NATURAL HERITAGE PROGRAM LIST OF THE RARE ANIMAL SPECIES OF NORTH CAROLINA 2012

Revised March 25, 2013

Great Tiger Moth (*Arctia caja*) photo by Stephen P. Hall

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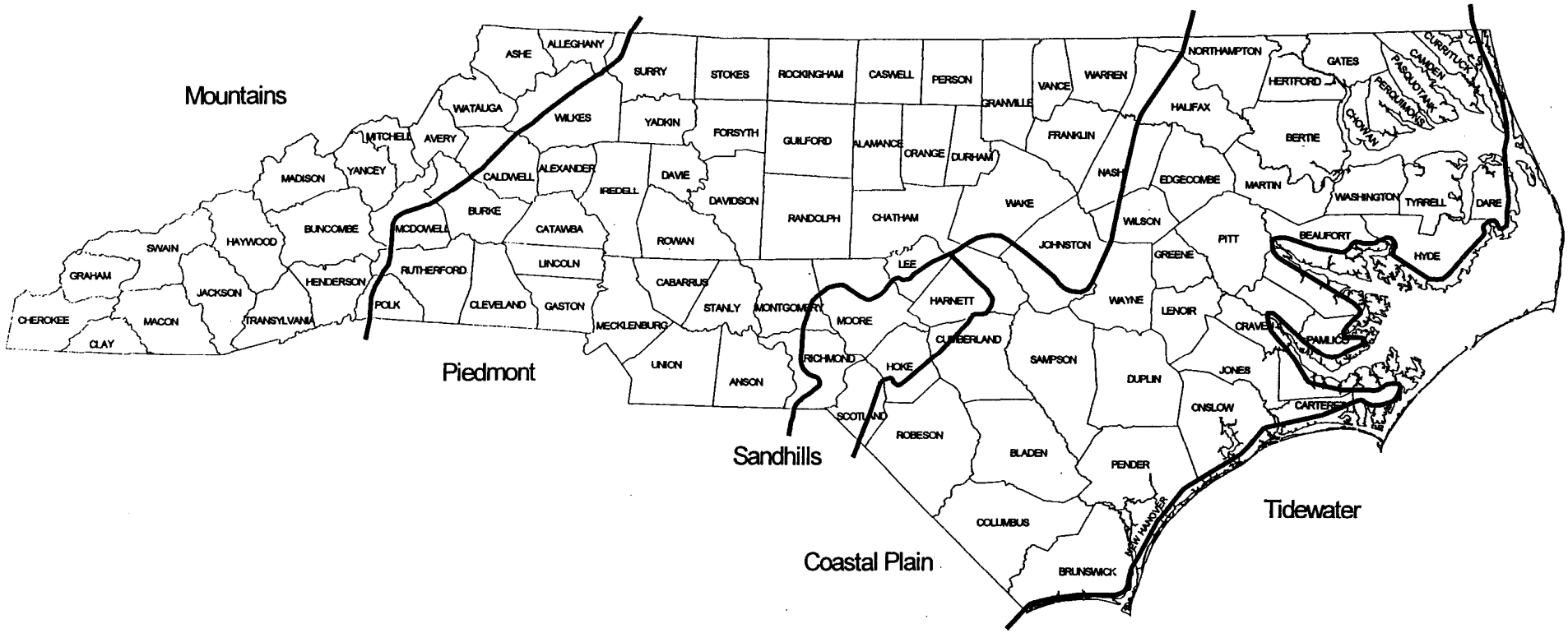
North Carolina Natural Heritage Program
Office of Conservation, Planning, & Community Affairs
N.C. Department of Environment and Natural Resources



THE COUNTIES AND PHYSIOGRAPHIC PROVINCES OF NORTH CAROLINA

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This list is dynamic and is revised frequently as further 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 on these species may be obtained by contacting the North Carolina Natural Heritage Program, Department of Environment and Natural Resources, 1601 MSC, Raleigh, NC 27699-1601, or by contacting the North Carolina Wildlife Resources Commission, 1722 MSC, Raleigh, NC 27699-1722. Additional information on rare species, as well as a digital version of this rare animal list, can be obtained from the Natural Heritage Program's website at www.ncnhp.org.

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Scientific Councils for each vertebrate group and several invertebrates groups compiled the bulk of the rare species lists (for N.C. Endangered, Threatened, and Special Concern species). Members of the current (2009-2010) Scientific Councils are (except as indicated):

MAMMALS -- David Webster (chair), Brian Arbogast, Mary Kay Clark, Lisa Gatens, Matina Kalcounis-Rüppell, Chris McGrath, David Rabon. Former members: Bill Adams, David Adams, Carl Betsill, Mary Bunch, John Funderburg, Heather Koopman, Susan Loeb, Nancy Moncrief, Nora Murdock, Roger Powell, Terry Sharpe, Peter Weigl.

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NCNHP rare animal list. Those who have made significant contributions (and not already listed above) include: Janice Allen, Hal Bain, Scott Bosworth, Sue Cameron, Susan Campbell, Mark Cantrell, Derb Carter, Jay Carter, Therese Conant, Will Cook, Sam Cooper, Bob Currie, Mark Danaher, Ricky Davis, Bob Dellinger, Phil Doerr, Aimee Fullerton, John Fussell, L.L. Gaddy, Ron Gatrelle, Gabrielle Graeter, Gilbert Grant, Nelson Hairston, Paul Hart, Scott Hartley, Tom Henson, Richard Highton, Erich Hoffman, Cato Holler, Donna Hollingsworth, Chris Kelly, Joshua Laerm, Seth Lambiase, Kevin Markham, Jonathan Mays, Doug McNair, Jeff Nekola, James Padgett, Tom Padgett, Jesse Perry, James Petranka, Judith Ratcliffe, Bob Rose, Reed Rossell, Mara Savacool, Frank Schwartz, Ed Schwartzman, Sara Schweitzer, Rowland Shelley, Mark Simpson, John Slapcinsky, Alan Smith, Ann Somers, Bob Soots, Bruce Sorrie, Phil Spivey, Simon Thompson, Brian Watson, Ted Wilcox, Chris Wilson, and Randy Wilson.

NATURAL HERITAGE PROGRAM
LIST OF THE RARE ANIMALS OF NORTH CAROLINA

INTRODUCTION

The list of animals represents those species of vertebrates and invertebrates for which the N.C. Natural Heritage Program (NCNHP) is collecting data. The majority of these species receive no formal protection. The list includes species that are endangered, threatened, or otherwise occur in small or unknown numbers in the state. The primary functions of the list are its use: 1) in determining priorities for protection of the state's most important natural areas; 2) in determining priorities of inventory and protection for these animals; and 3) for use by public agencies and private persons for environmental assessment and land management purposes.

Vertebrates, mollusks, and crustaceans are protected by the N.C. Wildlife Resources Commission (NCWRC), based on lists of Endangered (E), Threatened (T), and Special Concern (SC) species developed over 20 years ago by Scientific Councils on mammals, birds, reptiles and amphibians, freshwater fishes, mollusks, and crustaceans. The status for these species is listed in the "N.C. Status" column. In addition, NCNHP is tracking other rare vertebrates, mollusks, and crustaceans not given a formal state designation. These species are considered to be Significantly Rare [SR] in North Carolina. Significantly Rare species receive no special legal protection status; the designation is used to convey information about the species' rarity within the state. However, the tracking of Significantly Rare species, along with NCWRC's E, T, and SC species plays a critical role in how NCNHP evaluates natural areas for their importance in the conservation of the state's native biodiversity.

Endangered, Threatened, and Special Concern species of mammals, birds, reptiles, amphibians, freshwater fishes, freshwater and terrestrial mollusks, and crustaceans are protected by state law, under the jurisdiction of the NCWRC. However, State law does not allow for protection of invertebrate groups other than mollusks and crustaceans. Thus, the NCNHP lists of rare invertebrates, other than for these two groups, have been derived from multiple sources. These lists have been prepared in consultation with other biologists in North Carolina and in the eastern United States.

In addition to the "Rare List" of animals, for which the NCNHP tracks records in its database, this document also contains the "Watch List" of animals in the state. This is a listing of species/taxa in the state that currently do not merit being tracked in the database as "rare", but are scarce or poorly known and might merit being added to the "Rare List" in the future. The NCNHP is keeping data on such species in its files, but specific records are not mapped nor otherwise added to the database.

BACKGROUND INFORMATION

In 1987, the General Assembly of North Carolina passed legislation that provided for State protection of some wildlife species; Article 25 of Chapter 113 of the General Statutes is titled "Endangered and Threatened Wildlife and Wildlife Species of Special Concern". This act allows for state protection of those nongame species of mammals, birds, reptiles, amphibians, freshwater fishes, mollusks, and crustaceans that are deemed to be of Endangered (E), Threatened (T), or Special Concern (SC) status in North Carolina. Six Scientific Councils – reptiles and amphibians are combined into a single scientific council -- each consisting of biologists with considerable knowledge of the taxonomic group in the state, were created (see Acknowledgments). These councils drafted lists of proposed E, T, and SC species/subspecies, which were reviewed first by the NCWRC's Nongame Wildlife Advisory Committee, then by staff of the NCWRC, and then submitted to the commissioners on the NCWRC board for final approval.

During 1997 and 1998, the Scientific Councils re-convened and prepared updated lists of species needing State protection. These lists followed the same procedural steps as the ones above, and were approved in 1999. A more recent change in State law requires that any proposed legislation (such as lists of Endangered, Threatened, and Special Concern species) must go to the State General Assembly; if there is no action by that body to overturn proposed legislation by a specified date, the legislation becomes law. Fortunately, the lists approved by the NCWRC commissioners in 1999 became law on July 1, 2002. Since that date, the Scientific Councils have met again and have made proposed changes, which were enacted into law in summer 2008. Another round of Scientific Council meetings took place between 2009 and 2011, and the councils have completed draft proposed changes. These six reports have been reviewed by the Advisory Committee and by staff of NCWRC. At the current time, they are in review by the commissioners of NCWRC. Some council recommendations might become law by mid-2013, whereas others might become law in 2014 or later. The current schedule is for the scientific councils to convene every five years, to make new recommendations to the protected species list.

A list of rare marine and estuarine fishes was presented in 1988 by the N.C. Museum of Natural Sciences. Except for the federally listed Endangered Shortnose Sturgeon, all other marine and estuarine fishes were listed in 1988 as "Vulnerable, Category 2". Because the Atlantic Sturgeon also occurs in fresh waters, it had been listed by WRC as a Special Concern species, and thus it was listed in this publication under Freshwater Fishes (as is the state Endangered Shortnose Sturgeon). Marine and estuarine fishes are under the jurisdiction of the N.C. Division of Marine Fisheries, which does not have a list of endangered, threatened, and special concern fishes. Beginning with the 2004 Rare Animal list, the NCNHP decided to no longer track (nor including on the Watch List) marine and estuarine fishes. This decision was not due to their lack of state listing; rather, we receive few data on such species, survey for such species can be cumbersome, protection of them is difficult if not impossible, and there has been no recent systematic account of the rarity and distribution of the hundreds of such fishes that occur in our salt and brackish waters.

For the same reasons as for marine and estuarine fishes given above, the NCNHP is no longer keeping marine invertebrates on its Rare or Watch lists. NCNHP has also removed millipedes, scorpionflies, most beetles, ants, and annelids from its Watch List, primarily due to lack of new data on them and the apparent lack or scarcity of biologists working with these groups to provide data or provide updated lists of rare taxa. Beginning with the 2006 list, the NCNHP moved ostracods from the Rare List to the Watch List, even though some are Federal Species of Concern. This move is due to the great difficulty in surveying for such tiny, symbiotic species and to the difficulty in assessing population status and range in the state.

LIST FORMAT

Species are grouped by major taxa. The vertebrates 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. "Status" indicates the degree of protection (if any), based on rarity of a species; "rank" is a numerical scale of the rarity of a species, regardless of legal protection.

Scientific Name.

Common Name. For most groups, these names are not standardized.

North Carolina Status. Endangered, Threatened, and Special Concern species of mammals, birds, reptiles, amphibians, freshwater fishes, freshwater and terrestrial mollusks, and crustaceans have legal protection status in North Carolina (Wildlife Resources Commission). In addition to the above categories, the Natural Heritage Program maintains computerized records on Significantly Rare species, as well as species considered extirpated in the state. Paper files only are maintained for a few of the above species; these species are indicated by the phrase "not tracking."

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 by the Wildlife Resources Commission to be in jeopardy or any species of wild animal determined to be an 'endangered species' pursuant to the Endangered Species Act." (Article 25 of Chapter 113 of the General Statutes; 1987).
T	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." (Article 25 of Chapter 113 of the General Statutes; 1987).
SC	Special Concern	"Any species of wild animal native or once-native to North Carolina which is determined by the Wildlife Resources Commission to require monitoring but which may be taken under regulations adopted under the provisions of this Article." (Article 25 of Chapter 113 of the General Statutes; 1987).

STATUS CODE	STATUS	DEFINITION
SR	Significantly Rare	Any species which has not been listed by the N.C. Wildlife Resources Commission as an Endangered, Threatened, or Special Concern species, but which exists in the state (or recently occurred in the state) in small numbers and has been determined by the N.C. Natural Heritage Program to need monitoring. (This is a N.C. Natural Heritage Program designation.) Significantly Rare species include "peripheral" species, whereby North Carolina lies at the periphery of the species' range (such as Hermit Thrush), as well as species of historical occurrence with some likelihood of re-discovery in the state. Species considered extirpated in the state, with little likelihood of re-discovery, are given no N.C. Status (unless already listed by the N.C. Wildlife Resources Commission as E, T, or SC).
W	Watch List	Any other species believed to be rare and of conservation concern in the state but not warranting active monitoring at this time (see the Watch List section for a more complete discussion). (This is a N.C. Natural Heritage Program designation.)
G	------	Species is a game animal or a furbearer, and therefore (by law) cannot be listed for State protection as E, T, or SC.
EX	Extirpated	A species which is no longer believed to occur in the state. (This is a N.C. Natural Heritage Program designation.)

United States Status. This status is designated by the U.S. Fish and Wildlife Service. Federally listed Endangered and Threatened species are protected under the provisions of the Endangered Species Act of 1973, as amended through the 100th Congress. Unless otherwise noted, definitions are taken from the *Federal Register*, Vol. 56, No. 225, November 21, 1991 (50 CFR Part 17).

STATUS CODE	STATUS	DEFINITION
E	Endangered	A taxon "which is in danger of extinction throughout all or a significant portion of its range" (Endangered Species Act, Section 3).
T	Threatened	A taxon "which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range" (Endangered Species Act, Section 3).
C	Candidate	"Taxa for which the [Fish and Wildlife] Service 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 Service encourages State and other Federal agencies as well as other affected parties to give consideration to these taxa in environmental planning." (*Federal Register*, February 28, 1996). Taxa formerly considered as 'Category 1' are now considered as 'Candidate'.
FSC	(Federal) Species of Concern [also known as Species at Risk]	"... the Service is discontinuing the designation of Category 2 species as candidates in this notice. The Service remains concerned about these species, but further biological research and field study are needed to resolve the conservation status of these taxa. Many species of concern will be found not to warrant listing, either because they are not threatened or endangered or because they do not qualify as species under the definition in the [Endangered Species] Act. Others may be found to be in greater danger of extinction than some present candidate taxa. The Service is working with the States and other private and public interests to assess their need for protection under the Act. Such species are the pool from which future candidates for listing will be drawn." (*Federal Register*, February 28, 1996). The Service suggests that such taxa be considered as "Species of Concern" or "Species at Risk", neither of which has official status. The N.C. Natural Heritage Program uses "(Federal) Species of Concern" in this document for those taxa formerly considered as Category 2.

STATUS CODE	STATUS	DEFINITION
P_	Proposed	Species proposed in the *Federal Register* as a status different from its current Federal status.
T (S/A)	Threatened due to Similarity of Appearance	"Section 4 (e) of the [Endangered Species] Act 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 Act." (*Federal Register*, November 4, 1997). [The American Alligator is listed as T (S/A) due to Similarity of Appearance with other rare crocodilians, and the southern population of the Bog Turtle is listed as T (S/A) due to Similarity of Appearance with the northern population of the Bog Turtle (which is federally listed as Threatened and which does not occur in North Carolina).]
XN	Nonessential Experimental Population	"Section 10 (j) of the Endangered Species Act of 1973, as amended, provides for the designation of introduced populations of federally listed species as nonessential experimental. This designation allows for greater flexibility in the management of these populations by local, state, and Federal agencies. Specifically, the requirement for Federal agencies to avoid jeopardizing these populations by their actions is eliminated and allowances for taking the species are broadened." (U.S. Fish and Wildlife Service, 1995).
D	De-listed	Species has been proposed by the U.S. Fish and Wildlife Service for de-listing from the List of Endangered and Threatened Wildlife. However, at the present time, the species is still on the List of Endangered and Threatened Wildlife and is thus protected under the Endangered Species Act. Because such species still have legal Federal protection, the NHP will maintain existing records on the species, though new records might not necessarily be added. If the status becomes law prior to the next publication of the NHP Rare Animal List, the Program will remove the Federal designation from its database (and thus the species will no longer appear on printouts of Federally listed species). NHP may or may not continue to track the species, depending on its legal State status and other factors such as overall abundance and range in the state.

North Carolina Rank. Natural Heritage Programs and NatureServe have developed a consistent method for evaluating the relative imperilment of both species and ecological communities. These assessments lead to the designation of a conservation status rank. For plant and animal species these ranks provide an estimate of extinction risk. This information has been developed over the past 30 years by the NC Natural Heritage Program, NatureServe, and a large number of collaborators in government agencies, universities, natural history museums and botanical gardens, and other conservation organizations. This information has been developed primarily to help in guiding conservation and informing land use planning and management. Conservation status ranks are based on a one to five scale, ranging from critically imperiled (S1) to demonstrably secure (S5). These status assessments are based on the best available information, considering a variety of factors such as abundance, distribution, population trends, and threats. State ranks are assigned by biologists within each Natural Heritage Program.

RANK	NUMBER OF EXTANT OCCURRENCES	DESCRIPTION
S1	1-5	Critically imperiled - Critically imperiled in North Carolina 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 in North Carolina 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 in North Carolina either because rare or uncommon, or 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 and 10,000 individuals.
S4	100-1000	Apparently secure - Apparently secure and widespread in North Carolina, usually with more than 100 occurrences and more than 10,000 individuals.
S5	1000+	Secure - Common, widespread, and abundant in North Carolina. Essentially ineradicable under present conditions. Typically with considerably more than 100 occurrences and more than 10,000 individuals.
SH	0?	Historical - Of historical occurrence in North Carolina, 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.

RANK	NUMBER OF EXTANT OCCURRENCES	DESCRIPTION
SX	0	Presumed extirpated -- Believed to be extirpated in North Carolina. 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 in North Carolina due to lack of information or substantially conflicting information about status or trends. Need more information.
SNR	Unknown	Not Ranked - Rank in NC not yet assessed.
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 the following 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 North Carolina; - Synonym - the taxon is not recognized by the NC Natural Heritage Program.
_B	1-?	Rank of the breeding population in the state. Used for migratory species only.
_N	1-?	Rank of the non-breeding population in the state. Used for migratory species only.
-?	---	Uncertain - Denotes inexact or uncertain numeric rank.

A rank involving two numbers indicates a range of uncertainty about the conservation rank in North Carolina. For example, a S2S3 rank indicates that the species may be a S2 or a S3, but existing data do not allow that determination to be made.

Global Rank. Global ranks are assigned by NatureServe (formerly the science branch of The Nature Conservancy) staff biologists and contract biologists, based on a consensus of scientific experts, the individual natural heritage programs, and the Natural Heritage Network. They apply to the status of a species throughout its range. This system is widely used by other agencies and organizations, as the best available scientific and objective assessment of a species' rarity throughout its range.

RANK	NUMBER OF EXTANT OCCURRENCES	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 5 or fewer occurrences or 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 because of other factors making it vulnerable to extinction. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals.
G4	100-1000	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	1000+	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 from only 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.

RANK	NUMBER OF EXTANT OCCURRENCES	DESCRIPTION
GNR	Unknown	Not Ranked - Global rank not yet assessed.
T_	–	The rank of a subspecies or variety. 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.
-?	–	Uncertain - Denotes inexact or uncertain numeric rank.
Q	–	Questionable taxonomy 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.

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

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 region(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:

M	Mountains (Blue Ridge)	All parts of North Carolina west of the foot of the Blue Ridge Escarpment.
P	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.
S	Sandhills	The southwestern portion of the Coastal Plain province consisting mostly of deep aeolian sands of the Middendorf and Pinehurst formation (portions of Cumberland, Harnett, Hoke, Lee, Moore, Richmond, Scotland, and Montgomery counties). The Sandhills are actually part of the Coastal Plain but are here distinguished because of their distinctive geomorphology and vegetation.
C	Coastal Plain	All parts of North Carolina east of the Fall Line, but excluding the Sandhills region and those portions associated with tidal water (ocean, sounds, barrier islands, and mainland brackish or salt marshes).
T	Tidewater	That part of the state associated with tidal water, such as the ocean and barrier islands, sounds, estuaries and mainland brackish or salt marshes.

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

Counties of known occurrence. Following the description of habitats is a listing of the known counties of occurrence in the N.C. Natural Heritage Program database.

*	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. Un-surveyed occurrences are regarded as historical after 20-40 years, the number depending on the species and the amount of 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.
+	Counties with obscure or undatable records are marked with a plus (+).
?	If there is some question as to the validity of the county report, it is marked with a question mark (?).

For most vertebrate species, this listing of counties is complete or reasonably complete. However, for some invertebrates and a few vertebrates (generally those newly added to the Rare List), there is no listing of counties, as records have yet to be added to the database. Records taken from dot maps in atlases and other reference books are among the types of data for which a year of last observation cannot be assigned, and thus they appear in this list with a plus (+).

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. Visit the Natural Heritage Program website for the most up-to-date county occurrence information: www.ncnhp.org.

STATUS OF ANIMAL TAXA ON NHP RARE ANIMAL LIST

(as of December, 2012)

Numbers in the table indicate number of taxa – generally species – 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	Total Number of species in North Carolina (rounded to nearest five)	N.C. Status				U.S. Status		
		E	T	SC	SR	E	T	FSC
Mammals	120	5	2	13	9	7	0	9
Birds	475	5	4	20	25	4	1	12
Reptiles	70	5	4	11	9	3	4	4
Amphibians	90	1	4	12	17	0	0	7
Freshwater Fishes	245	10	16	28	21	4	2	28 (+ 1 C)
Freshwater Bivalves	85	20	9	6	8	9	0	12
Freshwater and Terrestrial Gastropods	250+	4	10	24	52	0	1	9 (+ 1 C)
Arachnids	?	0	0	0	13	1	0	2
Crustaceans [Crayfishes]	? [45]	1 [0]	0 [0]	11 [8]	13 [12]	0	0	10
Mayflies	?	0	0	0	18	0	0	1
Stoneflies	?	0	0	0	10	0	0	0
Caddisflies	?	0	0	0	22	0	0	0
Dragonflies and Damselflies	190	0	0	0	40	0	0	8
Macro-moths	1470	0	0	0	109	0	0	4
Butterflies	175	0	0	0	39	1	0	8
Grasshoppers And Katydids	140	0	0	0	29	0	0	0
Beetles	?	0	0	0	6	1	0	1
True Bugs	?	0	0	0	1	0	0	0
Totals	---	52	49	125	441	30	8	115 (+2C)

