: apparently in mixed forests (Haywood, Macon) (Ora	SR nge)		S2S3	G3G4
Macrochilo sp. 1 nr. absorptalis a Noctuid Moth S: sedge meadows (Cumberland, Hoke)	SR		S1	G3
Melanapamea mixta a Borer Moth CSPM: savannas, wet meadows (Transylvania)	SR		S2S3	GU
Meropleon cinnamicolor a Borer Moth T: coastal marshes (Carteret)	SR		S1?	GU
Meropleon diversicolor sullivani an Owlet Moth T: coastal marshes (Brunswick, Craven)	SR		S1S2	G4T1T3
Metalectra albilinea White-lined Fungus Moth C: no habitat information (New Hanover)	SR		S2S3	GNR

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Nematocampa baggettaria Baggett's Nematocampa	SR		S1S2	G2G4
CS: unknown habitat (Brunswick, Onslow, Pender) Nemoria tuscarora Tuscarora Emerald M: unknown habitat (Allaghany)	SR		S1S3	GU
M: unknown habitat (Alleghany) Orgyia antiqua Rusty Tussock Moth M: unknown habitat (Haywood)	SR		S1S2	GNR
Pachypolia atricornis Three-horned Sallow M: northern hardwoods and rich cove forests? (Ashe)	SR		S2S3	G3G4
Papaipema appassionata Pitcher-plant Borer Moth CS: wetlands with pitcher-plants (Brunswick, Pender)	SR		S2S3	G4
Papaipema astuta Yellow Stoneroot Borer Moth M: rich cove forests? (Swain)	SR		S1S2	G2G4
Papaipema cerina Golden Borer Moth M: northern hardwood forests (Ashe)	SR		S1S2	G2G4
Papaipema eryngii Rattlesnake-master Borer Moth C: savannas with Eryngium yuccifolium (known from the site) (Pender)	SR he entire A	C	S1 ope only from	G1G2 m a single
Petrophora subaequaria Northern Petrophora Moth M: unknown habitat (Haywood*)	SR		SH	G4G5
Photedes carterae Carter's Noctuid Moth CS: savannas and sandhills with pinebarrens sandreed (6 Brunswick, Carteret*, Onslow, Pender)	SR Calamovi	lfa brevipil	S2S3	G2G3
Platarctia parthenos St. Lawrence Tiger Moth M: northern hardwood forests? (Swain)	SR		S1S2	G5

Scientific Name		Status		nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Protapamea louisae Louisa's Cane Borer M: canebrakes (Macon*)	SR		SH	GNR
Ptichodis bistrigata Southern Ptichodis CSP: xeric sandhills (Bladen, Brunswick, Gaston, Moore	SR e, New H	anover, O	S2S3	G3
Pygarctia abdominalis Yellow-edged Pygarctia CS: xeric sandhills (Brunswick, Moore, Onslow, Pender	SR)		S2S3	G3
Pyreferra ceromatica Annointed Sallow Moth C: flatwoods and pocosins, probably with Fothergilla (Co	SR Craven)		S1S2	GU
Pyrrhia aurantiago Orange Sallow Moth CSM: dry woods with false-foxgloves (Aureolaria) (New	SR w Hanove	er)	S1S3	G3G4
Schinia bina Bina Flower Moth SC: sandhills (Brunswick*, Moore*)	SR		SH	G4
Schinia carolinensis Carolina Schinia Moth CS: savannas and sandhill seeps (Pender)	SR		S2S3	G3
Schinia jaguarina Jaguar Flower Moth CS: savannas and sandhills (Pender)	SR		S1S3	G4
Schinia septentrionalis Northern Flower Moth CS: sandhills (Brunswick*, New Hanover*)	SR		SH	G3G4
Schizura apicalis Plain Schizura CSM: dry woodland and scrub habitats (Ashe, New Han	SR over)		S1S2	G3G4
Schizura sp. 1 a new Prominent Moth PC: unknown (Brunswick, Onslow, Wake)	SR		S1S2	GU
Sphingicampa bisecta Bisected Honey Locust Moth P: habitats with honey locust (Gleditsia) (Chatham)	SR		S1?	G5

Scientific Name	Stat	us	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Stenoporpia polygrammaria	SR		S1S2	GU
Faded Gray Geometer				
P: Hanging Rock State Park (Stokes)				
Syngrapha alias	SR		S2?	G5
Hooked Silver Y Moth				
M: spruce-fir forests (Avery, Swain)				
Tolype minta	SR		S2S3	G4
Southern Tolype Moth				
CS: longleaf pine stands (Columbus)				
Xestia perquiritata	SR		S1S2	G5
Boomerang Dart				
M: spruce-fir forests (Swain)				
Zale declarans	SR		S2S3	G5
Dixie Zale				

Scientific Name		us	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Grasshoppers	and Ka	tydids		
Arphia granulata Southern Yellow-winged Grasshopper C: flatwoods, sandhills (Bladen, Onslow, Pender)	SR		S2S3	G5
Booneacris variegata Variegated Wingless Locust M: a variety of high elevation habitats (Avery, Transylv	SR ania)		S2?	G5
Dendrotettix zimmermanni Carolina Oak Grasshopper M: oak woodlands (endemic to the southern end of the	SR Appalachi	an Mounta	S1?	GU ylvania)
Eotettix pusillus Little Eastern Grasshopper CS: sandhill seeps and wet pine savannas (Moore*, Ons	SR low, Pend	ler)	S2?	G2G3
Melanoplus angustipennis Narrow-winged Spur-throat Grasshopper S: sandy areas in grasslands (Moore*)	SR		SH	G5
Melanoplus attenuatus Slender-bodied Short-wing Grasshopper C: wet swales in pinewoods (Brunswick*)	SR		SH	G2G3
Melanoplus carnegiei Carnegie Short-wing Grasshopper M: open pine and oak forests (Buncombe*)	SR		SH	GU
Melanoplus cherokee Cherokee Melanoplus M: woodlands, 1800' - 5100' (Buncombe, Haywood, Ma	SR adison Sw	vain)	S2?	G1G3
Melanoplus coreyi a Spur-throat Grasshopper S: flatwoods, savannas, sandhill seeps (endemic to Nort	SR		S1 rland, Hoke	GNR , Moore,
Richmond, Scotland) Melanoplus deceptus Deceptive Melanoplus M: mountain slopes and tops, 4000' - 5700' (Haywood, 1	SR Jackson, N	Ласоп, Ма	S2S3	G2G4
Melanoplus decoratus Decorated Melanoplus M: dry woodlands (records not yet entered)	SR	•	S1S2	GU

Scientific Name	Stat	us	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Melanoplus decorus	SR		S2S3	G2G3
Decorated Spur-throat Grasshopper				
C: savannas, flatwoods, low pocosins (endemic to North Pender)	Carolina)) (Carteret	t, Dare, Onsl	low,
Melanoplus divergens	SR		SH	G2G3
Lobecercus Short-wing Grasshopper				
M: glades and balds, mainly at high elevations (Haywoo Swain*)	od*, Hende	erson*, Ja	ckson*, Mac	con*,
Melanoplus eurycercus	SR		S1	G4
a Spur-throat Grasshopper				
M: no habitat information (Avery, Mitchell)				
Melanoplus impudicus	SR		SH	G4G5
Immodest Spur-throat Grasshopper				
M: barrens and glades (Cherokee*)				
Melanoplus mirus	SR		S1?	GH
Weldon Short-wing Grasshopper	211		221	022
CP: open woodlands (endemic to North Carolina) (Blad	en, Halifa:	x*, Surry*	*)	
Melanoplus nubilus	SR		S2	G2G3
Nubile Short-wing Grasshopper	SK		52	G2G3
CS: flatwoods, savannas, sandhill seeps (endemic to No Harnett)	rth Carolii	na) (Bruns	swick, Cumb	perland,
Melanoplus pachycercus	SR		S1S2	G2G3
a Spur-throat Grasshopper				
M: grassy balds and woodland openings and margins (A	very, Mac	on, Mitch	nell, Yancey)
Melanoplus serrulatus	SR		SH	G1G3
Nantahala Short-wing Grasshopper				
M: valleys and lower slopes in the Nantahala Mountains yet entered)	s (endemic	to North	Carolina) (r	ecords not
Melanoplus similis	SR		SH	G5
a Spur-throat Grasshopper				
M: open woodlands (Cherokee*, Haywood*)				
Melanoplus sylvestris	SR		S1S2	G1G3
a Spur-throat Grasshopper				
MP: deciduous forest undergrowth, especially near low-Carolina) (Stokes)	growing e	ericads (en	idemic to No	orth
Mermiria bivittata	SR		S2S3	G5
Two-striped Mermiria				
CT: dune grasslands and other grassy areas in or near co New Hanover)	oastal fores	sts (Bruns	wick, Carter	ret, Dare,

Scientific Name	Status		Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Mermiria intertexta	SR		S2S3	G4?
Intertexta Mermiria				
T: coastal marshes and damp depressions (Dare, New H				
Scudderia septentrionalis	SR		S2S3	G3?
Northern Bush Katydid				
M: forests (Alleghany, Ashe)				
Stethophyma celatum	SR		S1S2	G4
Broad-winged Sedge Grasshopper				
CS: wet savannas, seepage bogs (Brunswick, Onslow, P	ender)			
Trimerotropis saxatilis	SR		S2?	G3
Lichen Grasshopper				

Scientific Name	Sta	tus	Rai	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Beet	tles			
Cicindela ancocisconensis Appalachian Tiger Beetle M: mainly sand bars or other sandy areas near rocky stronger.	SR eams or s	mall rivers	S1S2 (Haywood,	G3 Jackson)
Cicindela nigrior Autumn Tiger Beetle P: hard-packed sandy uplands (Anson, Moore*, Scotland	SR l)		S1	G2G3
Cicindela patruela Northern Barrens Tiger Beetle MP: sandy soil in open pine or pine-oak woods (Avery, Wake, Watauga, Yancey)	SR Haywood	d, Macon, M	S2? Mitchell, Tra	G3 ansylvania,
Ellipsoptera lepida Ghost Tiger Beetle T: sand dunes along northern coast (Dare)	SR		S1?	GNR
Nicrophorus americanus American Burying Beetle M: sites with abundance of small vertebrate carrion (Burying Beetle)	SR ncombe*	E , Yancey*)	SH	G2G3
Stenelmis gammoni Gammon's Stenelmis Riffle Beetle MP: South Fork New River, upper Yadkin River basin (SR Alleghan	y, Ashe, Ir	S2 edell, Surry,	G1G3 Yancey)

Scientific Name		Status		ınk
Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: True	Bugs			
Chlorochroa dismalia	SR		S1?	G1G3
Dismal Swamp Green Stink Bug				
C: canebrakes (Craven, Harnett*, Hyde*, Onslow*)				

Insects: Bees

Bombus affinis SR E S1 G1
Rusty-patched Bumblebee (2017-03-21)

MPC: Avery*, Buncombe*, Catawba*, Clay*, Durham*, Graham*, Haywood*, Henderson*, Jackson*, Macon*, McDowell*, Mitchell*, Moore*, Rowan*, Swain, Transylvania*, Wake, Watauga*, Wayne*, Wilson*, Wilkes, Yancey*

NORTH CAROLINA ANIMAL WATCH LIST

The North Carolina Animal Watch List includes species that are rare or uncommon, are not well studied, or are otherwise threatened with serious decline but for which current information does not justify placement on the Rare List by the NCNHP. Watch List species can be indicators of significant habitats, and their presence should be considered in planning natural area protection efforts, though obviously with less weight than higher priority rare species and natural communities. The NCNHP maintains digital files on these species but does not include them in its GIS maps or database. Animals placed on this list fall into a number of categories, discussed below. The NCNHP requests additional information about these species in order to clarify their status and reclassify them into other appropriate and more specific categories. Counties of known occurrence are listed for most groups. A few groups, such as birds, are migratory, and thus counties of occurrence will be misleading.

Reasons for the current placement of species on the Watch List rather than at a high rarity status (Endangered, Threatened, Special Concern, or Significantly Rare) vary. The taxonomic validity of some of these species is currently in doubt. For many of them, the NCNHP lacks adequate documentation of their historic or present extent in North Carolina; this is especially true for invertebrates. Others are known to be rare or uncommon in North Carolina but may not be native to the state, and they may or may not be declining. Some others may not necessarily be rare yet, but they are undergoing significant losses of or disturbances to their habitats. For most species, however, their actual rarity is poorly known and we are **requesting more data for every Watch List category** before such species receive a higher, and more formal, rarity status. A field survey form is provided online at http://www.ncnhp.org/share-data/contribute/animal-survey-form. We request that people fill out this survey form and mail it to NCNHP after visiting occurrences of these species.

The Watch List has been divided into categories, which have been devised to indicate the reasons for each species' current placement. These categories and their descriptions have been developed by the NCNHP. A number of species have been placed in two Watch categories because it is believed they may be at risk for at least two reasons.

CATEGORY	DESIGNATION	DESCRIPTION
W1	Population Decline in NC	Species that are known to be declining in North Carolina . The distribution or population sizes of such species in the state are fairly well known; loss of habitat is not necessarily a factor.
W2	Rare but Relatively Secure	Species whose status in N.C. is relatively well known and appear to be relatively secure at this time. While still notably rare, these species do not currently require site-specific monitoring and so are not on the Rare List. Many of these species were formerly on the Rare List; they are retained in this category because they require a lower level of monitoring to ensure their long-term security.
W3	Poorly Known in NC	Species with inadequate information about their distribution and rarity in N.C. These are generally species which appear to be rare based on museum records and field experience of NCNHP staff, consultants, and cooperating scientists. Further information is needed to determine the true status of these species in N.C.

CATEGORY	DESIGNATION	DESCRIPTION
W4	Rare but Questionable Documentation	Species that have been reported from N.C. without adequate documentation. These species should be listed at a higher level when their reported occurrence in N.C. is verified. This category includes sight records, old and vague reports for which no documentation has appeared, and, in a few cases, more recent literature reports for which we have not yet received documentation.
W5	Threat to Habitat	Species with increasing amounts of threats to its habitat, whether or not populations are known to be declining. These threats can include loss of habitat (e.g., the dramatic loss of maritime forests), degradation of habitat (e.g., pollution and sedimentation of rivers and streams), and disturbance to the habitat (e.g., humans and vehicles on beaches), among other types of threats. Threats can also include use of pesticides, acid rain, fire suppression, over-collection by zoologists, and other factors.
W6	Rare but Believed Not Native	Species known to occur in N.C. that current data suggest are not native to N.C. but whose native occurrence is plausible. Some of these species were previously listed at a higher level, but field investigations suggest that all known N.C. occurrences are introductions.