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Mammals

Canis rufus	**Red Wolf**	**SR**	**E, XN**	**S1**	**G1Q**
CM: swamps, pocosins, extensive forests (Beaufort, Dare, Hyde, Tyrrell, Washington)					
Cervus canadensis	**Elk**	**SC**		**S1**	**G5**
M: mid- to high elevation meadows, grass balds (released in Great Smoky Mountains NP) (Haywood)					
Condylura cristata pop. 1	**Star-nosed Mole - Coastal Plain population**	**SC**		**S2**	**G5T2Q**
SC: moist meadows, bogs, swamps, bottomlands [mountain population not of concern] (Beaufort*, Bladen, Brunswick, Columbus, Craven, Currituck*, Dare, Hoke, Hyde*, Mecklenburg*, Moore, New Hanover*, Pender, Pitt, Randolph, Richmond, Robeson*, Sampson, Scotland, Wake, Washington*)					
Corynorhinus rafinesquii macrotis	**Rafinesque's Big-eared Bat - Coastal Plain subspecies**	**SC**	**FSC**	**S3**	**G3G4T3**
CS: roosts in hollow trees, old buildings, and beneath bridges, usually near water (Beaufort*, Bertie, Bladen, Brunswick, Chowan, Columbus, Craven, Dare, Duplin, Gates, Hertford+, Hoke, Johnston, Martin, Nash+, New Hanover+, Northampton, Pender, Perquimans, Richmond, Robeson, Sampson, Tyrrell, Washington, Wayne*)					
Corynorhinus rafinesquii rafinesquii	**Rafinesque's Big-eared Bat - Mountain subspecies**	**T**	**FSC**	**S2**	**G3G4T3**
M: roosts in caves, mines, and hollow trees, usually near water (Alexander*, Buncombe*, Burke, Cherokee*, Graham, Haywood, Macon, Madison*, Swain, Transylvania*)					
Corynorhinus townsendii virginianus	**Virginia Big-eared Bat**	**E**	**E**	**S1**	**G3G4T2**
M: roosts in caves (and rarely in mines), especially in limestone areas (Avery, Watauga, Yancey)					
Glaucomys sabrinus coloratus	**Carolina Northern Flying Squirrel**	**E**	**E**	**S2**	**G5T2**
M: high elevation forests, mainly spruce-fir (Avery, Buncombe, Caldwell, Graham, Haywood, Jackson, McDowell, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Lasiurus intermedius	**Northern Yellow Bat**	**SC**		**S1**	**G4G5**
CP: roosts in Spanish moss and other thick vegetation near water, often in longleaf pine habitats (Brunswick, Mecklenburg, New Hanover)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Microtus chrotorrhinus carolinensis	**Southern Rock Vole**	**SC**	**FSC**	**S3**	**G4T3**
M: rocky areas at high elevations, forests or fields (Avery, Haywood, Jackson*, Macon, McDowell*, Swain, Yancey)					
Mustela nivalis	**Least Weasel**	**SR-G**		**S2**	**G5**
M: fields and forests, mostly at high elevations (Avery, Buncombe, Haywood, Henderson, Jackson, Madison*, Mitchell*, Watauga, Yancey*)					
Myotis austroriparius	**Southeastern Myotis**	**SC**	**FSC**	**S2**	**G3G4**
CP: roosts in buildings, hollow trees; forages near water (Bertie, Bladen, Chowan, Clay, Columbus, Craven, Gates, Halifax, Hoke, Johnston, Martin, Moore, New Hanover, Pender, Richmond, Robeson, Scotland, Wake*)					
Myotis grisescens	**Gray Myotis**	**E**	**E**	**S1**	**G3**
M: roosts in caves; forages mainly over open water (Buncombe, Haywood, Swain)					
Myotis leibii	**Eastern Small-footed Myotis**	**SC**	**FSC**	**S2**	**G1G3**
M: roosts in hollow trees and in rock crevices (warmer months), in caves and mines (winter) (Alleghany, Avery, Buncombe, Cherokee, Clay, Davidson, Graham, Haywood, Henderson, Jackson, Macon, Rutherford, Swain, Watauga, Wilkes, Yancey)					
Myotis lucifugus	**Little Brown Myotis**	**SR**		**S3**	**G3**
MPC: roosts in buildings (summer), in caves and mines (winter) (Bertie, Buncombe, Catawba, Durham, Haywood, Henderson, Macon, Mitchell, Northampton, Swain)					
Myotis septentrionalis	**Northern Myotis**	**SR**		**S3**	**G3**
MP: roosts in hollow trees and buildings (warmer months), in caves and mines (winter) (Ashe, Avery, Buncombe, Burke, Cherokee*, Clay+, Graham, Haywood, Henderson, Jackson, Macon, Madison, McDowell, Polk, Rutherford, Swain, Transylvania, Wake*, Watauga, Wilkes, Yancey)					
Myotis sodalis	**Indiana Myotis**	**E**	**E**	**S1S2**	**G2**
M: roosts in hollow trees or under loose bark and snags (warmer months), in caves (winter) (Cherokee, Graham, Haywood, Henderson, Jackson*, Mitchell, Rutherford, Swain)					
Neotoma floridana floridana	**Eastern Woodrat - Coastal Plain population**	**T**		**S1**	**G5T5**
C: forests, mainly in moist areas (Brunswick*, Carteret*, New Hanover, Onslow, Pender)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Neotoma magister	**Appalachian Woodrat**	**SC**	**FSC**	**S2S3**	**G3G4**
MP: rocky places and abandoned buildings in deciduous or mixed forests in the northern mountains and adjacent Piedmont (Ashe, Avery, Buncombe, Burke, Caldwell, Iredell, McDowell, Mitchell, Watauga, Yancey)					
Perimyotis subflavus	**Tricolored Bat**	**SR**		**S3**	**G3**
MPSC: roosts in clumps of leaves (mainly in summer), caves, rock crevices, and other dark and sheltered places (records not yet entered)					
Peromyscus leucopus buxtoni	**Buxton Woods White-footed Mouse**	**SC**	**FSC**	**S1**	**G5T1**
T: maritime forests in Cape Hatteras vicinity (endemic to this area) (Dare)					
Peromyscus leucopus easti	**Pungo White-footed Mouse**	**SC**		**S1**	**G5T1**
T: dunes and maritime thickets along coast south to Corolla (Currituck)					
Peromyscus polionotus	**Oldfield Mouse**	**SC**		**S1**	**G5**
P: sandy, fallow fields near South Carolina line (Cleveland, Mecklenburg, Rutherford)					
Sorex dispar	**Long-tailed Shrew**	**SC**		**S3**	**G4**
M: high elevation forests with talus or rocky slopes (Avery, Buncombe, Caldwell, Haywood, Henderson, Jackson, Macon, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Sorex palustris punctulatus	**Southern Water Shrew**	**SC**	**FSC**	**S3**	**G5T3**
M: stream banks in montane forests (Avery, Buncombe, Clay, Haywood, Jackson, Macon, Swain, Watauga)					
Sorex sp. 1	**an undescribed shrew**	**SR**		**S1S2**	**G2Q**
C: early succession fields, possibly low pocosins (endemic to eastern North Carolina) (Dare, Hyde)					
Spilogale putorius	**Eastern Spotted Skunk**	**SR-G**		**S2**	**G5**
M: open forests with rocks, cliffs, and other den sites (Ashe, Avery+, Buncombe+, Caldwell+, Cherokee+, Haywood+, Henderson+, Macon+, McDowell+, Mitchell+, Rutherford+, Swain+, Transylvania+, Watauga+, Yancey+)					
Sylvilagus obscurus	**Appalachian Cottontail**	**SR-G**	**FSC**	**S3**	**G4**
M: dense cover of montane woods and thickets (Alleghany, Ashe, Avery, Caldwell, Clay, Graham, Haywood, Macon, Mitchell, Swain, Transylvania*, Watauga, Yancey)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Synaptomys cooperi helaletes	**Dismal Swamp Southern Bog Lemming**	**SR**		**S2S3**	**G5T3**
C: low pocosins, early succession wetlands (Beaufort, Carteret, Craven, Gates, Jones, Pasquotank, Perquimans)					
Trichechus manatus	**West Indian Manatee**	**E**	**E**	**S1N**	**G2**
T: warm waters of estuaries and river mouths (Beaufort, Brunswick, Carteret, Craven, Currituck, Dare, Hyde, Jones, Lenoir, New Hanover, Onslow, Pamlico, Pender, Pitt)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Birds

Accipiter striatus	**Sharp-shinned Hawk**	**SR**		**S2?B,S4N**	**G5**
MPS: forests and woodlands (for nesting) [breeding evidence only] (Avery, Mitchell+, Orange, Watauga, Yancey)					
Aegolius acadicus pop. 1	**Southern Appalachian Northern Saw-whet Owl**	**T**	**FSC**	**S2B,S2N**	**G5T3**
M: spruce-fir forests or mixed hardwood/spruce forests (for nesting) [breeding season only] (Avery, Buncombe, Graham, Haywood, Jackson, Macon, Madison, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Ammodramus henslowii	**Henslow's Sparrow**	**SC**	**FSC**	**S1B,S1N**	**G4**
C: clearcut pocosins and other damp weedy fields [breeding season only] (Beaufort, Bertie, Brunswick, Carteret, Columbus, Edgecombe, Gates, Martin, Onslow, Pender, Pitt, Wilson)					
Botaurus lentiginosus	**American Bittern**	**SR**		**S1B,S3N**	**G4**
CT: fresh or brackish marshes [breeding season only] (Beaufort, Carteret, Hyde, Pamlico)					
Catharus guttatus	**Hermit Thrush**	**SR**		**S2B,S5N**	**G5**
M: spruce-fir forests (for nesting) [breeding season only] (Avery, Buncombe, Haywood, Jackson, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Catharus ustulatus	**Swainson's Thrush**	**SR**		**S1B,S5N**	**G5**
M: spruce-fir forests [breeding season only] (Buncombe, Mitchell, Yancey)					
Certhia americana	**Brown Creeper**	**SC**		**S3B,S5N**	**G5**
M: high elevation forests, favoring spruce-fir mixed with hardwoods [breeding season only] (Avery, Buncombe, Burke, Graham, Haywood, Jackson, Macon, Madison, McDowell, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Charadrius melodus	**Piping Plover**	**T**	**T**	**S1B,S1N**	**G3**
T: ocean beaches and island-end flats [breeding evidence only] (Brunswick, Carteret, Currituck, Dare, Hyde, New Hanover*, Onslow, Pender)					
Charadrius wilsonia	**Wilson's Plover**	**SC**		**S2B**	**G5**
T: beaches, island-end flats, estuarine islands [breeding evidence only] (Brunswick, Carteret, Dare, Hyde, New Hanover, Onslow, Pender)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Chondestes grammacus	**Lark Sparrow**	**SR**		**S1B**	**G5**
S: barren, sandy fields with scattered saplings in the sandhills region [breeding season only] (Cumberland, Hoke, Richmond, Scotland)					
Circus cyaneus	**Northern Harrier**	**SR**		**S1B,S4N**	**G5**
T: extensive brackish marshes (for nesting) [breeding evidence only] (Carteret, Dare, Hyde)					
Coccyzus erythropthalmus	**Black-billed Cuckoo**	**SR**		**S2B**	**G5**
M: deciduous forests, mainly at higher elevations [breeding season and habitat only] (Ashe, Avery, Buncombe, Burke, Caldwell, Haywood, Henderson, Jackson, McDowell, Mitchell+, Transylvania, Watauga)					
Columbina passerina	**Common Ground-Dove**	**SR**		**SXB**	**G5**
T: dunes, sandy fields, margins of maritime woods and thickets [breeding season only] (Brunswick*, New Hanover*, Pender*)					
Dolichonyx oryzivorus	**Bobolink**	**SR**		**S1B**	**G5**
M: meadows and other grasslands [breeding season only] (Ashe, Haywood, Henderson, Transylvania, Watauga)					
Egretta caerulea	**Little Blue Heron**	**SC**		**S3B,S3N**	**G5**
T: forests or thickets on maritime islands [breeding sites only] (Brunswick, Carteret, Columbus, Cumberland, Currituck, Dare, Hyde, Jones, New Hanover, Robeson)					
Egretta thula	**Snowy Egret**	**SC**		**S2S3B,S3N**	**G5**
T: forests or thickets on maritime islands [breeding sites only] (Brunswick, Carteret, Columbus, Currituck, Dare, Hyde, New Hanover, Robeson)					
Egretta tricolor	**Tricolored Heron**	**SC**		**S3B,S3N**	**G5**
T: forests or thickets on maritime islands [breeding sites only] (Brunswick, Carteret, Currituck, Dare, Hyde, New Hanover)					
Elanoides forficatus	**Swallow-tailed Kite**	**SR**	**FSC**	**S1B**	**G5**
C: swamps and bottomlands near lower Cape Fear River, often forages over nearby fields or marshes [breeding season only] (Bladen, Columbus, Pender)					
Empidonax alnorum	**Alder Flycatcher**	**SR**		**S2B**	**G5**
M: high elevation shrub/sapling thickets [breeding season only] (Alleghany, Ashe, Avery, Buncombe, Haywood, Jackson, Mitchell, Watauga, Yancey)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Falco peregrinus	**Peregrine Falcon**	**E**		**S1B,S2N**	**G4**
MT: cliffs (for nesting); coastal ponds and mudflats (for foraging in winter) [nesting evidence; regular wintering sites] (Avery, Brunswick, Buncombe, Burke, Carteret, Dare, Haywood, Hyde, Jackson, Macon, Madison, McDowell, Rutherford, Stokes*, Surry, Swain, Transylvania, Wilkes*, Yancey)					
Gelochelidon nilotica	**Gull-billed Tern**	**T**		**S1S2B**	**G5**
T: sand flats on maritime islands [breeding sites only] (Brunswick, Carteret, Dare, Hyde, New Hanover*, Onslow*)					
Haematopus palliatus	**American Oystercatcher**	**SC**		**S2S3B,S3N**	**G5**
T: estuaries, oyster beds, mudflats [breeding evidence only] (Brunswick, Carteret, Dare, Hyde, New Hanover, Onslow, Pender)					
Haliaeetus leucocephalus	**Bald Eagle**	**T**		**S3B,S3N**	**G5**
PCTM: mature forests near large bodies of water (for nesting); lakes and sounds [nesting sites; regular non-breeding sites] (Alexander, Anson, Beaufort, Bertie, Bladen, Brunswick, Burke, Cabarrus, Camden*, Carteret, Catawba, Chatham, Cherokee, Chowan, Clay, Columbus, Craven, Currituck, Dare, Davidson, Durham, Edgecombe, Franklin, Gaston, Gates, Graham, Granville, Guilford, Halifax, Harnett*, Haywood, Hyde, Johnston, Jones, Lee*, Lenoir, Macon, Martin, Mecklenburg, Montgomery, Nash, New Hanover, Northampton, Onslow, Orange, Pamlico, Pasquotank, Pender, Perquimans, Pitt, Rowan, Stanly, Surry, Swain, Tyrrell, Union, Vance, Wake, Warren, Washington, Wayne*, Yadkin)					
Himantopus mexicanus	**Black-necked Stilt**	**SR**		**S1B**	**G5**
T: fresh or brackish ponds and impoundments [breeding sites only] (Beaufort, Brunswick, Carteret, Dare, Onslow, Pamlico)					
Hydroprogne caspia	**Caspian Tern**	**SR**		**S1B,S2N**	**G5**
T: sand flats on maritime islands [breeding sites only] (Dare, Hyde*)					
Ixobrychus exilis	**Least Bittern**	**SC**		**S2S3B**	**G5**
TCP: fresh or brackish marshes [breeding season only] (Beaufort, Brunswick, Carteret, Craven*, Currituck, Dare, Hyde, Moore*, New Hanover, Onslow, Pamlico, Pender, Tyrrell*, Washington, Wayne)					
Laterallus jamaicensis	**Black Rail**	**SC**	**FSC**	**S2S3B,S2N**	**G4**
TCP: brackish marshes, rarely fresh marshes [breeding season only] (Carteret, Craven, Currituck, Dare, Hyde, New Hanover, Onslow, Pamlico)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Loxia curvirostra pop. 1	**Southern Appalachian Red Crossbill**	**SC**	**FSC**	**S3B,S3N**	**G5T3**
M: coniferous forests, preferably spruce-fir [breeding season only] (Ashe, Avery, Buncombe, Burke, Haywood, Jackson, McDowell, Mitchell, Swain, Transylvania, Yancey)					
Mycteria americana	**Wood Stork**	**E**	**E,PT**	**S1B,S1N**	**G4**
CT: swamps, fresh or brackish ponds (for foraging) [breeding sites and regular non-breeding sites] (Bladen, Brunswick, Columbus, Sampson)					
Nyctanassa violacea	**Yellow-crowned Night-Heron**	**SR**		**S2B**	**G5**
CPT: inland swamps; woods or thickets on maritime islands [breeding evidence only] (records not yet entered)					
Passerculus sandwichensis	**Savannah Sparrow**	**SR**		**S2B,S5N**	**G5**
M: grassy fields and pastures [breeding season only] (Alleghany, Ashe, Watauga)					
Passerina ciris ciris	**Eastern Painted Bunting**	**SC**	**FSC**	**S3B**	**G5T3T4**
T: maritime shrub thickets and forest edges [breeding season only] (Brunswick, Carteret, New Hanover, Onslow, Pender)					
Pelecanus occidentalis	**Brown Pelican**	**SR**		**S3B,S4N**	**G4**
T: maritime islands [breeding sites only] (Brunswick, Carteret, Dare, Hyde, New Hanover)					
Peucaea aestivalis	**Bachman's Sparrow**	**SC**	**FSC**	**S3B,S2N**	**G3**
CSP: open longleaf pine forests, old fields [breeding season only] (Bladen, Brunswick, Buncombe*, Carteret, Chatham, Columbus, Craven, Cumberland, Halifax, Harnett, Hoke, Jones, Macon*, Moore, Onslow, Pender, Richmond, Robeson*, Sampson, Scotland, Wake*, Warren)					
Phalacrocorax auritus	**Double-crested Cormorant**	**SR**		**S1B,S5N**	**G5**
CP: lakes with scattered trees for nesting [breeding sites only] (Chatham, Craven)					
Picoides borealis	**Red-cockaded Woodpecker**	**E**	**E**	**S2**	**G3**
CSP: mature open pine forests, mainly in longleaf pine [breeding evidence only] (Anson*, Beaufort, Bertie*, Bladen, Brunswick, Camden, Carteret, Chatham*, Columbus, Craven, Cumberland, Currituck*, Dare, Duplin*, Durham*, Edgecombe*, Forsyth*, Gates, Greene*, Halifax*, Harnett, Hertford, Hoke, Hyde, Johnston, Jones, Lee*, Lenoir*, Montgomery, Moore, Nash*, New Hanover, Northampton*, Onslow, Orange*, Pamlico*, Pender, Pitt*, Richmond, Robeson, Sampson, Scotland, Tyrrell, Wake*, Washington, Wayne, Wilson*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Plegadis falcinellus	**Glossy Ibis**	**SC**		**S1S2B**	**G5**
T: forests or thickets on maritime islands [breeding sites only] (Brunswick, Carteret, Currituck, Dare, Hyde, New Hanover)					
Poecile atricapillus practica	**Southern Appalachian Black-capped Chickadee**	**SC**	**FSC**	**S3**	**G5T3**
M: high elevation forests, mainly spruce-fir [breeding season only] (Avery, Buncombe*, Haywood, Jackson, Swain, Transylvania, Yancey*)					
Pooecetes gramineus	**Vesper Sparrow**	**SC**		**S2B,S2N**	**G5**
M: high elevation pastures and grassy fields [breeding season only] [Alleghany] (Ashe, Avery, Haywood, Mitchell, Watauga)					
Porphyrio martinicus	**Purple Gallinule**	**SR**		**SHB**	**G5**
C: freshwater ponds with floating vegetation [breeding sites only] (Brunswick*, Onslow*, Robeson*)					
Riparia riparia	**Bank Swallow**	**SR**		**S1B**	**G5**
MP: high, vertical banks for nesting [breeding sites only] (Avery, Wilkes*)					
Rynchops niger	**Black Skimmer**	**SC**		**S2B,S3N**	**G5**
T: sand flats on maritime islands [breeding sites only] (Brunswick, Carteret, Dare, Hyde, New Hanover, Onslow, Pender)					
Setophaga cerulea	**Cerulean Warbler**	**SC**	**FSC**	**S2B**	**G4**
MC: mature hardwood forests; steep slopes and coves in mountains, natural levees in Coastal Plain [breeding season only] (Bertie, Buncombe, Caldwell, Clay, Graham, Halifax, Haywood, Johnston, Macon, Madison, Martin, McDowell, Northampton, Polk, Rutherford, Transylvania, Watauga, Wilkes, Yancey)					
Setophaga coronata	**Yellow-rumped Warbler**	**SR**		**S1B,S5N**	**G5**
M: spruce-fir forests, especially in immature stands [breeding season only] (Haywood, Mitchell, Swain, Yancey)					
Setophaga magnolia	**Magnolia Warbler**	**SR**		**S2B**	**G5**
M: spruce-fir forests, especially in immature stands [breeding season only] (Avery, Buncombe, Graham, Haywood, Jackson, McDowell, Mitchell, Watauga, Yancey)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Setophaga virens waynei	**Black-throated Green Warbler - Coastal Plain population**	**SR**	**FSC**	**S2S3B**	**G5T3**
C: nonriverine wetland forests, especially where white cedar or cypress are mixed with hardwoods [breeding season only] (Beaufort, Bladen, Brunswick, Camden, Carteret, Craven, Cumberland, Dare, Gates, Hyde, Jones, Pamlico, Tyrrell, Washington)					
Sterna dougallii	**Roseate Tern**	**E**	**E**	**SHB**	**G4**
T: sand flats on maritime islands [breeding evidence only] (Carteret*, Dare*)					
Sterna hirundo	**Common Tern**	**SC**		**S2B**	**G5**
T: sand flats on maritime islands [breeding sites only] (Carteret, Dare, Hyde, New Hanover, Onslow, Pender)					
Sternula antillarum	**Least Tern**	**SC**		**S3B**	**G4**
T: beaches, sand flats, open dunes [breeding sites only] (Brunswick, Carteret, Craven, Currituck, Dare, Hyde, New Hanover, Onslow, Pender)					
Thryomanes bewickii altus	**Appalachian Bewick's Wren**	**E**	**FSC**	**SXB**	**G5T2Q**
M: woodland borders or openings, farmlands or brushy fields, at high elevations [breeding season only] (Ashe*, Avery, Buncombe*, Haywood, Jackson*, Macon*, Transylvania*)					
Tyto alba	**Barn Owl**	**SR**		**S2S3B,S3N**	**G5**
MPCT: extensive open country, nesting in old buildings, silos, large tree cavities [breeding season only] (records not yet entered)					
Vermivora chrysoptera	**Golden-winged Warbler**	**SC**	**FSC**	**S3B**	**G4**
M: old fields and successional hardwoods [breeding season only] [most mountain counties] (Alleghany, Ashe, Avery, Graham, Haywood, Jackson, Macon, Madison, Watauga)					
Vermivora cyanoptera	**Blue-winged Warbler**	**SR**		**S2B**	**G5**
M: low elevation brushy fields and thickets [breeding season only] (Alleghany, Ashe, Buncombe, Cherokee, Graham, Macon)					
Vireo gilvus	**Warbling Vireo**	**SR**		**S2B**	**G5**
MP: groves of hardwoods along rivers and streams [breeding season only] (Alleghany, Ashe, Avery, Bertie, Buncombe, Caldwell, Cleveland, Halifax, Henderson, Macon*, Orange, Watauga)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Reptiles

Alligator mississippiensis	**American Alligator**	**T**	**T (S/A)**	**S3**	**G5**
CT: fresh to slightly brackish lakes, ponds, rivers, and marshes (Beaufort*, Bladen, Brunswick, Camden, Carteret, Columbus, Craven, Cumberland, Currituck, Dare+, Duplin, Gates, Harnett, Hoke, Hyde+, Jones, Lenoir*, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Pitt*, Richmond*, Robeson, Sampson, Scotland, Tyrrell+, Washington+)					
Apalone spinifera spinifera	**Eastern Spiny Softshell**	**SC**		**S1**	**G5T5**
M: large streams in the French Broad system (Buncombe, Madison)					
Caretta caretta	**Loggerhead Seaturtle**	**T**	**T**	**S3B,S3N**	**G3**
T: nests on beaches; forages in ocean and sounds (Brunswick, Carteret, Currituck, Dare, Hyde, New Hanover, Onslow, Pender)					
Chelonia mydas	**Green Seaturtle**	**T**	**T**	**S1B,SUN**	**G3**
T: nests on beaches; forages in ocean and sounds (Brunswick, Carteret, Dare, Hyde+, New Hanover, Onslow, Pender)					
Crotalus adamanteus	**Eastern Diamondback Rattlesnake**	**E**		**S1**	**G4**
C: pine flatwoods, savannas, pine-oak sandhills (Bladen, Brunswick, Carteret, Columbus, Craven*, Cumberland*, Duplin, Jones*, New Hanover, Onslow, Pender, Robeson*, Sampson*)					
Crotalus horridus	**Timber Rattlesnake**	**SC**		**S3**	**G4**
CMP: wetland forests in the Coastal Plain; rocky, upland forests elsewhere [NHP will soon track 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+, Washington+, Watauga, Wayne+, Wilkes, Yadkin, Yancey+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Deirochelys reticularia	**Chicken Turtle**	**SR**		**S3**	**G5**
SC: quiet waters of ponds, ditches, and sluggish streams (Bladen, Brunswick, Carteret, Columbus, Craven, Cumberland, Dare, Hoke, New Hanover, Onslow, Pender, Robeson, Sampson, Scotland, Wayne)					
Dermochelys coriacea	**Leatherback Seaturtle**	**E**	**E**	**S1B,SUN**	**G2**
T: oceans, rarely in sounds (Brunswick, Carteret, Craven, Currituck, Dare, Hyde, New Hanover, Onslow)					
Eretmochelys imbricata	**Hawksbill Seaturtle**	**E**	**E**	**SUN**	**G3**
T: oceans, very rarely in sounds (Carteret+, Dare)					
Eumeces 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)					
Farancia erytrogramma	**Rainbow Snake**	**SR**		**S3**	**G4**
CS: swamps, lakes, rivers, and other sluggish water (Beaufort, Bladen, Brunswick, Camden+, Carteret, Chowan+, Columbus, Craven, Cumberland, Currituck, Dare, Duplin, Gates, Hoke, Hyde, Johnston, Jones, Lenoir+, Moore, New Hanover, Onslow+, Pamlico, Pasquotank, Pender, Perquimans, Pitt, Robeson, Sampson, Tyrrell)					
Glyptemys muhlenbergii	**Bog Turtle**	**T**	**T (S/A)**	**S2**	**G3**
MP: bogs, wet pastures, wet thickets (Alexander*, Alleghany, Ashe, Avery, Buncombe, Burke, Caldwell, Cherokee, Clay, Forsyth, Gaston, Graham, Henderson, Iredell*, Macon, McDowell, Mitchell, Surry, Transylvania, Watauga, Wilkes, Yancey)					
Graptemys geographica	**Common Map Turtle**	**SR**		**S1**	**G5**
M: rivers in the Hiwassee system (Cherokee)					
Heterodon simus	**Southern Hognose Snake**	**SC**	**FSC**	**S2**	**G2**
SC: sandy woods, particularly pine-oak sandhills (Bladen, Brunswick, Carteret*, Craven, Cumberland, Duplin, Edgecombe, Hoke, Jones, Moore, New Hanover, Onslow, Pender, Pitt, Richmond, Robeson, Sampson, Scotland, Wake, Wayne)					
Lampropeltis getula sticticeps	**Outer Banks Kingsnake**	**SC**		**S2**	**G5T2Q**
T: maritime forests, thickets, and grasslands on the Outer Banks (endemic to North Carolina) (Carteret, Currituck, Dare, Hyde)					

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Region: Habitat Comments (Counties of Occurrence)					
Lepidochelys kempii	**Kemp's Ridley Seaturtle**	**E**	**E**	**S1B,SUN**	**G1**
T: ocean and sounds (Beaufort, Brunswick, Carteret, Dare, Hyde, Pamlico)					
Malaclemys terrapin	**Diamondback Terrapin**	**SC**	**FSC, in part**	**S3**	**G4**
T: salt or brackish marshes, estuaries (Beaufort+, Brunswick, Carteret, Dare, Hyde+, New Hanover, Onslow, Pamlico, Pender)					
Masticophis flagellum	**Coachwhip**	**SR**		**S3**	**G5**
SCTP: dry and sandy woods, mainly in pine/oak sandhills (Anson, Bladen, Brunswick, Carteret, Cumberland, Harnett, Hoke, Lenoir, Montgomery, Moore, New Hanover, Onslow, Pender, Richmond, Sampson, Scotland, Stanly, Union, Wayne)					
Micrurus fulvius	**Eastern Coral Snake**	**E**		**S1**	**G5**
CS: pine-oak sandhills, sandy flatwoods, maritime forests (Bladen, Brunswick, Cumberland, Harnett+, Hoke*, Moore*, New Hanover, Onslow, Pender, Robeson, Scotland+)					
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	**Slender Glass Lizard**	**SR**		**S2**	**G5**
CPSM: old fields, wooded edges, open woods (Beaufort, Bertie, Bladen, Brunswick, Chatham, Cherokee, Chowan, Clay, Columbus, Durham, Edgecombe, Franklin, Gates, Halifax, Harnett, Iredell, Johnston, Lenoir, Orange, Pitt, Stanly, Vance, Wake, Warren, Wilson+)					
Ophisaurus mimicus	**Mimic Glass Lizard**	**SC**	**FSC**	**S1**	**G3**
C: pine flatwoods, savannas, pine/oak sandhills (Bladen, Brunswick, Carteret, Columbus*, New Hanover*, Onslow, Sampson)					
Pituophis melanoleucus melanoleucus	**Northern Pine Snake**	**SC**	**FSC**	**S2**	**G4T4**
SCM: dry and sandy woods, mainly in pine/oak sandhills (Brunswick, Cherokee, Clay, Cumberland, Graham*, Harnett, Hoke, Montgomery, Moore, New Hanover, Richmond, Rutherford, Scotland, Swain*)					
Regina rigida	**Glossy Crayfish Snake**	**SR**		**S2S3**	**G5**
C: marshes, cypress ponds, other wetlands (Bladen, Brunswick, Carteret, Craven, Dare, Hoke, Hyde, Jones, New Hanover*, Onslow, Robeson, Tyrrell)					