Scientific Name	Stat	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Mammals	S			
Dasypus novemcinctus	W3		SU	G5
Nine-banded Armadillo				
CPM: many forested and scrub habitats, preferably whe mainly in southern counties (Bladen, Brunswick, Cataw Haywood, Henderson, Jackson, Lincoln, Macon, New F	ba, Cherc	kee, Clev	eland, Gasto	n,
Lasiurus cinereus	W2		S3S4	G3G4
Hoary Bat				
MP: mostly mid- to high elevation forests, sparingly int (Avery, Buncombe, Burke, Cherokee, Clay, Graham, H Polk, Rutherford, Stanly, Swain, Transylvania, Watauga	laywood,	Jackson,	_	• /
Lasiurus seminolus	W2		S3	G5
Seminole Bat				
CSPM: forages over open areas, often over water (summ (Bladen, Brunswick, Buncombe, Carteret, Cherokee, Co Lenoir, Mecklenburg, Montgomery, Moore, New Hanov	olumbus,	Gates, Ho	ke, Johnston	
Mustela frenata	W3		S3S4	G5
Long-tailed Weasel				
MPSC: forests, brushy areas (Alleghany, Ashe, Avery, Cabarrus, Catawba, Chatham, Cherokee, Clay, Craven, Gates, Guilford, Haywood, Henderson, Johnston, Jones, Mecklenburg, Mitchell, Montgomery, Moore, Nash, Ora Robeson, Stanly, Swain, Transylvania, Union, Wake, W.	Currituck , Lenoir, I ange, Pas	, Dare, Di Macon, M quotank, I	uplin, Durha adison, Mart Perquimans,	m, Forsyth, tin,
Neotoma floridana haematoreia	W2		S3S4	G5T4Q
Southern Appalachian Eastern Woodrat				
MP: rocky places in deciduous or mixed forests, in sout (Buncombe, Burke, Catawba, Cherokee, Graham, Hayw Madison, McDowell, Polk, Rutherford, Swain, Transylv	ood, Hen			
Puma concolor couguar	W4,E	${f E}$	SX	G5TXQ
Eastern Cougar				
MPC: extensive forests, remote areas (Graham*, Haywo	ood*, Swa	nin*)		
Sciurus niger	W2		S 3	G5
Eastern Fox Squirrel				
SCMP: open forests, mainly longleaf pine/scrub oak (A Bertie, Bladen, Brunswick, Buncombe*, Catawba, Chat				

SCMP: open forests, mainly longleaf pine/scrub oak (Alleghany, Anson, Ashe, Avery*, Beaufort, Bertie, Bladen, Brunswick, Buncombe*, Catawba, Chatham, Cherokee*, Clay*, Columbus, Craven, Cumberland, Davidson, Davie, Duplin, Edgecombe, Forsyth, Graham*, Halifax, Harnett, Hoke, Johnston, Lee, Macon*, Martin, Mecklenburg, Montgomery, Moore, New Hanover, Onslow, Pender, Pitt, Richmond, Robeson, Sampson, Scotland, Stokes, Surry, Swain*, Tyrrell, Union, Wake, Washington, Watauga, Wayne, Wilkes, Wilson)

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Sorex hoyi	W2		S3	G5
American Pygmy Shrew				
MC: montane deciduous forests; old fields and forests in Burke, Camden, Cherokee, Clay, Gates, Graham, Hayw Rutherford, Swain, Transylvania, Wilkes, Yancey)			`	
Sylvilagus aquaticus	W4		SNA	G5
Swamp Rabbit				
MP: swamps, floodplain forests close to the Georgia and unidentifiable to species due to poor condition (Clay*)	d South C	Carolina sta	ate lines; spe	ecimen
Synaptomys cooperi stonei	W2		S3	G5TNR
Stone's Southern Bog Lemming				
M: bogs and wet meadows (Avery, Buncombe, Graham Swain, Watauga, Yancey)	, Haywoo	od, Macon	, Madison, N	Aitchell,
Zapus hudsonius	W2		S3	G5
Meadow Jumping Mouse				

MP: open moist fields and brushy places, usually near water (Alleghany, Buncombe, Clay, Durham, Forsyth, Haywood, Macon, Mecklenburg, Mitchell, Swain, Wake, Watauga)

Scientific Name	Sta	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Birds				
Accipiter gentilis	W3		SUB	G5
Northern Goshawk				
M: extensive, remote forests, mainly at high elevations (for nesting	ng) [breedi	ing evidence or	nly]
Ammodramus caudacutus	W3		SUB,S4N	G4
Saltmarsh Sparrow				
T: tidal marshes [breeding season only]				
Ammodramus savannarum	W1,W	5	S3B,S1N	G5
Grasshopper Sparrow				
Gaston, Granville, Guilford, Halifax, Harnett, Haywood Lincoln, Macon, Madison, Martin, Mecklenburg, Montg Northampton, Onslow, Orange, Person, Pitt, Randolph, Rowan, Rutherford, Sampson, Scotland, Stanly, Union, Watauga, Wayne, Wilson, Yadkin)	gomery, N Richmon	Moore, Nas d, Robeso	sh, New Hanov n, Rockingham	ver, n,
Anas discors	W3		SHB,S2N	G5
Blue-winged Teal				
TC: fresh to slightly brackish marshes, usually at impou	ndments	[breeding	evidence only]	(Dare*)
Anhinga anhinga	W2		S3B	G5
Anhinga				
C: wooded lakes or ponds, or open swamps (for nesting) Brunswick, Carteret, Chatham, Columbus, Craven, Curr Jones, New Hanover, Robeson, Sampson)				
, , , , , , , , , , , , , ,				
Antrostomus carolinensis	W1		S5B	G5
	W1		S5B	G5
Antrostomus carolinensis	W1		S5B	G5
Antrostomus carolinensis Chuck-will's-widow	W1 W1		S5B S4B	G5 G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods				
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus	W1	usually no	S4B	G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus Eastern Whip-poor-will MPSC: upland (dry to mesic) woodlands and forests for	W1	usually no	S4B	G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus Eastern Whip-poor-will MPSC: upland (dry to mesic) woodlands and forests for openings	W1 nesting,	usually no	S4B t far from field	G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus Eastern Whip-poor-will MPSC: upland (dry to mesic) woodlands and forests for openings Asio flammeus	W1 nesting,	usually no	S4B t far from field	G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus Eastern Whip-poor-will MPSC: upland (dry to mesic) woodlands and forests for openings Asio flammeus Short-eared Owl TC: coastal marshes [breeding season only]	W1 nesting, W3	usually no	S4B t far from field SUB,S3N	G5 ds or G5
Antrostomus carolinensis Chuck-will's-widow PSC: drier forest edges and open woods Antrostomus vociferus Eastern Whip-poor-will MPSC: upland (dry to mesic) woodlands and forests for openings Asio flammeus Short-eared Owl	W1 nesting,	usually no	S4B t far from field	G5 Is or

Scientific Name	Sta	itus	Ranl	k
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Calidris canutus rufa Red Knot Rufa subspecies T: beaches and sand flats [wintering habitat only] (Brun	W1 swick, C	T arteret, Cu	S2N arrituck, Dare,	G4T2 Hyde,
New Hanover, Onslow, Pender)				
Chaetura pelagica Chimney Swift MPSC: nest in chimneys, or other anthropogenic structuincluding cities, farm fields, and over forests. After nest communally in tall chimneys				
Chordeiles minor	W 1		S3B	G5
Common Nighthawk TCSPM: dunes, sandy open areas, sandhills, gravel roof (most counties in the Coastal Plain, and scattered count	•	_	•	• •
Contopus cooperi	W3,S	C	SNA	G4
Olive-sided Flycatcher				
M: montane conifer forests (mainly spruce-fir) with ope	nings or	dead trees	[breeding sea	son only]
Corvus corax	W2		S3	G5
Common Raven MP: cliffs or ledges for nesting; forests or fields (mainly evidence only] (Ashe, Avery, Forsyth, Guilford, Haywo Mecklenburg, Mitchell, Rutherford, Stokes*, Surry, Wa	od, Heno	derson, Jac		[breeding
Empidonax minimus	W2		S3B	G5
Least Flycatcher				
M: open hardwood forests, groves, streamside trees [bre Avery, Buncombe, Graham, Haywood, Henderson, Jack Transylvania, Watauga, Yancey)	_			
Empidonax traillii	W2		S3B	G5
Willow Flycatcher				
MP: wet thickets in open country, often along streams in (Alleghany, Ashe, Avery, Buncombe, Burke, Cabarrus, Graham, Guilford, Haywood, Henderson, Jackson, Mac Rockingham, Stokes, Surry, Swain, Transylvania, Wake	Caldwell on, Madi	l, Cheroke son, McD	e, Clay, Forsy owell, Mitchel	th, ll,
Eudocimus albus	W 2		S3B,S3N	G5
White Ibis				
TC: forests or thickets on maritime islands, rarely at por Carteret, Columbus, Currituck, Hyde, New Hanover, Or	_	•	only] (Brunsw	rick,
Euphagus carolinus Rusty Blackbird	W1		S3N	G4
COD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~	11 5		1.7.

CSP: swamps and other moist hardwood forests, usually near fields [wintering habitat only] (most counties in the Coastal Plain, and many in the Piedmont)

Scientific Name	Sta	tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Gallinula galeata	W2		S3B,S2N	G5
Common Gallinule				
TC: freshwater ponds and impoundments with much em (Brunswick, Carteret, Craven, Currituck, Dare, Hyde, N Robeson, Wayne)				
Geothlypis philadelphia	W3		SUB, SZN	G5
Mourning Warbler				
M: high elevation shrub thickets, especially of blackbern	ries [bree	ding seaso	n only]	
Helmitheros vermivorum pop. 1	W5		S3B	G5TNR
Worm-eating Warbler - Coastal Plain Population				
C: nonriverine wet hardwoods, pocosins [breeding sease Camden, Carteret, Columbus, Craven, Currituck, Dare, Onslow, Pamlico, Pasquotank, Pender, Pitt, Robeson, T	Gates, H	yde, Jones	, New Hanover	
Lanius ludovicianus	SC, W	72	S3B,S3N	G4
Loggerhead Shrike				
PSC: fields and pastures [breeding season only] (Alama Brunswick, Cabarrus, Carteret*, Chatham, Cleveland, C Duplin, Edgecombe, Forsyth, Franklin, Guilford, Halifa Lee, Lenoir, Mecklenburg, Montgomery, Moore, Nash, Rockingham*, Rutherford, Sampson, Scotland, Stanly, Wayne, Wilson)	columbus x, Harnet New Har	Cumberla t, Hoke, It nover, Pitt,	and, Davidson, redell, Johnstor Richmond, Ro	n, Jones, obeson,
Lophodytes cucullatus	W3		S1B,S4N	G5
Hooded Merganser				
PMC: lakes and ponds, with dead trees for nesting [bree Chatham, Durham, Edgecombe, Guilford, Jones, Orango	_	lence only] (Bladen, Burk	ĸe,
Nycticorax nycticorax	W1		S3B,S3N	G5
Black-crowned Night-Heron				
T: maritime thickets or forests, almost always on small in Carteret, Columbus, Currituck, Dare, Hyde, New Hanov	_	•	• • •	wick,
Onychoprion fuscatus	W2		SHB,S3N	G5
Sooty Tern				
T: sand flats on maritime islands [breeding sites only] (I	Dare*)			
Podilymbus podiceps	W2		S3B,S5N	G5

Pied-billed Grebe TC: fresh to slightly brackish p

TC: fresh to slightly brackish ponds and impoundments, usually with fringing vegetation [breeding season only] (Beaufort, Brunswick, Carteret, Craven, Cumberland, Dare, Hyde, New Hanover, Onslow, Pamlico, Pender, Washington, Wayne)

Scientific Name Status Rank
Common Name

Region: Habitat Comments (Counties of Occurrence) N.C. U.S. N.C Global

Rallus elegans W1,W3 S3B,S3N G4

King Rail

TCP: fresh to slightly brackish marshes [breeding season only] (Brunswick, Carteret, Chatham, Cumberland, Currituck, Dare, Hyde, New Hanover, Onslow, Pamlico, Pender, Tyrrell, Wake, Washington, Wayne)

Rallus limicola W3 S3B,S5N G5

Virginia Rail

T: brackish to nearly fresh marshes near coast [breeding season only] (Carteret, Currituck, Dare, Hyde, Pamlico)

Regulus satrapa W2,W5 S3S4B,S5N G5

Golden-crowned Kinglet

M: spruce-fir forests; hardwood forests mixed with spruce or hemlock [breeding season only] (Ashe, Avery, Buncombe, Burke, Caldwell, Graham, Haywood, Henderson, Jackson, Macon, McDowell, Mitchell, Swain, Transylvania, Watauga, Yancey)

Sitta canadensis W2,W5 S3B,S4N G5

Red-breasted Nuthatch

M: high-elevation coniferous forests, preferably spruce-fir [breeding season only] (Alleghany, Ashe, Avery, Buncombe, Burke, Caldwell, Graham, Haywood, Henderson, Jackson, Macon, McDowell, Mitchell, Swain, Transylvania, Watauga, Wilkes, Yancey)

Spinus pinus W3 SUB,S3N G5

Pine Siskin

M: spruce-fir forests [breeding evidence only] (Avery, Buncombe, Caldwell, Haywood, Jackson, McDowell, Mitchell, Swain, Transylvania, Watauga, Yancey)

Sterna forsteri W2 S3B,S5N G5

Forster's Tern

T: salt or brackish marshes, nesting on wrack material or matted grasses [breeding sites only] (Carteret, Dare, Hyde, Pamlico)

Troglodytes hiemalis W2,W5 S3B,S5N G5

Winter Wren

M: cool, moist forests at mid- to high elevations [breeding season only] (Alleghany, Ashe, Avery, Buncombe, Burke, Caldwell, Cherokee, Clay, Graham, Haywood, Henderson, Jackson, Macon, Madison, McDowell, Mitchell, Swain, Transylvania, Watauga, Yancey)

Tyrannus forficatus W3 S1? G5

Scissor-tailed Flycatcher

PS: extensive pastures and fields with scattered trees [breeding evidence only] (Gaston*, Moore*, Orange*, Union*)

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Reptiles				
Apalone spinifera aspera Gulf Coast Spiny Softshell	W2		S3	G5T5
PC: large streams, ponds, and lakes with sandy bottoms Gaston, Iredell, Mecklenburg, Montgomery, Randolph,	•			
Cemophora coccinea	W1,W	5	S3	G5
Scarlet Snake				
CSPM: sandhills, sandy woods, and other dry woods (B Cabarrus, Carteret, Clay, Cumberland, Dare, Duplin, Du Iredell, Johnston, Mecklenburg, Montgomery, Nash, Ne Pender, Pitt, Polk, Randolph, Richmond, Robeson, Rock Scotland, Stanly, Wake, Wayne, Wilson)	ırham, Fo w Hanov	orsyth, Gu er, Onslov	ilford, Harne w, Orange, P	ett, Hoke, amlico,
Kinosternon baurii	W3		S3S4	G5
Striped Mud Turtle				
C: various shallow wet places; ponds, pools, ditches (Bl Craven, Dare, Duplin, Franklin, Gates, Hertford, Lenoir Pender, Perquimans, Wake)				
Lampropeltis elapsoides	W1,W	75	S3	G5
Scarlet Kingsnake				
CSPM: pine flatwoods, mesic pine-hardwood forests (A Brunswick, Carteret, Chowan, Columbus, Craven, Curri Lenoir, Macon, Mecklenburg, Montgomery, New Hano Pasquotank, Pender, Perquimans, Pitt, Polk, Randolph, Scotland, Stanly, Stokes, Tyrrell, Wake)	tuck, Dar ver, Onsl	e, Harnet ow, Orang	t, Hoke, Hyd ge, Pamlico,	le, Jones,
Lampropeltis triangulum	W2		S3	G5
Milk Snake				
MP: wooded slopes, pastures, meadows, especially in ro Avery, Buncombe, Burke, Caldwell, Cherokee, Clay, G. Macon, Madison, McDowell, Mitchell, Rutherford, Surr Yancey)	raham, H	aywood, I	Henderson, J	ackson,
Opheodrys vernalis	W4,S0	C	SNA	G5
Smooth Greensnake				
M: fields and grassy meadows; several sight reports, plu documentation for proof of occurrence in the state	s one old	specimer	n, lack suffic	ient

Rhadinaea flavilata W2 S3 G4

Pine Woods Snake

C: pine flatwoods and other damp woodlands (Beaufort, Bladen, Brunswick, Carteret, Columbus, Craven, Cumberland, Dare, Jones, New Hanover, Onslow, Pamlico, Pender, Sampson, Scotland)

Scientific Name	Stat	tus	Ra	ınk	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Virginia valeriae	W2		S3	G5	

Smooth Earthsnake

CSPM: deciduous or mixed woods, usually in mesic soils (Bladen, Brunswick, Buncombe, Carteret, Chatham, Cherokee, Craven, Duplin, Durham, Franklin, Gaston, Gates, Granville, Guilford, Hoke, Iredell, Jackson, Macon, McDowell, Mecklenburg, Montgomery, Nash, New Hanover, Onslow, Orange, Pender, Pitt, Randolph, Sampson, Stanly, Swain, Union, Vance, Wake)

Scientific Name	Sta	tus	Ra	ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Amphibiar	ıs			
Desmognathus aeneus	W2	FSC	S3	G3G4
Seepage Salamander				
M: seeps, springs, or streams in forests in extreme south Graham, Macon)	western	counties (C	Cherokee, C	lay,
Desmognathus imitator	W2		S3	G3G4
Imitator Salamander				
M: cool, moist high elevation hardwood or spruce-fir fo National Park (Haywood, Swain)	rests; cor	nfined to G	reat Smoky	Mountains
Desmognathus imitator pop. 1	W3		S1?	G3G4TNR
Imitator Salamander - Waterrock Knob population				
M: cool, moist high elevation hardwood or spruce-fir fo (Haywood, Jackson)	rests; cor	nfined to W	aterrock K	nob vicinity
Desmognathus santeetlah	W2		S3S4	G3G4Q
Santeetlah Dusky Salamander				
M: stream headwaters and seepage areas; southwestern Swain)	mountain	ıs (Graham	, Haywood,	Jackson,
Eurycea bislineata	W4		SNA	G5
Northern Two-lined Salamander				
P: edges of creeks in forested areas; reported from Vanc	e County	, but no do	cumentatio	n available
Eurycea sp. 9	W 3		S3	G3?Q
Sandhills Salamander				
C: small streams in the Sandhills (Cumberland, Harnett,	Hoke, M	Ioore, Rich	mond, Scot	tland)
Plethodon glutinosus	W4		\mathbf{SU}	G5
Northern Slimy Salamander				
M: moist wooded slopes, ravines, and floodplains; presumountains	ımed to c	occur in the	northweste	ern
Plethodon jordani	W3		S3	G4
Red-cheeked Salamander				
M: rich forests in the southwestern mountains, essential National Park (Haywood, Swain)	ly restrict	ted to Grea	t Smoky M	ountains
Plethodon richmondi	W2		S3	G5
Southern Ravine Salamander				
M: moist, high-elevation forests, usually on slopes; nort Caldwell, Watauga)	hern mou	ıntains (Al	leghany, As	she, Avery,
Plethodon shermani	W2		S3S4	G3
Red-legged Salamander				
M: moist forests in the southwestern counties (Cherokee	e, Clay, C	Graham, Ma	acon)	

Scientific Name	Sta	tus	Ra	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Rana kauffeldi	W3		SU	GNR
Atlantic Coast Leopard Frog				
C: freshwater wetlands, such as marshes and pond edge province; recently described and range is poorly known				
Siren lacertina	W3		S3	G5

Greater Siren

CS: lakes, ponds, and streams, especially where muddy or with weedy vegetation (Bertie, Brunswick, Chowan, Columbus, Craven, Dare, Hyde, Johnston, New Hanover, Pitt, Richmond, Robeson, Scotland, Tyrrell, Wake, Wilson)

cientific Name	Status		Ra	ank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Freshwater Fi	shes				
Cyprinella labrosa	W5		S3	G4	
Thicklip Chub					
P: Yadkin, Catawba, and Broad drainages (Anson, Burke Davidson, Iredell, Lincoln, McDowell, Polk, Richmond, Wilkes, Yadkin)					
Cyprinella spiloptera	W 5		S2	G5	
Spotfin Shiner					
M: primarily New and French Broad drainages (Allegha Haywood, Macon, Madison)	ny, Ashe	, Buncom	be, Cheroke	ee,	
Cyprinella zanema	W5		S3	G4	
Santee Chub					
P: Catawba and Broad drainages (Burke, Caldwell, Cata McDowell, Mecklenburg, Polk, Rutherford)	wba, Cle	veland, G	aston, Irede	ll, Lincoln,	
Elassoma evergladei	W3		S3	G5	
Everglades Pygmy Sunfish					
C: southern Coastal Plain, mainly Waccamaw drainage (Cumberland, New Hanover, Robeson, Scotland)	(Bladen,	Brunswicl	x, Columbus	5,	
Etheostoma flabellare	W5		S3	G5	
Fantail Darter					
MP: Cape Fear, Neuse, and Tar drainages populations had Roanoke, New, and French Broad populations stable (Al Granville, Guilford, Harnett, Nash, Orange, Person, Roc	lamance,	Caswell,	Chatham, D	urham,	
Etheostoma gutselli	W2		S3	G3G4	
Tuckasegee Darter					
M: Little Tennessee and Pigeon drainages (Graham, Hay	ywood, Ja	ackson, M	acon, Swair	1)	
Etheostoma rufilineatum	W5		S3	G5	
Redline Darter					
M: French Broad, Little Tennessee, and Hiwassee drains Graham, Haywood, Henderson, Macon, Madison, Swain	•			ay,	
Etheostoma vitreum	W5		S3	G4G5	
Glassy Darter					
PC: Chowan, Roanoke, Tar, and Neuse drainages (Bertie Granville, Greene, Halifax, Hertford, Johnston, Lenoir, Rockingham, Stokes, Vance, Wake, Warren, Washington	Martin, N	lash, Nort	hampton, Pi		
Fundulus confluentus	W 2		S3	G5	
Marsh Killifish					
T: fresh to brackish waters along coast (Carteret, Dare, I					

cientific Name	Sta	tus	Ra	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Fundulus luciae	W 2		S3	G4
Spotfin Killifish				
TC: ponds and pools along coast (Brunswick, Carteret, N	New Han	over, Onsl	ow)	
Hypentelium roanokense	W2		S3	G4
Roanoke Hog Sucker				
P: Dan drainage				
Lepomis marginatus	W2		S3	G5
Dollar Sunfish				
CP: streams and rivers of lower Piedmont and Coastal P Craven, Duplin, Durham, Gaston, Greene, Hoke, Jones, Richmond, Robeson, Sampson, Scotland)	`			
Lepomis punctatus	W2		S3	G5
Spotted Sunfish				
C: most drainages in southern Coastal Plain (Anson, Bla Duplin, Hoke, Moore, New Hanover, Pender, Richmond				
Lythrurus matutinus	W2		S3	G3G4
Pinewoods Shiner				
CP: Tar and Neuse drainages (endemic to North Carolin Forsyth, Franklin, Granville, Greene, Halifax, Johnston, Warren, Wayne, Wilson)				
Moxostoma carinatum	W2		S2	G4
· · · · · · · · · · · · · · · · · · ·	W2		S2	G4
Moxostoma carinatum		erokee, Gr		
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain)		erokee, Gr		
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain)	ages (Ch	erokee, Gr	aham, Macc	on,
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus	ages (Ch	erokee, Gr	aham, Macc	on,
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub	ages (Ch	erokee, Gr	aham, Macc	on,
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga)	w2	erokee, Gr	aham, Macc	on, G4Q
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga) Notropis maculatus	w2		saham, Macc S2 S2	on, G4Q G5
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga) Notropis maculatus Taillight Shiner C: southern Coastal Plain drainages (Brunswick, Columb	w2		saham, Macc S2 S2	on, G4Q G5
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga) Notropis maculatus Taillight Shiner C: southern Coastal Plain drainages (Brunswick, Columb	w2 W2 bus, Dup		saham, Macco S2 S2 r, Robeson,	G4Q G5 Sampson)
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga) Notropis maculatus Taillight Shiner C: southern Coastal Plain drainages (Brunswick, Columb	w2 W2 bus, Dup W5 ne, Avery	olin, Pende	s2 S2 r, Robeson, S3 be, Cheroke	G4Q G5 Sampson) G5 ee, Clay,
Moxostoma carinatum River Redhorse M: French Broad, Little Tennessee, and Hiwassee draina Madison, Swain) Nocomis platyrhynchus Bigmouth Chub M: New drainage (Alleghany, Ashe, Watauga) Notropis maculatus Taillight Shiner C: southern Coastal Plain drainages (Brunswick, Columb Notropis photogenis Silver Shiner M: mountain drainages (except Pigeon) (Alleghany, Ash Graham, Haywood, Henderson, Jackson, Macon, Madiso	w2 W2 bus, Dup W5 ne, Avery	olin, Pende	s2 S2 r, Robeson, S3 be, Cheroke	G4Q G5 Sampson) G5 ee, Clay,

M: most mountain drainages, but mainly French Broad and Toe (Alleghany, Ashe, Avery, Buncombe, Burke, Caldwell, Haywood, Henderson, Jackson, Madison, McDowell, Mitchell, Polk, Rutherford, Transylvania, Watauga, Yancey)

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Notropis scabriceps	W2		S2	G4
New River Shiner				
M: New drainage (Alleghany, Ashe, Watauga)				
Percina aurantiaca	W 2		S3	G4
Tangerine Darter				
M: Tennessee drainages (Buncombe, Cherokee, Clay, C Madison, Mitchell, Swain, Watauga, Yancey)	iraham, F	łaywood,	Jackson, Ma	acon,
Phenacobius crassilabrum	W2		S3	G3G4
Fatlips Minnow				
M: Little Tennessee, French Broad, and Toe drainages (Macon, Madison, Mitchell, Swain, Transylvania, Yance		uncombe,	Henderson	, Jackson,
Pimephales notatus	W3		S3	G5
Dl4 Mi				

Bluntnose Minnow

M: clear rocky streams as well as lakes, ponds, and rivers (Alleghany, Ashe, Avery, Cherokee, Watauga, Yancey)

Scientific Name	Status		Ra	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Mollusks: Freshwat	er Bival	ves		
Elliptio cistellaeformis	W3,W	5	SU	G4
Box Spike				
CP: Neuse, Lumber, Pee Dee drainages; Lake Waccama Edgecombe, Franklin, Gates, Granville, Greene, Halifar Pender, Person, Pitt, Robeson, Sampson, Wake, Warren	k, Hertford	, Johnstoi		
Elliptio congaraea	W2,W5	5	S3	G3
Carolina Slabshell				
CSP: drainages north to the White Oak drainage (Ansor Cumberland, Davidson, Duplin, Edgecombe, Franklin, Hertford, Johnston, Lee, Lenoir, Montgomery, Moore, Richmond, Robeson, Sampson, Stanly, Union, Wake, W.	Granville, Nash, Onsl	Guilford,	Halifax, Ha	arnett,
Elliptio producta	W3,W5	5 FSC	SU	G3Q
Atlantic Spike				
CSP: many Atlantic drainages; very difficult to identify Cabarrus, Caldwell, Chatham, Columbus, Duplin, Gasto Jones, Lee, Mecklenburg, Montgomery, Moore, Nash, O	on, Gates,	Granville,	Halifax, Jo	ohnston,
Elliptio raveneli	W3,W5	5	\mathbf{SU}	G3G4Q
Carolina Spike				
PC: most rivers in southern part of state; taxonomic pro	blems			
Elliptio sp. 2	W 3		\mathbf{SU}	GUQ
File Spike				
C: lakes and rivers in the southeastern part of state (end	emic to No	orth Carol	ina)	
Lampsilis sp. 3	W 3		S1?	GU
a bivalve (Deep River system)				
P: Deep River drainage (endemic to North Carolina) (A	nson, Mor	tgomery)		
Sphaerium simile	W3		\mathbf{SU}	G5

Scientific Name			Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Mollusks: Freshwater and Te	rrestria	l Gastro	pods	
Anguispira alternata Flamed Tigersnail M: moist forested areas	W2		S2S3	G5
Anguispira mordax Appalachian Tigersnail M: hardwood forests, especially around limestone outcre Henderson, Macon, McDowell, Rutherford, Swain, Yan		ry, Buncon	S3S4 mbe, Burke,	G4 Graham,
Carychium exiguum Obese Thorn CM: mesic forests (Brunswick*, Duplin*, Franklin*, Ga	W3 ates*, Joh	nston*, Sw	S3?	G5
Euglandina rosea Rosy Wolfsnail C: habitats poorly known (Gates, Harnett, New Hanover	W3	o)	S3?	G5
Gastrocopta armifera Armed Snaggletooth PM: calciphilic; sunny habitats including cedar glades as Gaston)	W3 nd along	railroads (S2S3 Burke, Cata	G5 awba,
Gastrocopta procera Wing Snaggletooth C: calciphilic dry ground with sparse vegetation; scatt	W3	ords, but lit	S3 tle locality	G5 data
Glyphyalinia umbilicata Texas Glyph C: no habitat information; occurs in the southeastern par	W2	tate	S2S3	G5
Glyphyalinia wheatleyi Bright Glyph M: a variety of hardwood forests (Avery, Cherokee, Gra Madison, Swain, Yancey)	W2 .ham, Ha <u>y</u>	ywood, Jac	S3 ekson, Maco	G5
Gyraulus deflectus Flexed Gyro C: eastern Coastal Plain; no habitat or locality information	W3		S2?	G5
Leptoxis virgata Smooth Mudalia M: Valley River (Cherokee)	W3	FSC	SU	G2
Lioplax subcarinata Ridged Lioplax PC: streams and rivers, well documented in Lake Wacca Brunswick, Columbus, Edgecombe, Gates, Halifax, Her		•		,

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Aesomphix andrewsae Mountain Button	W2		S3S4	G3G4	
M: acidic upland hardwood forests (Buncombe, Burke, Graham, Haywood, Henderson, Jackson, Macon, Madis Yancey)				•	
Jeohelix dentifera Big-tooth Whitelip	W3		S3S4	G5	
M: wooded mountainsides, often where acidic (Ashe, A	very, Cal	dwell, Wa	tauga, Yanc	ey)	
Ovisuccinea sp. 1 nr. chittenangoensis an Ambersnail	W4		SU	GNR	
M: northern hardwoods?; uncertain taxonomy and ident	ification	(Graham*))		
Oxyloma effusum Coastal-plain Ambersnail	W3		SU	G3	
C: wetlands with Sagittaria; very little locality informat	ion (Gate	es*, New I	Hanover*)		
Paravitrea bellona Club Supercoil	W4		SNA	G1	
M: wooded river bluffs and ravines; of questionable occ	urrence i	n the state			
Promenetus exacuous Sharp Sprite	W3		S2S3	G5	
C: ponds and streams (Craven, Gates, Martin, Perquima	ns, Wash	ington)			
tenotrema altispira	W2		S3S4	G3	
Highland Slitmouth M: cove forests and northern hardwood forests (Allegha Haywood, Jackson, Macon, Madison, McDowell, Swain	•				
tenotrema pilula	W3		S3?	G3G4	
Pygmy Slitmouth M: rich hardwood forests, mostly at lower elevations (G Madison, McDowell, Polk, Swain)	raham, H	laywood, l	Henderson, l	Macon,	
Striatura ferrea	W 2		S3?	G5	
Black Striate M: ravines and hillsides in higher elevation hardwood for McDowell, Mitchell, Swain, Watauga)	orests (As	she, Graha	m, Haywoo	d, Macon,	
riodopsis burchi	W3		SU	G3	
Pittsylvania Threetooth P: forested habitats in the central and western Piedmont	· no local	ity inform	ation		
		11y 111101111		~ -	
riodopsis vulgata Dishod Throstooth	W2		S3?	G5	
Dished Threetooth MP: hardwood forests, usually around high pH soil or re Graham, Haywood, Macon, Madison, Polk, Swain, Wat			she, Avery,	Clay,	

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Vertigo gouldii	W3		S2S3	G5	
Variable Vertigo					
M: upland woods, especially near rock outcrops (Ashe,	Haywood	l, Swain)			
Vertigo oscariana	W3		S3?	G4	
Capital Vertigo					
CM: mixed woods in the Coastal Plain; ravines and talu Hyde, Jones, Pender, Swain, Tyrrell)	s slopes i	n the mou	ntains (Colu	mbus,	
Vertigo rugosula	W3		S2S3	G4	
Striate Vertigo					
C: primarily in thatch of grasses and sedges in open area	ıs (Colun	nbus, New	Hanover, P	ender)	
Vertigo teskeyae	W3		S3	G5	
Swamp Vertigo					
C: margins of swamps and ponds (Beaufort, Chowan, C	olumbus,	Craven, C	Gates)		
Xolotrema caroliniense	W3		S3?	G4	
Blunt Wedge					
CP: wooded floodplains and slopes, mainly near the Fal Harnett, Mecklenburg, Northampton, Stanly, Union)	l Line (A	nson, Bert	ie, Bladen, l	Halifax,	
Xolotrema denotatum	W3		SU	G5	
Velvet Wedge					
M: wooded hillsides, sometimes in floodplains (Cheroke Swain, Watauga*)	ee*, Grah	am*, Mad	ison*, Mitcl	hell*,	

Scientific Name	Stat	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Arachnids	3			
Fumontana deprehendor	W3	FSC	S3?	G1G2
a Harvestman				
M: rich cove forests (Buncombe, Cherokee, Graham, Ha Transylvania, Yancey)	ıywood, J	Jackson, M	Iacon, Swai	n,
Nesticus bishopi	W3		S3?	G3?
a Cave Cobweb Spider				
M: on ground in forests (endemic to North Carolina); no	locality	informatio	n	
Nesticus nasicus	W3		S3?	G3?
a Cave Cobweb Spider				
M: boulderfields and cove forests (apparently endemic t	o Jackson	County)		
Nesticus reclusus	W3		S3?	G3?
a Cave Cobweb Spider				
M: on ground in forests (apparently in Buncombe, McD Tennessee)	owell, an	d Swain co	ounties, NC	, and in
Vaejovis carolinianus	W2,W	3	S2?	G5
Southern Unstriped Scorpion				

MP: under shelter of rocks, leaves, and buildings, along southern border of state; the many records elsewhere in the state are likely accidental or intentional importations (Cherokee, Polk, Transylvania)