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Region: Habitat Comments (Counties of Occurrence)					
Seminatrix pygaea	**Black Swamp Snake**	**SR**		**S2**	**G5**
C: in lush vegetation of ponds, ditches, or sluggish streams (Brunswick, Carteret, Craven, Dare, Hyde, New Hanover, Onslow, Pender*, Tyrrell)					
Sistrurus miliarius	**Pigmy Rattlesnake**	**SC**		**S3**	**G5**
CSP: pine flatwoods, pine/oak sandhills, other pine/oak forests (Beaufort, Bladen, Brunswick, Carteret, Cleveland*, Craven, Cumberland, Gaston, Harnett, Hoke, Hyde, Montgomery, Moore, New Hanover, Onslow, Pender, Pitt, Richmond, Sampson, Scotland, Tyrrell)					
Sternotherus minor	**Loggerhead Musk Turtle**	**SC**		**S1**	**G5**
M: streams and rivers in Mississippi drainage (Cherokee, Madison)					
Trachemys scripta troostii	**Cumberland Slider**	**SR**		**S1**	**G5T4**
M: rivers in French Broad drainage (Madison) (Madison)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Amphibians

Ambystoma mabeei	**Mabee's Salamander**	**SR**		**S2**	**G4**
CS: shallow ephemeral wetlands, such as Carolina bays, vernal pools, and sinkholes (Bertie, Bladen, Brunswick, Carteret, Columbus*, Cumberland, Dare, Duplin, Hoke, New Hanover*, Onslow, Pender*, Perquimans, Richmond, Robeson, Sampson, Scotland)					
Ambystoma talpoideum	**Mole Salamander**	**SC**		**S2S3**	**G5**
MP: breeds in fish-free semipermanent woodland ponds; forages in adjacent woodlands (Alleghany, Buncombe, Cherokee, Davidson, Granville, Guilford, Henderson, Macon, Montgomery, Person, Polk, Richmond, Rockingham, Rowan, Stanly, Surry, Transylvania, Union)					
Ambystoma tigrinum	**Eastern Tiger Salamander**	**T**		**S2**	**G5**
SC: breeds in fish-free semipermanent ponds; forages in adjacent woods, usually sandy pinewoods (Cumberland, Hoke, Richmond, Robeson, Scotland, Wake)					
Aneides aeneus	**Green Salamander**	**E**	**FSC**	**S2S3**	**G3G4**
M: damp, shaded crevices of cliffs or rock outcrops in deciduous forests (southern mountains) (Henderson, Jackson, Macon, Polk, Rutherford, Transylvania)					
Bufo quercicus	**Oak Toad**	**SR**		**S3**	**G5**
CS: pine flatwoods and savannas, pine sandhills where near water (Beaufort, Bladen, Brunswick, Carteret, Columbus, Craven, Cumberland, Dare, Edgecombe+, Hertford, Hoke, Hyde, Johnston, Lee, Lenoir+, Martin, Nash, New Hanover, Onslow, Pamlico, Pender, Perquimans, Richmond+, Robeson, Sampson, Scotland, Tyrrell, Washington, Wayne, Wilson)					
Cryptobranchus alleganiensis	**Hellbender**	**SC**	**FSC**	**S3**	**G3G4**
M: large and clear fast-flowing streams (Alleghany, Ashe, Avery, Buncombe, Cherokee, Clay, Graham, Haywood, Henderson, Jackson, Macon, Madison, Mitchell, Swain, Transylvania, Watauga, Yancey)					
Desmognathus folkertsi	**Dwarf Blackbelly Salamander**	**SR**		**S1**	**G2**
M: small streams and seeps in forests (Clay)					
Desmognathus organi	**Northern Pigmy Salamander**	**SR**	**FSC**	**S2**	**G3**
M: spruce-fir and other high elevation forests; northeast of the French Broad River (Ashe*, Avery, Buncombe, Caldwell, McDowell*, Mitchell, Watauga, Yancey)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Desmognathus santeetlah	**Santeetlah Dusky Salamander**	**SR**		**S2S3**	**G3G4Q**
M: stream headwaters and seepage areas; southwestern mountains (Graham, Haywood, Jackson, Swain)					
Desmognathus wrighti	**Southern Pigmy Salamander**	**SR**	**FSC**	**S2S3**	**G3G4**
M: mid- to high elevation forests, often in spruce-fir; west of the French Broad River (Clay, Haywood, Henderson, Jackson, Macon, Swain, Transylvania)					
Eurycea bislineata	**Northern Two-lined Salamander**	**SR**		**S1**	**G5**
P: edges of creeks in forested areas (Vance)					
Eurycea junaluska	**Junaluska Salamander**	**T**	**FSC**	**S1S2**	**G3**
M: forests near seeps and streams in the Cheoah River system [records from Cherokee and Clay represent specimens of uncertain taxonomy] (Cherokee, Clay, Graham)					
Eurycea longicauda	**Longtail Salamander**	**SC**		**S1S2**	**G5**
M: moist woods and floodplains; small ponds for breeding (Alleghany*, Clay, Graham, Haywood, Macon, Watauga)					
Eurycea quadridigitata	**Dwarf Salamander**	**SC**		**S2**	**G5**
C: pocosins, Carolina bays, pine flatwoods, savannas, and other wetland habitats (Bladen+, Columbus+, Hoke, Robeson, Scotland)					
Hemidactylium scutatum	**Four-toed Salamander**	**SC**		**S3**	**G5**
MPC: pools, bogs, and other wetlands in hardwood forests (Alamance+, Avery, Bladen, Buncombe, Chatham, Cherokee, Clay, Cumberland*, Duplin, Durham, Franklin, Gates, Graham, Granville, Henderson, Macon, Mitchell, Montgomery, Moore, Nash, Orange, Pender, Person, Polk+, Randolph, Rockingham, Stokes, Surry, Wake)					
Hyla andersonii	**Pine Barrens Treefrog**	**SR**		**S3**	**G4**
SC: pocosins, bay forests, boggy areas (Bladen, Cumberland, Harnett, Hoke, Johnston*, Jones, Lee*, Moore, Onslow, Richmond, Sampson, Scotland, Wayne*)					
Hyla versicolor	**Northern Gray Treefrog**	**SR**		**S2S3**	**G5**
PM?: deciduous or mixed forests, often near water; near VA border, but range uncertain in NC (Caswell, Davie, Iredell, Person, Warren)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Necturus lewisi	**Neuse River Waterdog**	**SC**		**S2**	**G2**
PC: rivers and large streams in Neuse and Tar drainages (endemic to North Carolina) (Beaufort*, Craven*, Durham, Edgecombe, Franklin, Granville*, Greene*, Halifax, Johnston, Jones, Lenoir, Nash, Orange, Person*, Pitt, Vance*, Wake, Warren, Wayne, Wilson*)					
Necturus maculosus	**Common Mudpuppy**	**SC**		**S1**	**G5**
M: rivers and large streams in New, French Broad, and Little Tennessee drainages (Alleghany, Ashe, Buncombe*, Henderson, Macon, Madison, Transylvania*)					
Plethodon amplus	**Blue Ridge Gray-cheeked Salamander**	**SR**		**S2**	**G2**
M: mesic forests in the Hickorynut Gorge vicinity (endemic to this area) (Buncombe, Henderson, Rutherford)					
Plethodon aureolus	**Tellico Salamander**	**SR**		**S2?**	**G2G3**
M: forests in the Unicoi Mountains (Cherokee, Graham, Swain)					
Plethodon chattahoochee	**Chattahoochee Slimy Salamander**	**SR**		**S1S2**	**G2G3Q**
M: moist forests in the southwestern counties, close to the Georgia border (Clay)					
Plethodon cheoah	**Cheoah Bald Salamander**	**SR**		**S1S2**	**G1G2**
M: mesic forests on Cheoah Bald (endemic to this area) (Graham, Swain)					
Plethodon meridianus	**South Mountain Gray-cheeked Salamander**	**SR**		**S2**	**G2**
P: mesic forests of the South Mountains (endemic to this area) (Burke, Cleveland)					
Plethodon shermani	**Red-legged Salamander**	**SR**		**S3**	**G3**
M: moist forests in the southwestern counties (Cherokee, Clay, Macon)					
Plethodon ventralis	**Southern Zigzag Salamander**	**SC**		**S1**	**G4**
M: moist areas of talus slopes or rock outcrops in hardwood forests (Buncombe, Haywood, Henderson*, Madison, Yancey)					
Plethodon wehrlei	**Wehrle's Salamander**	**T**		**S1S2**	**G4**
P: upland forests (low mountains near Virginia border) (Alleghany, Stokes, Surry, Wilkes)					
Plethodon welleri	**Weller's Salamander**	**SC**		**S2**	**G3**
M: high elevation forests in northern mountains, mainly in spruce-fir and to a lesser degree, northern hardwood forests (Ashe, Avery, Mitchell, Watauga, Yancey)					

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Region: Habitat Comments (Counties of Occurrence)					
Plethodon yonahlossee pop. 1	**Crevice Salamander**	**SC**		**S1S2**	**G4T1T2Q**
M: Hickorynut Gorge area (endemic to this area); crevices in moist shaded rocks (Buncombe, Henderson, McDowell, Rutherford)					
Pseudacris brachyphona	**Mountain Chorus Frog**	**SC**		**S2**	**G5**
M: ditches, pools, and other small wet areas near forests, in extreme southwestern mountains (Cherokee, Clay)					
Pseudacris nigrita	**Southern Chorus Frog**	**SR**		**S3**	**G5**
CS: ditches, Carolina bays, and other temporary shallow pools and ponds (Beaufort, Bladen, Brunswick, Carteret, Columbus, Craven, Cumberland, Edgecombe+, Greene+, Harnett, Hoke, Johnston, Jones, New Hanover+, Onslow, Pender, Pitt, Robeson, Sampson, Scotland, Wilson+)					
Pseudacris ornata	**Ornate Chorus Frog**	**SR**		**S1S2**	**G5**
SC: swamps, savannas, wooded ponds and pools (Bladen, Brunswick, Hoke, New Hanover*, Onslow, Robeson, Sampson*, Scotland)					
Rana capito	**Carolina Gopher Frog**	**T**	**FSC**	**S1**	**G3**
SC: breeds in temporary fish-free pools; forages in sandy woods, especially pine-oak sandhills (Beaufort*, Bladen, Brunswick, Carteret, Cumberland, Hoke, Jones*, New Hanover, Onslow, Pender, Robeson, Sampson, Scotland)					
Rana heckscheri	**River Frog**	**SC**		**SH**	**G5**
SC: river floodplains, such as pools or borrow pit ponds (Cumberland*, Moore*, Robeson*, Sampson*, Scotland*)					
Rana sylvatica pop. 3	**Wood Frog -- Coastal Plain population**	**SR**		**S1**	**G5TNR**
C: mesic to moist hardwood forests (Hyde, Tyrrell)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Freshwater Fishes

Acipenser brevirostrum	**Shortnose Sturgeon**	**E**	**E**	**S1**	**G3**
TC: brackish water of large rivers and estuaries; spawns in freshwater areas (Anson, Beaufort+, Bertie, Bladen, Brunswick, Camden, Carteret, Chowan, Columbus, Craven+, Currituck, Dare, Hyde, New Hanover, Onslow+, Pamlico+, Pasquotank, Pender, Perquimans, Pitt+, Richmond, Tyrrell, Washington)					
Acipenser fulvescens	**Lake Sturgeon**	**SC**	**FSC**	**SX**	**G3G4**
M: large rivers of Tennessee drainages (Madison*)					
Acipenser oxyrinchus	**Atlantic Sturgeon**	**SC**	**E**	**S3**	**G3**
TC: coastal waters, estuaries, large rivers (records not yet entered)					
Ambloplites cavifrons	**Roanoke Bass**	**SR**	**FSC**	**S2**	**G3**
PC: streams in Neuse and Tar systems (Chatham, Durham, Edgecombe*, Franklin, Granville, Halifax, Johnston*, Lee, Montgomery, Moore, Nash, Orange, Person, Pitt*, Randolph, Richmond, Rockingham, Vance, Warren, Wilson)					
Aplodinotus grunniens	**Freshwater Drum**	**SC**		**S1**	**G5**
M: French Broad River (Madison)					
Carpiodes carpio	**River Carpsucker**	**SC**		**S1**	**G5**
M: French Broad and Cane rivers (Madison, Yancey)					
Carpiodes cyprinus	**Quillback**	**SR**		**S2?**	**G5**
MP: French Broad, Catawba, Yadkin, and Roanoke drainages [native river/stream populations only; reservoir populations not tracked] (Davidson, Davie, Forsyth, Halifax, Madison, McDowell, Mitchell, Northampton, Polk, Rockingham, Stokes, Yadkin, Yancey)					
Carpiodes sp. cf. cyprinus	**a carpsucker**	**SR**		**S2**	**GNR**
P: Yadkin/Pee Dee, Catawba, and Broad drainages [native river/stream populations only; reservoir populations not tracked] (records not yet entered)					
Carpiodes sp. cf. velifer	**Atlantic Highfin Carpsucker**	**SC**		**S1**	**GNR**
PC: Catawba, Pee Dee, and Cape Fear rivers (Anson, Bladen, Catawba*, Gaston*, Iredell*, Mecklenburg*, Richmond)					
Clinostomus sp. 1	**Smoky Dace**	**SC**	**FSC**	**S3**	**G3Q**
M: drainages in southwestern mountains (Cherokee, Clay, Graham, Jackson, Macon, Swain)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Cottus caeruleomentum	**Blue Ridge Sculpin**	**SC**		**S1**	**G4**
P: Dan drainage (Stokes)					
Cottus carolinae	**Banded Sculpin**	**T**		**S1**	**G5**
M: French Broad and Pigeon drainages (Haywood, Madison)					
Cyprinella sp. 1	**Thinlip Chub**	**SC**		**S2?**	**G2Q**
CS: Cape Fear, Lumber, and Pee Dee drainages (Anson, Bladen, Columbus*, Cumberland, Hoke, Richmond, Robeson, Sampson, Scotland)					
Elassoma boehlkei	**Carolina Pygmy Sunfish**	**T**	**FSC**	**S1**	**G2**
C: streams and canals in Waccamaw drainage (Brunswick, Columbus)					
Enneacanthus chaetodon	**Blackbanded Sunfish**	**SR**		**S2**	**G4**
CS: many drainages, particularly Lumber and Waccamaw					
Enneacanthus obesus	**Banded Sunfish**	**SR**		**S3**	**G5**
C: most Atlantic drainages (Beaufort, Bladen, Brunswick, Camden, Carteret, Columbus, Craven, Cumberland, Dare, Duplin, Gates, Harnett, Hertford, Hyde, Jones, New Hanover, Onslow, Pasquotank, Pender, Pitt, Robeson, Tyrrell, Washington)					
Erimonax monachus	**Spotfin Chub**	**T**	**T**	**S1**	**G2**
M: Little Tennessee River; formerly in French Broad drainage (Buncombe*, Macon, Madison*, Swain)					
Erimystax insignis eristigma	**Southern Blotched Chub**	**SR**	**FSC**	**S2**	**G4TNR**
M: primarily French Broad drainage (Buncombe, Cherokee, Clay, Henderson, Madison, Mitchell, Transylvania, Yancey)					
Etheostoma acuticeps	**Sharphead Darter**	**T**	**FSC**	**S1**	**G3**
M: streams in Nolichucky system (Toe and Cane rivers) (Mitchell, Yancey)					
Etheostoma collis	**Carolina Darter**	**SC**	**FSC**	**S3**	**G3**
P: streams in the Piedmont (Alamance, Anson, Cabarrus, Chatham, Davidson, Durham*, Granville, Guilford, Mecklenburg, Montgomery, Moore, Orange, Person, Randolph, Richmond, Stanly, Union, Vance)					
Etheostoma inscriptum	**Turquoise Darter**	**T**		**S1**	**G4**
M: streams of Savannah drainage (Jackson, Macon, Transylvania)					
Etheostoma jessiae	**Blueside Darter**	**SC**		**SX**	**G4Q**
M: streams in Mills River system (Henderson*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Etheostoma kanawhae	**Kanawha Darter**	**SR**		**S3**	**G4**
M: New drainage (Alleghany, Ashe, Watauga)					
Etheostoma mariae	**Pinewoods Darter**	**SC**	**FSC**	**S3**	**G3**
SC: streams of Lumber drainage, mainly in the sandhills; and Little Pee Dee drainage (Bladen, Hoke, Montgomery, Moore, Richmond, Robeson, Scotland)					
Etheostoma perlongum	**Waccamaw Darter**	**T**	**FSC**	**S1**	**G1Q**
C: Lake Waccamaw, and sparingly in the Waccamaw River (endemic to North Carolina) (Columbus)					
Etheostoma podostemone	**Riverweed Darter**	**SC**		**S3**	**G4**
P: large streams in Dan River system (Caswell, Rockingham, Stokes)					
Etheostoma simoterum	**Tennessee Snubnose Darter**	**SC**		**S1**	**G3G4**
M: streams of French Broad drainage [formerly E. tennesseense in 2010 List] (Madison)					
Etheostoma thalassinum	**Seagreen Darter**	**SR**		**S3**	**G4**
MP: Santee River drainage					
Etheostoma vulneratum	**Wounded Darter**	**SC**	**FSC**	**S1**	**G3**
M: streams of Little Tennessee and French Broad drainages (Graham, Jackson, Macon, Madison*, Swain, Transylvania)					
Exoglossum laurae	**Tonguetied Minnow**	**SR**		**S2**	**G4**
M: New drainage (Alleghany, Ashe, Watauga)					
Exoglossum maxillingua	**Cutlip Minnow**	**SC**		**S1**	**G5**
P: streams of Dan River system (Stokes)					
Fundulus cf. diaphanus	**Lake Phelps Killifish**	**SR**	**FSC**	**S1**	**G1Q**
C: Lake Phelps (endemic to this lake) (Washington)					
Fundulus chrysotus	**Golden Topminnow**	**SR**		**S1?**	**G5**
C: Waccamaw drainage (Brunswick, Columbus)					
Fundulus waccamensis	**Waccamaw Killifish**	**SC**	**FSC**	**S1**	**G1**
C: Lake Waccamaw (endemic to North Carolina) (Columbus)					
Heterandria formosa	**Least Killifish**	**SC**		**S2**	**G5**
C: streams and lakes near Wilmington (Brunswick, New Hanover)					
Hiodon tergisus	**Mooneye**	**SC**		**S1**	**G5**
M: French Broad River (Henderson*, Madison)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Hybopsis rubrifrons	**Rosyface Chub**	**T**		**S1**	**G4**
M: Savannah drainage (Transylvania)					
Hypentelium roanokense	**Roanoke Hog Sucker**	**SR**		**S3**	**G4**
P: Dan drainage (Caswell, Forsyth, Rockingham, Stokes)					
Ichthyomyzon bdellium	**Ohio Lamprey**	**SR**		**S1**	**G3G4**
M: French Broad and Cane drainages (Madison, Mitchell, Yancey)					
Ictiobus bubalus	**Smallmouth Buffalo**	**SR**		**S1**	**G5**
M: French Broad drainage [native river/stream populations only; reservoir populations not tracked] (Madison, Mitchell, Yancey)					
Ictiobus niger	**Black Buffalo**	**SR**		**S1**	**G5**
M: French Broad River (Madison)					
Lampetra aepyptera	**Least Brook Lamprey**	**T**		**S2**	**G5**
CP: Tar and Neuse drainages (Edgecombe, Franklin, Halifax, Johnston, Jones*, Lenoir, Pitt*, Wake, Warren)					
Lampetra appendix	**American Brook Lamprey**	**T**		**S1**	**G4**
M: French Broad drainage (Madison)					
Luxilus chrysocephalus	**Striped Shiner**	**SC**		**S2**	**G5**
M: several mountain drainages (Buncombe, Cherokee, Macon, Mitchell, Yancey)					
Menidia extensa	**Waccamaw Silverside**	**T**	**T**	**S1**	**G1**
C: Lake Waccamaw (endemic to North Carolina) (Columbus)					
Micropterus coosae	**Redeye Bass**	**SR**		**S1**	**G5**
M: Savannah and Broad drainages (Burke*, Henderson, Transylvania)					
Moxostoma ariommum	**Bigeye Jumprock**	**T**		**S1**	**G4**
P: Dan drainage (Forsyth, Rockingham, Stokes)					
Moxostoma breviceps	**Smallmouth Redhorse**	**SR**		**S2**	**G5**
M: Tennessee drainages (Cherokee, Jackson, Macon, Madison, Mitchell, Swain, Yancey)					
Moxostoma robustum	**Robust Redhorse**	**E**	**FSC**	**S1**	**G1**
P: Pee Dee River; formerly in tributaries of this river (Anson, Burke*, Davidson*, Davie*, Iredell*, Richmond, Stanly*, Union*)					
Moxostoma sp. 2	**Sicklefin Redhorse**	**T**	**C**	**S1**	**G2Q**
M: Hiwassee and Little Tennessee drainages (Cherokee, Clay, Jackson, Macon, Swain)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Moxostoma sp. 3	**Carolina Redhorse**	**T**	**FSC**	**S1**	**G1G2Q**
P: Cape Fear and Pee Dee drainages (Anson, Chatham, Harnett, Lee, Montgomery, Moore, Randolph, Richmond, Stanly)					
Notropis bifrenatus	**Bridle Shiner**	**E**	**FSC**	**S1**	**G3**
C: stream near lower Neuse River (Craven, Hertford, Jones*)					
Notropis lutipinnis	**Yellowfin Shiner**	**SC**		**S1**	**G4Q**
MP: Savannah, Little Tennessee, and Broad drainages [only the Savannah drainage is listed as SC] (Jackson, Macon, Transylvania)					
Notropis mekistocholas	**Cape Fear Shiner**	**E**	**E**	**S1**	**G1**
P: Cape Fear drainage (endemic to North Carolina) (Chatham, Harnett, Lee, Moore, Randolph)					
Notropis micropteryx	**Highland Shiner**	**SR**		**S2**	**G5**
M: French Broad, Little Tennessee, and Hiwassee drainages (Cherokee, Jackson, Macon, Madison, Mitchell, Swain)					
Notropis sp. 1	**Kanawha Rosyface Shiner**	**SR**		**S2**	**GNR**
M: New drainage (Alleghany, Ashe, Watauga)					
Notropis volucellus	**Mimic Shiner**	**SR**		**S2**	**G5**
MPC: scattered drainages in mountains and near Fall Line (records not yet entered) (Alleghany, Madison)					
Noturus eleutherus	**Mountain Madtom**	**SC**		**S1**	**G4**
M: French Broad drainage (Madison)					
Noturus flavus	**Stonecat**	**E**		**S1**	**G5**
M: Nolichucky, French Broad, and Little Tennessee drainages (Macon, Madison, Swain, Yancey)					
Noturus furiosus	**Carolina Madtom**	**T**	**FSC**	**S2**	**G2**
CP: Tar and Neuse drainages (endemic to North Carolina) (Craven*, Durham, Edgecombe, Franklin, Granville, Greene, Halifax, Johnston, Jones*, Lenoir, Nash, Pitt, Vance, Wake*, Wayne, Wilson)					
Noturus gilberti	**Orangefin Madtom**	**E**	**FSC**	**S1**	**G2**
P: Dan drainage (Stokes)					
Noturus sp. 2	**Broadtail Madtom**	**SC**	**FSC**	**S1**	**G2**
C: Cape Fear, Waccamaw, and Lumber drainages (Bladen, Brunswick, Columbus, Cumberland, Duplin, Hoke, Moore, Pender, Richmond, Robeson, Sampson, Scotland)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Percina burtoni	**Blotchside Logperch**	**E**	**FSC**	**S1**	**G2G3**
M: South Toe drainage; formerly in French Broad drainage (Buncombe*, Yancey)					
Percina caprodes	**Logperch**	**T**		**S1**	**G5**
M: Tennessee drainages (Alleghany, Ashe, Haywood, Madison)					
Percina nigrofasciata	**Blackbanded Darter**	**T**		**S1**	**G5**
M: Savannah drainage (Transylvania)					
Percina oxyrhynchus	**Sharpnose Darter**	**SC**		**S1**	**G4**
M: New River drainage (Alleghany, Ashe)					
Percina rex	**Roanoke Logperch**	**E**	**E**	**S1**	**G1G2**
P: Dan drainage (Rockingham)					
Percina squamata	**Olive Darter**	**SC**	**FSC**	**S2**	**G3**
M: Tennessee drainages (Cherokee, Haywood, Henderson, Jackson, Macon, Madison, Mitchell, Swain, Yancey)					
Percina williamsi	**Sickle Darter**	**SC**	**FSC**	**SX**	**G2**
M: formerly in French Broad River (Buncombe*)					
Phenacobius teretulus	**Kanawha Minnow**	**SC**	**FSC**	**S2**	**G3G4**
M: New drainage (Alleghany, Ashe, Watauga)					
Polyodon spathula	**Paddlefish**	**E**	**FSC**	**SH**	**G4**
M: French Broad River (Buncombe*, Henderson*, Madison*, Transylvania*)					
Sander canadensis	**Sauger**	**SR**		**S2?**	**G5**
M: French Broad and Hiwassee rivers (Cherokee, Haywood, Madison)					
Semotilus lumbee	**Sandhills Chub**	**SC**	**FSC**	**S3**	**G3**
S: streams in the sandhills (Cumberland*, Harnett, Hoke, Montgomery*, Moore, Richmond, Scotland)					
Thoburnia hamiltoni	**Rustyside Sucker**	**E**	**FSC**	**S1**	**G3**
P: Dan drainage (Stokes)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Mollusks: Freshwater Bivalves