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Crustacear	ıs			
Ascetocythere cosmeta Grayson Crayfish Ostracod M: symbiotic on crayfish in sub-surface waters of burro	W3 ws (Alleg	ghany, Ave	S2?	GNR
Cambarus aldermanorum Carolina Needlenose Crayfish P: Johns River sub-basin of the Catawba drainage (Burk	W3 te, Caldw	ell)	S1?	GNR
Cambarus carolinus Red Burrowing Crayfish M: Little Tennessee and Hiwassee drainages (Cherokee	W3 , Clay, Gr	aham, Jac	S2 kson, Maco	G4 n, Swain)
Cambarus hiwasseensis Hiwassee Crayfish M: streams in Hiwassee drainage (Cherokee, Clay)	W2	FSC	S3S4	G3G4
 a crayfish MP: streams and rivers, species in Hiwassee and New d Broad, Yadkin-Pee Dee drainages (Alexander, Alleghan Cherokee, Clay, Cleveland, McDowell, Montgomery, R Wilkes) 	ıy, Ashe,	Burke, Ca	ldwell, Cata	wba,
Canthocamptus vagus Swamp Canthocamptus CP: in benthos of lakes and ponds within swampy envir	W2,W		S3? y informatio	GNR
Cymocythere clavata Oconee Crayfish Ostracod M: symbiotic on crayfish in mountain streams and rivers	W3	lvania)	S2?	GNR
Cytheridella ilosvayi Backwater Ostracod C: quiet backwaters associated with large coastal rivers	W3 (Brunswi	ck, New H	S2?	GNR
Dactylocythere chelomata Cherokee Crayfish Ostracod M: symbiotic on crayfish in streams and rivers in southy	W2,W western m		S2? Cherokee, M	GNR Macon)
Dactylocythere isabelae Catawba Crayfish Ostracod P: symbiotic on crayfish in Lyle Creek in Catawba drair (Catawba)	W3 nage (ende	emic to No	S1?	GNR

Scientific Name	Stat	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Dactylocythere peedeensis	W3		S2?	GNR
Pee Dee Crayfish Ostracod				
P: symbiotic on crayfish in Pee Dee drainage (endemic South Carolina) (Cabarrus, Randolph, Union)	to North (Carolina, b	out likely oc	curs in
Dactylocythere prinsi	W3		S 1	GNR
Whitewater Crayfish Ostracod				
M: cold streams of Savannah drainage (endemic to Nor Carolina and Georgia) (Jackson)	th Carolin	a, but pos	sible in adja	cent South
Dactylocythere susanae	W2,W	3	S2?	G2G4
Hiwassee Crayfish Ostracod				
M: symbiotic on crayfish in Hiwassee and Nolichucky	drainages;	no localit	y informatio	on
Harpagocythere baileyi	W3		S2?	GNR
Highlands Crayfish Ostracod				
M: symbiotic on crayfish in Little Tennessee and Savan but likely occurs in SC and GA); no locality information		ages (ende	emic to Nort	h Carolina,
Hesperodiaptomus augustaensis	W 3		SH	GNR
Augusta Hesperodiaptomus				
P: ephemeral ponds, such as floodplain pools; near Cha	pel Hill (0	Orange*)		
Lordocythere petersi	W4		SNA	GNR
Cumberland Crayfish Ostracod				
M: symbiotic on crayfish in the Hiwassee drainage (rec	ord based	on a sketc	ch only)	
Miktoniscus medcofi	W3		S1?	GNR
Small Alabama Sowbug				
M: Linville Caverns (McDowell)				
Procambarus ancylus	W 2		S3	G4G5
Coastal Plain Crayfish				
CS: ditches, streams, and lakes in the southeastern porti Columbus, Cumberland, Duplin, Harnett, Hoke, Johnsto Onslow, Pender, Richmond, Robeson, Sampson, Scotla	on, Montg	omery, M		
Procambarus blandingii	W3		S3S4	G4
Santee Crayfish				
C: Lumber and Waccamaw drainages (Bladen, Brunswi Montgomery, Moore, Richmond, Robeson, Scotland)	ick, Colun	nbus, Cum	nberland, Ho	oke,
Procambarus medialis Pamlico Crayfish	W3	FSC	S3	G3

CP: sluggish streams and ditches in the Tar and Neuse drainages (endemic to North Carolina) (Craven, Edgecombe, Halifax, Johnston, Lenoir)

Scientific Name Common Name	Status		Ra	nk
Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Procambarus pearsei	W2		S3S4	G4
Carolina Sandhills Crayfish				
CS: still-water habitats and burrows in the Cape Fear, W Brunswick, Columbus, Cumberland, Duplin, Harnett, H Hanover, Onslow, Pender, Richmond, Robeson, Sampson	oke, John	iston, Mon	tgomery, M	
Stygobromus sp. 4	W3		S1?	GNR
Plott Balsam Sideswimmer				
M: seep below Jones Knob (endemic to North Carolina)	(Jackson	1)		
Waltoncythere acuta	W3	FSC	S2?	GNR

Transylvania Crayfish Ostracod

M: symbiotic on crayfish in high gradient rivers and streams (endemic to North Carolina, but likely occurs in SC) (Transylvania)

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: May	flies				
Anthopotamus myops a mayfly M: First Broad River (Cleveland)	W3		S3	G5	
Drunella longicornis a spiny crawler mayfly M: Watauga, French Broad, Little Tennessee, Savannah	W3	and Cataw	S3 ba drainage	G5	
Ephemerella argo Argo Ephemerellan Mayfly SC: Lower Little River (Hoke), Naked Creek (Richmon River (Robeson, Scotland)	W3 d), Drow	ning Creek	S3	G4 d), Lumber	
Eurylophella enoensis a mayfly CMP: wide-ranging but infrequently collected	W5		S3	G4	
Eurylophella minimella a mayfly CMP: a widespread species, but rare in North Carolina	W2		S3	G4	
Isonychia arida a mayfly C: Cape Fear River (Harnett), Tar River (Edgecombe)	W3		S3	G5	
Isonychia sayi a mayfly C: Fishing Creek (Edgecombe)	W3		S2	G4	
Iswaeon davidi a mayfly M: French Broad, Hiwassee, and Little Tennessee basin	W3		S2	G2	
Leptophlebia bradleyi a mayfly no locality data	W5		S2	G5	
Nixe spinosa a mayfly MP: mainly French Broad and Little Tennessee drainag	W3 es; Deep	Creek (Per	S3	G5	
Paracloeodes fleeki a mayfly	W3		S 3	G2G4	

P: southern Piedmont streams

Scientific Name	Status		Ra	nk	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Pseudocentroptiloides usa	W3		S2	G4	
a mayfly					
PSC: large Piedmont and Coastal Plain rivers, including	Lumber	River			
Serratella spiculosa	W2		S3	G2Q	
Spiculose Serratellan Mayfly					
M: New, Watauga, French Broad, Little Tennessee, Hiw	assee, B	road, and S	Savannah dr	ainages	
Siphloplecton speciosum	W5		S2	G4	
a mayfly					
SC: Lumber River (Hoke, Scotland)					
Sparbarus maculatus a mayfly	W3		S2S3	G5	

C: streams in the Coastal Plain

ientific Name		tus	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Stone	flies			
Acroneuria evoluta Constricted Stone P: central slate belt streams (Chatham, Montgomery, Montgomery)	W5 oore, Rar	ndolph, Sta	S2	G5
Agnetina capitata Northern Stone M: upper Tuckasegee River (Jackson, Madison)	W5		S3	G5
Alloperla neglecta Tennessee Sallfly M: Swain and Haywood counties	W2		S2	G3
Beloneuria georgiana Georgia Stone M: high elevation rheocrenes [spring brooks]	W3		S1S3	G2
Haploperla parkeri Parker Sallfly M: Right Fork Cove Creek (Haywood), Shot Pouch Cre	W3 ek (Maco	on) (endem	SU nic to North	G1 Carolina)
Helopicus bogaloosa Masked Springfly PSC: known from eleven streams and rivers in Piedmon	W3 t, Sandhi	ills, and In	S3 ner Coastal 1	G3G4 Plain
Sogenoides varians Rock Island Springfly P: Yadkin River (Davie)	W2		S2	G3G4
Soperla burksi Banded Stripetail P: slate belt streams (Chatham, Durham, Orange)	W3		S2	G4
Soperla frisoni Wisconsin Stripetail MP: known from six streams and rivers in the mountain Creek (Macon); also found in the Dan River	W3 s, from tl	ne New Ri	S3 ver (Ashe) to	G5 o Whiteoak
Isoperla lata Dark Stripetail M: recent state records from Fires Creek (Clay) and Big	W3 Creek (I	Haywood)	S3	G5
Perlesta bjostadi Anomalus Stone SC: Little River near Lillington (Harnett), Lumber Rive Carolina)	W3	Scotland)	SU (endemic to	G1 North

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Perlesta leathermani	W3		SU	G1
Sandhills Stone				
SC: Little River (Hoke, Moore), Lumber River (Hoke, Stendemic to North Carolina)	Scotland),	, Jordan Cı	reek (Scotla	nd)
Perlesta puttmanni	W3		S2?	G3G4
Anna Stone				
CS: Raft Swamp (Robeson), Little River (Cumberland,	Harnett)			
Perlesta roblei	W 3		S2	G3
Dragon Run Stone				
C: Swift Creek (Edgecombe)				
Perlinella ephyre	W2		S3	G5
Vernal Stone				
PSC: known from eight streams and rivers in the Sandh Flat River (Person) and Terrible Creek (Wake)	ills and Ir	nner Coast	al Plain; als	o occurs in
Prostoia hallasi	W3		SU	G3
Swamp Forestfly				
C: recent state record from Great Dismal Swamp (Gates	3)			
Shipsa rotunda	W3		S2S3	G5
Intrepid Forestfly				
CPM: known from twelve streams in mountains, Piedm	ont, and (Coastal Pla	iin	
Sweltsa holstonensis	W3		\mathbf{SU}	G1
Holston Sallfly				
M: Middle Fork Reddies River (Wilkes)				
Tallaperla elisa	W3		\mathbf{SU}	G3
Highlands Roachfly				
M: Great Smoky Mountains National Park (Swain)				
Viehoperla ada	W3		S2	G3
Pallid Roachfly				
M: Panthertown Valley seeps (Jackson)				
Yugus arinus	W3		S3	G3
Highlands Springfly				

M: French Broad, Hiwassee, and Little Tennessee basins

Scientific Name		Rai	Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S. N.C	Global	
Insects: Caddi	sflies			
Agapetus hessi a glossosomatid caddisfly P: Swift Creek (Nash)	W5	S2	G4G5	
Agapetus jocassee a saddlecase caddisfly M: small streams (Burke, Cherokee, Graham)	W3	SU	G2G3	
Agapetus minutus a saddlecase caddisfly M: Big Creek tributary (Haywood)	W3	S3	G4G5	
Agapetus pinatus a caddisfly M: mountain streams (Cherokee, Graham, Haywood, Tr	W3 ransylvania)	S3	G5	
Agapetus tomus a saddlecase caddisfly M: mountain streams (Cherokee)	W3	SU	G5	
Agraylea multipunctata a caddisfly MP: Wilson Creek (Caldwell)	W3	S3	G5	
Beraea gorteba a Caddisfly reputedly collected in the state, but no data yet available	W4	SNA	G1G2	
Ceraclea cama a longhorned caddisfly C: Lake Waccamaw vicinity (endemic to this area)	W3	SU	G1G2	
Ceraclea diluta a caddisfly C: several Coastal Plain rivers	W3	S2	G5	
Ceraclea mentiea a longhorned caddisfly MP: Big Horse Creek (Ashe), North and South Forks of River (Rockingham)	W3 New River	SU (Ashe, Alleghany),	G5 Mayo	
Ceraclea punctata a ceraclean caddisfly C: several Coastal Plain rivers	W3	S3	G5	

Scientific Name		Status		ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Ceraclea sp. 2 nr. excisa a caddisfly C: many Coastal Plain localities	W2		S3	GNR
Ceraclea tarsipunctata a caddisfly P: Cane Creek, Yadkin River, Long Creek (Mecklenbur	W3)	S3	G5
Cernotina calcea a caddisfly C: Lake Waccamaw (Columbus)	W3		S3	G5
Cheumatopsyche enigma a caddisfly M: streams in Great Smoky Mountains National Park (F	W3 Haywood,	Swain)	S3	G4G5
Cheumatopsyche geora a caddisfly P: Hunting Creek (Wilkes)	W3		S3	G5
Cheumatopsyche halima a caddisfly M: Deep Creek (Swain)	W3		S3	G5
Cheumatopsyche helma Helma's Net-spinning Caddisfly PM: Henrys Fork (Burke), Cataloochee Creek (Haywoo	W3		S3	G3
Cheumatopsyche parentum a caddisfly P: Uwharrie River (Montgomery)	W3		S3	G3
Cheumatopsyche richardsoni Richardson's Cheumatopsyche Caddisfly S: Little River (Hoke, Moore)	W3		S1S2	G1G2
Chimarra florida Floridian Finger-net Caddisfly S: several sandhills streams	W3		S3	G4
Frenesia difficilis a caddisfly M: seeps (Haywood, Surry, Swain)	W3		S3	G5
Goera stylata a caddisfly M: Commissioners Creek (Macon)	W3		S3	G5

Scientific Name	Status		Ra	ınk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Goerita betteni a caddisfly M: cold spring runs in mountainous areas	W3		S3	G4
Goerita semata a caddisfly M: cold spring runs in mountainous areas	W3		S3	G3
Helicopsyche paralimnella a snailcase caddisfly M: Fires Creek (Clay?), Bearwallow Creek (Transylvan NC)	W5 ia) (confi	ned to sou	SU thwestern m	G2 nountains in
Homoplectra flinti a caddisfly M: seeps (Haywood, Macon)	W3		S2	G2
Hydropsyche bassi a netspinning caddisfly S: Little River (Hoke, Moore)	W3		SU	G2
Hydropsyche fattigi a caddisfly C: Cape Fear River (Harnett)	W3		S3	G5
Hydropsyche opthalmica a caddisfly no locality data	W3		S3	G3
Hydropsyche ventura a caddisfly M: northern and western mountain streams	W5		S3	G5
Hydroptila armata a caddisfly P: Uwharrie River (Montgomery)	W3		S2	G5
Hydroptila coweetensis a micro caddisfly M: Coweeta Creek (Macon)	W3		SU	G1G2
Hydroptila englishi a caddisfly reported from NC, but without occurrence data	W4		SNA	G2
Hydroptila lloganae Llogan's Vari-colored Microcaddisfly S: Lumber River (Hoke, Scotland)	W3		SU	G3

Scientific Name		Status		ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Hydroptila maculata a caddisfly C: Lake Waccamaw (Columbus)	W3		S3	G3G4
Matrioptila jeanae a Caddisfly MP: streams and rivers (Buncombe, Burke, Clay, Hendo Transylvania, Watauga, Yancey)	W2 erson, Joh	nnston, Ma	S3	G4
Mayatrichia ayama a caddisfly MPS: mostly in mountain streams; Dan River (Stokes),	W5 Lumber l	River (Sco	S2	G5
Micrasema burksi a caddisfly M: known from eleven streams in the mountains, from A	W2 Avery Co	unty to Cl	S3 ay County	G4G5
Micrasema sprulesi a caddisfly MP: known from eight streams and rivers, primarily in the	W2	tains but a	S3 Iso in the M	G5 Iayo River
Molanna uniophila a caddisfly C: found in larger rivers and lakes from Chowan River (and Lake Waccamaw (Columbus)	W3 (Hertford) to Drowr	S3	G5 (Richmond)
Neureclipsis melco a caddisfly C: Shoe Heel Creek (Robeson)	W3		S3	G4
Ochrotrichia confusa a caddisfly M: Blue Ridge Parkway seeps (Watauga)	W3		S3	G5
Oecetis porteri Porter's Long-horn Sedge C: White Lake and Lake Waccamaw (Bladen, Columbu	W5 s)		S2	G3G4
Oecetis sp. B a caddisfly C: Lake Mattamuskeet and Perquimans River (Hyde, Pe	W5	s)	S1	G1
Oecetis sp. E a caddisfly SC: bay lakes and swamp streams of North and South C	W5		S2	G2