Alasmidonta heterodon	**Dwarf Wedgemussel**	**E**	**E**	**S1**	**G1G2**
PC: Tar and Neuse drainages, mainly near Fall Line (Franklin, Granville, Halifax, Johnston, Nash, Orange*, Vance, Wake, Warren, Wilson)					
Alasmidonta raveneliana	**Appalachian Elktoe**	**E**	**E**	**S1**	**G1**
M: Tennessee drainages (Buncombe*, Graham, Haywood, Henderson, Jackson, Macon, Mitchell, Swain, Transylvania, Yancey)					
Alasmidonta robusta	**Carolina Elktoe**	**EX**		**SX**	**GHQ**
P: Long Creek (endemic to North Carolina, but perhaps extinct) (Mecklenburg*)					
Alasmidonta sp. 2	**a bivalve (Uwharries region)**	**SR**		**S1?**	**G1?**
P: Uwharries region streams (endemic to North Carolina) (Montgomery, Randolph)					
Alasmidonta undulata	**Triangle Floater**	**T**		**S2**	**G4**
PC: most river systems in Piedmont and Coastal Plain (Caswell, Chatham, Durham, Edgecombe, Franklin, Gates, Granville, Guilford, Halifax, Harnett, Hertford, Johnston, Jones, Lee, Montgomery, Moore, Nash, Northampton, Orange, Person, Pitt, Randolph, Vance, Wake, Warren, Wayne, Wilson)					
Alasmidonta varicosa	**Brook Floater**	**E**	**FSC**	**S1**	**G3**
PM: Piedmont systems and along Blue Ridge escarpment of Catawba River system (Anson, Burke, Caldwell, Chatham, Forsyth, Granville, McDowell, Montgomery, Moore, Orange, Randolph, Surry, Wilkes, Yadkin)					
Alasmidonta viridis	**Slippershell Mussel**	**E**		**S1**	**G4G5**
M: Little Tennessee and upper French Broad/Mills rivers (Henderson, Macon, Swain, Transylvania)					
Anodonta couperiana	**Barrel Floater**	**E**		**SH**	**G4**
C: Bladen County; formerly in Greenfield Lake (Bladen*, New Hanover*)					
Anodonta implicata	**Alewife Floater**	**T**		**S1**	**G5**
C: Chowan, Meherrin, lower Roanoke, and Pee Dee rivers (Anson, Bertie, Chowan, Gates, Halifax, Hertford, Montgomery+, Northampton, Richmond, Stanly+, Washington)					
Cyclonaias tuberculata	**Purple Wartyback**	**E**		**S1**	**G5**
M: New River (Alleghany, Ashe, Watauga)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Elliptio dilatata	**Spike**	**SC**		**S1**	**G5**
M: Little Tennessee, Hiwassee, and New rivers (Alleghany, Ashe, Cherokee, Clay, Macon, Swain, Watauga)					
Elliptio fisheriana	**Northern Lance**	**SR**		**S3**	**G4**
CP: many Atlantic drainages, mainly from the Fall Line eastward (most records not yet entered) (Franklin, Halifax)					
Elliptio folliculata	**Pod Lance**	**SC**		**S1**	**G2G3Q**
C: Coastal Plain, mainly in Lake Waccamaw (Anson, Bladen, Brunswick, Columbus, Cumberland, Duplin, Harnett, Pender, Richmond, Sampson)					
Elliptio lanceolata	**Yellow Lance**	**E**	**FSC**	**S1**	**G2G3**
PC: Tar and Neuse systems, mainly near the Fall Line (Edgecombe, Franklin, Granville, Halifax, Johnston, Nash, Vance, Wake, Warren, Wayne)					
Elliptio marsupiobesa	**Cape Fear Spike**	**SC**		**S3**	**G3Q**
C: Cape Fear and Neuse basins (endemic to North Carolina) (Bladen, Craven, Cumberland, Duplin, Johnston, New Hanover, Pender, Pitt, Robeson, Sampson)					
Elliptio roanokensis	**Roanoke Slabshell**	**T**		**S1**	**G3**
PC: most Atlantic drainages (Anson, Bladen, Chatham, Craven, Cumberland, Durham, Edgecombe, Franklin, Granville, Halifax, Harnett, Johnston, Jones, Lee, Lenoir, Montgomery, Moore, Nash, Northampton, Onslow, Pitt, Randolph, Richmond, Stanly, Wake, Warren, Wayne)					
Elliptio steinstansana	**Tar River Spinymussel**	**E**	**E**	**S1**	**G1**
PC: Tar River drainage, very rare in Neuse drainage (endemic to North Carolina) (Edgecombe, Franklin, Halifax, Johnston, Nash, Pitt*, Warren)					
Elliptio waccamawensis	**Waccamaw Spike**	**E**	**FSC**	**S1**	**G2G3Q**
C: Lake Waccamaw and vicinity (endemic to North Carolina; possibly in adjacent South Carolina) (Brunswick, Columbus)					
Fusconaia barnesiana	**Tennessee Pigtoe**	**E**		**S1**	**G2G3**
M: Little Tennessee River (Cherokee)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Fusconaia masoni	**Atlantic Pigtoe**	**E**	**FSC**	**S1**	**G2**
CP: most Atlantic drainages, in lower Piedmont and upper Coastal Plain; also in Black River in lower Coastal Plain (Beaufort*, Bladen, Caswell, Chatham, Cumberland, Durham, Edgecombe, Franklin, Granville, Halifax, Harnett, Johnston, Montgomery, Moore, Nash, Northampton*, Orange, Pender, Person, Pitt, Randolph, Sampson, Union, Vance, Wake, Warren, Wayne*, Wilson*)					
Fusconaia subrotunda	**Long-solid**	**SR**		**S1**	**G3**
M: Hiwassee, Little Tennessee, and French Broad systems (Buncombe*, Cherokee, Clay, Macon, Swain, Transylvania)					
Lampsilis cariosa	**Yellow Lampmussel**	**E**	**FSC**	**S1**	**G3G4**
PC: a number of river systems; mainly near the Fall Line (Alamance, Anson, Bladen, Chatham, Columbus, Cumberland, Davie, Durham, Edgecombe, Franklin, Gates, Granville, Halifax, Harnett, Hertford, Johnston, Lee, Montgomery, Moore, Nash, Northampton, Orange, Pender, Person, Pitt, Randolph, Richmond, Rowan, Sampson, Stanly, Vance)					
Lampsilis fasciola	**Wavy-rayed Lampmussel**	**SC**		**S1**	**G5**
M: French Broad, Pigeon, Hiwassee, and Little Tennessee drainages (Cherokee, Clay, Graham, Haywood, Jackson, Macon, Mitchell, Swain, Yancey)					
Lampsilis fullerkati	**Waccamaw Fatmucket**	**T**	**FSC**	**S1**	**G1Q**
C: Lake Waccamaw and vicinity (endemic to North Carolina and adjacent South Carolina) (Columbus)					
Lampsilis radiata	**Eastern Lampmussel**	**T**		**S1S2**	**G5**
CP: a number of river systems (Alamance, Anson, Bertie, Bladen, Cabarrus, Chatham, Chowan, Columbus, Craven, Davidson, Durham, Edgecombe, Franklin, Gates, Granville, Halifax, Hertford, Johnston, Jones, Lee, Montgomery, Nash, Northampton, Orange, Pender, Person, Pitt, Randolph, Richmond, Rowan, Sampson, Stanly, Union, Wake, Warren, Wayne, Wilson)					
Lampsilis sp. 2	**Chameleon Lampmussel**	**SR**		**S1**	**G1**
PC: Neuse, Tar, and Cape Fear systems (endemic to North Carolina) (Durham, Franklin, Granville, Nash, Orange, Person, Vance, Warren)					
Lampsilis splendida	**Rayed Pink Fatmucket**	**SR**		**S1?**	**G3**
C: Waccamaw and Cape Fear systems (records not yet entered) (Columbus)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Lasmigona decorata	**Carolina Heelsplitter**	**E**	**E**	**S1**	**G1**
P: Catawba and Pee Dee drainages in Union County (endemic to this area and adjacent South Carolina) (Cabarrus*, Mecklenburg, Union)					
Lasmigona holstonia	**Tennessee Heelsplitter**	**E**	**FSC**	**S1**	**G3**
M: Mills River; formerly in Valley Creek in Cherokee County (Cherokee*, Henderson)					
Lasmigona subviridis	**Green Floater**	**E**	**FSC**	**S1**	**G3**
CPM: Tar, Neuse, Roanoke, and Yadkin/Pee Dee systems downstate; New and Watauga systems in mountains (Alleghany, Ashe, Durham, Edgecombe, Granville*, Halifax, Johnston, Montgomery, Nash, Northampton, Orange, Person, Pitt, Randolph, Rockingham, Stokes, Wake, Watauga)					
Leptodea ochracea	**Tidewater Mucket**	**T**		**S1**	**G3G4**
CP: a number of systems, primarily in the Coastal Plain; abundant in Lake Waccamaw (Bertie, Chowan, Columbus, Edgecombe, Gates, Halifax, Hertford, Martin, Northampton, Pitt, Warren, Washington)					
Ligumia nasuta	**Eastern Pondmussel**	**T**		**S1**	**G4**
C: Chowan, Roanoke, Cape Fear, and Yadkin/Pee Dee systems (Anson, Bertie, Brunswick, Chowan, Gates, Halifax, Hertford, Martin, Nash*, Northampton, Pitt, Richmond, Washington, Watauga)					
Pegias fabula	**Littlewing Pearlymussel**	**E**	**E**	**S1**	**G1**
M: Little Tennessee River; formerly in Valley River in Cherokee County (Cherokee*, Macon, Swain)					
Pleurobema collina	**James Spinymussel**	**E**	**E**	**S1**	**G1**
P: Dan and Mayo rivers (Rockingham, Stokes)					
Pleurobema oviforme	**Tennessee Clubshell**	**E**	**FSC**	**S1**	**G2G3**
M: French Broad, Little Tennessee, and Hiwassee drainages (Cherokee, Clay, Macon, Swain, Transylvania)					
Potamilus alatus	**Pink Heelsplitter**	**SR**		**S1**	**G5**
M: French Broad River (Madison)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Strophitus undulatus	**Creeper**	**T**		**S2**	**G5**
PCM: most river basins in the Coastal Plain and Piedmont, plus French Broad basin in the mountains (Alamance, Anson, Burke, Cabarrus, Caswell, 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)					
Toxolasma pullus	**Savannah Lilliput**	**E**	**FSC**	**S1**	**G2**
PC: a number of Atlantic drainages (Chatham, Columbus, Lee, Montgomery, Moore, Orange, Randolph, Stanly, Union)					
Villosa constricta	**Notched Rainbow**	**SC**		**S3**	**G3**
PC: most Atlantic drainages, mainly in lower Piedmont (Alamance, Alexander, Anson, Burke, Cabarrus, Caswell, Catawba, Chatham, Davidson, Duplin, Durham, Edgecombe, Franklin, Granville, Guilford, Halifax, Harnett, Johnston, Lee, Mecklenburg, Montgomery, Moore, Nash, Orange, Person, Randolph, Richmond, Rockingham, Rowan, Stanly, Stokes, Union, Vance, Wake, Warren, Wilson)					
Villosa delumbis	**Eastern Creekshell**	**SR**		**S3**	**G4**
PC: most Atlantic drainages (Alamance, Anson, Bladen, Brunswick, Burke, Cabarrus, Caldwell, Chatham, Columbus, Cumberland, Davidson, Duplin, Gaston, Guilford, Harnett, Lee, Mecklenburg, Montgomery, Moore, Orange, Pender, Randolph, Richmond, Rockingham, Sampson, Stanly, Union, Yadkin)					
Villosa iris	**Rainbow**	**SC**		**S1**	**G5Q**
M: Hiwassee and Little Tennessee drainages; formerly in French Broad drainage (Cherokee, Clay, Jackson, Macon, Swain)					
Villosa trabalis	**Cumberland Bean**	**SR**	**E**	**S1**	**G1**
M: Hiwassee River (Cherokee)					
Villosa vanuxemensis	**Mountain Creekshell**	**T**		**S1**	**G4**
M: Hiwassee River; formerly in French Broad drainage (Cherokee, Clay)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Villosa vaughaniana	**Carolina Creekshell**	**E**	**FSC**	**S2**	**G2**
P: Pee Dee, Catawba, and Cape Fear systems (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	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Mollusks: Freshwater and Terrestrial Gastropods

Allogona profunda	**Broad-banded Forestsnail**	**SR**		**S2S3**	**G5**
no locality data					
Amnicola sp. 1	**Waccamaw Snail**	**SC**		**S1**	**G1**
C: Lake Waccamaw and adjacent Big Creek (endemic to North Carolina) (Columbus)					
Anguispira alternata	**Flamed Tigersnail**	**SR**		**S2S3**	**G5**
no locality data					
Anguispira strongyloides	**Southeastern Tigersnail**	**SR**		**S2S3**	**G5**
no locality data					
Appalachina chilhoweensis	**Queen Crater**	**SC**		**S2**	**G4**
M: cove hardwoods (Graham, Haywood, Madison, Swain)					
Appalachina sayana	**Spike-lip Crater**	**SR**		**S2S3**	**G5**
no locality data					
Catinella pugilator	**Weedpatch Ambersnail**	**SR**		**S1?**	**G1G2**
C: marsh ecotones (Currituck)					
Catinella waccamawensis	**Waccamaw Ambersnail**	**T**		**S1**	**G1Q**
C: shoreline of Lake Waccamaw (endemic to this area) (Columbus)					
Cincinnatia sp. 1	**Waccamaw Siltsnail**	**SC**		**S1**	**G1**
C: Lake Waccamaw and adjacent Big Creek (endemic to North Carolina) (Columbus)					
Daedalochila sp. 1 nr. auriformis	**a liptooth**	**SR**		**S1S2**	**GNR**
C: very wet clay savannas? (Brunswick)					
Discus bryanti	**Sawtooth Disc**	**SC**		**S2**	**G3**
M: Watauga to Madison counties in cove hardwoods (Buncombe, Madison, Mitchell)					
Discus nigrimontanus	**Black Mountain Disc**	**SR**		**S2S3**	**G4**
no locality data					
Discus whitneyi	**Forest Disc**	**SR**		**S1S2**	**G5**
no locality data					
Elimia christyi	**Christy's Elimia**	**E**	**FSC**	**S1**	**G2**
M: Hiwassee River and tributaries (Cherokee)					
Euchemotrema fraternum	**Upland Pillsnail**	**SR**		**S2S3**	**G5**
no locality data					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Euglandina rosea	**Rosy Wolfsnail**	**SR**		**S2S3**	**G5**
no locality data					
Ferrissia hendersoni	**Blackwater Ancylid**	**SC**		**S1**	**G5Q**
CP: scattered locales in Coastal Plain and Piedmont, but mainly on margins of Carolina bay lakes (records not yet entered)					
Fumonelix jonesiana	**Big-tooth Covert**	**T**		**S1**	**G1**
M: spruce-fir and northern hardwood forests; Newfound Gap area of Great Smoky Mountains National Park (endemic to this area) (Swain*)					
Fumonelix orestes	**Engraved Covert**	**T**		**S1**	**G1**
M: spruce-fir and northern hardwood forests; Plott Balsam mountains (endemic to this area) (Haywood, Jackson)					
Fumonelix wheatleyi clingmanicus	**Clingman Covert**	**T**	**FSC**	**S1**	**G4T2T3**
M: Clingmans Dome region of Great Smoky Mountains National Park (endemic to this area) (Swain)					
Gastrocopta corticaria	**Bark Snaggletooth**	**SR**		**S2S3**	**G5**
M: rich cove forests?					
Glyphyalinia clingmani	**Fragile Glyph**	**E**	**FSC**	**S1**	**G1**
M: wet leaf litter associated with seepage runs; Black Mountains of Yancey County (endemic to North Carolina) (Yancey)					
Glyphyalinia junaluskana	**Dark Glyph**	**SC**		**S2**	**G2**
M: cove hardwoods; southwestern mountains (Cherokee*, Graham, Macon, Swain)					
Glyphyalinia pentadelphia	**Pink Glyph**	**SC**		**S2**	**G2G3**
M: cove hardwoods; southwestern mountains (Cherokee, Clay, Graham, Macon, Swain)					
Glyphyalinia umbilicata	**Texas Glyph**	**SR**		**S2S3**	**G5**
no locality data					
Glyphyalinia wheatleyi	**Bright Glyph**	**SR**		**S2S3**	**G5**
no locality data					
Haplotrema kendeighi	**Blue-footed Lancetooth**	**SC**		**S1S2**	**G2**
M: southwestern mountains (Macon, Swain)					
Helicodiscus bonamicus	**Spiral Coil**	**SC**		**S1**	**G1**
M: Nantahala Gorge vicinity (endemic to this area) (Graham, Macon, Swain)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Helicodiscus fimbriatus	**Fringed Coil**	**SC**		**S2**	**G4**
M: rocky soils; extreme southwestern corner of the state (Cherokee, Graham)					
Helicodiscus multidens	**Twilight Coil**	**SR**		**S1**	**G3**
no locality data					
Helicodiscus saludensis	**Corncob Snail**	**SR**		**S1?**	**G1**
M: no habitat or locality data (records not yet entered)					
Helisoma eucosmium	**Greenfield Rams-horn**	**E**	**FSC**	**S1**	**G1Q**
C: Greenfield Lake (formerly), creek in Brunswick County (endemic to North Carolina) (Brunswick*, New Hanover*)					
Hendersonia occulta	**Cherrystone Drop**	**SR**		**S2S3**	**G4**
no locality data					
Inflectarius downieanus	**Dwarf Globelet**	**SR**		**S1**	**G3**
M: northern mountains (Watauga)					
Inflectarius ferrissi	**Smoky Mountain Covert**	**T**		**S2**	**G2**
M: spruce-fir and northern hardwood forests; Great Smoky Mountains and Plott Balsams (endemic to these ranges) (Haywood, Jackson, Swain)					
Inflectarius subpalliatus	**Velvet Covert**	**SC**		**S2S3**	**G2**
M: central mountains (Watauga to Haywood counties) (Avery, Haywood, Madison, Mitchell, Watauga)					
Inflectarius verus	**a snail**	**SR**		**S1?**	**G1**
M: forests (Swain)					
Leptoxis dilatata	**Seep Mudalia**	**T**		**S1**	**G3**
M: New River drainage (Alleghany, Ashe, Watauga)					
Mesodon altivagus	**Wandering Globe**	**SR**		**S2S3**	**G2G3**
M: spruce-fir forests (Avery, Swain)					
Mesodon andrewsae	**Balsam Globe**	**SR**		**S2S3**	**G3**
M: high elevation forests in the vicinity of Roan Mountain and Mt. Mitchell (some records not yet entered) (Avery)					
Mesomphix andrewsae	**Mountain Button**	**SR**		**S3?**	**G3G4**
M: high elevation forests (records not yet entered)					
Mesomphix anurus	**Frog Button**	**SR**		**S1S2**	**G4G5**
no locality data					
Mesomphix latior	**Broad Button**	**SR**		**S2S3**	**G3G4**
no locality data					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Mesomphix pilsbryi	**Striate Button**	**SR**		**S2S3**	**G4**
no locality data					
Novisuccinea ovalis	**Oval Ambersnail**	**SR**		**S2S3**	**G5**
no locality data					
Novisuccinea sp. 1 nr. chittenangoensis	**an ambersnail**	**SR**		**S1S3**	**GNR**
M: northern hardwoods? (Graham)					
Pallifera hemphilli	**Black Mantleslug**	**SC**		**S2S3**	**G4**
M: high elevation forests, mainly spruce-fir (Avery, Jackson, Mitchell, Swain, Yancey)					
Paravitrea andrewsae	**High Mountain Supercoil**	**SC**		**S2**	**G2**
M: cove forests with rocky slopes; northern half of the mountains (Avery, Buncombe, Madison, Mitchell, Watauga, Yancey)					
Paravitrea bellona	**Club Supercoil**	**SR**		**S1?**	**G1**
M: wooded river bluffs and ravines (records not yet entered)					
Paravitrea clappi	**Mirey Ridge Supercoil**	**SC**		**S1S2**	**G2G3**
M: high elevations in Great Smoky Mountains National Park (Swain)					
Paravitrea lacteodens	**Ramp Cove Supercoil**	**SC**		**SH**	**G1**
M: Graham County, possibly Cherokee County (endemic to this area) (Graham*)					
Paravitrea lamellidens	**Lamellate Supercoil**	**SC**		**S2S3**	**G2**
M: southern half of the mountains (Cherokee, Graham, Haywood, Macon, Swain, Yancey)					
Paravitrea multidentata	**Dentate Supercoil**	**SR**		**S2S3**	**G5**
no locality data					
Paravitrea placentula	**Glossy Supercoil**	**SC**		**S2**	**G3**
M: Madison, Mitchell and Swain counties (Madison, Mitchell, Swain)					
Paravitrea reesei	**Round Supercoil**	**SR**		**S2S3**	**G3**
no locality data					
Paravitrea ternaria	**Sculpted Supercoil**	**T**	**FSC**	**S1**	**G1G2**
M: under moist leaf litter on wooded hillsides and slopes (endemic to Madison County and Unicoi County, Tennessee) (Madison)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Paravitrea umbilicaris	**Open Supercoil**	**SC**		**S2**	**G2**
M: cove forests with rocky slopes; extreme southwestern mountains (Cherokee, Graham*, Macon)					
Paravitrea varidens	**Roan Supercoil**	**T**	**FSC**	**S1S2**	**G1G2**
M: Mitchell and Yancey counties (endemic to North Carolina and adjacent Tennessee) (Mitchell, Yancey)					
Patera clarki clarki	**Dwarf Proud Globe**	**SC**		**S2**	**G3T3**
M: forested mountainsides (Cherokee, Clay, Graham, Jackson, Macon, Swain)					
Patera clarki nantahala	**Noonday Globe**	**T**	**T**	**S1**	**G3T1**
M: Nantahala Gorge (endemic to this site) (Swain)					
Philomycus virginicus	**Virginia Mantleslug**	**SR**		**S1S2**	**G3**
M: wooded hillsides and ravines					
Pilsbryna nodopalma	**Oar Tooth Bud**	**SR**		**S1**	**G1G2**
M: rock outcrops and rocky hillsides (records not yet entered)					
Pilsbryna vanattai	**Honey Glyph**	**SC**		**SH**	**G2G3**
M: wet leaf litter next to seeps or streams (Avery*, Mitchell*, Yancey*)					
Planorbella magnifica	**Magnificent Rams-horn**	**E**	**C**	**S1**	**G1**
C: Orton Pond and pond on Sand Hill Creek; formerly Greenfield Lake (endemic to North Carolina) (Brunswick*, New Hanover*)					
Praticolella lawae	**Appalachian Shrubsnail**	**SR**		**S1S2**	**G3**
no locality data					
Somatogyrus virginicus	**Panhandle Pebblesnail**	**SR**	**FSC**	**S1?**	**G2G3**
P: Eno River (Chatham, Durham)					
Stenotrema altispira	**Highland Slitmouth**	**SR**		**S3?**	**G3**
M: high elevation forests (records not yet entered)					
Stenotrema depilatum	**Great Smoky Slitmouth**	**SC**		**S2**	**G2**
M: Great Smoky Mountains National Park (essentially endemic to this area) (Graham, Swain)					
Striatura exigua	**Ribbed Striate**	**SR**		**S1S2**	**G5**
M: swampy woods and moist forests (records not yet entered)					
Striatura ferrea	**Black Striate**	**SR**		**S2S3**	**G5**
no locality data					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Succinea unicolor	**Squatty Ambersnail**	**SR**		**S1S2**	**G3G4**
C: marshy areas near streams and lakes (Hubricht, 1985) (Gates*, Perquimans*)					
Triodopsis fulciden	**Dwarf Threetooth**	**SC**		**S2S3**	**G1G2**
P: southwestern Piedmont (endemic to North Carolina) (Burke+, Catawba*, Cleveland+, Lincoln+)					
Triodopsis soelneri	**Cape Fear Threetooth**	**T**	**FSC**	**S2S3**	**G2**
C: swampy habitats in the extreme southeastern corner of the state (endemic to North Carolina) (Brunswick, Columbus, New Hanover, Onslow)					
Triodopsis tennesseensis	**Budded Threetooth**	**SR**		**S1S3**	**G4**
M: Hot Springs vicinity (Madison)					
Triodopsis vulgata	**Dished Threetooth**	**SR**		**S2S3**	**G5**
no locality data					
Vallonia excentrica	**Iroquois Vallonia**	**SR**		**S2S3**	**G5**
M: grassy habitats					
Vallonia pulchella	**Lovely Vallonia**	**SR**		**S1S2**	**G5**
no locality data					
Valvata sincera	**a valvatid snail**	**SR**		**S1**	**G5**
P: Pee Dee drainage (Richmond)					
Ventridens coelaxis	**Bidentate Dome**	**SC**		**S2S4**	**G3**
M: cove forests; northern mountains (Alleghany, Avery, Madison, Watauga)					
Ventridens collisella	**Sculptured Dome**	**SR**		**S1**	**G4**
M: northern mountains (Mitchell, Watauga)					
Ventridens decussatus	**Crossed Dome**	**SR**		**S3?**	**G3**
M: montane oak-hickory forests (records not yet entered)					
Ventridens lasmodon	**Hollow Dome**	**SR**		**S1S3**	**G4**
M: Madison County (Madison)					
Ventridens lawae	**Rounded Dome**	**SR**		**S2S3**	**G4**
no locality data					
Ventridens suppressus	**Flat Dome**	**SR**		**S1S2**	**G5**
no locality data					
Vertigo alabamensis	**Alabama Vertigo**	**SR**		**S2S3**	**G3**
C: pocosins (Bladen, Brunswick, Carteret, Craven, Greene, Pamlico, Pender, Scotland, Tyrrell)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Vertigo oralis	**Palmetto Vertigo**	**SR**		**S2S3**	**G5**
no locality data					
Vertigo parvula	**Smallmouth Vertigo**	**SR**		**S1**	**G3**
M: upland woods					
Vertigo sp. 3	**a new vertigo**	**SR**		**S2S3**	**GNR**
C: pocosins (Bladen, Brunswick, Craven, Jones, Pamlico, Pender, Tyrrell)					
Viviparus intertextus	**Rotund Mysterysnail**	**SR**		**S2?**	**G4**
C: swamps in Lumber and Waccamaw drainages (Columbus, Robeson)					
Zonitoides patuloides	**Appalachian Gloss**	**SC**		**S2**	**G3**
M: cove hardwoods in deep leaf litter; southwestern mountains (Macon+, Swain+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Arachnids

Hypochilus coylei	**a lampshade spider**	**SR**		**S3?**	**G3?**
M: rock outcrops (apparently endemic to southern mountains of North Carolina) (Buncombe, Henderson, McDowell, Polk, Rutherford)					
Hypochilus sheari	**a lampshade spider**	**SR**		**S2S3**	**G2G3**
M: rock outcrops (apparently endemic to North Carolina) (Buncombe, McDowell, Yancey)					
Microhexura montivaga	**Spruce-fir Moss Spider**	**SR**	**E**	**S1**	**G1**
M: in moss of spruce-fir forests (endemic to North Carolina and adjacent Tennessee) (Avery, Caldwell, Haywood, Jackson, Mitchell, Swain, Watauga, Yancey)					
Nesticus brimleyi	**a nesticid spider**	**SR**		**S1?**	**G1G2**
M: caves (endemic to the vicinity of Bat Cave) (Polk+)					
Nesticus carolinensis	**Linville Caverns Spider**	**SR**		**S1**	**G1?**
M: caves (apparently endemic to Linville Caverns) (McDowell)					
Nesticus cooperi	**Lost Nantahala Cave Spider**	**SR**	**FSC**	**S1**	**G1**
M: caves and along Nantahala River (apparently endemic to this area) (Macon, Swain)					
Nesticus crosbyi	**a nesticid spider**	**SR**		**S1?**	**G1?**
M: spruce-fir forests (apparently endemic to Mount Mitchell)					
Nesticus gertschi	**a nesticid spider**	**SR**		**S1?**	**G1G2**
M: caves; Bat Cave, NC, and in Tennessee					
Nesticus mimus	**a nesticid spider**	**SR**		**S2?**	**G2**
M: rocky areas; known from Grandfather Mountain and Table Rock; also in Virginia					
Nesticus sheari	**a nesticid spider**	**SR**		**S2?**	**G2?**
M: on ground in moist or rich forests (apparently endemic to Graham County, NC)					
Nesticus silvanus	**a nesticid spider**	**SR**		**S2?**	**G2?**
M: habitat not indicated (apparently endemic to southern mountains of North Carolina)					
Nesticus sp. 1	**a nesticid spider**	**SR**		**S2?**	**G2?**
M: habitat not indicated (known only from Jackson and Transylvania counties, NC, and Oconee County, SC)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Nesticus sp. 2	**a nesticid spider**	**SR**		**S1S3**	**G1G3**
M: on ground in forests (only known from Clay County, NC)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Crustaceans