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Oxyethira glasa a caddisfly C: Lake Waccamaw (Columbus)	W1		S3	G5
Oxyethira lumosa a caddisfly S: Little River (Hoke, Moore)	W3		S3	G4
Oxyethira verna an oxyethiran microcaddisfly C: Lake Waccamaw (Columbus)	W3		S3	G5
Phylocentropus auriceps a caddisfly M: described from Black Mountain, NC; found in mountain	W3	GA, SC, N	S3 C, VA	G3G4
Protoptila georgiana a caddisfly P: Uwharrie River (Montgomery), Cape Fear River (Ha	W3		S2	G3G4
Pseudogoera singularis a caddisfly M: Coweeta Creek and seep near upper Wilson Creek (W5 Caldwell))	S2	G2G3
Pseudostenophylax sparsus uniformis a caddisfly M: high elevation seeps along the Blue Ridge Parkway	W5 (Buncom	be, Haywo	S3	G5T5
Psilotreta amera a caddisfly M: mountain streams (Haywood, Macon, Swain)	W5		S2	G3G4
Psilotreta rossi a caddisfly M: seeps and springs (Macon, Transylvania)	W5		S2	G3
Psilotreta rufa a caddisfly M: mountain streams (Macon, Transylvania)	W2		S3	G5
Rhyacophila amicis a free-living caddisfly M: Cullasaja River (Macon), Nantahala River (Macon, Spainhour Creek (Caldwell), North Toe River, Deep Cr	• / .		•	* *
Rhyacophila montana a free-living caddisfly M: high elevation seeps (Jackson, Swain)	W5		SU	G2G3

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Rhyacophila mycta a free-living caddisfly M: only confirmed from Sweeten Creek (Buncombe)	W5		S2S3	G3	
Rhyacophila vibox a rhyacophilan caddisfly M: Whiteoak Creek (Macon), Mitchell River (Surry)	W2		S3	G5	
Setodes arenatus a caddisfly C: Lumber River (Scotland)	W5		S2	G2G3	
Setodes stehri a caddisfly M: unknown locality	W5		S 3	G4	
Stactobiella delira a caddisfly no locality data	W3		S3	G5	
Stactobiella martynovi a caddisfly no locality data	W3		S3	G4	
Triaenodes helo Marsh Triaenode Caddisfly S: Little River (Hoke, Moore)	W3		S3	G3	
Triaenodes marginatus a longhorned caddisfly PSC: Stewart Creek (Mecklenburg), Long Creek (Gasto (Robeson), UT Hitchcock Creek (Richmond), Mill Cree			S3 x (Polk); Lui	G5 mber River	
Triaenodes melacus a caddisfly P: small Piedmont streams (Alamance, Caswell, Wake)	W3		S3	G5	
Triaenodes sp. C a caddisfly S: Carolina bays (Scotland)	W5		S1	G1G2	
Wormaldia thyria a caddisfly M: high elevation streams (Henderson, Yancey)	W3		S3	G3	

Scientific Name	Status	Rai	ale
Common Name		N.C	Global
Region: Habitat Comments (Counties of Occurrence)	N.C. U.S.	N.C	Giovai
Insects: Dragonflies an	d Damselflies	,	
Arigomphus villosipes	W3	S3	G5
Unicorn Clubtail			
MPC: ponds, lakes, slow-flowing streams (Ashe, Avery Clay, Gates, Halifax, Haywood, Henderson, Orange, Pe Transylvania, Warren, Washington, Watauga)			
Dromogomphus armatus	W3	S3	G4
Southeastern Spinyleg			
SC: pools in slow-flowing rivers (Bladen, Columbus, C Robeson, Scotland)	umberland, Hoke	, Moore, Richn	nond,
Enallagma minusculum	W6	S1	G4
Little Bluet			
C: lakes and ponds; known in the state only from White introduction	Lake (Bladen), b	out suspected of	f being an
Enallagma sulcatum	W4	SNA	G4
Golden Bluet			
C: sand-bottomed lakes, with some shoreline vegetation documentation is unknown	; reported from (Columbus Coun	ity, but
Epitheca spinosa	W3	S3?	G4
Robust Baskettail			
CSP: ponds and lakes (Bertie, Bladen, Camden, Chathar Duplin, Durham, Gates, Greene, Halifax, Harnett, Hoke Hanover, Northampton, Onslow, Pasquotank, Pender, P Washington, Wilson)	, Johnston, Marti	n, Moore, Nash	n, New
Gomphus apomyius	W3	S3?	G3G4
Banner Clubtail			
PC: spring-fed streams (Bladen, Cabarrus, Catawba, Ch Greene, Harnett, Lenoir, Moore, Richmond, Robeson, S			
Gomphus dilatatus	W3	S3?	G5
Blackwater Clubtail			
PC: rivers (Bertie, Caswell, Chatham, Columbus, Cumb Johnston, Lenoir, Martin, Mecklenburg, Montgomery, F			
Gomphus diminutus	W2	S3S4	G3G4
D: : :: CL 14 11			

Diminutive Clubtail

SC: sand-bottomed streams (Bladen, Brunswick, Cumberland, Harnett, Hoke, Montgomery, Moore, Richmond, Scotland)

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Gomphus hybridus	W3		S3	G4	
Cocoa Clubtail					
CSP: large or medium rivers with silty or sandy bottoms Davidson, Duplin, Halifax, Johnston, Lenoir, Montgome Wayne)					
Gomphus parvidens	W2		S3?	G4	
Piedmont Clubtail					
PSCM: small woodland streams with sandy bottoms (Bl Cleveland, Davie, Forsyth, Hoke, Macon, Madison, Mos Scotland, Surry, Swain, Transylvania, Wake, Wilkes)					
Gomphus rogersi	W2		S2S3	G4	
Sable Clubtail					
M: small spring-fed streams (Alleghany, Ashe, Avery, F Watauga, Wilkes)	Buncomb	e, Macon,	Madison, Po	olk, Swain,	
Lanthus parvulus	W4		SNA	G4G5	
Northern Pygmy Clubtail					
M: reported from the state (Avery), but no conclusive re	cords				
Lestes eurinus	W2		S3	G5	
Amber-winged Spreadwing					
MP: lakes and ponds with emergent vegetation (Allegha Durham, Graham, Guilford, Henderson, Jackson, Macon Rockingham, Watauga, Yadkin)	•				
Lestes forcipatus	W3		S2S3	G5	
Sweetflag Spreadwing					
PM: vegetated ponds (Ashe, Durham, Forsyth, Granville	e, Guilfor	rd, Orange	, Person, W	ilson)	
Libellula quadrimaculata	W4		SNA	G5	
Four-spotted Skimmer					
reported from NC, but no conclusive records					
Macrodiplax balteata	W3		S2S3	G5	
Marl Pennant					
TC: ponds and lakes near the coast, usually brackish or Hyde, New Hanover, Pamlico)	near marl	(Brunswi	ck, Carteret	, Dare,	
Nannothemis bella	W3		S3S4	G4	

SC: boggy swales (Anson, Bladen, Cumberland, Harnett, Hoke, Montgomery, Moore, Richmond, Scotland)

Scientific Name	Status		Ra	ank
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Neurocordulia alabamensis	W3		S3?	G5
Alabama Shadowdragon				
CS: small creeks in forested regions, often where sandy Cumberland, Duplin, Harnett, Hoke, Johnston, Jones, Le Richmond, Robeson, Sampson, Scotland, Wake)				
Neurocordulia molesta	W3		S3?	G4
Smoky Shadowdragon				
C: rivers (Bladen, Cumberland, Edgecombe, Harnett, Le Wayne)	enoir, Mo	ore, Richn	nond, Samp	oson, Wake,
Neurocordulia virginiensis	W 3		S3?	G4
Cinnamon Shadowdragon				
P: large rivers (Chatham, Durham, Halifax, Harnett, Nas	sh, North	ampton, W	ake)	
Ophiogomphus incurvatus	W2	FSC	S3	G3
Appalachian Snaketail				
PM: small to medium streams (Alexander, Buncombe, I Catawba, Cleveland, Davidson, Forsyth, Gaston, Guilfo Mecklenburg, Richmond, Rockingham, Rutherford, Sto	rd, Iredel	ll, Lincoln,	McDowell	
Somatochlora provocans	W3		S3?	G4
Treetop Emerald				
CS: small forested seeps and pools, perhaps very small seeps very small seeps and pools, perhaps very	ston, Lee	, Martin, M		
Stylurus amnicola	W 3		S3	G4
Riverine Clubtail				
MPC: rivers (Anson, Bertie, Buncombe, Caswell, Cumb Harnett, Johnston, Lincoln, Northampton, Pitt, Rocking				
Stylurus notatus	W4		SNA	G3
Elusive Clubtail				
reported from NC, but no conclusive records				
Sympetrum internum	W4		SNA	G5
Cherry-faced Meadowhawk				

M: reported from Macon County, but details not known; outside normal range

Scientific Name
Common Name
Region: Habitat Comments (Counties of Occurrence)

Insects: Flies

Eulonchus marialiciae

W3

Sarah

Rank

Global

Status

N.C.

U.S.

N.C.

Global

Mary Alice's Small-headed Fly

M: high elevation hardwood-hemlock forests (endemic to North Carolina) (Haywood, Jackson, Macon, Swain, Transylvania)

Scientific Name Status Rank Common Name Global N.C. U.S. N.C Region: Habitat Comments (Counties of Occurrence) **Insects: Butterflies** Amblyscirtes carolina W2**S3S4 G3G4** Carolina Roadside-Skipper CSP: moist woods (mainly hardwoods) near cane; host plant -- cane (Arundinaria) (Beaufort, Bertie*, Bladen, Brunswick, Carteret, Craven, Cumberland, Dare, Franklin, Gaston*, Gates, Halifax, Hoke, Hyde, Johnston, Jones, Lincoln, Martin*, Moore, New Hanover, Onslow, Pasquotank*, Pitt, Richmond, Sampson, Scotland, Wake, Washington, Wavne) W2**S3S4 G4** Celastrina neglectamajor **Appalachian Azure** M: rich deciduous forests; host plant -- black cohosh (Cimicifuga) (Alleghany, Ashe, Avery, Buncombe, Caldwell, Clay, Graham, Haywood, Macon, Madison, McDowell, Rutherford, Swain, Transylvania, Watauga, Yancey) Glaucopsyche lygdamus W2**G5 S2S3** Silvery Blue M: open upland woods, roadbanks, and borders; host plants -- primarily Carolina vetch (Vicia caroliniana), but also crown vetch (Coronilla varia) (Buncombe, Clay, Graham, Haywood, Macon, Madison, Mitchell, Swain) **W3** SU Hermeuptychia intricata **GNR Intricate Satyr** C: mesic to moist hardwood forests; host plants -- grasses; newly described species, very difficult to identify; most NC records based on old specimens (Carteret*, Duplin*, Jones) Hesperia leonardus W2**S3 G5** Leonard's Skipper PM: wooded borders and openings, brushy fields; host plants -- grasses (Ashe, Avery*, Buncombe, Chatham, Clay*, Durham, Guilford*, Harnett, Madison, Montgomery, Moore, Randolph, Richmond*, Rowan, Stanly, Union, Wake, Watauga) Hesperia metea W2**S3 G4 Cobweb Skipper** PSM: dry barren sites, such as powerline clearings and pine/oak sandhills; host plants -- mainly broomsedge (Andropogon) (Alleghany, Caswell, Chatham, Clay, Cleveland, Cumberland*, Durham, Franklin, Gaston*, Harnett, Montgomery, Moore, Orange, Polk*, Randolph, Richmond*,

Rockingham, Scotland, Wake)

Hesperia sassacus W2**S3 G5**

Indian Skipper

M: old fields, clearings, wood margins, mainly at high elevations; host plants -- grasses (Alleghany, Ashe, Avery, Burke, Clay, Haywood, Macon, Madison, Mitchell, Swain, Watauga, Wilkes, Yancey*)

Scientific Name	Sta	itus	Rai	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Megathymus yuccae	W2		S3S4	G5
Yucca Giant-Skipper				
CSPM: dunes, flatwoods, old fields, and other places ne (Alexander, Bladen, Brunswick, Carteret*, Catawba*, C Johnston*, Jones, Mecklenburg, Moore, New Hanover, Rutherford, Sampson, Scotland, Transylvania*)	Craven*,	Cumberlar	nd, Dare*, Ho	oke,
Phyciodes cocyta	W3		S3?	G5
Northern Crescent				
M: high to medium elevation openings in woodlands, ro Ashe, Buncombe, Clay, Graham, Haywood, Henderson Yancey)				
Phyciodes phaon	W5		S3	G5
Phaon Crescent				
T: open, often dry areas, mainly on barrier islands; host Carteret, Dare, Hyde, New Hanover, Onslow, Pender)	plants	fogfruit (I	<i>Lippia</i>) (Brun	ıswick*,
Pyrgus albescens	W3		SU	G5
White Checkered-Skipper				
TP: dry, open habitats, often where sandy, in the southe (<i>Sida</i>) (Brunswick, Carteret, Mecklenburg)	rn parts o	of the state	; host plants	mallows
Satyrium kingi	W2		S3S4	G3G4
King's Hairstreak				
SCPM: forests, often moist, usually near sweetleaf; hos (Bladen, Brunswick, Carteret, Craven, Cumberland, Cu Onslow*, Pender*, Pitt, Richmond, Robeson, Sampson,	rrituck, D	are*, Gast	ton, Hoke, M	loore,
Speyeria diana	W2		S3S4	G3G4
Diana Fritillary				
MP: montane and foothill forest edges and openings; he Alleghany, Ashe, Avery, Buncombe, Burke, Caldwell, Gaston, Graham, Haywood, Henderson, Iredell, Jackson Mecklenburg, Mitchell, Nash*, Polk, Rutherford, Stoke Watauga, Wilkes, Yancey)	Catawba, 1, Macon	Cherokee, Madison,	, Clay, Cleve , McDowell,	eland,

Thorybes confusis

W3

G4

S3S4

Confused Cloudywing

SCPM: dry woodland borders and openings, brushy fields; host plants -- legumes (Brunswick, Carteret, Caswell, Chatham, Clay, Columbus, Craven, Cumberland, Dare*, Davie, Durham, Forsyth, Gaston*, Granville, Harnett, Hoke, Montgomery, Moore, New Hanover, Onslow, Orange, Pender, Richmond, Sampson, Scotland, Wake, Warren)

Scientific Name	Status		us Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Insects: Mot	ths				
Abrostola ovalis Oval Abrostola Moth M: high elevation forests with nettles (Ashe, Haywood,	W3 Macon, S	Swain)	SU	G4	
Acrapex relicta Relict Cane Moth CS: canebrakes (Beaufort, Brunswick, Cumberland, Dan Northampton, Onslow, Richmond, Wake, Washington)	W3 re, Hoke,	Martin, M	S3 Iontgomery,	G4 Moore,	
Acronicta lanceolaria Narrow-winged Dagger Moth C: flatwoods (Brunswick, Onslow, Pender)	W3		S3?	G4	
Afrida ydatodes Dyar's Lichen Moth C: maritime forest and scrub? (New Hanover)	W3		S1S3	G5	
Anicla lubricans Slippery Dart SCP: savannas and flatwoods (Beaufort, Brunswick, Ca Hoke, Moore, New Hanover, Onslow, Pender, Wake)	W3 rteret, Cu	ımberland	S3? , Granville, 1	G4G5 Harnett,	
Anicla simplicius Simplicius Dart S: unknown habitats (Harnett, Hoke)	W3		SU	G4	
Anicla sullivani Sullivan's Anicla Moth C: riparian habitats? (Hoke)	W3		SU	G3G4	
Apantesis carlotta Carlotta's Tiger Moth MP: unknown habitats (Alleghany, Ashe, Haywood, Sto	W3 okes, Swa	nin, Watau	S3	G5	
Apoda rectilinea Rectilinea Slug Moth S: pine-oak sandhill woodlands (Hoke, Moore)	W3		S1S3	GNR	
Argillophora furcilla Silver Fork Cane Moth CPM: canebrakes (Halifax, Martin, Northampton, Stoke	W3 es, Swain	, Washing	S2S3 ton)	G3G4	
Arugisa latiorella Watson's Arugisa Moth CSP: sedgy glades (Dare, Moore, Wake, Washington)	W3		S3?	G4	

Scientific Name	Status		Status Ran		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Cabera quadrifasciaria	W3		SU	GNR	
Four-lined Cabera Moth					
C: unknown habitats (Brunswick, Carteret, New Hanove	er, Pende	r)			
Callosamia securifera	W3		\mathbf{SU}	G4	
Sweetbay Silkmoth					
CS: pocosins and other wetlands with sweetbay (Bladen Columbus, Gates, Harnett, Hoke, Moore, Pender, Richn				,	
Caripeta aretaria	W 3		S3S4	G4	
Southern Pine Looper					
CPM: pine forests (Beaufort, Bladen, Brunswick, Carter Macon, Moore, New Hanover, Onslow, Pender, Stokes,			e, Gaston, H	alifax,	
Catocala alabamae	W3		S2S3	G4	
Alabama Underwing					
SC: mesic sandhills (Bladen, Cumberland, Richmond)					
Catocala amestris	W3		SU	G4	
Three-staff Underwing					
CP: sand ridges and flatwoods with leadplant (Amorpha) (New H	Ianover, Po	olk)		
Catocala blandula ssp. 1	W3		S1S3	G5T3	
Southern Charming Underwing					
C: riparian hawthorns (Martin)					
Catocala illecta	W3		SU	G5	
Magdalen Underwing	,,,				
P: habitats not known (Chatham)					
Catocala miranda	W3		SU	G3G4	
Miranda Underwing	****		50	0201	
M: forests with hawthorns (Swain)					
Catocala pretiosa	W3		S2S3	G4	
Precious Underwing	***3		5255	04	
CSM: forests with shadbush or chokeberry (Cumberland	d, Dare, F	Hoke, Mac	on)		
		,		64	
Catocala sappho	W3		\mathbf{SU}	G4	
Sappho Underwing MP: bottomland hardwoods with hickories (Macon, Mo	ore Swa	in)			
		111 <i>)</i>			
Cerastis fishii	W3		SU	G4	
a Dart Moth					