Caecidotea carolinensis	**Bennett's Mill Cave Water Slater**	**E**	**FSC**	**S1**	**G2G3**
P: caves; in McDowell County (endemic to this area) (McDowell)					
Cambarus acanthura	**Thornytail Crayfish**	**SR**		**S1**	**G4G5**
M: pools and small creeks in the Hiwassee drainage (Cherokee)					
Cambarus brimleyorum	**Valley River Crayfish**	**SR**		**S3**	**G3G4**
M: streams in Hiwassee drainage (endemic to North Carolina) (Cherokee, Clay)					
Cambarus catagius	**Greensboro Burrowing Crayfish**	**SC**		**S2**	**G2**
P: Greensboro area to Uwharries (endemic to North Carolina) (Davidson, Guilford, Montgomery, Randolph)					
Cambarus chaugaensis	**Chauga Crayfish**	**SC**		**S2**	**G2**
M: streams in Savannah drainage (endemic to northwest South Carolina and adjacent North Carolina and Georgia) (Jackson, Macon, Transylvania)					
Cambarus davidi	**Carolina Ladle Crayfish**	**SR**		**S2S3**	**G3**
P: Neuse and Cape Fear drainages (endemic to North Carolina) (Alamance, Caswell, Chatham, Durham, Granville, Guilford, Harnett, Orange, Rockingham, Wake)					
Cambarus eeseeohensis	**Grandfather Mountain Crayfish**	**SR**		**S1**	**G1**
M: Linville River above Linville Falls (endemic to this area) (Avery)					
Cambarus georgiae	**Little Tennessee Crayfish**	**SC**		**S2S3**	**G2**
M: streams in Little Tennessee drainage (Jackson, Macon, Swain)					
Cambarus howardi	**Chattahoochee Crayfish**	**SR**		**S3**	**G3**
P: small streams in Broad, Catawba, and Yadkin/Pee Dee drainages (records not yet entered)					
Cambarus hystricosus	**Sandhills Spiny Crayfish**	**SR**		**S2**	**G2**
S: streams in the Sandhills (endemic to North Carolina) (records not yet entered)					
Cambarus johni	**Carolina Foothills Crayfish**	**SR**		**S3**	**G3**
PM: headwater streams in the Yadkin/Pee Dee, Catawba, and Broad drainages (records not yet entered) (Burke, McDowell, Polk, Rutherford)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Cambarus lenati	**Broad River Stream Crayfish**	**SR**		**S2**	**G2**
P: streams in the Broad River drainage (endemic to North Carolina) (Cleveland, Rutherford)					
Cambarus nodosus	**Knotty Burrowing Crayfish**	**SR**		**S2**	**G4**
M: seepages and other mucky areas in Hiwassee drainage (Cherokee, Clay)					
Cambarus parrishi	**Hiwassee Headwaters Crayfish**	**SC**	**FSC**	**S1**	**G2**
M: streams in Hiwassee drainage (Cherokee, Clay)					
Cambarus reburrus	**French Broad River Crayfish**	**SR**	**FSC**	**S3**	**G3**
M: streams in upper portions of French Broad drainage, and in one stream in Savannah drainage (endemic to North Carolina) (Buncombe, Henderson, Jackson, Madison, Transylvania)					
Cambarus spicatus	**Broad River Spiny Crayfish**	**SC**		**S2**	**G3**
P: streams in Broad River drainage (Cleveland, Polk, Rutherford)					
Cambarus tuckasegee	**Tuckasegee Stream Crayfish**	**SR**		**S1S2**	**G1G2**
M: streams in Tuckasegee River subdrainage of Little Tennessee River drainage (endemic to North Carolina) (Jackson, Swain)					
Diacyclops jeanneli putei	**Carolina Well Diacyclops**	**SC**		**SH**	**G3G4T1T2**
P: dug well, in Orange County (endemic to North Carolina) (Orange*)					
Lynceus gracilicornis	**Graceful Clam Shrimp**	**SC**		**S2?**	**G5**
C: temporary ponds, pools, and ditches (Craven, New Hanover)					
Orconectes carolinensis	**North Carolina Spiny Crayfish**	**SC**		**S3**	**G3**
CP: rivers and streams in the Neuse and Tar drainages (endemic to North Carolina) (Craven, Edgecombe, Franklin, Granville, Greene, Halifax, Johnston, Jones, Lenoir, Nash, Pitt, Stokes, Vance, Wake, Warren, Wilson)					
Orconectes sp. 3	**Cheoah Crayfish**	**SR**		**S2?**	**GNR**
M: Cheoah River subdrainage of the Little Tennessee drainage (probably endemic to this area) (Graham)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Orconectes virginiensis	**Chowanoke Crayfish**	**SC**	**FSC**	**S3**	**G3**
C: streams and rivers in the Chowan and Roanoke drainages (Bertie, Granville, Halifax, Hertford, Martin, Northampton, Washington)					
Procambarus braswelli	**Waccamaw Crayfish**	**SC**		**S2S3**	**G3**
C: Waccamaw and Lumber drainages (endemic to North Carolina and adjacent South Carolina) (Brunswick, Columbus, Scotland)					
Skistodiaptomus carolinensis	**Carolina Skistodiaptomus**	**SC**		**S1?**	**GNR**
M: Lake Ravenel in Macon County (endemic to North Carolina) (Macon)					
Stygobromus carolinensis	**Yancey Sideswimmer**	**SR**	**FSC**	**S1**	**G1**
M: seeps at Mount Mitchell (endemic to North Carolina) (Yancey*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Mayflies

Ameletus tertius	**a mayfly**	**SR**		**S2**	**G4**
M: Wilson Creek (Caldwell), Panthertown Creek (Jackson) also in Great Smoky Mountains National Park					
Amercaenis ridens	**a mayfly**	**SR**		**S1**	**G4**
C: Black River (Bladen)					
Asioplax dolani	**a mayfly**	**SR**		**S2**	**G4**
P: Neuse River (Wayne, Johnston)					
Attenella margarita	**a mayfly**	**SR**		**S1**	**G5**
M: Eagle Creek (Swain)					
Baetisca becki	**a mayfly**	**SR**		**S1**	**G2G3**
PC: Swift Creek (Nash), Fishing Creek (Edgecombe, Halifax, Nash)					
Baetisca obesa	**a mayfly**	**SR**		**S1**	**G5**
C: known in NC only from the lower Tar River (Edgecombe, Pitt)					
Baetopus trishae	**a mayfly**	**SR**		**S1**	**G1G2**
no locality data					
Barbaetis benfieldi	**Benfield's Bearded Small Minnow Mayfly**	**SR**		**S1**	**G2G4**
M: Jacob Fork (Burke), French Broad River (Transylvania) , Caney Fork (Jackson); may be undersampled -- narrow window of collectibility (Buncombe, Burke, Jackson, Transylvania)					
Cercobrachys etowah	**a caenid mayfly**	**SR**		**S2**	**G4**
P: known in NC only from the Tar River; taxonomically difficult					
Choroterpes basalis	**a mayfly**	**SR**		**S2**	**G5**
PSC: Waccamaw River (Columbus, Brunswick), Drowning Creek (Richmond), Bear Creek (Chatham), Lanes Creek (Union), UT Laurens Creek (Union), Dutchmans Creek (?) (Brunswick, Chatham, Columbus, Moore, Richmond, Union)					
Dolania americana	**American Sand Burrowing Mayfly**	**SR**	**FSC**	**SH**	**G4**
C: only known NC occurrence is from the Black River; not seen since 1974 (Sampson*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Ephemerella berneri	**a mayfly**	**SR**		**S3**	**G4**
PM: probably widespread in clean streams and rivers with Podostemum (Ashe, Buncombe, Burke, Durham, McDowell, Rockingham)					
Ephemerella floripara	**a mayfly**	**SR**		**S2**	**G3Q**
M: Wilson Creek (Caldwell), Linville River (Burke), North and South Forks of New River (Ashe, Watauga)					
Homoeoneuria cahabensis	**Cahaba Sand-filtering Mayfly**	**SR**		**S2**	**G2G3**
P: South Fork Yadkin River (Davie), South Fork Catawba River (Lincoln), Hunting Creek (Iredell), Third Creek (Rowan), Second Broad River (Rutherford) (Catawba, Iredell, Rowan, Rutherford)					
Maccaffertium wudigeum	**Wilson Creek "Stenonema"**	**SR**		**S1**	**GNR**
M: Wilson Creek vicinity (endemic to this area)					
Macdunnoa brunnea	**a mayfly**	**SR**		**S2**	**G3G4**
MP: French Broad River (Buncombe), Mills River (Henderson), Hunting Creek (Davie, Iredell), Leepers Creek (Gaston), Yadkin River (Wilkes), Swift Creek (Nash) (Buncombe, Davie, Gaston, Henderson, Iredell, Nash, Wilkes)					
Pseudiron centralis	**White Sand-river Mayfly**	**SR**		**S2**	**G5**
P: Iredell County					
Tortopus puella	**a mayfly**	**SR**		**S1**	**G4**
P: only one NC specimen known, from Tar River (Franklin)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Stoneflies

Alloperla lenati	**a stonefly**	**SR**		**S1**	**G2G3**
SC: Lumber River at Wagram and Upper Rockfish Creek					
Attaneuria ruralis	**Giant Stone**	**SR**		**S2S3**	**G4**
MSC: Cataloochee Creek (Haywood), West Fork Pigeon River (Haywood), South Fork New River (Ashe); Naked Creek (Richmond) (Ashe, Haywood, Richmond)					
Bolotoperla rossi	**Smoky Willowfly**	**SR**		**S3**	**G4**
M: known from eight streams and rivers in the mountains, from Ashe County to Transylvania County (Alleghany, Ashe, Caldwell, McDowell, Transylvania, Watauga)					
Haploperla fleeki	**a stonefly**	**SR**		**S1**	**G1**
S: Little River (Moore) (endemic to this area)					
Hydroperla phormidia	**Brownwater Springfly**	**SR**		**S2**	**G3**
PSC: Lumber River and Pee Dee River					
Megaleuctra williamsae	**Williams' Rare Winter Stonefly**	**SR**		**S1**	**G2**
M: UT Cullasaja River (Macon), Cove Creek (Haywood), Mull Creek (Jackson); possibly undersampled -- semi-aquatic (Swain)					
Perlinella ephyre	**Vernal Stone**	**SR**		**S3**	**G5**
PSC: known from eight streams and rivers in the Sandhills and Inner Coastal Plain; also occurs in Flat River (Person) and Terrible Creek (Wake)					
Pteronarcys comstocki	**Spiny Salmonfly**	**SR**		**S2**	**G3**
no locality data (Buncombe, Madison)					
Rasvena terna	**Vermont Sallfly**	**SR**		**S2**	**G4**
M: Log Hollow Branch (Transylvania), Great Smoky Mountains National Park					
Zapada chila	**Smokies Forestfly**	**SR**		**S1S2**	**G2**
M: Beech Flat Prong (Swain), also in Ashe County; hard to identify and may be undersampled -- occurs in small streams (Ashe, Swain)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Caddisflies

Beraea gorteba	**a caddisfly**	**SR**		**S1S2**	**G1G2**
no locality data					
Brachycentrus etowahensis	**a caddisfly**	**SR**		**S2**	**G3**
M: Hiwassee River (Cherokee)					
Ceraclea cancellata	**a longhorned caddisfly**	**SR**		**S2**	**G5**
PSC: Naked Creek (Richmond), Roanoke River (Bertie), Eliis Creek (Bladen), Turnbull Creek (Bladen)					
Ceraclea joannae	**Lenat's Ceraclea**	**SR**		**S1**	**G1**
P: Little River (Montgomery) (endemic to this area)					
Ceraclea slossonae	**a caddisfly**	**SR**		**S1**	**G4**
M: North Fork New River (Ashe), Johns River (Burke); may be more numerous but difficult to identify (Ashe, Burke)					
Ceratopsyche walkeri	**a caddisfly**	**SR**		**S2**	**G5**
M: Beech Creek (Watauga)					
Dibusa angata	**a caddisfly**	**SR**		**S2**	**G5**
P: South Yadkin River (Davie, Rowan), Eno River (Durham), Little River (Wake), Little River (Durham), Cane Creek (Orange) (Davie, Durham, Rowan, Wake)					
Diplectrona metaqui	**a diplectronan caddisfly**	**SR**		**S3**	**G4G5**
P: known in NC only from Hanging Rock State Park, but has possibly been undersampled -- occurs in small streams (Stokes)					
Goerita flinti	**a caddisfly**	**SR**		**S1**	**G2G3**
M: known only from Great Smoky Mountains National Park (Swain)					
Homoplectra monticola	**a caddisfly**	**SR**		**S1**	**G2G3**
M: scattered sites in central and southern mountains (Buncombe, Jackson, Macon)					
Hydropsyche carolina	**a caddisfly**	**SR**		**S1**	**G2G3**
M: Cullasaja River (Macon), Whitewater River (Jackson, Transylvania)					
Manophylax altus	**Mount Mitchell Caddisfly**	**SR**		**S1**	**G2G3**
M: recorded only from Mt. Mitchell (Yancey) but probably occurs elsewhere					

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Region: Habitat Comments (Counties of Occurrence)					
Matrioptila jeanae	**a caddisfly**	**SR**		**S3**	**G4**
PM: known from ten streams and rivers in the mountains and Piedmont; poorly sampled due to occurrence in small streams (Burke, Clay, Henderson, Johnston, Macon, Transylvania)					
Nectopsyche waccamawensis	**Waccamaw White Miller**	**SR**		**S1**	**G1**
C: Lake Waccamaw (endemic to this area)					
Oecetis sp. D	**a caddisfly**	**SR**		**S1**	**G1**
C: Lake Waccamaw and additional sites (endemic to North Carolina)					
Oropsyche howellae	**a caddisfly**	**SR**		**S2**	**G2**
M: streams in Haywood, Jackson, and Macon counties					
Palaeagapetus celsus	**a caddisfly**	**SR**		**S2**	**G5**
M: Wilson Creek (Avery), Boone Fork (Watuaga); may be undersampled due to occurrence in small streams (Avery, Watauga)					
Polycentropus colei	**a caddisfly**	**SR**		**S1**	**G3G4**
M: streams in Great Smoky Mountains National Park (Haywood, Swain)					
Rhyacophila accola	**a caddisfly**	**SR**		**S1S2**	**G1G2**
M: mountain streams (no county information) (endemic to North Carolina)					
Rhyacophila appalachia	**a rhyacophilan caddisfly**	**SR**		**S2**	**G3**
M: mountain streams (Caldwell, Haywood, Stokes), including at Mt. Mitchell (Yancey)					
Rhyacophila celadon	**Celadon Caddisfly**	**SR**		**S2**	**G2G3**
M: seeps and streams (Avery, Haywood, Swain, Watauga)					
Rhyacophila sp. 1	**a caddisfly**	**SR**		**S2**	**G2G3**
C: Big Raft Swamp (Robeson), Bear Creek (Robeson), Gapway Swamp (Columbus)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Dragonflies and Damselflies

Aeshna tuberculifera	**Black-tipped Darner**	**SR**		**SH**	**G4**
M: boggy or marshy ponds (Burke*, Wilkes*)					
Aeshna verticalis	**Green-striped Darner**	**SR**		**S1**	**G5**
M: marshy ponds (Burke, Henderson)					
Arigomphus pallidus	**Gray-green Clubtail**	**SR**		**S1**	**G5**
C: ponds, lakes, and streams (Pender+)					
Boyeria grafiana	**Ocellated Darner**	**SR**		**S2?**	**G5**
M: rocky forest streams (Avery, Clay, Haywood, Macon, Swain, Wilkes, Yancey)					
Calopteryx amata	**Superb Jewelwing**	**SR**		**S2?**	**G4**
M: cold, shallow, rocky rivers (Buncombe, Haywood, Henderson, Jackson, Macon, Mitchell, Swain, Transylvania, Yancey)					
Cordulia shurtleffii	**American Emerald**	**SR**		**S1**	**G5**
M: ponds, lakes, bogs (Burke+)					
Coryphaeschna ingens	**Regal Darner**	**SR**		**S2?**	**G5**
C: lakes and ponds (Bladen, Carteret, Craven, Durham, Gates, Martin, Pamlico, Pender, Wake)					
Enallagma minusculum	**Little Bluet**	**SR**		**S1**	**G4**
C: lakes and ponds (Bladen+)					
Gomphus abbreviatus	**Spine-crowned Clubtail**	**SR**		**S3**	**G3G4**
PC: rivers (Caswell, Chatham, Cumberland, Durham, Lee, Mecklenburg, Montgomery, Moore, Randolph, Union)					
Gomphus adelphus	**Mustached Clubtail**	**SR**		**S1S2**	**G4**
M: small rivers with rapids (Avery, Haywood, Madison, Yancey)					
Gomphus australis	**Clearlake Clubtail**	**SR**		**S1**	**G4**
C: lakes and ponds (Brunswick, New Hanover*)					
Gomphus borealis	**Beaverpond Clubtail**	**SR**		**SH**	**G4**
M: lakes, ponds, streams (Mitchell*)					
Gomphus cavillaris brimleyi	**Brimley's Clubtail**	**SR**		**S1**	**G4T3**
SC: sand-bottomed lakes and streams (Bladen+, Brunswick+)					
Gomphus consanguis	**Cherokee Clubtail**	**SR**	**FSC**	**S1?**	**G3**
MP: small spring-fed streams (Burke*, Davie+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Gomphus descriptus	**Harpoon Clubtail**	**SR**		**SH**	**G4**
M: large streams and rivers (Avery+, Haywood+)					
Gomphus fraternus	**Midland Clubtail**	**SR**		**S1**	**G5**
P: rocky rivers (Anson+, Stanly+)					
Gomphus lineatifrons	**Splendid Clubtail**	**SR**		**S2**	**G4**
MP: rocky rivers (Alleghany+, Ashe+, Avery+, Durham+, Haywood+, Orange+)					
Gomphus quadricolor	**Rapids Clubtail**	**SR**		**S1?**	**G3G4**
P: rocky rivers (Chatham, Moore+)					
Gomphus septima	**Septima's Clubtail**	**SR**	**FSC**	**S2**	**G2**
P: rocky rivers (Alamance, Anson, Chatham, Durham, Harnett, Lee, Montgomery, Moore, Orange, Richmond, Stanly, Union, Wake)					
Gomphus ventricosus	**Skillet Clubtail**	**SR**		**S1S2**	**G3**
P: rivers (Caswell+, Franklin+, Vance+)					
Gomphus viridifrons	**Green-faced Clubtail**	**SR**		**S1**	**G3G4**
M: rivers (Alleghany+, Ashe+)					
Ladona julia	**Chalk-fronted Corporal**	**SR**		**S1**	**G5**
M: bogs, marshes (Jackson)					
Lestes congener	**Spotted Spreadwing**	**SR**		**S1**	**G5**
M: ? (Alleghany+, Watauga)					
Lestes vidua	**Carolina Spreadwing**	**SR**		**S2?**	**G5**
C: ponds and pools (Bladen, Brunswick, Onslow, Pender, Sampson)					
Macromia margarita	**Mountain River Cruiser**	**SR**	**FSC**	**S1S2**	**G3**
PM: rivers (Burke, Caldwell, Cleveland, Davie, Franklin, Iredell, Macon, Transylvania*, Watauga)					
Neurocordulia yamaskanensis	**Stygian Shadowdragon**	**SR**		**S1?**	**G5**
M: rivers (Alleghany+, Madison+)					
Ophiogomphus aspersus	**Brook Snaketail**	**SR**		**S1**	**G4**
M: rapids of rivers and streams (Alleghany, Ashe, Haywood+)					
Ophiogomphus edmundo	**Edmund's Snaketail**	**SR**	**FSC**	**S1**	**G1G2**
M: Blue Ridge Escarpment streams (Burke, Caldwell, Rockingham)					
Ophiogomphus howei	**Pygmy Snaketail**	**SR**	**FSC**	**S1**	**G3**
M: rivers (Alleghany, Ashe, Burke)					

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Region: Habitat Comments (Counties of Occurrence)					
Ophiogomphus mainensis	**Maine Snaketail**	**SR**		**S2S3**	**G4**
M: rapids of rivers and streams (Burke, Caldwell+, Haywood+, Mitchell+, Watauga+, Yancey+)					
Ophiogomphus rupinsulensis	**Rusty Snaketail**	**SR**		**S1**	**G5**
M: streams (Alleghany)					
Progomphus bellei	**Belle's Sanddragon**	**SR**	**FSC**	**S1**	**G3**
C: sand-bottomed lakes and streams (Bladen)					
Somatochlora elongata	**Ski-tipped Emerald**	**SR**		**S2S3**	**G5**
M: slow to moderate streams (Ashe, Avery+, Burke+, Clay+, Jackson+, Macon+) (Watauga)					
Somatochlora georgiana	**Coppery Emerald**	**SR**		**S2?**	**G3G4**
CSP: creeks and other slow-moving acidic streams, in forested areas (Anson, Beaufort, Bladen, Brunswick, Caswell, Chatham, Columbus, Cumberland, Duplin, Durham, Edgecombe, Franklin, Greene, Harnett, Johnston, Lee, Martin, Moore, Nash, Northampton, Orange, Pender, Pitt, Richmond, Robeson, Rockingham, Sampson, Scotland)					
Stylurus ivae	**Shining Clubtail**	**SR**		**S2S3**	**G4**
CS: sandy creeks or small rivers, where waters are clean (Bladen, Columbus, Cumberland, Duplin, Jones, Moore, Pender, Robeson, Sampson, Scotland)					
Stylurus scudderi	**Zebra Clubtail**	**SR**		**S2?**	**G4**
M: streams and rivers (Ashe+, Avery+, Jackson+, Macon+, Swain+, Wilkes+) (Ashe, Watauga)					
Stylurus townesi	**Townes' Clubtail**	**SR**	**FSC**	**SH**	**G3**
C: small rivers (Columbus*, Robeson+)					
Sympetrum obtrusum	**White-faced Meadowhawk**	**SR**		**S1**	**G5**
M: boggy or marshy ponds and lakes (Ashe, Watauga+)					
Triacanthagyna trifida	**Phantom Darner**	**SR**		**S1?**	**G5**
C: slow-flowing streams (Carteret+, Craven+, Pender+, Robeson+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Butterflies

Amblyscirtes alternata	**Dusky Roadside-Skipper**	**SR**		**S2**	**G2G4**
CS: open pine woods, savannas; host plants -- unknown, but presumably grasses (Brunswick, Craven, Cumberland, Hoke, Jones+, Moore, New Hanover+, Onslow, Pender, Richmond, Scotland)					
Amblyscirtes reversa	**Reversed Roadside-Skipper**	**SR**		**S3**	**G3G4**
CSPM: flatwoods, savannas, pocosin borders, near cane; host plant -- cane (Arundinaria) (Beaufort, Bertie+, Brunswick, Carteret, Craven, Cumberland, Dare, Franklin, Gaston+, Hoke, Martin+, Moore, Onslow, Pender, Pitt, Polk, Richmond, Robeson*, Scotland, Swain)					
Atrytone arogos arogos	**Arogos Skipper**	**SR**	**FSC**	**SH**	**G3T1T2**
CS: savannas, open pinewoods, and other relatively undisturbed grasslands; host plants -- grasses, mainly pinebarrens sandreed (Calamovilfa brevipilis) (Brunswick+, Carteret, Moore*, New Hanover+, Richmond+)					
Atrytonopsis loammi	**Loammi Skipper**	**SR**	**FSC**	**SH**	**G1**
CT: grassy areas near the coast; host plants presumed to be Andopogon grasses (Brunswick*, New Hanover*)					
Atrytonopsis sp. 1	**an undescribed skipper**	**SR**	**FSC**	**S1**	**G1Q**
T: dunes and sandy flats; host plant -- seaside little bluestem (Schizachyrium littorale) (endemic to North Carolina) (Carteret, Onslow)					
Autochton cellus	**Golden Banded-Skipper**	**SR**		**S2**	**G4**
MP: moist woods near streams; host plant -- hog peanut (Amphicarpaea bracteata) (Alleghany, Buncombe, Burke, Caswell, Cherokee+, Gaston+, Graham, Haywood, Macon, Madison, Mitchell, Orange*, Pitt+, Polk+, Swain)					
Calephelis virginiensis	**Little Metalmark**	**SR**		**S2**	**G4**
C: savannas and pine flatwoods; host plants -- vanilla-plant (Trilisa odoratissima), thistles (Cirsium) (Brunswick, Carteret, Craven, Cumberland+, Dare+, Moore+, New Hanover, Onslow, Pender)					
Callophrys hesseli	**Hessel's Hairstreak**	**SR**		**S3**	**G3G4**
CS: Atlantic white cedar swamps; host plant -- white cedar (Chamaecyparis thyoides) (Bladen, Brunswick, Camden, Columbus+, Craven, Cumberland, Dare, Gates+, Hoke*, Moore, Pender, Richmond, Sampson, Scotland, Tyrrell+, Washington+)					

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Region: Habitat Comments (Counties of Occurrence)					
Callophrys irus	**Frosted Elfin**	**SR**		**S2**	**G3**
CSPM: open woods and borders, usually in dry situations; host plants -- lupines (Lupinus) and wild indigos (Baptisia) (Brunswick, Buncombe+, Cherokee+, Craven+, Cumberland, Franklin, Gates+, Harnett, Hoke, Jones, Moore, Pender, Polk+, Richmond+, Scotland)					
Celastrina nigra	**Dusky Azure**	**SR**		**S2**	**G4**
M: rich, moist deciduous forests; host plant -- goat's-beard (Aruncus dioicus) (Buncombe+, Clay, Graham, Haywood, Jackson, Macon, Mitchell, Polk, Swain*, Transylvania+)					
Chlosyne gorgone	**Gorgone Checkerspot**	**SR**		**S1?**	**G5**
M: woodland openings and borders; host plants -- sunflowers, rosinweeds, and other tall composites (Clay, Macon)					
Erora laeta	**Early Hairstreak**	**SR**		**S2S3**	**G2G4**
M: deciduous forests, especially along roads or edges at high elevations; host plants -- mainly American beech (Fagus grandifolia) (Alleghany+, Ashe, Avery, Buncombe, Burke, Clay, Haywood, Jackson, Macon, Madison, Mitchell, Swain, Transylvania+)					
Erynnis martialis	**Mottled Duskywing**	**SR**		**S2**	**G3**
MPSC: upland woods and wooded edges; host plant -- New Jersey tea (Ceanothus americanus) (Alleghany, Ashe, Brunswick+, Buncombe+, Caswell, Clay, Craven+, Cumberland, Durham, Franklin, Gaston+, Graham, Granville, Henderson, Macon+, Madison, Montgomery, Moore+, Polk, Richmond+, Rutherford, Surry, Swain, Wake+, Warren, Yadkin)					
Euchloe olympia	**Olympia Marble**	**SR**		**S1**	**G4G5**
M: high elevation openings and glades; host plants -- cresses (Arabis) (Madison, Swain)					
Euphydryas phaeton	**Baltimore Checkerspot**	**SR**		**S2**	**G4**
M: bogs, marshes, wet meadows; rarely in upland woods; host plants -- turtlehead (Chelone) and false foxglove (Aureolaria) (Alleghany, Ashe, Avery, Buncombe, Graham, Haywood, Henderson, Jackson, Macon, Madison, Mitchell, Polk+, Transylvania*, Watauga)					
Euphyes berryi	**Berry's Skipper**	**SR**		**S1**	**G2G3**
C: wet areas near ponds, canals, or marshes; host plants -- sedges (Carex) (Carteret, Columbus, Craven, Dare, Hyde)					