CM: heath thickets (Macon, New Hanover)

Scientific Name	Status		Status Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Ceratonyx satanaria a Geometrid Moth CM: swamps and bottomlands (Brunswick, Macon)	W3		S2S4	G4	
Chytonix sensilis Barrens Marvel CSPM: sandhills and flatwoods (Brunswick, Cumberland Onslow, Pender, Stokes, Transylvania)	W3	tt, Hoke, M	S3? Moore, New	G4 Hanover,	
Cisthene kentuckiensis Kentucky Lichen Moth CS: mainly in wet to mesic forests (Cumberland, Martin	W3	Richmono	SU d, Wake)	G4	
Dasychira atrivenosa a Tussock Moth CSP: hardwood forests (Brunswick, Hoke, Onslow, Pen	W3 der, War	ren)	S3?	G4	
Doryodes bistrialis Double-lined Doryodes CS: marshes (Brunswick, Carteret, Harnett, Hoke, Moor	W3 re, New H	Ianover, O	SU onslow, Pend	G4	
Doryodes sp. 1 Wiregrass Doryodes CS: savannas, flatwoods, and sandhills (Brunswick, Car Onslow, Pender)	W3 teret, Hol	ke, Moore,	S3S4 New Hano	G3G4	
Elaphria fuscimacula a Noctuid Moth C: no habitat information (Columbus)	W3		SU	GNR	
Eulithis molliculata Dimorphic Eulithis Moth M: no habitat information (Ashe)	W3		SU	G4	
Eupithecia absinthiata a Geometrid Moth M: unknown habitats (Ashe, Swain*, Watauga)	W3		SU	GNR	
Eupithecia affinata a Geometrid Moth M: no habitat information (Watauga)	W3		SU	GNR	
Eupithecia indistincta a Pug Moth M: no habitat information (Haywood, Swain)	W3		SU	GNR	

Scientific Name	Status		ıs Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Eupithecia mutata	W5		SU	GNR	
Spruce Cone Looper					
M: spruce-fir forests and possibly stands of hemlock (H	aywood,	Swain)			
Eupithecia peckorum	W 3		S3?	G4	
Peck's Pug Moth					
CSM: sandhills and flatwoods (Brunswick*, Macon, Mo	ontgomer	y, New Ha	nover, Ons	ow, Pender)	
Eupithecia satyrata	W3		SU	GNR	
Satyr Pug Moth	,,,		50	OI (II	
M: no habitat information (Ashe, Watauga)					
Eupithecia strattonata	W3		SU	GNR	
a Pug Moth	VV 3		30	GIVK	
no habitat or locality information					
•					
Eusarca packardaria	W 3		\mathbf{SU}	GNR	
Packard's Eusarca Moth					
CM: no habitat information (Cumberland, Macon, Mart	ın)				
Euxoa violaris	W 3		S1S2	G4	
Violet Dart					
T: beach dunes (Dare)					
Gabara pulverosalis	W3		S3?	G4	
an Erebid Moth					
CSP: habitats poorly known (Brunswick, Cumberland, Hanover, Onslow, Pender, Polk, Randolph, Richmond,			tgomery, M	oore, New	
Gondysia similis	W3		S2S3	G3G4	
Gordonia Darkwing					
C: pocosins and bay forests (Bladen, Brunswick, Carter	et, Dare,	Onslow, P	ender, Wasł	nington)	
Gondysia telma	W 3		SU	GNR	
a Noctuid Moth					
C: swamp forests (Columbus, Craven, Cumberland, Rol	beson)				
Grammia phyllira	W2		S3	G4	
Phyllira Tiger Moth	* * 4		55	Q-T	
CSP: sandhills (Bladen, Cumberland, Gaston, Moore, C	nslow, R	ichmond.	Wake)		
		,	ŕ	C.F	
Grammia virguncula Little Virgin Tiger Moth	W3		SH	G5	
Little Virgin Tiger Moth M: no habitat information (Watauga*)					
wi. no naoitat information (watauga.)					

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Heliomata infulata Rare Spring Moth	W3		S2S3	G3G4	
MPSC: forests or woodlands with shrubby locusts (Blac Haywood, Hoke, Moore, Stokes, Surry, Wake)	den, Cum	berland, G	ates, Harnet	t,	
Hydrelia condensata a Carpet Moth	W3		SU	G4	
M: no habitat or locality information					
Hydriomena divisaria	W3		S2S3	GNR	
Black-dashed Hydriomena Moth MP: no habitat information (Haywood, Macon, Madison	n, Mitche	ell, Rutherf	ford, Swain,	Wake)	
Hypena appalachiensis Appalachian Bomolocha Moth M: unknown habitats (Ashe, Swain)	W3		S2S3	G3G4	
Hyperstrotia aetheria a Graylet Moth S: pine-oak sandhill woodlands (Moore)	W3		S3?	GNR	
Hypocala andremona Hypocala Moth M: no habitat information (Swain)	W3		SU	GNR	
Hypomecis longipectinaria Broadly Pectinate Hypomecis Moth	W3		S3S4	G3G4	
CP: hardwood stands (Brunswick, Halifax, Martin, Mor Pender, Randolph)	ntgomery	, Northam _l	pton, Onslov	v, Orange,	
Idaea eremiata Straw Wave	W3		S3S4	G4	
CSM: sandhills (Brunswick, Cumberland, Macon, Moo	re, Pende	r, Richmo	nd)		
Idaea hilliata Hill's Wave Moth no locality or habitat information	W3		SU	GNR	
Idaea micropterata a Wave C: no habitat information (Dare, Onslow)	W3		S3?	GNR	
Idaea productata	W3		SU	G4	
a Wave CM: sandhills (Dare, New Hanover, Onslow, Pender, S	wain)				

Scientific Name		Status		nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Idaea scintillularia Diminutive Wave PC: unknown habitats (Cabarrus, Martin, Montgomery,	W3 Wake)		SU	GNR
Ipimorpha pleonectusa Even-lined Sallow P: no habitat information (Cabarrus, Mecklenburg)	W3		SU	GNR
Leucania incognita a Wainscot Moth CM: habitats poorly known (Alleghany, Brunswick)	W3		S1S2	GNR
Lithacodia sp. 2 a Bird-dropping Moth C: unknown habitats (Cumberland, Halifax, Hoke, North	W3)	S1S3	G1G3
Lithophane abita Cypress Pinion C: cypress swamps (Camden, Pender)	W3		SU	G4
Lithophane adipel a Pinion Moth C: unknown habitats (Moore)	W3		SU	G4
Lithophane joannis a Noctuid Moth M: rich cove forests? (Macon)	W3		SU	G4
Lithophane lemmeri Lemmer's Pinion CP: cedar glades and Atlantic white cedar forests (Carte	W3 eret, Crav	en, Wake)	S1S3	G3G4
Lithophane scottae a Pinion Moth no locality and habitat information	W3		SU	G2G4
Lithophane tepida White-eyed Pinion M: northern hardwood forests? (Macon)	W3		SU	GNR
Litoprosopus futilis Palmetto Borer C: palmettos (Carteret, New Hanover)	W3		SU	G4
Lytrosis heitzmanorum a Geometrid Moth no locality and habitat information	W3		SU	G5

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Macrochilo louisiana	W3		S3?	G4	
Louisiana Owlet Moth					
CSPM: sedgy wetlands (Alleghany, Brunswick, Cumbe Richmond)	rland, Ho	oke, Onslov	w, Orange, I	Pender,	
Macrochilo santerivalis	W 3		SU	G3G4	
an Owlet Moth					
C: brackish marshes (Dare, New Hanover, Onslow)					
Metanema determinata	W3		SU	GNR	
Dark Metanema Moth					
M: northern hardwoods? (Alleghany, Ashe)					
Metarranthis lateritiaria	W 3		SU	G3G4	
a Geometrid Moth					
CS: flatwoods and pocosins (Brunswick, Cumberland, I	Oare, Ons	slow, Pend	er)		
Metarranthis mollicularia	W 3		SU	GNR	
a Geometrid Moth					
P: no habitat information (Rutherford)					
Metarranthis sp. 1	W3		S3S4	G3G4	
Mid-Atlantic Metarranthis Moth					
C: pocosins (Brunswick, Dare, Moore, New Hanover, P	ender, Ri	chmond, S	Scotland, Wa	ashington)	
Nemoria bifilata	W 3		S3?	G4	
White-barred Emerald					
CSPM: sandhills and sandy forests (Bladen, Brunswick, Onslow, Pender, Richmond, Swain, Warren)	, Dare, H	oke, Moor	e, New Han	over,	
Nemoria outina	W 3		\mathbf{SU}	GNR	
an Emerald Moth					
C: no habitat information (Carteret)					
Neoplynes eudora	W 3		S2S3	G5	
a Wasp Moth					
C: unknown (Carteret, New Hanover)					
Notodontidae Genus 1 species 1	W3		S2S3	G3G4	
a new Prominent Moth					
CP: bottomland hardwoods (Brunswick, Cumberland, F	Ioke, Mo	ore, Pende	r, Randolph)	
Oligia chlorostigma	W 3		SU	G4	
a Brocade Moth					
MP: no habitat information (Alleghany, Ashe, Cabarrus	, Haywoo	od, Swain)			

Scientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Operophtera bruceata Bruce Spanworm Moth M: no habitat information (Watauga)	W3		SU	G5	
Orgyia detrita a tussock moth CSPM: hardwood forests (Beaufort, Brunswick, Cartere Richmond, Swain, Warren, Washington)	W3 et, Dare, F	Halifax, Ho	S2S3 bke, Onslow	G3G4 , Pender,	
Paectes nubifera Clouded Paectes Moth no location or habitat information	W3		SU	GNR	
Pangrapta sp. 1 Whitish Pangrapta CS: pocosins? (Bladen, Columbus, Hoke)	W3		S1S3	GU	
Papaipema araliae Aralia Shoot Borer Moth C: forests and woodlands (Halifax, Washington)	W3		S2S4	G3G4	
Papaipema birdi Umbellifer Borer Moth M: no habitat information (Ashe, Watauga)	W3		SU	G4G5	
Papaipema duplicatus Dark Stoneroot Borer Moth M: rich woods with Collinsonia canadensis (Swain)	W3		SH	G2G4	
Papaipema furcata Ash Tip Borer Moth no locality data; forests with ash (Fraxinus)	W3		SU	GU	
Papaipema lysimachiae Loosestrife Borer Moth M: on loosestrife (Haywood, Macon)	W3		SU	G4G5	
Papaipema necopina Sunflower Borer Moth MC: no habitat information (Macon, Northampton)	W3		SU	G4?	
Papaipema nepheleptena Turtle Head Borer Moth no locality or habitat information	W3		SU	G4	
Papaipema polymniae Cup Plant Borer Moth MP: rich cove forests? (Buncombe, Haywood, Randolph	W3 n, Swain)		SU	G4?	

Scientific Name			Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Papaipema sp. 3 Southeastern Cane Borer Moth C: canebrakes (Beaufort, Cumberland, Dare, Hoke, Mar	W3	tgomery, N	S3S4 Moore, Rich	G4	
Parahypenodes quadralis Masked Parahypenodes Moth CM: no habitat information (Dare, Macon)	W3		S1S2	G4	
Photedes enervata a Borer Moth C: tidal marshes (Carteret, Onslow)	W3		SU	G4	
Pimaphera percata an Inchworm Moth C: unknown habitats (Brunswick)	W3		S1S2	GNR	
Ponometia parvula a Bird-dropping Moth CS: cypress swamps? (Brunswick, Cumberland, Harnet	W3 t, New H	anover, Ri	S2S3	GNR otland)	
Ponometia tortricina a Bird-dropping Moth M: unknown (Macon)	W3		SU	GNR	
Properigea costa Barrens Moth no locality or habitat information	W3		SU	G4	
Properigea tapeta a Noctuid Moth C: bottomlands? (Martin, Pender)	W3		SU	GNR	
Protodeltote sp. 1 a Bird-dropping Moth C: pocosins and other wetlands; no locality data	W3		S1S3	G1G3	
Psamatodes abydata Dot-lined Angle CMP: unknown habitats; possibly a migrant (Ashe, Black Stokes)	W3 den, Brur	nswick, Ma	SU acon*, Onslo	GNR ow, Pender,	
Rivula stepheni a Noctuid Moth C: no habitat information (Camden, Cumberland, North	W3 ampton)		SU	GNR	
Schinia obscurata Erigeron Flower Moth S: sandhills (Moore)	W3		S2S3	G4	

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Schinia scissoides	W3		S2S3	GNR	
Divided Flower Moth					
C: open areas (Brunswick, New Hanover)					
Schinia siren	W3		SU	GNR	
Alluring Schinia Moth					
CS: open hardwood forests (Brunswick, Carteret, Hoke,	Moore, 1	New Hano	ver, Pender)		
Schinia sordidus	W3		S2S3	G4?	
Sordid Flower Moth					
CS: savannas (Bladen, Brunswick, Carteret, Moore, New	w Hanov	er, Pender))		
Scopula aemulata	W3		SU	GNR	
Diminutive Wave					
PC: on Trillium (Brunswick, New Hanover, Stokes)					
Scopula cacuminaria	W 3		S2S3	G4	
Frosted Tan Wave Moth					
CM: sandhills and other dry forests (Alleghany, Beaufor Onslow)	rt, Brunsv	wick, Cam	den, Dare, C	Sates,	
copula ordinata	W3		SU	GU	
a Wave Moth					
MC: mesic hardwoods (Brunswick, Haywood, Macon, S	Swain, Tı	ansylvania	a)		
Scopula purata	W 3		S2S3	G4	
Chalky Wave					
CS: acidic wetlands (Brunswick, Cumberland, Hoke, M	oore, On	slow, Penc	ler, Richmon	nd)	
Selenisa sueroides	W3		SU	GNR	
Pale-edged Selenisa Moth					
no locality or habitat information					
peranza subcessaria	W3		S3S4	G4	
Barred Angle					
M: high elevation forests with gooseberries (Ribes) (Ash	ne, Avery	y, Swain, T	Transylvania	, Watauga)	
phingicampa bicolor	W3		S3?	G5	
Honey Locust Moth					
P: on honey locust (Gleditsia) (Chatham, Durham*, Gas	ton, Lee,	Wake)			
Sphinx franckii	W3		SU	G4G5	
Franck's Sphinx					
PC: basic-mesic hardwoods and other habitats with ash	(Fraxinu	s) (Brunsw	vick, Cabarri	us, Orange)	

cientific Name	Status		Rank		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global	
Spilosoma dubia Dubious Tiger Moth	W3	N	S3?	G4	
C: acidic wetlands (Bladen, Brunswick, Carteret, Cumbe Pender, Washington)	eriand, D	are, New I	Hanover, Or	isiow,	
Stiria rugifrons	W3		SU	G4	
Yellow Sunflower Moth	1 1 7		• 45		
CM: habitat unknown, but often near sunflowers (Cumb	erland, T	ransylvan	ıa*)		
Sympistis dinalda	W3		SU	GNR	
a Sallow					
P: no habitat information (Warren)					
Sympistis perscripta	W3		SU	G4	
Scribbled Sallow					
C: on toadflax (Bladen, Brunswick, Cumberland, New F	Hanover,	Onslow)			
Tacparia detersata	W3		SU	GNR	
Pale Alder Moth					
M: northern hardwoods (Alleghany, Ashe, Avery)					
Fornos abjectarius	W3		S2S3	GNR	
a Tornos Moth					
CP: no habitat information (Brunswick, Cumberland, Ha	alifax, Pe	nder, Rich	mond, Warı	ren)	
Fornos cinctarius	W3		SU	GNR	
a Tornos Moth					
CS: savannas and sandhills (Cumberland, Hoke, Onslow	, Pender)			
ripudia flavofasciata	W3		SU	GNR	
a Seed Moth					
C: bottomlands (Cumberland, Halifax, Martin, Northam)	pton, On	slow)			
Nolonche modesta	W3		SU	G5	
Modest Quaker Moth	,,,		20	32	
CP: no habitat information (Bladen, Cumberland, Dare,	Pender, S	Stokes)			
Kestia n. sp. nr. youngii	W3		S3S4	G3G4	
Young's Dart Moth	****		5554	0204	
C: peatlands (Beaufort, Bladen, Brunswick, Carteret, Da	re, New	Hanover,	Pender, Was	shington)	
•	W3	,	SU	G5	
Cale fictilis an Owlet Moth	VV 3		BU	GS	
C: no habitat information; perhaps a stray from farther so	outh (Brı	ınswick)			
71 1 · · · · · · · · J	,	,			
Talo an 2 na gazamulania	11/2		CIT	C40	
Zale sp. 2 nr. squamularis a new Zale	W3		SU	G4Q	