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Region: Habitat Comments (Counties of Occurrence)					
Euphyes bimacula	**Two-spotted Skipper**	**SR**		**S2**	**G4**
CSPM: wet savannas, bogs, sedgy areas near wet woods; host plants -- sedges (Carex) (Alleghany, Ashe, Brunswick, Carteret, Craven, Gates, Harnett, Johnston, Jones+, Moore+, Pender, Vance)					
Euphyes dukesi dukesi	**Dukes' Skipper**	**SR**		**S1S2**	**G3T3**
CT: ecotones of brackish or fresh marshes with swamps; host plants -- sedges (Carex) (Beaufort, Brunswick, Craven, Currituck, Dare)					
Hesperia attalus slossonae	**Dotted Skipper**	**SR**		**S2S3**	**G3G4T3**
SC: pine/oak sandhills, flatwoods, mainly in Sandhills; host plants -- grasses (Brunswick+, Craven+, Cumberland, Hoke, Moore, Pender+, Richmond, Scotland)					
Hesperia meskei	**Meske's Skipper**	**SR**		**S3**	**G3G4**
SC: open pine woods, especially in Sandhills; host plants -- grasses (Bladen, Brunswick, Cumberland, Hoke, Moore, Onslow+, Richmond, Sampson, Scotland)					
Megathymus cofaqui cofaqui	**Cofaqui Giant-Skipper**	**SR**		**S1?**	**G3G4T3**
P: monadnocks with yucca; host plant -- Yucca filamentosa (Alexander, Polk*)					
Neonympha areolatus	**Georgia Satyr**	**SR**		**S2**	**G3G4**
C: savannas, wet powerline clearings, other damp grassy places; host plants -- sedges (Brunswick, Carteret, Columbus, Craven, Hoke*, Jones*, New Hanover, Onslow, Pender)					
Neonympha helicta	**Helicta Satyr**	**SR**		**S1?**	**G3G4**
CSP: sedgy wetlands, including sandhill seeps, pocosin ecotones, and drained beaver ponds in the Sandhills, low pocosins in the northeast Coastal Plain, and wet open swales in the Piedmont; host plants -- sedges (Alamance*, Anson, Beaufort, Bertie*, Chatham*, Cumberland, Dare, Durham*, Gaston*, Gates*, Granville, Halifax, Harnett, Hoke, Hyde, Martin*, Moore, Pitt, Richmond, Scotland, Washington)					
Neonympha mitchellii francisci	**Saint Francis' Satyr**	**SR**	**E**	**S1**	**G1G2T1**
S: boggy areas, overgrown beaver ponds, and pocosin margins with sedges in sandhills; host plants -- sedges (taxon endemic to North Carolina) (Cumberland, Hoke)					

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Region: Habitat Comments (Counties of Occurrence)					
Papilio cresphontes	**Giant Swallowtail**	**SR**		**S2S3**	**G5**
TCMP: primarily coastal in maritime forests or thickets; also in foothills and mountains near hoptree; host plants -- prickly-ash (Zanthoxylum), hoptree (Ptelea) (Alexander, Ashe, Brunswick, Buncombe, Caldwell, Carteret, Cherokee+, Currituck+, Dare, Hyde, Madison, New Hanover, Onslow, Orange*, Wake+)					
Phyciodes batesii maconensis	**Tawny Crescent**	**SR**	**FSC**	**S2**	**G4T2T3**
M: woodland openings, glades, and road banks at higher elevations; host plants -- asters, mainly Symphyotrichum undulatum (Buncombe*, Clay, Graham, Haywood+, Jackson, Macon, Swain)					
Poanes aaroni aaroni	**Aaron's Skipper**	**SR**		**S1S2**	**G4T4**
T: brackish marshes along northern coast and sounds; host plants -- grasses, perhaps saltgrass (Distichlis spicata) (Currituck, Dare, Hyde)					
Polites mystic	**Long Dash**	**SR**		**S1**	**G5**
M: bogs, wet meadows; host plants -- grasses (Alleghany, Watauga)					
Polygonia faunus smythi	**Smyth's Green Comma**	**SR**		**S1S2**	**G5T3**
M: spruce, fir, or hemlock forests, where mixed with hardwoods; host plants -- mainly birches (Avery*, Buncombe, Graham, Haywood, Henderson+, Macon, Swain, Transylvania*, Watauga+, Yancey)					
Polygonia progne	**Gray Comma**	**SR**		**S1**	**G4G5**
M: rich deciduous forests; host plants -- mainly gooseberries (Ribes) (Avery, Buncombe, Clay, Madison+, Mitchell+, Swain, Watauga)					
Pontia protodice	**Checkered White**	**SR**		**S1S2**	**G4**
PCMS: fields, pastures; host plants -- mustard species (Family Brassicaceae) (most records not yet entered) (Chatham, Richmond)					
Problema bulenta	**Rare Skipper**	**SR**	**FSC**	**S1**	**G2G3**
T: fresh to brackish marshes with tall grasses in Wilmington area; host plant -- wild rice (Zizania aquatica), possibly other tall grasses (Brunswick, New Hanover)					
Pyrgus wyandot	**Appalachian Checkered-Skipper**	**SR**	**FSC**	**S1**	**G1G2Q**
M: openings and edges near wooded hilltops; host plants -- mainly cinquefoil (Potentilla) (Alleghany, Ashe, Polk*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Satyrium caryaevorus	**Hickory Hairstreak**	**SR**		**S1**	**G4**
M: mid- to high elevation deciduous forests; host plants -- primarily hickories (Carya) (Ashe, Buncombe, Macon, Madison, McDowell, Watauga)					
Satyrium edwardsii	**Edwards' Hairstreak**	**SR**		**S2**	**G4**
SM: scrubby or xeric oak woods; host plants -- mainly oaks (Quercus) (Cumberland, Hoke, Macon, Moore, Polk+, Sampson, Scotland, Transylvania*, Watauga+)					
Satyrium favonius favonius	**Southern Oak Hairstreak**	**SR**		**S1**	**G4T4**
T: maritime forests along southern coast; host plant -- oaks, especially live oak (Quercus virginiana) (Brunswick, New Hanover) (Brunswick)					
Satyrium favonius ontario	**Northern Oak Hairstreak**	**SR**		**S2S3**	**G4T4**
PSCTM: oak-dominated woods, usually in dry sites; host plants -- oaks (Quercus) (Alleghany, Brunswick, Camden+, Carteret+, Caswell, Cleveland, Cumberland+, Currituck, Dare, Hoke, Hyde+, Iredell, Mecklenburg, Montgomery, Moore, New Hanover, Orange, Pender+, Richmond, Wilkes)					
Speyeria aphrodite cullasaja	**Cullasaja Aphrodite Fritillary**	**SR**		**S1?**	**G5T1**
M: forest openings and edges west of the Little Tennessee River; host plants -- violets (Viola) (Clay, Macon+)					
Speyeria idalia	**Regal Fritillary**	**SR**	**FSC**	**SX**	**G3**
M: wet or dry meadows, bogs, open hilltops; host plants -- violets (Viola) (Alleghany*, Ashe*, Avery*, Wilkes*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Macro-moths

Acronicta albarufa	**Barrens Daggermoth**	**SR**		**S1S2**	**G3G4**
S: oak glades and barrens (Cumberland, Moore)					
Acronicta perblanda	**Cypress Daggermoth**	**SR**		**S1S2**	**G3G4**
C: cypress swamps (Carteret)					
Acronicta sinescripta	**a dagger moth**	**SR**		**S1S3**	**G3G4**
C: savannas and flatwoods (Brunswick, Pender+)					
Agrotis carolina	**a dart moth**	**SR**	**FSC**	**S2S3**	**G2G3**
CS: flatwoods with pyxie-moss (endemic to North Carolina) (Bladen+, Brunswick, Carteret, Craven+, Onslow+, Pender)					
Anacamptodes cypressaria	**an inchworm moth**	**SR**		**S2S3**	**G2G4**
C: cypress swamps (Beaufort, Brunswick, Dare, Martin, New Hanover, Pender+)					
Apamea inebriata	**a noctuid moth**	**SR**		**S1S2**	**G3G4**
C: sedge meadows (Harnett, Hoke)					
Apameine new genus 2 sp. 1	**a cane borer moth**	**SR**		**S2S3**	**GNR**
CM: woodland canebrakes (Brunswick, Swain)					
Apameine new genus 2 sp. 3	**a canebrake moth**	**SR**		**S2S3**	**GNR**
CS: woodland canebrakes (Carteret+, Craven+, Hoke, Martin, Washington)					
Apameine new genus 2 sp. 4	**a cane borer**	**SR**		**S1S2**	**GNR**
M: woodland canebrakes (Swain)					
Apantesis sp. 1 nr. carlotta	**a tiger moth**	**SR**		**S2S3**	**G4**
CS: savannas and sandhill seeps (Brunswick, Carteret, Harnett, Pender+)					
Arctia caja	**Great Tiger Moth**	**SR**		**S1?**	**G5**
M: high elevation hardwood forests in northern mountains					
Argyrostrotis quadrifilaris	**Four-lined Chocolate**	**SR**		**S2S3**	**G4**
C: pocosins and flatwoods					
Bleptina sangamonia	**a noctuid moth**	**SR**		**S1S2**	**GU**
C: unknown (known in North Carolina from a single record from Bladen County)					
Catocala consors	**Consort Underwing**	**SR**		**SH**	**G4**
P: oak-hickory forest (Gaston*)					
Catocala dulciola	**Sweet Underwing**	**SR**		**S1?**	**G3**
M: forests with hawthorns (Alleghany*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Catocala grisatra	**Grisatra Underwing**	**SR**		**S1S2**	**G1G3**
C: sandhills and dry woods with hawthorns (Bladen+)					
Catocala herodias gerhardi	**Herodias Underwing**	**SR**		**S1**	**G3T3**
M: oak forests, particularly with bear oak (Quercus ilicifolia) (Stokes+)					
Catocala jair	**Jair Underwing**	**SR**		**S1S3**	**G4**
SC: xeric pine-oak sandhills (Bladen, Hoke, Moore, New Hanover+)					
Catocala lincolnana	**Lincoln Underwing**	**SR**		**S2S3**	**G3**
C: wooded areas with hawthorns (Brunswick+, Martin, Pender+)					
Catocala louiseae	**Louise's Underwing**	**SR**		**S1S2**	**G4**
C: flatwoods and other habitats with blueberries (Bladen+)					
Catocala marmorata	**Marbled Underwing**	**SR**		**S1S3**	**G3G4**
C: swamp forests with swamp cottonwood (Brunswick, Macon, Martin, New Hanover)					
Catocala messalina	**Messalina Underwing**	**SR**		**S2?**	**G4**
ST: maritime forests and xeric sandhills (Dare, Harnett, New Hanover+)					
Catocala orba	**Orba Underwing**	**SR**		**S2S3**	**G4**
C: levee forests with hawthorn (Martin)					
Cerma cora	**a bird-dropping moth**	**SR**		**S2S3**	**G3G4**
CM: levee forests with hawthorn (Martin, New Hanover+)					
Chaetaglaea fergusoni	**a noctuid moth**	**SR**		**S1S2**	**G3G4**
CS: sandhills (Brunswick+, New Hanover+)					
Cryphia cyanympha	**an owlet moth**	**SR**		**S2S3**	**G4**
C: sandhills					
Cyclophora sp. 1 (culicaria of authors)	**Sand-myrtle Geometer**	**SR**		**S1**	**G3**
C: flatwoods with sand-myrtle (Leiophyllum) (Brunswick, New Hanover+)					
Cycnia inopinatus	**Unexpected Cycnia**	**SR**		**S2S3**	**G4**
MPC: on milkweeds					
Dasychira leucophaea	**a tussock moth**	**SR**		**S2S3**	**G4**
C: unknown					
Datana ranaeceps	**a hand-maid moth**	**SR**		**S2S3**	**G3G4**
CS: recently burned flatwoods and sandhills (Brunswick, Carteret, Cumberland, New Hanover, Onslow, Pender)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Datana robusta	**a prominent moth**	**SR**		**S1S2**	**G2G4**
C: savannas, flatwoods, and sandhills (Onslow)					
Derrima stellata	**Pink Star Moth**	**SR**		**SH**	**G4**
M: unknown					
Drasteria graphica	**Graphic Moth**	**SR**		**S1S2**	**G4**
T: maritime shrub thickets (Brunswick+, New Hanover+)					
Eilema bicolor	**Bicolored Moth**	**SR**		**S1S2**	**G5**
M: spruce-fir forests (Swain)					
Entephria separata	**a geometrid moth**	**SR**		**SH**	**GNR**
M: high elevation forests or heath balds, known only from Mt. Mitchell (Yancey)					
Erastria coloraria	**Broad-lined Catopyrrha**	**SR**		**S2S3**	**G3G4**
S: open woodlands with New Jersey tea (Ceanothus americanus) (Cumberland, Moore)					
Eubaphe meridiana	**The Little Beggar**	**SR**		**S2S3**	**G4**
CS: savannas (Brunswick, Carteret, Pender+)					
Euchlaena milnei	**Milne's Euchlaena**	**SR**		**S1S3**	**G2G4**
M: habitats uncertain but are probably riparian (Graham)					
Eucoptocnemis dapsilis	**an owlet moth**	**SR**		**S2S3**	**G4**
C: unknown					
Eulithis propulsata	**a geometrid moth**	**SR**		**S2S3**	**GNR**
M: high elevation forests					
Eupithecia peckorum	**an inchworm moth**	**SR**		**S2S3**	**G4**
C: sandhills and flatwoods (Brunswick, New Hanover+, Pender+)					
Euxoa declarata	**a dart moth**	**SR**		**S2?**	**G4G5**
M: unknown					
Exyra fax	**Purple Pitcher-plant Moth**	**SR**		**S2S3**	**G4**
PC: wetlands with purple pitcher-plants					
Exyra ridingsii	**a pitcher-plant moth**	**SR**		**S2**	**G2G4**
PC: wetlands with yellow pitcher-plants					
Exyra semicrocea	**a pitcher-plant moth**	**SR**		**S2S3**	**G3G4**
C: wetlands with pitcher-plants (Bladen+, Brunswick, Cumberland, Hoke, Onslow+, Pender+)					
Faronta aleada	**a noctuid moth**	**SR**		**S1S2**	**GNR**
T: maritime grasslands (Carteret, Hyde)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Faronta rubripennis	**Pink Streak**	**SR**		**S2S3**	**G3G4**
C: beach grasslands					
Franclemontia interrogans	**a noctuid moth**	**SR**		**S2S3**	**G3G4**
CS: canebrakes (Brunswick, Carteret, Craven)					
Gabara sp. 1	**a noctuid moth**	**SR**		**S1S2**	**G1G3**
C: savannas and flatwoods (Brunswick+, Onslow+, Pender+)					
Grammia phyllira	**Phyllira Tiger Moth**	**SR**		**S2S3**	**G4**
CSP: sandhills (Bladen, Cumberland, Gaston, Moore, Onslow, Pender, Richmond, Wake)					
Grammia placentia	**Placentia Tiger Moth**	**SR**		**S2S3**	**G4**
S: sandhills (Cumberland, Harnett, Hoke)					
Hadena ectypa	**a noctuid moth**	**SR**		**S1S2**	**G3G4**
M: cove forests?					
Hemaris gracilis	**Graceful Clearwing**	**SR**		**SH**	**G3G4**
C: sandhills, barrens, and other dry heathlands (records not yet entered)					
Hemeroplanis sp. 1 nr. obliqualis	**an owlet moth**	**SR**		**S2S3**	**GNR**
PS: dry woodlands with dwarf locusts (Cumberland, Hoke, Moore, Stokes)					
Hemipachnobia monochromatea	**Sundew Cutworm Moth**	**SR**		**S1?**	**G4**
C: cranberry bogs and northern low pocosins (Dare)					
Hemipachnobia subporphyrea	**Venus Flytrap Cutworm Moth**	**SR**	**FSC**	**S1?**	**G1**
C: savannas with Venus flytraps (endemic to North Carolina) (Bladen*, Brunswick, Carteret, Pender)					
Hepialus gracilis	**a ghost moth**	**SR**		**S1S2**	**GNR**
M: spruce-fir forests					
Hepialus sciophanes	**a ghost moth**	**SR**		**S1?**	**GU**
M: spruce-fir forests (Jackson)					
Heterocampa varia	**a prominent moth**	**SR**		**S1S2**	**G3G4**
SC: xeric pine-oak sandhills (Cumberland, Hoke, Moore, New Hanover, Richmond)					
Hydriomena exculpata	**a geometrid moth**	**SR**		**SH**	**GNR**
M: spruce-fir forests, known in North Carolina only from Mt. Mitchell (Yancey*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Hypagyrtis brendae	**Brenda's Hypagyrtis**	**SR**		**S2S3**	**G4**
CS: Atlantic white cedar forests (Brunswick, Dare, Hoke, Pender+)					
Hypomecis buchholzaria	**Buchholz's Gray**	**SR**		**S1S2**	**G3G4**
C: fire-maintained glades and barrens (Carteret+)					
Idaea ostentaria	**a wave**	**SR**		**S2S3**	**GNR**
C: sandhills					
Idia majoralis	**a moth**	**SR**		**S1S3**	**GNR**
MP: associated with woodrat nests (Stokes)					
Lagoa pyxidifera	**Yellow Flannel Moth**	**SR**		**S2S3**	**G4G5**
CS: savannas, flatwoods, and sandhills (Brunswick, Pender+)					
Lascopia roblei	**a canebrake moth**	**SR**		**S2S3**	**GNR**
CS: woodland canebrakes (Craven+, Cumberland, Dare, Jones+, Martin)					
Lemmeria digitalis	**a noctuid moth**	**SR**		**S1S3**	**G4**
S: sedge meadows (Cumberland)					
Leptostales laevitaria	**a wave**	**SR**		**S2S3**	**G4**
C: unknown					
Leucania calidior	**Cane Wainscot**	**SR**		**S1S2**	**G2G4**
C: canebrakes					
Lithophane georgii	**a pinion moth**	**SR**		**S1S2**	**G5**
M: spruce-fir forests (Yancey+)					
Lithophane laceyi	**a pinion moth**	**SR**		**S1S3**	**G3G4**
C: swamp forests (Brunswick+, New Hanover+, Pender+)					
Lytrosis permagnaria	**A Geometrid Moth**	**SR**		**S2S3**	**G3G4**
M: unknown (Macon)					
Macrochilo sp. 1 nr. absorptalis	**a noctuid moth**	**SR**		**S1**	**G3**
S: sedge meadows (Cumberland, Hoke)					
Melanapamea mixta	**a noctuid moth**	**SR**		**S2S3**	**GU**
CSM: savannas, wet meadows (Alleghany, Hoke, Macon, Onslow)					
Merolonche dolli	**a noctuid moth**	**SR**		**S1S2**	**G3G4**
M: dry oak woodlands (Macon)					
Meropleon cinnamicolor	**an owlet moth**	**SR**		**S1?**	**GU**
TC: coastal marshes (Carteret)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Meropleon diversicolor sullivani	**an owlet moth**	**SR**		**S1S2**	**G4T1T3**
T: coastal marshes (Brunswick+, Craven+)					
Metalectra albilinea	**White-lined Fungus Moth**	**SR**		**S2S3**	**GNR**
C: unknown					
Nematocampa baggettaria	**Baggett's Nematocampa**	**SR**		**S1S2**	**G2G4**
CS: unknown (Brunswick, Onslow+, Pender+)					
Nemoria tuscarora	**Tuscarora Emerald**	**SR**		**S1S3**	**GU**
M: unknown (Ashe)					
Orgyia antiqua	**Rusty Tussock Moth**	**SR**		**S1S2**	**GNR**
no locality data					
Pachypolia atricornis	**a noctuid moth**	**SR**		**S2S3**	**G3G4**
M: northern hardwoods and rich cove forests?					
Papaipema appassionata	**Pitcher-plant Borer Moth**	**SR**		**S2S3**	**G4**
CS: wetlands with pitcher-plants (Brunswick, Harnett, Pender+)					
Papaipema astuta	**Yellow Stoneroot Borer Moth**	**SR**		**S1S2**	**G2G3**
M: rich cove forests? (Swain)					
Papaipema eryngii	**Rattlesnake-master Borer Moth**	**SR**		**S1**	**G1G2**
C: savannas (known from the entire Atlantic Slope only from a single site) (Pender+)					
Petrophora subaequaria	**Northern Petrophora**	**SR**		**SH**	**G4G5**
M: unknown					
Platarctia parthenos	**St. Lawrence Tiger Moth**	**SR**		**S1S2**	**G5**
M: northern hardwood forests?					
Protapamea louisae	**a cane borer moth**	**SR**		**SH**	**GNR**
M: canebrakes (known in NC only from an historical record from Highlands, Macon County)					
Ptichodis bistrigata	**Southern Ptichodis**	**SR**		**S2S3**	**G3**
CSP: xeric sandhills (Bladen+, Brunswick, Hoke, Montgomery, New Hanover+, Onslow+)					
Pygarctia abdominalis	**Yellow-edged Pygarctia**	**SR**		**S2S3**	**G3**
CS: xeric sandhills (Brunswick+, Hoke, Onslow+, Pender+)					
Pyreferra ceromatica	**Annointed Sallow Moth**	**SR**	**FSC**	**S1S2**	**GU**
C: flatwoods and pocosins with Fothergilla? (Craven+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Rheumaptera subhastata	**a geometrid moth**	**SR**		**SH**	**GNR**
M: northern hardwoods and other high elevation habitats					
Rhodoecia aurantiago	**Aureolaria Seed Borer**	**SR**		**S1S3**	**G4**
dry woods with false-foxgloves (Aureolaria)					
Schinia bina	**Bina Flower Moth**	**SR**		**SH**	**G4**
S: sandhills					
Schinia carolinensis	**Carolina Schinia**	**SR**		**S2S3**	**G3**
CS: savannas and sandhill seeps (Brunswick, Hoke, Moore, Onslow, Pender+)					
Schinia jaguarina	**Jaguar Flower Moth**	**SR**		**S1S3**	**G4**
C: savannas and sandhills (Harnett, Pender+)					
Schinia septentrionalis	**a flower moth**	**SR**		**SH**	**G3G4**
CS: sandhills (Brunswick+)					
Schizura apicalis	**Plain Schizura**	**SR**		**S1S2**	**G3G4**
CS: unknown (Bladen, Brunswick, Harnett, New Hanover, Onslow)					
Schizura sp. 1	**a new prominent moth**	**SR**		**S1S2**	**GU**
PC: unknown (Brunswick+, Chatham, Craven, Onslow+, Wake*)					
Scopula purata	**Chalky Wave**	**W3**		**S2S3**	**G4**
C: acidic wetlands					
Semiothisa ordinata	**Amorpha Angle**	**SR**		**S2S3**	**GNR**
C: sandhills					
Spartiniphaga carterae	**Carter's Noctuid Moth**	**SR**	**FSC**	**S2S3**	**G2G3**
CS: savannas and sandhills with pinebarrens sandreed (Calamovilfa brevipilis) (Bladen+, Brunswick, Carteret, Cumberland, Pender)					
Stenoporpia polygrammaria	**Faded Gray Geometer**	**SR**		**S1S2**	**GU**
P: only recorded in North Carolina at Hanging Rock State Park (Stokes)					
Syngrapha alias	**a looper moth**	**SR**		**S2?**	**G5**
M: spruce-fir forests					
Tolype minta	**Southern Tolype**	**SR**		**S2S3**	**G4**
C: longleaf pine stands					
Tornos cinctarius	**a gray**	**SR**		**S2?**	**GNR**
CS: savannas and sandhills (Cumberland, Hoke, Pender+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Trichosilia manifesta	**an owlet moth**	**SR**		**S2S3**	**G4**
CSM: xeric oak woodlands (Brunswick+, Cumberland, Macon, New Hanover+, Onslow+, Pender+)					
Xestia perquiritata	**a noctuid moth**	**SR**		**S1S2**	**G5**
M: spruce-fir forests					
Zale declarans	**an owlet moth**	**SR**		**S2S3**	**G5**
T: maritime forests with live oak (Brunswick+, Carteret+, Dare+, New Hanover+)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Grasshoppers and Katydids

Arphia granulata	**Southern Yellow-winged Grasshopper**	**SR**		**S2S3**	**G5**
C: flatwoods, sandhills					
Booneacris variegata	**a wingless locust**	**SR**		**S2?**	**G5**
no locality data					
Dendrotettix zimmermanni	**Zimmermann's Dendrotettix**	**SR**		**SH**	**GU**
M: forests					
Eotettix pusillus	**Little Eastern Grasshopper**	**SR**		**S2?**	**G2G3**
C: sandhills (wet swales?) (records not yet entered)					
Melanoplus angustipennis	**Narrow-winged Locust**	**SR**		**SH**	**G5**
Melanoplus attenuatus	**Slender-bodied Melanoplus**	**SR**		**SH**	**G2G3**
C: wet swales in pinewoods (records not yet entered)					
Melanoplus carnegiei	**Carnegie's Melanoplus**	**SR**		**SH**	**GU**
M: open pine and oak forests					
Melanoplus cherokee	**Cherokee Melanoplus**	**SR**		**S1S3**	**G1G3**
M: woodlands, 1800' - 5100' (records not yet entered)					
Melanoplus deceptus	**Deceptive Melanoplus**	**SR**		**S2S3**	**G2G4**
M: mountain slopes and tops, 4000' - 5700' (Haywood+, Jackson+, Macon+, Madison+)					
Melanoplus decoratus	**Decorated Melanoplus**	**SR**		**S1S2**	**GU**
M: dry woodlands					
Melanoplus decorus	**Decorated Spur-throat Grasshopper**	**SR**		**S2S3**	**G2G3**
C: savannas, flatwoods, low pocosins (endemic to North Carolina) (Carteret, Dare, Pender)					
Melanoplus divergens	**Divergent Melanoplus**	**SR**		**SH**	**G2G3**
M: glades and balds, 1800' - 4717' (records not yet entered)					
Melanoplus eurycercus	**a spur-throat grasshopper**	**SR**		**SH**	**G4**
M: Mitchell County					
Melanoplus impudicus	**Immodest Spur-throat Grasshopper**	**SR**		**SH**	**G4G5**
M: barrens and glades					
Melanoplus mirus	**a short-winged Melanoplus**	**SR**		**SH**	**GH**
PC: open woodlands (records not yet entered)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Melanoplus nubilus	**a short-winged Melanoplus**	**SR**		**S2**	**G2G3**
CS: flatwoods, savannas, sandhill seeps (Brunswick, Cumberland, Harnett, Hoke)					
Melanoplus pachycercus	**a spur-throat grasshopper**	**SR**		**S1S2**	**G2G3**
M: grassy balds and woodland openings and margins (Avery+, Macon+, Mitchell+, Yancey+)					
Melanoplus serrulatus	**Serrulate Melanoplus**	**SR**		**SH**	**G1G3**
M: valleys and lower slopes in the Nantahala Mountains (records not yet entered)					
Melanoplus similis	**a short-winged Melanoplus**	**SR**		**SH**	**G5**
M: open woodlands					
Melanoplus sp. 35	**a grasshopper**	**SR**		**S1S2**	**G1G2**
Melanoplus sp. 6	**a grasshopper**	**SR**		**S1S2**	**G1G2**
Melanoplus strumosus	**Swollen Spur-throat Grasshopper**	**SR**		**S2S3**	**G4G5**
C: sandhills					
Melanoplus sylvestris	**a spur-throat grasshopper**	**SR**		**SH**	**G1G3**
Mermiria bivittata	**Two-striped Mermiria**	**SR**		**S2S3**	**G5**
CT: sandhills, wooded grasslands					
Mermiria intertexta	**Intertexta Mermiria**	**SR**		**S2S3**	**G4?**
T: marshes					
Montezumina modesta	**Montezuma Katydid**	**SR**		**SU**	**GU**
C: pinewoods and other habitats (records not yet entered)					
Scudderia septentrionalis	**Northern Bush Katydid**	**SR**		**S2S3**	**G3?**
M: forests (records not yet entered)					
Stethophyma celatum	**Broad-winged Sedge Grasshopper**	**SR**		**S1S2**	**G4**
CS: bogs, wet tallgrass prairies (Brunswick, Harnett*, Pender)					
Trimerotropis saxatilis	**Rock-loving Grasshopper**	**SR**		**S1S2**	**G3**
M: lichen-covered rock outcrops (Transylvania)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Beetles

Cicindela lepida	**Ghost Tiger Beetle**	**SR**		**S1?**	**G3G4**
T: sand dunes along northern coast (Dare)					
Cicindela nigrior	**Autumn Tiger Beetle**	**SR**		**S1S2**	**G2G4**
P: hard-packed sandy uplands					
Cicindela patruela	**Northern Barrens Tiger Beetle**	**SR**		**S2?**	**G3**
MP: sandy soil in open pine or pine-oak woods (records not yet entered) (Avery+, Haywood+, Macon+, Mitchell+, Transylvania+, Wake+, Watauga+, Yancey+)					
Lordithon niger	**Black Lordithon Rove Beetle**	**SR**		**SH**	**GU**
no location data					
Nicrophorus americanus	**American Burying Beetle**	**SR**	**E**	**SH**	**G2G3**
M: sites with abundance of small vertebrate carrion (Ashe*, Buncombe*, Burke*, Craven*, Moore*, Wake*, Yancey*)					
Stenelmis gammoni	**Gammon's Stenelmis Riffle Beetle**	**SR**	**FSC**	**S2**	**G1G3**
MP: South Fork New River, upper Yadkin River basin (Ashe*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: True Bugs

Chlorochroa dismalia	**Dismal Swamp Green Stink Bug**	**SR**		**S1?**	**G1G3**
C: canebrakes (Craven, Harnett*, Hyde*, Onslow*)					

NORTH CAROLINA ANIMAL WATCH LIST

The *North Carolina Animal Watch List* includes animals that are rare or uncommon, are not well-studied, or are otherwise threatened with serious decline, but that are not placed on the List of Rare Animals of North Carolina by the NCNHP. Watch List species are additional 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 files on these species, but does not include them in its computer database. Animals placed on this list fall into a number of categories, as 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 many animal groups, but not for others, as these listings were added late in 2012 and there was not time to enter known counties of occurrence for many groups. A few groups, such as birds, are migratory, and thus counties of occurrence will be misleading. These listings of counties should not be assumed to be thorough and complete, except for a few groups, such as dragonflies. They are intended to give a general overview of the range of a species. It is hoped that counties of occurrence can be provided for most, if not all, animal groups on the Watch List on the next publication in 2014.

Reasons for the current placement of species on the Watch List rather than at a higher rarity status (Endangered, Threatened, Special Concern, Significantly Rare) are varied. For many of them, the Natural Heritage Program 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 or may not be declining. Some others may not be necessarily rare as yet, but they are undergoing significant losses of their habitat, such as animals of the spruce-fir forest, or are undergoing significant disturbances to their habitat, such as human disturbances to beach-nesting birds.

The following five Watch Categories have been devised to indicate the reasons for each species' current placement(s). These categories and the descriptions of them have been developed by the NCNHP.

A number of species have been placed in two Watch Categories, because it is believed they may be "in trouble" for at least two reasons. For example, the Red-breasted Nuthatch has a rather small breeding population in the state, in the higher elevations of the mountains, giving it a W2 status. However, as a portion of the breeding population occurs in the spruce-fir zone, which is undergoing degradation of the canopy, it is also given a W5 status, as well.

<u>Watch Category 1 (W1)</u> includes species that are known to be declining in North Carolina, for one reason or another. The distribution or population sizes of such species in the state are fairly well known; loss of habitat is not necessarily a factor. A large number of species are known to be declining in the state, such as Neotropical migrant birds, but the species in this category must have an N.C. Rank of S3S4 or higher (S3, S2, S1, etc.). Examples: Rusty Blackbird, Spotted Turtle, Bull Chub.

<u>Watch Category 2 (W2)</u> includes species that are rare to uncommon in North Carolina, but are not necessarily considered to be declining or otherwise in trouble. Generally speaking, the distribution or population sizes of such species in the state are fairly well known. Examples: Willow Flycatcher, Pine Woods Snake, Spotted Sunfish.

Watch Category 3 (W3) includes species that are poorly known in North Carolina, but are not necessarily considered to be declining or otherwise in trouble. The distribution and population sizes of such species are not well known; this is especially true for a large number of invertebrates, as well as secretive or nocturnal vertebrates. Examples: Striped Mud Turtle, Sandhills Salamander, Banner Clubtail.

Watch Category 4 (W4) includes species reported from North Carolina without adequate documentation. These species should be listed at a higher level, if their reported occurrence in North Carolina is true. This category includes sight records of uncertain validity, old and vague reports for which no documentation has appeared, specimens that cannot be verified as being taken in the state, and, in a few cases, more recent reports for which we have not yet received documentation. Example: Smooth Green Snake, Cumberland Crayfish Ostracod, Elusive Clubtail.

Watch Category 5 (W5) includes 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 their vehicles on beaches), among other types of threats. Threats can also include use of pesticides, acid rain, fire suppression, over-collection by zoologists, and varied other factors. Examples: American Kestrel, Bigeye Chub, Phaon Crescent.

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Mammals

Dasypus novemcinctus	**Nine-banded Armadillo**	**W3**		**SU**	**G5**
CPS: variety of forested and scrub habitats, preferably where sandy or other loose soil is present					
Lasiurus cinereus	**Hoary Bat**	**W2**		**S3S4**	**G5**
M: mid- to high elevations (breeding season only) (Bertie, Bladen, Brunswick, Buncombe, Durham, Lenoir, Martin, Moore, Nash, New Hanover, Onslow, Orange, Pender, Pitt, Robeson, Sampson, Transylvania, Wake, Watauga)					
Lasiurus seminolus	**Seminole Bat**	**W2**		**S3**	**G5**
CP: forages over open areas, often over water (summer) (Hoke, Johnston, Mecklenburg, New Hanover, Wake)					
Mustela frenata	**Long-tailed Weasel**	**W3**		**S3S4**	**G5**
MPC: forests, brushy areas (Alleghany, Bertie, Bladen, Brunswick, Buncombe, Catawba, Chatham, Cherokee, Craven, Currituck, Dare, Duplin, Durham, Forsyth, Guilford, Haywood, Henderson, Johnston, Macon, Madison, Martin, Mecklenburg, Mitchell, Montgomery, Moore, Nash, Pasquotank, Perquimans, Robeson, Stanly, Transylvania, Union, Wake, Yancey)					
Neotoma floridana haematoreia	**Eastern Woodrat - Southern Appalachian Population**	**W2**	**FSC**	**S3S4**	**G5T4Q**
MP: rocky places in deciduous or mixed forests, in southern mountains and adjacent Piedmont (Buncombe, Burke, Catawba, Haywood, Henderson, Jackson, Macon, Madison, Polk, Rutherford, Swain, Transylvania)					
Puma concolor couguar	**Eastern Cougar**	**W4,E**	**E**	**SX**	**G5THQ**
MPC: extensive forests, remote areas					
Sciurus niger	**Eastern Fox Squirrel**	**W2**		**S3**	**G5**
SCMP: open forests, mainly longleaf pine/scrub oak (Alleghany, Anson, Ashe, Avery*, Beaufort, Bertie, Bladen, Brunswick, Buncombe*, Cherokee*, Clay*, Columbus, Craven, Cumberland, Davidson, Davie, Duplin, Edgecombe, Graham*, Halifax, Harnett, Hoke, Johnston, Macon*, Martin, Montgomery, Moore, New Hanover, Onslow, Pender, Pitt, Richmond, Robeson, Sampson, Scotland, Stokes, Surry, Swain*, Union, Wake, Washington, Watauga, Wayne, Wilkes)					

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Sorex hoyi	**American Pygmy Shrew**	**W2**		**S3**	**G5**
MC: montane deciduous forests; old fields and forests in northeastern Coastal Plain (Buncombe, Cherokee, Clay, Gates, Graham, Henderson, Jackson, Macon, Rutherford, Swain, Transylvania, Yancey)					
Synaptomys cooperi stonei	**Southern Bog Lemming**	**W2**		**S3**	**G5TNR**
M: bogs and wet meadows (Buncombe, Haywood, Macon, Madison, Mitchell, Swain, Yancey)					
Zapus hudsonius	**Meadow Jumping Mouse**	**W2**		**S3**	**G5**
MP: open moist fields and brushy places, usually near water (Alleghany, Buncombe, Clay, Durham, Forsyth, Haywood, Macon, Mecklenburg, Mitchell)					

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Birds

Accipiter gentilis	**Northern Goshawk**	**W3**		**SUB**	**G5**
M: extensive, remote forests, mainly at high elevations (for nesting) [breeding evidence only]					
Ammodramus caudacutus	**Saltmarsh Sparrow**	**W3**		**SUB,S4N**	**G4**
T: tidal marshes [breeding season only]					
Ammodramus savannarum	**Grasshopper Sparrow**	**W1,W5**		**S3B,S1N**	**G5**
PSCM: pastures and other grasslands [breeding season only]					
Anas discors	**Blue-winged Teal**	**W3**		**SHB,S2N**	**G5**
TC: fresh to slightly brackish marshes, usually at impoundments [breeding evidence only]					
Anhinga anhinga	**Anhinga**	**W2**		**S3B**	**G5**
C: wooded lakes or ponds, or open swamps (for nesting) [breeding evidence only]					
Asio flammeus	**Short-eared Owl**	**W3**		**SUB,S3N**	**G5**
TC: coastal marshes [breeding season only]					
Asio otus	**Long-eared Owl**	**W3**		**SUB**	**G5**
M: high elevation forests in northern mountains [breeding season only]					
Contopus cooperi	**Olive-sided Flycatcher**	**W3**	**FSC**	**SUB**	**G4**
M: montane conifer forests (mainly spruce-fir) with openings or dead trees [breeding season only]					
Corvus corax	**Common Raven**	**W2**		**S3**	**G5**
MP: cliffs or ledges for nesting; forests or fields (mainly at high elevations) for foraging [breeding evidence only]					
Empidonax minimus	**Least Flycatcher**	**W2**		**S3B**	**G5**
M: open hardwood forests, groves, streamside trees [breeding season only]					
Empidonax traillii	**Willow Flycatcher**	**W2**		**S3B**	**G5**
MP: wet thickets in open country, often along streams in broad valleys [breeding season only]					
Eudocimus albus	**White Ibis**	**W2**		**S3B,S3N**	**G5**
T: forests or thickets on maritime islands [breeding sites only]					
Euphagus carolinus	**Rusty Blackbird**	**W1**		**S3N**	**G4**
CSP: swamps and other moist hardwood forests, usually near fields [wintering habitat only]					

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Falco sparverius	**American Kestrel**	**W1,W5**		**S3B,S5N**	**G5**
MPSC: open country; nests in cavities [breeding evidence only]					
Gallinula galeata	**Common Gallinule**	**W2**		**S3B,S2N**	**G5**
TC: freshwater ponds and impoundments with much emergent vegetation [breeding season only]					
Helmitheros vermivorum pop. 1	**Worm-eating Warbler - Coastal Plain Population**	**W5**		**S3B**	**G5TNR**
C: nonriverine wet hardwoods, pocosins [breeding season only]					
Lanius ludovicianus	**Loggerhead Shrike**	**W2,SC**		**S3B,S3N**	**G4**
PSC: fields and pastures [breeding season only] (Alamance, Alleghany*, Anson, Bladen, Brunswick, Cabarrus, Carteret*, Chatham, Cleveland, Columbus, Cumberland, Davidson, Davie, Duplin, Edgecombe, Forsyth, Franklin, Guilford, Halifax, Harnett, Hoke, Iredell, Johnston, Jones, Lee, Lenoir, Mecklenburg, Montgomery, Moore, Nash, New Hanover, Pitt, Richmond, Robeson, Rockingham*, Rutherford, Sampson, Scotland, Stanly, Transylvania*, Union, Vance*, Wake, Wayne, Wilson)					
Lophodytes cucullatus	**Hooded Merganser**	**W3**		**S1B,S4N**	**G5**
PMC: lakes and ponds, with dead trees for nesting [breeding evidence only]					
Nycticorax nycticorax	**Black-crowned Night-Heron**	**W1**		**S3B,S3N**	**G5**
T: maritime thickets or forests, almost always on small islands [nesting sites only]					
Onychoprion fuscatus	**Sooty Tern**	**W2**		**SHB,S3N**	**G5**
T: sand flats on maritime islands [breeding sites only]					
Podilymbus podiceps	**Pied-billed Grebe**	**W2**		**S3B,S5N**	**G5**
TC: fresh to slightly brackish ponds and impoundments, usually with fringing vegetation [breeding season only]					
Rallus elegans	**King Rail**	**W1,W3**		**S3B,S3N**	**G4**
TCP: fresh to slightly brackish marshes [breeding season only]					
Rallus limicola	**Virginia Rail**	**W3**		**S3B,S5N**	**G5**
T: brackish to nearly fresh marshes near coast [breeding season only]					
Regulus satrapa	**Golden-crowned Kinglet**	**W2,W5**		**S3S4B,S5N**	**G5**
M: spruce-fir forests; hardwood forests mixed with spruce or hemlock [breeding season only]					

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Sitta canadensis	**Red-breasted Nuthatch**	**W2,W5**		**S3B,S4N**	**G5**
M: high-elevation coniferous forests, preferably spruce-fir [breeding season only]					
Sphyrapicus varius	**Yellow-bellied Sapsucker**	**W2**		**S3B,S5N**	**G5**
M: mature, open hardwoods with scattered dead trees [breeding season only]					
Spinus pinus	**Pine Siskin**	**W3**		**SUB,S3N**	**G5**
M: spruce-fir forests [breeding evidence only]					
Spiza americana	**Dickcissel**	**W3,W5**		**S2B**	**G5**
PC: fallow fields and pastures with tall forbs [breeding season only]					
Sterna forsteri	**Forster's Tern**	**W2**		**S3B,S5N**	**G5**
T: salt or brackish marshes, nesting on wrack material or matted grasses [breeding sites only]					
Thalasseus sandvicensis	**Sandwich Tern**	**W2,W5**		**S3B**	**G5**
T: sand flats on maritime islands [breeding sites only]					
Troglodytes hiemalis	**Winter Wren**	**W2,W5**		**S3B,S5N**	**G5**
M: cool, moist forests at mid- to high elevations [breeding season only]					
Tyrannus forficatus	**Scissor-tailed Flycatcher**	**W3**		**SUB**	**G5**
PS: extensive pastures and fields with scattered trees [breeding evidence only]					

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Reptiles

Apalone spinifera aspera	**Gulf Coast Spiny Softshell**	**W2**		**S3**	**G5T5**
PC: large streams, ponds, and lakes with sandy bottoms					
Cemophora coccinea	**Scarlet Snake**	**W1,W5**		**S3**	**G5**
CSPM: sandhills, sandy woods, and other dry woods					
Clemmys guttata	**Spotted Turtle**	**W1**		**S3**	**G5**
CTSP: shallow water of pools, marshes, wet pastures and other smaller wetlands					
Kinosternon baurii	**Striped Mud Turtle**	**W3**		**S3S4**	**G5**
C: various shallow wet places; ponds, pools, ditches					
Lampropeltis triangulum elapsoides	**Scarlet Kingsnake**	**W1,W5**		**S3**	**G5T5**
CSPM: pine flatwoods, mesic pine-hardwood forests					
Lampropeltis triangulum triangulum	**Eastern Milk Snake**	**W3**		**S3**	**G5T5**
MP: wooded slopes, pastures, meadows, especially in rocky areas					
Opheodrys vernalis	**Smooth Green Snake**	**W4,SC**		**SH**	**G5**
M: fields and grassy meadows					
Pseudemys rubriventris	**Eastern Redbelly Turtle**	**W1**		**S3S4**	**G5**
C: lakes, ponds, freshwater rivers					
Rhadinaea flavilata	**Pine Woods Snake**	**W2**		**S3**	**G4**
C: pine flatwoods and other damp woodlands					
Virginia valeriae	**Smooth Earth Snake**	**W2**		**S3**	**G5**
CSPM: deciduous or mixed woods, usually in mesic soils					

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Amphibians

Desmognathus aeneus	**Seepage Salamander**	**W2**	**FSC**	**S3**	**G3G4**
M: seeps, springs, or streams in forests in extreme southwestern counties					
Desmognathus imitator	**Imitator Salamander**	**W2**		**S3**	**G3G4**
M: cool, moist high elevation hardwood or spruce-fir forests; nearly confined to Great Smoky Mountains National Park					
Eurycea sp. 9	**Sandhills Salamander**	**W3**		**S3**	**G3?Q**
C: small streams in the Sandhills					
Plethodon glutinosus	**Northern Slimy Salamander**	**W4**		**SU**	**G5**
M: moist wooded slopes, ravines, and floodplains; presumed to occur in the northwestern mountains					
Plethodon jordani	**Jordan's Salamander**	**W3**		**S3**	**G3**
M: rich forests in the southwestern mountains					
Plethodon richmondi	**Southern Ravine Salamander**	**W2**		**S3**	**G5**
M: moist, high-elevation forests, usually on slopes; northern mountains					
Siren lacertina	**Greater Siren**	**W3**		**S3**	**G5**
CS: lakes, ponds, and streams, especially where muddy or with weedy vegetation					

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Freshwater Fishes

Cyprinella labrosa	**Thicklip Chub**	**W5**		**S3**	**G4**
P: Yadkin, Catawba, and Broad drainages					
Cyprinella spiloptera	**Spotfin Shiner**	**W5**		**S2**	**G5**
M: primarily New and French Broad drainages					
Cyprinella zanema	**Santee Chub**	**W5**		**S3**	**G4**
P: Catawba and Broad drainages					
Elassoma evergladei	**Everglades Pygmy Sunfish**	**W3**		**S3**	**G5**
C: southern Coastal Plain, mainly Waccamaw drainage					
Etheostoma gutselli	**Tuckasegee Darter**	**W2**		**S3**	**G4**
M: Little Tennessee and Pigeon drainages					
Etheostoma rufilineatum	**Redline Darter**	**W5**		**S3**	**G5**
M: French Broad, Little Tennessee, and Hiwassee drainages					
Etheostoma vitreum	**Glassy Darter**	**W5**		**S3**	**G4G5**
PC: Chowan, Roanoke, Tar, and Neuse drainages					
Fundulus confluentus	**Marsh Killifish**	**W2**		**S3**	**G5**
T: fresh to brackish waters along coast					
Fundulus luciae	**Spotfin Killifish**	**W2**		**S3**	**G4**
TC: ponds and pools along coast					
Lepomis punctatus	**Spotted Sunfish**	**W2**		**S3**	**G5**
C: most drainages in southern Coastal Plain					
Lythrurus matutinus	**Pinewoods Shiner**	**W2**	**FSC**	**S3**	**G3**
CP: Tar and Neuse drainages (endemic to North Carolina)					
Moxostoma carinatum	**River Redhorse**	**W2**		**S2**	**G4**
M: French Broad, Little Tennessee, and Hiwassee drainages					
Nocomis platyrhynchus	**Bigmouth Chub**	**W2**		**S2**	**G4Q**
M: New drainage					
Notropis chalybaeus	**Ironcolor Shiner**	**W5**		**S3**	**G4**
C: coastal plain rivers and creeks					
Notropis maculatus	**Taillight Shiner**	**W2**		**S2**	**G5**
C: southern Coastal Plain drainages					
Notropis photogenis	**Silver Shiner**	**W5**		**S3**	**G5**
M: mountain drainages (except Pigeon)					

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Notropis rubricroceus	**Saffron Shiner**	**W5**		**S3**	**G4G5**
M: most mountain drainages, but mainly French Broad and Toe					
Notropis scabriceps	**New River Shiner**	**W2**		**S2**	**G4**
M: New drainage					
Percina aurantiaca	**Tangerine Darter**	**W2**		**S3**	**G4**
M: Tennessee drainages					
Percina gymnocephala	**Appalachia Darter**	**W2**		**S3**	**G4**
M: New drainage					
Phenacobius crassilabrum	**Fatlips Minnow**	**W2**		**S3**	**G3G4**
M: Little Tennessee, French Broad, and Toe drainages					

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Mollusks: Freshwater Bivalves

Elliptio cistellaeformis	**Box Spike**	**W3,W5**	**SU**	**G4**
C: Neuse, Lumber, Pee Dee drainages; Lake Waccamaw				
Elliptio congaraea	**Carolina Slabshell**	**W2,W5**	**S3**	**G3**
C: drainages north to the White Oak drainage				
Elliptio producta	**Atlantic Spike**	**W3,W5**	**SU**	**G3Q**
C: Lake Waccamaw, and perhaps elsewhere; very difficult to identify				
Elliptio raveneli	**Carolina Spike**	**W3,W5**	**SU**	**G3G4Q**
PC: most rivers in southern part of state; taxonomic problems				
Elliptio sp. 2	**File Spike**	**W3**	**SU**	**GUQ**
C: lakes and rivers in the southeastern part of state (endemic to North Carolina)				
Lampsilis sp. 3	**a bivalve (Deep River system)**	**W3**	**S1?**	**GU**
P: Deep River drainage (endemic to North Carolina)				
Sphaerium simile	**Grooved Fingernailclam**	**W3**	**SU**	**G5**
C: White Oak River				

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Mollusks: Freshwater and Terrestrial Gastropods

Anguispira mordax	**Appalachian Tigersnail**	**W3**		**S3S4**	**G4**
Carychium exiguum	**Obese Thorn**	**W3**		**S3**	**G5**
C:mesic forests (Brunswick*, Duplin*, Franklin*, Gates*, Johnston*)					
Fumonelix wheatleyi	**Cinnamon Covert**	**W3**		**S2S3**	**G4**
M: forests above 2000'					
Gastrocopta armifera	**Armed Snaggletooth**	**W3**		**S2S3**	**G5**
M: calciphilic; sunny habitats including cedar glades and along railroads					
Gastrocopta procera	**Wing Snaggletooth**	**W3**		**S3**	**G5**
C: calciphilic; dry ground with sparse vegetation (Hubricht, 1985) (New Hanover*)					
Gyraulus deflectus	**Flexed Gyro**	**W3**		**S2?**	**G5**
C: eastern Coastal Plain					
Helicodiscus inermis	**Oldfield Coil**	**W3**		**SU**	**G4**
M: open, grassy areas					
Leptoxis virgata	**Smooth Mudalia**	**W4**	**FSC**	**SNA**	**G2**
M?: reported from Hiwassee River, possibly in error					
Lioplax subcarinata	**Ridged Lioplax**	**W3**		**S3**	**G4G5**
C: Lake Waccamaw					
Neohelix dentifera	**Big-tooth Whitelip**	**W3**		**S3S4**	**G5**
M: wooded mountainsides; often where acidic (Hubricht, 1985) (Avery*, Watauga*)					
Oxyloma effusum	**Coastal-plain Ambersnail**	**W3**		**S3**	**G3**
C: wetlands with Sagittaria (Hubricht, 1985) (Gates*, New Hanover*)					
Promenetus exacuous	**Sharp Sprite**	**W3**		**S2?**	**G5**
C: mainly Chowan and Pasquotank basins					
Stenotrema pilula	**Pygmy Slitmouth**	**W3**		**S3?**	**G3G4**
no locality data					
Triodopsis burchi	**Pittsylvania Threetooth**	**W3**		**SU**	**G3**
P: forested habitats in the central and western Piedmont					
Vertigo bollesiana	**Delicate Vertigo**	**W3**		**SU**	**G4**
M: wooded hillsides and marshes					

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Vertigo gouldi	**Variable Vertigo**	**W3**		**S1S3**	**G5**
M: upland woods					
Vertigo oscariana	**Capital Vertigo**	**W3**		**S2S3**	**G4**
MC: ravines and talus slopes in the mountains; mixed woods in the Coastal Plain					
Vertigo teskeyae	**Swamp Vertigo**	**W3**		**S3**	**G5**
C: margins of swamps and ponds					
Xolotrema caroliniense	**Blunt Wedge**	**W3**		**S3?**	**G4**
C: wooded floodplains and slopes (Hubricht, 1985) (Anson*, Union*)					
Xolotrema denotatum	**Velvet Wedge**	**W3**		**S3?**	**G5**
M: wooded hillsides,sometimes floodplains (Hubricht, 1985) (Cherokee*, Graham*, Madison*, Mitchell*, Watauga*)					

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Arachnids

Fumontana deprehendor	**a harvestman**	**W3**	**FSC**	**SU**	**G1G2**
M: rich cove forests					
Nesticus bishopi	**a nesticid spider**	**W3**		**S3?**	**G3?**
M: on ground in forests (endemic to North Carolina)					
Nesticus nasicus	**a nesticid spider**	**W3**		**S3?**	**G3?**
M: boulderfields and cove forests (apparently endemic to Jackson County, NC)					
Nesticus reclusus	**a nesticid spider**	**W3**		**S3?**	**G3?**
M: on ground in forests (apparently in Buncombe, McDowell, and Swain counties, NC, and in Tennessee)					
Vaejovis carolinianus	**Carolina Scorpion**	**W2,W3**		**S2?**	**G5**
MP: under shelter of rocks, leaves, and buildings, along southern border of state					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Crustaceans