Scientific Name		Status		nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Zale sp. 3 nr. buchholzi an Owlet Moth	W3		S2S3	G3G4
CS: pine forests (Brunswick, Cumberland, Hoke, Martin	ı, Moore,	New Han	over, Pender	r)
Zanclognatha atrilineella	W3		S1S3	$\mathbf{G}\mathbf{U}$
an Owlet Moth				
C: no habitat information (Halifax, Martin, Onslow)				
Zanclognatha dentata	W3		SU	G3G4
an Owlet Moth				
M: dry pitch pine stands (Haywood, Macon, Swain)				

Scientific Name	Sta	tus	Ra	nk		
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global		
Insects: Grasshoppers	Insects: Grasshoppers and Katydids					
Amblycorypha arenicola Sandhill Virtuoso Katydid S: sandhill habitats; no locality information	W3		S2S3	GNR		
Amblycorypha bartrami Bartram's Round-winged Katydid S: sandhill habitats; no locality information	W3		S2S3	GNR		
Atlanticus gibbosus Gibbous Shield-back Katydid C: oak and pine forests; ranges north to near the North Crecords	W4 Carolina l	oorder, but	SNA uncertain if	GNR any state		
Belocephalus subapterus Half-winged Cone Head Katydid SC: flatwoods and other shrubby areas; no locality infor	W3		S2S3	GNR		
Dendrotettix australis Scrub Pine Grasshopper MP: dry forests and monadnocks, often in pine stands (1)	W3 Macon*,	Rutherford	SU l, Stokes)	GU		
Encoptolophus sordidus Dusky Grasshopper reported from the state, but no locality or habitat inform	W4 ation ava	iilable	SNA	G5		
Hesperotettix viridis Meadow Purple-striped Grasshopper CS: sandhill seeps and wet pine savannas; no locality in	W3	n	SU	G5		
Hubbellia marginifera Pine Katydid CS: pinewoods; no locality information	W3		S3?	GNR		
Inscudderia walkeri Eastern Cypress Katydid C: cypress swamps and savannas (Brunswick, Gates)	W3		SU	GNR		
Melanoplus acrophilus a Spur-throat Grasshopper M: montane forests?; endemic to the southern Appalach	W3	no locality	S2S3	G2G3		
Melanoplus devius Devious Short-wing Grasshopper M?: dry montane forests at middle elevations; no localit	W3 y inform	ation	SU	GU		

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Melanoplus hubbelli	W3		SU	G4
Hubbell's Melanoplus				
M: dry woodlands, including second growth (Polk, Swa	in, Yance	ey)		
Melanoplus nigrescens	W 3		S3?	$\mathbf{G}\mathbf{U}$
Black-sided Spur-throat Grasshopper				
PCT: upland forests, dry pinewoods, and maritime forest	sts (Bruns	swick*, Co	lumbus*, M	(ontgomery)
Melanoplus sp. 35	W 3		S1S2	G1G2
a Grasshopper				
no habitat or locality data (endemic to North Carolina)				
Melanoplus sp. 6	W3		S1S2	G1G2
a Grasshopper	,,,		5152	0102
no habitat or locality data (endemic to North Carolina)				
Melanoplus strumosus	W3		S2S3	G4G5
Swollen Spur-throat Grasshopper	***3		0203	0403
CS: sandhills; no locality information				
•				
Melanoplus tribulus	W3		\mathbf{SU}	G4G5
Tribulus Spur-throat Grasshopper				
MPC: glades and open woodlands (Ashe*, Halifax*, Mo	ontgomei	y)		
Melanoplus walshii	W 3		SU	G4G5
Walsh's Locust				
M: thickets in and near deciduous woodlands at mid- to Mount Mitchell (Yancey)	high elev	vations; on	ly recent rec	eords for
Mermiria picta	W 3		S3?	G5
Lively Mermiria				
CS: longleaf pine savannas and flatwoods (Brunswick, Carteret, Columbus*, Cumberland, Moore*, New Hanover*, Onslow, Pender, Scotland)				
Montezumina modesta	W 3		\mathbf{SU}	$\mathbf{G}\mathbf{U}$
Modest Katydid				
PCM: pinewoods and other habitats; no locality informa	ation			
Neoconocephalus velox	W 3		SU	GNR
Swift-flying Cone Head Katydid				
C: shrubby undergrowth in pinewoods; no locality infor	mation			
Orchelimum bradleyi Bradley's Meadow Katydid	W3		SU	GNR

CT: apparently known from the southeastern corner of the state; no locality or habitat information

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Orchelimum superbum	W3		SU	GNR
Superb Meadow Katydid				
CT: bogs and tidal marshes; no locality information				
Paratylotropidia beutenmuelleri	W3		\mathbf{SU}	G4
Beutenmueller's Grasshopper				
no habitat or locality data				
Pardalophora apiculata	W3		SU	G5
Coral-winged Grasshopper				
no locality or habitat information				
Romalea microptera	W3		SU	G5
Eastern Lubber Grasshopper	***3		SU	GS
P: open woods and roadsides; no locality information				
Scudderia curvicauda laticauda	W3		SU	GNRTNR
Broad-tailed Bush Katydid				
C: savannas, flatwoods, open pinewoods; no locality in:	formation	1		
Stenacris vitreipennis	W3		S1S3	G5
Glassy-winged Toothpick Grasshopper				
C: marshes; no locality information				
Trachyrhachys kiowa	W3		\mathbf{SU}	G5
Ash-brown Grasshopper				
bare or gravelly ground in dry upland habitats; no locali	ity inform	nation		

Scientific Name	Sta	tus	Ra	nk
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Insects: Beet	tles			
Ellipsoptera blanda Sandbar Tiger Beetle C: sandy floodplains and white sand bars along blackwar New Hanover)	W3	and stream	S2S3 ms (Bladen,	GNR Columbus,
Gonielmis dietrichi a Water Beetle S: in and around Fort Bragg (Hoke, Richmond, Scotland	W3		S2	GNR
Lordithon niger Black Lordithon Rove Beetle no habitat or locality information	W4		SU	GU
Stenelmis morsei a Riffle Beetle C: Lumber River (Robeson)	W5		S2	GNR
Stenelmis sp. 1 Harley's Stenelmis Riffle Beetle S: Lumber River (Hoke, Scotland)	W3		S1	GNR
Stenelmis sp. 2 William's Stenelmis Riffle Beetle PS: James Creek, Upper Little River, Deep River (Harne	W2	Moore)	S2	GNR
Stenelmis sp. 3 a Riffle Beetle PSC: Little River (Cumberland, Harnett, Moore)	W3		S2	GNR
Trechus balsamensis a Ground Beetle M: Plott Balsam mountains (endemic to North Carolina)	W3		SU	GH
Trechus carolinae a Ground Beetle M: Black Mountains (endemic to North Carolina)	W3		SU	GH
Trechus luculentus luculentus a Ground Beetle M: mountains of southwestern North Carolina	W3		SU	GHTH
Trechus luculentus unicoi a Ground Beetle M: apparently the mountains of Graham County	W3		SU	GHTH

Scientific Name	Status		Rank	
Common Name Region: Habitat Comments (Counties of Occurrence)	N.C.	U.S.	N.C	Global
Trechus mitchellensis	W3		SU	GH
a Ground Beetle				
M: Black Mountains (endemic to North Carolina)				
Trechus novaculosus	W3		\mathbf{SU}	GH
a Ground Beetle				
M: Great Smoky Mountains National Park (endemic to	the park)			
Trechus roanicus	W3		\mathbf{SU}	GH
a Ground Beetle				
M: Roan Mountain (endemic to the mountain)				
Trechus rosenbergi	W3		SU	GH
a Ground Beetle				
M: Plott Balsam and Great Balsam mountains (endemic	to North	Carolina)		
Trechus satanicus	W3		SU	GH
a Ground Beetle				
M: vicinity of Devils Courthouse and Graveyard Fields	(endemic	to North	Carolina)	
Trechus subtilis	W3		SU	GH
a Ground Beetle				-

M: mountains of Haywood County (endemic to North Carolina)

Scientific Name Status Rank
Common Name

Region: Habitat Comments (Counties of Occurrence) N.C. U.S. N.C Global

ENDEMIC ANIMALS IN NORTH CAROLINA

This is a list of all taxa (including subspecies) considered to be strictly endemic to North Carolina. The list does not include taxa whose range barely extends into another state, such as taxa endemic to the Roan Mountain area or Great Smoky Mountains National Park. The lists of most of the insect groups (other than butterflies, dragonflies, and damselflies) are incomplete, as are the lists for spiders and other arachnids. There are no endemic taxa of birds.

SCIENTIFIC NAME	COMMON NAME
MAMMALS	
Peromyscus leucopus buxtoni	Buxton Woods White-footed Deermouse
Sorex sp. 1	an Undescribed Shrew
REPTILES	
Lampropeltis getula sticticeps	Outer Banks Kingsnake
Nerodia sipedon williamengelsi	Carolina Watersnake
AMPHIBIANS	
Necturus lewisi	Neuse River Waterdog
Plethodon amplus	Blue Ridge Gray-cheeked Salamander
Plethodon cheoah	Cheoah Bald Salamander
Plethodon meridianus	South Mountain Gray-cheeked Salamander
Plethodon yonahlossee pop. 1	Crevice Salamander
FRESHWATER FISHES	
Etheostoma perlongum	Waccamaw Darter
Fundulus cf. diaphanus	Lake Phelps Killifish
Fundulus waccamensis	Waccamaw Killifish
Lythrurus matutinus	Pinewoods Shiner
Menidia extensa	Waccamaw Silverside
Notripis mekistocholas	Cape Fear Shiner
Noturus furiosus	Carolina Madtom
MOLLUSKS – FRESHWATER	BIVALVES
Alasmidonta sp. 1	a Bivalve (Upper Yadkin River system)
Alasmidonta sp. 2	a Bivalve (Uwharries region)
Elliptio marsupiobesa	Cape Fear Spike
Elliptio steinstansana	Tar River Spinymussel
Elliptio sp. 2	File Spike
Elliptio sp. 4	a Bivalve (Deep River system)
Lampsilis fullerkati	Waccamaw Fatmucket
Lampsilis sp. 2	Chameleon Lampmussel
Lampsilis sp. 3	a Bivalve (Deep River system)
MOLLUSKS – FRESHWATER	
Cincinnatia sp. 1	Waccamaw Siltsnail
Helisoma eucosmium	Greenfield Rams-horn
Planorbella magnifica	Magnificent Rams-horn
MOLLUSKS – TERRESTRIAL	
Carychium arboreum	Tree Thorn
Catinella waccamawensis	Waccamaw Ambersnail
Fumonelix cherohalaensis	Rock-loving Covert
Fumonelix orestes	Engraved Covert

MOLLUSKS – TERRESTRIAI	GASTROPODS
Glyphyalinia clingmani	Fragile Glyph
Helicodiscus bonamicus	Spiral Coil
Paravitrea lacteodens	Ramp Cove Supercoil
Patera clarki nantahala	Noonday Globe
Triodopsis fulciden	Dwarf Threetooth
Triodopsis soelneri	Cape Fear Threetooth
ARACHNIDS	
Hypochilus coylei	a Lampshade Weaver
Hypochilus sheari	a Lampshade Weaver
Nesticus bishopi	a Cave Cobweb Spider
Nesticus brimleyi	a Cave Cobweb Spider
Nesticus carolinensis	Linville Caverns Spider
Nesticus cooperi	Lost Nantahala Cave Spider
Nesticus crosbyi	a Cave Cobweb Spider
Nesticus nasicus	a Cave Cobweb Spider
Nesticus sheari	a Cave Cobweb Spider
Nesticus silvanus	a Cave Cobweb Spider
Nesticus sp. 2	a Cave Cobweb Spider
CRUSTACEANS	
Caecidotea carolinensis	Bennett's Mill Cave Water Slater
Cambarus brimleyorum	Valley River Crayfish
Cambarus catagius	Greensboro Burrowing Crayfish
Cambarus davidi	Carolina Ladle Crayfish
Cambarus eeseeohensis	Grandfather Mountain Crayfish
Cambarus hystricosus	Sandhills Spiny Crayfish
Cambarus johni	Carolina Foothills Crayfish
Cambarus lenati	Broad River Stream Crayfish
Cambarus reburrus	French Broad River Crayfish
Cambarus tuckasegee	Tuckasegee Stream Crayfish
Dactylocythere chelomata	Cherokee Crayfish Ostracod
Dactylocythere isabelae	Catawba Crayfish Octracod
Dactylocythere peedeeensis	Pee Dee Crayfish Ostracod
Dactylocythere prinsi	Whitewater Crayfish Ostracod
Diacyclops jeanneli putei	Carolina Well Diacyclops
Harpagocythere baileyi	Highlands Crayfish Ostracod
Procambarus medialis	Pamlico Crayfish
Procambarus plumimanus	Croatan Crayfish
Skistodiaptomus carolinensis	Carolina Skistodiaptomus
Stygobromus carolinensis	Yancy Sideswimmer
Waltoncythere acuta	Transylvania Crayfish Ostracod
INSECTS – MAYFLIES	
Maccaffertium wudigeum	Wilson Creek "Stenonema"
INSECTS - STONEFLIES	
Haploperla fleeki	Piedmont Sallfly
Haploperla parkeri	Parker Sallfly
Perlesta bjostadi	Anomalus Stone
Perlesta leathermani	Sandhills Stone

INSECTS - CADDISFLIES	
Ceraclea cama	a Longhorned Caddisfly
Ceraclea joannae	a Caddisfly
Nectopsyche waccamawensis	Waccamaw White Miller
Oecetis sp. D	a Caddisfly
Rhyacophila accola	a Caddisfly
INSECTS – FLIES	
Eulonchus marialiciae	Mary Alice's Small-headed Fly
INSECTS – BUTTERFLIES	
Atrytonopsis sp1	Crystal Skipper
Neonympha mitchellii francisci	Saint Francis' Satyr
INSECTS - MOTHS	
Agrotis carolina	a Dart Moth
Hemipachnobia subporphyrea	Venus Flytrap Cutworm Moth
Meropleon diversicolor sullivani	an Owlet Moth
Schizura sp. 1	a New Prominent Moth
INSECTS – GRASSHOPPERS	AND KATYDIDS
Melanoplus coreyi	a Grasshopper
Melanoplus decorus	Decorated Spur-throat Grasshopper
Melanoplus mirus	Weldon Short-wing Grasshopper
Melanoplus nubilus	Nubile Short-wing Grasshopper
Melanoplus serrulatus	Nantahala Short-wing Grasshopper
Melanoplus sp. 6	a Grasshopper
Melanoplus sp. 35	a Grasshopper
Melanoplus sylvestris	a Spur-throat Grasshopper
INSECTS – BEETLES	
Trechus balsamensis	a Ground Beetle
Trechus carolinae	a Ground Beetle
Trechus luculentus luculentus	a Ground Beetle
Trechus luculentus unicoi	a Ground Beetle
Trechus michellensis	a Ground Beetle
Trechus novaculosis	a Ground Beetle
Trechus roanicus	a Ground Beetle
Trechus rosenbergi	a Ground Beetle
Trechus satanicus	a Ground Beetle
Trechus subtilis	a Ground Beetle
INSECTS – SPRINGTAILS	
Pseudosinella flatua	a Cave Obligate Springtail
Pseudosinella gisini carolina	a Cave Obligate Springtail
Pseudosinella vespera	a Cave Obligate Springtail

EXTIRPATED ANIMALS IN NORTH CAROLINA

This is a list of all taxa considered by state biologists and NCNHP to be extirpated (N.C. Rank of SX) in North Carolina. Those species with N.C. Status of E, T, SC, or SR are also included on the Rare List. NOTE: Quite a few species that might be gone from N.C. are included in the Rare and Watch Lists with an SH (=historic) rank, generally indicating that they have not been seen for over 20 years, but because of inadequate survey or other factors they may well still exist in the state or may be absent but expected to be found again in upcoming years.

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	NOTES
MAMMALS			
Bos bison	American Bison	G4	MP:open woodlands
Canis lupus	Gray Wolf	G4	MPS?C?: extensive forests, remote areas
Erethizon dorsatum	North American Porcupine	G5	M:high elevation hardwood forests**
Lepus americanus	Snowshoe Hare	G5	M:spruce-fir, other high elevation forests**
Martes pennanti	Fisher	G5	M:spruce-fir forests**
Puma concolor couguar	Eastern Cougar	G5THQ	MPC:extensive forests,remote areas
BIRDS			
Campephilus principalis	Ivory-billed Woodpecker	GH	C:extensive swamps, bottomlands with old-growth trees (one NC record)
Columbina passerina	Common Ground-dove	G5	T:dunes,sandy fields, margins of maritime woods and thickets
Conuropsis carolinensis	Carolina Parakeet	GX	CSPM?:forests, esp. swamps and bottomlands
Ectopistes migratorius	Passenger Pigeon	GX	MPSC: forests (winter only)
Thryomanes bewickii altus	Appalachian Bewick's Wren	G5T2Q	M:woodland borders or openings, farmlands or brushy fields at high elevations
Vermivora bachmanii	Bachman's Warbler	GH	PC: bottomland forests, swamps

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	NOTES
FRESHWATER FISHES			
Acipenser fulvescens	Lake Sturgeon	G3G4	M:large rivers of Tenn. drainages (Madison*)
Etheostoma jessiae	Blueside Darter	G4Q	M:streams in Mills River system (Henderson*)
Lepomis megalotis	Longear Sunfish	G5	M:French Broad drainage (Buncombe,* Haywood*)
Percina williamsi	Sickle Darter	G2	M: French Broad River (Buncombe*)
MOLLUSKS – FRESHW	ATER BIVALVES		
Alasmidonta robusta	Carolina Elktoe	G1Q	P:Long Creek in Mecklenburg*
Epioblasma florentina walkeri	Tan Riffleshell	G1T1	M:French Broad, other rivers (Buncombe*)
Medionidus conradicus	Cumberland Moccasinshell	G3G4	M:French Broad River (Buncombe*)
Pleuronaia dolabelloides	Slabside Pearlymussel	G2	M:Little Tenn. River (?) (Macon,*Swain*)
Ptychobranchus fasciolaris	Kidneyshell	G4G5	M:Tenn. Drainages
Quadrula pustulosa	Pimpleback	G5	M:Tenn. Drainages
Quadrula verrucosa	Pistolgrip	G4G5	M:New River near Virginia border (Alleghany,* Ashe*)
Toxolasma lividus	Purple Lilliput	G2	M:French Broad River
INSECTS – BUTTERFLI	ES		
Speyeria idalia	Regal Fritillary	G3	M:wet or dry meadows, bogs, open hilltops

^{*} All recorded occurrences in the county are either extirpated, have not been found in recent surveys, or have not been surveyed recently enough to be confident they are still present. Unsurveyed occurrences are regarded as historical after 20-40 years, the number of years depending on the species and the amount of habitat alteration in the area. An asterisk should not be regarded as a definitive statement that the species is gone from the county but indicates that there is reason to doubt its continued existence.

^{**}No positively documented records.

POTENTIAL NEW TO NORTH CAROLINA ANIMALS

The following list contains species of well-known animal groups that are not currently thought to occur in North Carolina or those animal species not currently known to breed in North Carolina but which are considered to have some possibility of being found here based on their established range, habitat preferences, or breeding behaviors. Most are species that occur in the adjacent states of South Carolina, Georgia, Tennessee, or Virginia in habitats (or drainages) at least relatively similar to habitats known to exist in North Carolina. The purpose of this list is to encourage and challenge field workers to find new state occurrences and new breeding records. This list should give field investigators an idea of some of the species that may be regular components of North Carolina's fauna. Species that might occur as single record accidentals, such as western species of birds or Gulf Coast butterflies, are generally not included. While some of these species may have relatively remote chances of being found in North Carolina, the likelihood of finding new state records is greatly increased by awareness of the possibilities and by species-directed searching. Our knowledge of many of our animal groups is still quite imperfect, especially invertebrate groups. Many natural areas are being destroyed before they can be investigated, and it can be assumed that a number of native species have been extirpated from North Carolina before they were ever documented as occurring in the state. Following each species is the North Carolina province in which the species is considered most likely to be found. Where possible, a description of the typical habitat of the species in the vicinity of North Carolina is also given. Sometimes, the nearest known occurrence(s) to North Carolina are also listed.

MAMMALS

There are very few terrestrial mammals that could be discovered for the first time in North Carolina. Three of them, North American Porcupine, Shoeshoe Hare, and Fisher, may have occurred in the mountains many decades or centuries ago, but reports are fuzzy or second-hand; they are included on the Extirpated List.

Sylvilagus aquaticus – Swamp Rabbit

M: swamps, floodplain forests; SC, GA; questionable specimen from Clay County, NC

BIRDS

The species below are all considered to be potential breeders in North Carolina; some may possibly be breeding already. All have been recorded from the state on numerous occasions; those marked by (+) are known to occur in summer in the state to an extent and probably are nesting, but conclusive evidence is lacking.

Accipiter gentilis – Northern Goshawk

M: extensive forests, mainly at high elevations; MD, WV, VA; a few summer records for the NC mountains

Ammodramus caudacutus – Saltmarsh Sparrow

T: salt or brackish marshes; VA; some references list NC in the breeding range -- this is erroneous; there have been a few summer reports, but some may be erroneous or of late migrating individuals

Asio flammeus – Short-eared Owl

T: extensive brackish marshes; MD, VA formerly, and might still nest there; several summer records for the NC coastal marshes, and might have nested once in 2001

Asio otus – Long-eared Owl

M: conifers or mixed woods at high elevations in northern mountains; VA; one or two summer reports from the NC mountains, but without visual confirmation

Cistothorus platensis – Sedge Wren

T: brackish marshes; VA (northern portion of Chesapeake Bay); several summer records from NC, mainly in brackish marshes, but these might be of wandering birds or migrants

Contopus cooperi – Olive-sided Flycatcher +

M: [breeding records for TN side of Great Smoky Mountains NP]; no active nest has been found in NC

Empidonax flaviventris – Yellow-bellied Flycatcher

M: high elevation spruce-fir, usually where stunted or young; VA (Mt. Rogers); two summer reports from NC mountains

Geothlypis philadelphia – Mourning Warbler

M: thickets, brushy places, clearings; VA; several males singing on territory have been found in the higher mountains since the mid-1980s, but no strong evidence of nesting has been found in NC

Haemorhous purpureus – Purple Finch

M: spruce-fir forests; VA (Mt. Rogers); one or two summer records for the NC mountains

Melospiza georgiana – Swamp Sparrow

M: bogs at high elevation; VA; no summer reports for NC

Oreothlypis ruficapilla – Nashville Warbler

M: spruce-fir forests, mainly along margins or in young or stunted trees; VA, but also a report from Mt. Rogers; one summer report for NC

Parkesia noveboracensis - Northern Waterthrush

M: bogs where spruce-fir is present; VA, plus two reports from Mt. Rogers; no summer reports for NC

REPTILES

Apalone ferox – Florida Softshell

C: lakes, ponds, rivers; SC

Apalone mutica – Smooth Softshell

M: large rivers in the Tennessee drainage; TN

Graptemys pseudogeographica -- False Map Turtle

M: large rivers in the Tennessee drainage; TN

Nerodia cyclopion – Green Water Snake

C: streams, lakes, ponds, marshes; SC

Ophisaurus compressus – Island Glass Lizard

TC: maritime or other coastal forests, in dry habitats; SC

AMPHIBIANS

Ambystoma cingulatum – Flatwoods Salamander

C: flatwoods, bottomlands, swamps; SC

Ambystoma jeffersonianum – Jefferson Salamander

M: low woods, bottomlands; VA

Ambystoma texanum – Smallmouth Salamander

M: moist forests; TN; ranges east to central TN

Desmognathus planiceps – Virginia Dusky Salamander

P: springs, seeps, streams; VA

Desmognathus welteri – Black Mountain Salamander

M: along streams in mesic forests; TN

Eurycea bislineata – Northern Two-lined Salamander

MP: springs, seeps, streams; VA; reported from the northern Piedmont of NC, but with no documentation yet available

Eurycea lucifuga – Cave Salamander

M: limestone caves and ledges; TN, VA

Gyrinophilus palleucus – Tennessee Cave Salamander

M: caves, in limestone areas; TN

Lithobates grylio – Pig Frog

C: lakes, ponds, marshes; SC

Plethodon hoffmani – Valley and Ridge Salamander

M: montane forests; VA

Plethodon hubrichti – Peaks of Otter Salamander

M: cool moist woods; VA; endemic to Peaks of Otter Mountain

Plethodon kentucki – Cumberland Plateau Salamander

M: moist mixed hardwoods; TN, VA

Pseudacris kalmi – New Jersey Chorus Frog

C: forests, with shallow water for breeding; VA

Plethodon websteri – Webster's Salamander

P: moist forests with steep north-facing slopes; SC

Pseudobranchus striatus – Dwarf Siren

C: swamps, ponds, other sluggish freshwater habitats; SC

Urspelerpes brucei – Patch-nosed Salamander

M: margins of seeps or streams in rich forests; SC, GA

FRESHWATER FISHES

Many fish species are found just beyond the border of North Carolina but have not been found within the State despite significant survey efforts. Higher stream gradients near the northern and western borders partly explain this phenomenon. Reservoirs along the borders have also eliminated riverine habitat and impede migration. Rather than list the many common species that are found in counties adjacent to North Carolina, here we are listing those which, if found, would be included in the Rare Animal List.

Etheostoma cinereum – Ashy Darter

M: Tennessee drainages; TN

Etheostoma hopkinsi – Christmas Darter

M: Savannah drainage; SC

Hemitremia flammea – Flame Chub

M: Tennessee drainages; TN

Notropis ariommus – Popeye Shiner

M: Tennessee drainages; TN

Noturus baileyi – Smoky Madtom

M: Tennessee drainages; TN

INSECTS -- BUTTERFLIES

There are numerous butterfly species which presently known range extends south in the mountains only to Virginia. Some of these might occur in the northern mountain counties of North Carolina, particularly those not restricted to habitats rare or absent in the state (e.g., shale barrens or limestone outcrops).

Amblyscirtes belli – Bell's Roadside-Skipper

MP: wooded edges and openings, wooded creeks; host plant – wild oats (*Chasmanthium latifolium*); SC (Oconee and Pickens counties)

Boloria selene – Silver-bordered Fritillary

M: wet meadows, bogs, marshes; host plant – violets (Viola) and other species; VA

Brephidium isophthalma – Eastern Pygmy-Blue

T: tidal flats and marshes; host plant – glassworts (*Salicornia*), possibly saltwort (*Batis maritima*); SC

Calephelis borealis – Northern Metalmark

M: rocky areas near shale, serpentine, or limestone, usually near streams; host plant – round-leaved ragwort (*Senecio obovatus*), possibly fleabanes (*Erigeron*); VA

Callophrys polios – Hoary Elfin

M: sunny, dry slopes and other barren or rocky habitats; host plant – mainly bearberry (*Arctostaphylos uva-ursi*) [not in NC], possibly trailing-arbutus (*Epigaea repens*); VA

Chlosyne harrisii – Harris' Checkerspot

M: marshes, damp meadows, and other wet brushy places; host plant – flat-topped white aster (*Doellingeria umbellata*); WV.

Colias interior – Pink-edged Sulphur

M: high elevation areas with acidic soils, such as wood margins, openings, and heath balds; host plant – blueberries (*Vaccinium*); VA

Erynnis lucilius – Columbine Duskywing

M: rocky woods, ravines, and wooded edges; host plant – wild columbine (*Aquilegia canadensis*); VA; reported from NC in early 2000s, but report retracted, likely an identification error

INSECTS -- BUTTERFLIES

Erynnis persius – Persius Duskywing

M: openings in cool forests, fields or bogs near woods; host plant – lupine (*Lupinus perennis*); VA

Euphyes conspicuus – Black Dash

CM: marshes, wet meadows, but rarely in bogs; host plant – sedges, mainly *Carex stricta*; VA *Speyeria atlantis* – Atlantis Fritillary

M: cool, open woods, wooded streams, clearings; host plant - violets (Viola); VA

SIGNIFICANT 2016 REVISIONS TO THE ANIMAL LIST

Animal Taxa with Upgraded Status (Increased Concern)

SCIENTIFIC NAME	COMMON NAME	PREVIOUS	NEW STATUS			
		STATUS				
BIRDS						
Antrostomus carolinensis	Chuck-will's-widow		W1			
Antrostomus vociferus	Eastern Whip-poor-will		W1			
Chaetura pelagica	Chimney Swift		W1			
FRESHWATER FISHES						
Notropis chalybaeus	Ironcolor Shiner	W1	SR			
Percina gynmocephala	Appalachia Darter	W2	SR			
Pimephales notatus	Bluntnose Minnow		W3			
INSECTS - GRASSHOPPERS AND KATYDIDS						
Melanopus coreyi	a Grasshopper		SR			

Animal Taxa with Downgraded Status (Decreased Concern)

SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS	NEW STATUS								
FRESHWATER FISHES											
Hypentelium roanokense	Roanoke Hog Sucker	SR	W2								
MOLLUSKS – TERRESTRIAL GASTROPODS											
Anguispira alternata	Flamed Tigersnail	SR	W2								
Glyphyalinia umbilicata	Texas Glyph	SR	W2								

U.S. Status Changes

There were two U.S. status changes between December 2014 and December 2016:

SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS	NEW STATUS							
MAMMALS										
Myotis septentrionalis	Northern Long-eared Bat	PE	T -4(d)							
FRESHWATER FISHES										
Moxostoma sp. 2	Sicklefin Redhorse	Candidate								

E=Endangered; T=Threatened; T-4(d)=Threatened with a 4(d) rule; PE= Proposed Endangered; PT=Proposed Threatened; C=Candidate

Scientific Name Changes

PREVIOUS NAME	NEW NAME					
MAMMALS	·					
Lasiurus intermedius	Lasiurus intermedius floridanus					
Sorex dispar	Sorex dispar blitchi					
BIRDS						
Ammodramus henslowii sursurrans	Ammodramus henslowii					
Poecile atricapillus practica	Poecile atricapillus					
Thyromanes bewickii altus	Thyromanes bewickii					
Loxia curvirostra pop. 1	Loxia curvirostra					
Aegolius acadicus pop. 1	Aegolius acadicus					
Passerina ciris ciris	Passerina ciris					
Sterna dougallii	Sterna dougallii dougallii					
REPTILES						
Sisturus miliarius	Sisturus miliarius miliarius					
Regina rigida	Liodytes rigida					
Seminatrix pygaea	Liodytes pygaea					
AMPHIBIANS						
Lithobates capito	Rana capito capito					
Lithobates heckscheri	Rana heckscheri					
Lithobates sylvaticus pop 3.	Rana sylvatica pop. 3					
Eurycea longicauda	Eurycea longicauda longicauda					
FRESHWATER FISHES						
Erimystax insignis eristigma	Erimystax insignis					

Historical Rank Changes

Only those changes involving taxa formerly or presently considered extinct, extirpated, or of historical occurrence are listed below.

SCIENTIFIC NAME	COMMON NAME	OLD	NEW								
		S-RANK	S-RANK								
CRUSTACEANS											
Caecidotea carolinensis	Bennett's Mill Cave Water Slater	S1	SH								
Skistodiaptomus carolinensis	Carolina Skistodiaptomus	S1	SH								
MOLLUSKS - FRESHWATER BIVALVE											
Lasmigona holstonia	Tennessee Heelsplitter	S1	SH								
Villosa trabalis	Cumberland Bean	S1	SH								
MOLLUSKS – FRESHWATER OR TERRESTRIAL GASTROPOD											
Catinella waccamawensis	Waccamaw Ambersnail	S1	SH								
INSECTS – DRAGONFLY OR DAMSELFLY											
Aeshna tuberculifera	Black-tipped Darner	SH	S1								
INSECTS – GRASSHOPPERS AND KATYDIDS											
Dendrotettix zimmermanni	Carolina Oak Grasshopper	SH	S1?								
Melanoplus eurycercus	A Spur-throat Grasshopper	SH	S1								

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