Ascetocythere cosmeta	**Grayson Crayfish Ostracod**	**W3**	**FSC**	**S2?**	**GNR**
M: symbiotic on crayfish in sub-surface waters of burrows					
Cambarus carolinus	**Red Burrowing Crayfish**	**W3**		**S2**	**G4**
M: Little Tennessee and Hiwassee drainages					
Cambarus chasmodactylus	**New River Crayfish**	**W5**		**S3**	**G4**
M: rivers and large streams in New River drainage					
Cambarus hiwasseensis	**Hiwassee Crayfish**	**W2**		**S3S4**	**G3G4**
M: streams in Hiwassee drainage					
Cambarus sp. A	**a crayfish from western NC**	**W3**		**S2S3**	**G2G3**
M: streams in Hiwassee, New, and probably other montane drainages					
Canthocamptus vagus	**Swamp Canthocamptus**	**W2,W3**		**S3?**	**GNR**
CP: in benthos of lakes and ponds within swampy environments					
Cymocythere clavata	**Oconee Crayfish Ostracod**	**W3**	**FSC**	**S2?**	**GNR**
M: symbiotic on crayfish in mountain streams and rivers					
Cytheridella ilosvayi	**Backwater Ostracod**	**W3**		**S2?**	**GNR**
C: quiet backwaters associated with large coastal rivers					
Dactylocythere chelomata	**Cherokee Crayfish Ostracod**	**W2,W3**		**S2?**	**GNR**
M: symbiotic on crayfish in streams and rivers in southwestern mountains					
Dactylocythere isabelae	**Catawba Crayfish Ostracod**	**W3**	**FSC**	**S1?**	**GNR**
P: symbiotic on crayfish in Lyle Creek in Catawba drainage (endemic to North Carolina)					
Dactylocythere peedeensis	**Pee Dee Crayfish Ostracod**	**W3**		**S2?**	**GNR**
P: symbiotic on crayfish in Pee Dee drainage (endemic to North Carolina, but likely occurs in South Carolina)					
Dactylocythere prinsi	**Whitewater Crayfish Ostracod**	**W3**	**FSC**	**S1**	**GNR**
M: cold streams of Savannah drainage in Jackson County (endemic to North Carolina, but possible in adjacent South Carolina and Georgia)					
Dactylocythere susanae	**Hiwassee Crayfish Ostracod**	**W2,W3**		**S2?**	**G2G4**
M: symbiotic on crayfish in Hiwassee and Nolichucky drainages					

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Region: Habitat Comments (Counties of Occurrence)					
Harpagocythere baileyi	**Highlands Crayfish Ostracod**	**W3**		**S2?**	**GNR**
M: symbiotic on crayfish in Little Tennessee and Savannah drainages (endemic to North Carolina, but likely occurs in SC and GA)					
Hesperodiaptomus augustaensis	**Augusta Hesperodiaptomus**	**W3**		**SH**	**GNR**
P: ephemeral ponds, such as floodplain pools; near Chapel Hill					
Lordocythere petersi	**Cumberland Crayfish Ostracod**	**W4**		**SNA**	**GNR**
M: symbiotic on crayfish in the Hiwassee drainage (record based on a sketch only)					
Miktoniscus alabamensis	**Small Alabama Sowbug**	**W3**		**S1?**	**GNR**
M: Linville Caverns					
Orconectes cristavarius	**Spiny Stream Crayfish**	**W3**		**S3**	**G5**
M: New River drainage					
Procambarus ancylus	**Coastal Plain Crayfish**	**W2**		**S3**	**G4G5**
C: ditches, streams, and lakes in southeastern corner of the state					
Procambarus blandingii	**Santee Crayfish**	**W3**		**S3S4**	**G4**
C: Lumber and Waccamaw drainages					
Procambarus medialis	**Pamlico Crayfish**	**W3**		**S3**	**G3**
C: sluggish streams and ditches in Tar and Neuse drainages (endemic to North Carolina)					
Procambarus pearsei	**Carolina Sandhills Crayfish**	**W2**		**S3S4**	**G4**
C: still-water habitats and burrows in Cape Fear, Waccamaw, and Lumber/Pee Dee drainages					
Stygobromus sp. 4	**Plott Balsam Sideswimmer**	**W3**		**S1?**	**GNR**
M: seep below Jones Knob (endemic to North Carolina)					
Waltoncythere acuta	**Transylvania Crayfish Ostracod**	**W3**	**FSC**	**S2?**	**GNR**
M: symbiotic on crayfish in high gradient rivers and streams in Transylvania County (endemic to North Carolina, but likely occurs in SC)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Mayflies

Anthopotamus myops	**a mayfly**	**W3**		**S3**	**G5**
M: First Broad River (Cleveland)					
Brachycercus maculatus	**a mayfly**	**W3**		**S2S3**	**G5**
C: streams in the Coastal Plain					
Drunella longicornis	**a spiny crawler mayfly**	**W3**		**S3**	**G5**
M: southern mountains, most numerous in Transylvania County					
Ephemerella argo	**Argo Ephemerellan Mayfly**	**W3**		**S3**	**G4**
SC: Lower Little River (Hoke), Naked Creek (Richmond), Drowning Creek (Richmond), Lumber River (Robeson, Scotland); needs more sampling in the spring					
Eurylophella enoensis	**a mayfly**	**W5**		**S3**	**G4**
CMP: wide-ranging but infrequently collected					
Eurylophella minimella	**a mayfly**	**W2**		**S3**	**G4**
CMP: a widespread species, but rare in North Carolina					
Heterocloeon davidi	**a mayfly**	**W3**		**S2**	**G2**
M: French Broad, Hiwassee, and Little Tennessee basins					
Isonychia arida	**a mayfly**	**W3**		**S3**	**G5**
C: Cape Fear River (Harnett), Tar River (Edgecombe)					
Isonychia sayi	**a mayfly**	**W3**		**S2**	**G4**
C: Fishing Creek (Edgecombe)					
Leptophlebia bradleyi	**a mayfly**	**W5**		**S2**	**G5**
no locality data					
Maccaffertium sp. 1	**a mayfly**	**W2**		**S1**	**GNR**
M: upper Wilson Creek and lower Linville River (Caldwell, Burke)					
Nixe spinosa	**a mayfly**	**W3**		**S3**	**G5**
MP: mainly French Broad and Little Tennessee drainages; Deep Creek (Person)					
Paracloeodes fleeki	**a mayfly**	**W3**		**S3**	**G2G4**
P: southern Piedmont streams					
Pseudocentroptiloides usa	**a mayfly**	**W3**		**S2**	**G4**
PSC: large Piedmont and Coastal Plain rivers, including Lumber River					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Serratella spiculosa	**Spiculose Serratellan Mayfly**	**W2**		**S3**	**G2Q**
M: many drainages (records not yet entered)					
Siphloplecton speciosum	**a mayfly**	**W5**		**S2**	**G4**
SC: Lumber River (Hoke, Scotland)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Stoneflies

Acroneuria evoluta	**Constricted Stone**	**W5**		**S2**	**G5**
P: central slate belt streams (Chatham, Montgomery, Moore, Randolph, Stanly)					
Agnetina capitata	**Northern Stone**	**W5**		**S3**	**G5**
M: upper Tuckasegee River (Jackson)					
Alloperla neglecta	**Tennessee Sallfly**	**W2**		**S2**	**G3**
M: Swain and Haywood counties					
Beloneuria georgiana	**Georgia Stone**	**W3**		**S1S3**	**G2**
M: high elevation rheocrenes [spring brooks]					
Haploperla parkeri	**Parker Sallfly**	**W3**		**SU**	**G1**
M: Right Fork Cove Creek (Haywood), Shot Pouch Creek (Macon) (endemic to North Carolina)					
Helopicus bogaloosa	**Masked Springfly**	**W3**		**S3**	**G3**
PC: known from eleven streams and rivers in Piedmont, Sandhills, and Inner Coastal Plain					
Isogenoides varians	**Rock Island Springfly**	**W2**		**S2**	**G3G4**
P: Yadkin River (Davie)					
Isoperla burksi	**Banded Stripetail**	**W3**		**S2**	**G4**
P: slate belt streams (Chatham, Durham, Orange)					
Isoperla frisoni	**Wisconsin Stripetail**	**W3**		**S3**	**G5**
MP: known from six streams and rivers in the mountains, from the New River (Ashe) to Whiteoak Creek (Macon); also found in the Dan River					
Isoperla lata	**Dark Stripetail**	**W3**		**S3**	**G5**
M: recent state records from Fires Creek (Clay) and Big Creek (Haywood)					
Perlesta bjostadi	**a perlid stonefly**	**W3**		**SU**	**G1**
SC: Little River near Lillington (Harnett), Lumber River (Hoke, Scotland) (endemic to North Carolina)					
Perlesta leathermani	**a perlid stonefly**	**W3**		**SU**	**G1**
SC: Little River (Hoke, Moore), Lumber River (Hoke, Scotland), Jordan Creek (Scotland) (endemic to North Carolina)					
Perlesta puttmanni	**a stonefly**	**W3**		**S2?**	**G3G4**
CS: Raft Swamp (Robeson), Little River (Cumberland, Harnett)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Perlesta roblei	**a stonefly**	**W3**		**S2**	**G3**
C: Swift Creek (Edgecombe)					
Prostoia hallasi	**Swamp Forestfly**	**W3**		**SU**	**G3**
C: recent state record from Great Dismal Swamp (Gates)					
Shipsa rotunda	**Intrepid Forestfly**	**W3**		**S2S3**	**G5**
CPM: known from twelve streams in mountains, Piedmont, and Coastal Plain					
Sweltsa holstonensis	**Holston Sallfly**	**W3**		**SU**	**G1**
M: Middle Fork Reddies River (Wilkes)					
Tallaperla elisa	**Highlands Roachfly**	**W3**		**SU**	**G3**
M: Great Smoky Mountains National Park (Swain)					
Viehoperla ada	**Pallid Roachfly**	**W3**		**S2**	**G3**
M: Panthertown Valley seeps (Jackson)					
Yugus arinus	**Highlands Springfly**	**W3**		**S3**	**G3**
M: French Broad, Hiwassee, and Little Tennessee basins					

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Region: Habitat Comments (Counties of Occurrence)					

Insects: Caddisflies

Agapetus hessi	**a glossosomatid caddisfly**	**W5**		**S2**	**G4G5**
P: Swift Creek (Nash)					
Agapetus jocassee	**a saddlecase caddisfly**	**W3**		**SU**	**G2G3**
M: small streams (Burke, Cherokee, Graham)					
Agapetus minutus	**a saddlecase caddisfly**	**W3**		**S3**	**G4G5**
M: Big Creek tributary (Haywood)					
Agapetus pinatus	**a caddisfly**	**W3**		**S3**	**G5**
M: mountain streams (Cherokee, Graham, Haywood, Transylvania)					
Agapetus tomus	**a saddlecase caddisfly**	**W3**		**SU**	**G5**
M: mountain streams (Cherokee)					
Agraylea fraterna	**a caddisfly**	**W3**		**S3**	**G5**
MP: Wilson Creek (Caldwell)					
Ceraclea cama	**a longhorned caddisfly**	**W3**		**SU**	**G1G2**
C: Lake Waccamaw vicinity (endemic to this area)					
Ceraclea diluta	**a caddisfly**	**W3**		**S2**	**G5**
C: several Coastal Plain rivers					
Ceraclea mentiea	**a longhorned caddisfly**	**W3**		**SU**	**G5**
MP: Big Horse Creek (Ashe), North and South Forks of New River (Ashe, Alleghany), Mayo River (Rockingham)					
Ceraclea punctata	**a ceraclean caddisfly**	**W3**		**S3**	**G5**
C: several Coastal Plain rivers					
Ceraclea sp. 2 nr. excisa	**a caddisfly**	**W2**		**S3**	**GNR**
C: many Coastal Plain localities					
Ceraclea tarsipunctata	**a caddisfly**	**W3**		**S3**	**G5**
P: Cane Creek, Yadkin River, Long Creek					
Ceratopsyche ventura	**a caddisfly**	**W5**		**S3**	**G5**
M: northern and western mountain streams					
Cernotina calcea	**a caddisfly**	**W3**		**S3**	**G5**
C: Lake Waccamaw					
Cheumatopsyche geora	**a caddisfly**	**W3**		**S3**	**G5**
P: Hunting Creek (Wilkes)					
Cheumatopsyche halima	**a caddisfly**	**W3**		**S3**	**G5**
M: Deep Creek (Swain)					

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Region: Habitat Comments (Counties of Occurrence)					
Cheumatopsyche harwoodi enigma	**a caddisfly**	**W3**		**S3**	**G5T4T5**
M: streams in Great Smoky Mountains National Park (Haywood, Swain)					
Cheumatopsyche helma	**Helma's Net-spinning Caddisfly**	**W3**		**S3**	**G3**
PM: Henrys Fork (Burke), Cataloochee Creek (Haywood)					
Cheumatopsyche parentum	**a caddisfly**	**W3**		**S3**	**G3**
P: Uwharrie River (Montgomery)					
Cheumatopsyche richardsoni	**a caddisfly**	**W3**		**S3**	**G1G2**
S: Little River (Hoke, Moore)					
Chimarra florida	**Floridian Finger-net Caddisfly**	**W3**		**S3**	**G4**
S: several sandhills streams					
Frenesia difficilis	**a caddisfly**	**W3**		**S3**	**G5**
M: seeps (Haywood, Surry, Swain)					
Goera stylata	**a caddisfly**	**W3**		**S3**	**G5**
M: Commissioners Creek (Macon)					
Goerita betteni	**a caddisfly**	**W3**		**S3**	**G4**
M: cold spring runs in mountainous areas					
Goerita semata	**a caddisfly**	**W3**		**S3**	**G3**
M: cold spring runs in mountainous areas					
Helicopsyche paralimnella	**a snailcase caddisfly**	**W5**		**SU**	**G2**
M: Fires Creek (?), Bearwallow Creek (Transylvania) (confined to southwestern mountains in NC)					
Homoplectra flinti	**a caddisfly**	**W3**		**S2**	**G2**
M: streams in Haywood and Macon counties					
Hydropsyche bassi	**a netspinning caddisfly**	**W3**		**SU**	**G2**
S: Little River (Hoke, Moore)					
Hydropsyche fattigi	**a caddisfly**	**W3**		**S3**	**G5**
C: Cape Fear River (Harnett)					
Hydropsyche opthalmica	**a caddisfly**	**W3**		**S3**	**G3**
no locality data					
Hydroptila armata	**a caddisfly**	**W3**		**S2**	**G5**
P: Uwharrie River (Montgomery)					
Hydroptila coweetensis	**a micro caddisfly**	**SR**		**SU**	**G1G2**
M: Coweeta Creek (Macon)					

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Region: Habitat Comments (Counties of Occurrence)					
Hydroptila englishi	**a caddisfly**	**W4**		**S2**	**G2**
reported from NC, but without occurrence data					
Hydroptila lloganae	**Llogan's Vari-colored Microcaddisfly**	**W3**		**SU**	**G3**
S: Lumber River (Hoke, Scotland)					
Hydroptila maculata	**a caddisfly**	**W3**		**S3**	**G3G4**
C: Lake Waccamaw					
Mayatrichia ayama	**a caddisfly**	**W5**		**S2**	**G5**
MPS: mostly in mountain streams; Dan River (Stokes), Lumber River (Scotland)					
Micrasema burksi	**a caddisfly**	**W2**		**S3**	**G4G5**
M: known from eleven streams in the mountains, from Avery County to Clay County					
Micrasema sprulesi	**a caddisfly**	**W2**		**S3**	**G5**
MP: known from eight streams and rivers, primarily in the mountains but also in the Mayo River					
Molanna uniophila	**a caddisfly**	**W3**		**S3**	**G5**
C: found in larger rivers and lakes from Chowan River (Hertford) to Drowning Creek (Richmond) and Lake Waccamaw (Columbus)					
Neureclipsis melco	**a caddisfly**	**W3**		**S3**	**G4**
C: Shoe Heel Creek (Robeson)					
Ochrotrichia confusa	**a caddisfly**	**W3**		**S3**	**G5**
M: Blue Ridge Parkway seeps (Watauga)					
Oecetis porteri	**Porter's Long-horn Sedge**	**W5**		**S2**	**G3G4**
C: White Lake and Lake Waccamaw					
Oecetis sp. B	**a caddisfly**	**W5**		**S1**	**G1**
C: Lake Mattamuskeet and Perquimans River					
Oecetis sp. E	**a caddisfly**	**W5**		**S2**	**G2**
SC: bay lakes and swamp streams					
Oxyethira glasa	**a caddisfly**	**W1**		**S3**	**G5**
C: Lake Waccamaw					
Oxyethira lumosa	**a caddisfly**	**W3**		**S3**	**G4**
S: Little River (Hoke, Moore)					
Oxyethira verna	**an oxyethiran microcaddisfly**	**W3**		**S3**	**G5**
C: Lake Waccamaw					

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Region: Habitat Comments (Counties of Occurrence)					
Phylocentropus auriceps	**a caddisfly**	**W3**		**S3**	**G3G4**
M: Black Mountains					
Protoptila georgiana	**a caddisfly**	**W3**		**S2**	**G3G4**
P: Uwharrie River (Montgomery), Cape Fear River (Harnett)					
Pseudogoera singularis	**a caddisfly**	**W5**		**S2**	**G2G3**
M: Coweeta Creek and seep near upper Wilson Creek (Caldwell)					
Pseudostenophylax sparsus uniformis	**a caddisfly**	**W5**		**S3**	**G5T5**
M: high elevation seeps along the Blue Ridge Parkway (Buncombe, Haywood, Jackson)					
Psilotreta amera	**a caddisfly**	**W5**		**S2**	**G3G4**
M: mountain streams (Haywood, Macon, Swain)					
Psilotreta rossi	**a caddisfly**	**W5**		**S2**	**G3**
M: seeps and springs (Macon, Transylvania)					
Psilotreta rufa	**a caddisfly**	**W2**		**S3**	**G5**
M: mountain streams (Macon, Transylvania)					
Rhyacophila amicis	**a free living caddisfly**	**W5**		**S3**	**G2**
M: Cullasaja River (Macon), Nantahala River (Macon, Clay), Whiterock Creek (Jackson), Spainhour Creek (Caldwell), North Toe River, Deep Creek, Oconoluftee River (Swain)					
Rhyacophila montana	**a free living caddisfly**	**W5**		**SU**	**G2G3**
M: high elevation seeps (Jackson, Swain)					
Rhyacophila mycta	**a free living caddisfly**	**W5**		**S2S3**	**G3**
M: only confirmed from Sweeten Creek (Buncombe)					
Rhyacophila vibox	**a rhyacophilan caddisfly**	**W2**		**S3**	**G5**
M: Whiteoak Creek (Macon), Mitchell River (Surry)					
Setodes arenatus	**a caddisfly**	**W5**		**S2**	**G2G3**
C: Lumber River					
Setodes stehri	**a caddisfly**	**W5**		**S3**	**G4**
M: unknown locality					
Stactobiella delira	**a caddisfly**	**W3**		**S3**	**G5**
no locality data					
Stactobiella martynovi	**a caddisfly**	**W3**		**S3**	**G4**
no locality data					

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Region: Habitat Comments (Counties of Occurrence)					
Triaenodes helo	**Marsh Triaenode Caddisfly**	**W3**		**S3**	**G3**
S: Little River (Hoke, Moore)					
Triaenodes marginatus	**a longhorned caddisfly**	**W3**		**S3**	**G5**
PSC: Stewart Creek (Mecklenburg), Long Creek (Gaston), Whiteoak Creek (Polk); Lumber River (Robeson), UT Hitchcock Creek (Richmond), Mill Creek (Moore)					
Triaenodes melacus	**a caddisfly**	**W3**		**S3**	**G5**
P: small Piedmont streams (Alamance, Caswell, Wake)					
Triaenodes sp. C	**a caddisfly**	**W5**		**S1**	**G1G2**
S: bays in Scotland County					
Wormaldia thyria	**a caddisfly**	**W3**		**S3**	**G3**
M: high elevation streams (Mount Mitchell)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Dragonflies and Damselflies

Arigomphus villosipes	**Unicorn Clubtail**	**W3**		**S3**	**G5**
MPC: ponds, lakes, slow-flowing streams (Ashe, Avery, Bertie, Bladen, Buncombe, Chowan, Clay, Gates, Halifax, Haywood, Henderson, Perquimans, Rockingham, Rutherford, Transylvania, Warren, Washington)					
Cordulegaster erronea	**Tiger Spiketail**	**W2**		**S3**	**G4**
MP: small forested streams (Ashe, Avery, Buncombe, Burke, Camden, Caswell, Durham, Haywood, Macon, Orange, Rockingham, Rutherford, Surry, Swain, Transylvania, Wake, Watauga, Wilkes, Yadkin)					
Dromogomphus armatus	**Southeastern Spinyleg**	**W3**		**S3**	**G4**
SC: pools in slow-flowing rivers (Columbus, Cumberland, Hoke, Moore, Richmond, Robeson, Scotland)					
Dromogomphus spoliatus	**Flag-tailed Spinyleg**	**W4**		**SNA**	**G4G5**
reported from NC, but no conclusive records					
Enallagma sulcatum	**Golden Bluet**	**W4**		**SNA**	**G4**
C: sand-bottomed lakes, with some shoreline vegetation (Columbus+)					
Erpetogomphus designatus	**Eastern Ringtail**	**W3**		**S3**	**G5**
PC: streams and rivers (Alamance, Anson, Bladen, Buncombe, Cabarrus, Chatham, Cumberland, Davidson, Durham, Harnett, Madison, Montgomery, Orange, Richmond, Stanly, Surry, Union, Wake)					
Gomphus apomyius	**Banner Clubtail**	**W3**		**S3?**	**G3G4**
PC: spring-fed streams (Bladen, Cabarrus, Catawba, Chatham, Columbus, Cumberland, Gaston, Greene, Harnett, Lenoir, Moore, Richmond, Robeson, Sampson, Wake, Wayne, Wilson)					
Gomphus dilatatus	**Blackwater Clubtail**	**W3**		**S3?**	**G5**
PC: rivers (Bertie, Caswell, Chatham, Columbus, Cumberland, Durham, Edgecombe, Harnett, Johnston, Lenoir, Martin, Mecklenburg, Montgomery, Pender, Pitt, Robeson, Wilson, Yadkin)					
Gomphus diminutus	**Diminutive Clubtail**	**W2**		**S3S4**	**G3**
S: sand-bottomed streams (Avery, Bladen, Cumberland, Harnett, Hoke, Madison, Montgomery, Moore, Richmond, Scotland)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Gomphus hybridus	**Cocoa Clubtail**	**W3**		**S3**	**G4**
CSP: large or medium rivers with silty or sandy bottoms (Bladen, Cumberland, Davidson, Halifax, Johnston, Lenoir, Montgomery, Northampton, Pender, Scotland)					
Gomphus parvidens	**Piedmont Clubtail**	**W2**		**S3?**	**G4**
PSCM: small woodland streams with sandy bottoms (Bladen, Buncombe, Burke, Caldwell, Cleveland, Davie, Forsyth, Hoke, Macon, Madison, Montgomery, Moore, Richmond, Rutherford, Scotland, Surry, Swain, Transylvania, Wake, Wilkes)					
Gomphus rogersi	**Sable Clubtail**	**W2**		**S2S3**	**G4**
M: small spring-fed streams (Ashe, Buncombe, Macon, Madison, Polk, Swain, Watauga)					
Lanthus parvulus	**Northern Pygmy Clubtail**	**W4**		**SNA**	**G4**
M: reported from Avery County, but no conclusive records					
Lestes eurinus	**Amber-winged Spreadwing**	**W2**		**S3**	**G4**
MP: lakes and ponds with emergent vegetation (Alleghany, Ashe, Buncombe, Burke, Caldwell, Durham, Graham, Guilford, Henderson, Jackson, Macon, Madison, Mecklenburg, Orange, Rockingham, Watauga)					
Lestes forcipatus	**Sweetflag Spreadwing**	**W3**		**S2S3**	**G5**
P: vegetated ponds (Ashe, Durham, Forsyth, Granville, Guilford, Orange, Person, Wilson)					
Libellula quadrimaculata	**Four-spotted Skimmer**	**W4**		**SNA**	**G5**
reported from NC, but no conclusive records					
Macrodiplax balteata	**Marl Pennant**	**W3**		**S2S3**	**G5**
TC: ponds and lakes near the coast, usually brackish or near marl (Brunswick, Carteret, Dare, Hyde, New Hanover, Pamlico)					
Nannothemis bella	**Elfin Skimmer**	**W3**		**S3S4**	**G4**
S: boggy swales (Anson, Bladen, Cumberland, Harnett, Hoke, Montgomery, Moore, Richmond, Scotland)					
Neurocordulia alabamensis	**Alabama Shadowdragon**	**W3**		**S3?**	**G5**
CS: small creeks in forested regions, often where sandy and with low flow (Bladen, Brunswick, Cumberland, Duplin, Harnett, Hoke, Johnston, Jones, Lee, Montgomery, Moore, Pender, Richmond, Robeson, Sampson, Scotland)					
Neurocordulia molesta	**Smoky Shadowdragon**	**W3**		**S3?**	**G4**
C: rivers (Bladen, Cumberland, Edgecombe, Harnett, Lenoir, Moore, Richmond, Sampson, Wake, Wayne)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Neurocordulia virginiensis	**Cinnamon Shadowdragon**	**W3**		**S3?**	**G4**
P: large rivers (Chatham, Durham, Halifax, Harnett, Nash, Wake)					
Ophiogomphus incurvatus	**Appalachian Snaketail**	**W2**		**S3**	**G3**
PM: small to medium streams (Alexander, Buncombe, Burke, Cabarrus, Caldwell, Caswell, Catawba, Cleveland, Davidson, Forsyth, Gaston, Guilford, Iredell, Lincoln, McDowell, Mecklenburg, Richmond, Rockingham, Rutherford, Stokes, Union, Wilkes, Yadkin)					
Somatochlora provocans	**Treetop Emerald**	**W3**		**S3?**	**G4**
CS: small forested seeps and pools, perhaps very small streams (Beaufort, Bladen, Chowan, Cumberland, Edgecombe, Halifax, Harnett, Hoke, Johnston, Lee, Martin, Moore, Northampton, Pitt, Richmond, Sampson, Scotland, Wake, Washington, Wayne)					
Stylogomphus sigmastylus	**Interior Least Clubtail**	**W4**		**SNA**	**G5**
P: reported from Moore County, but no data available; far east of normal range					
Stylurus amnicola	**Riverine Clubtail**	**W3**		**S3**	**G4**
MPC: rivers (Anson, Bertie, Buncombe, Caswell, Cumberland, Davie, Edgecombe, Greene, Harnett, Johnston, Lincoln, Northampton, Pitt, Rockingham, Transylvania, Wake, Wayne, Yadkin)					
Stylurus notatus	**Elusive Clubtail**	**W4**	**FSC**	**SNA**	**G3**
reported from NC, but no conclusive records					
Sympetrum internum	**Cherry-faced Meadowhawk**	**W4**		**SNA**	**G5**
M: reported from Macon County, but details not known; outside normal range					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Flies

Eulonchus marialiciae	**Mary Alice's Small-headed Fly**	**W3**		**S3?**	**G1G3**
M: high elevation hardwood-hemlock forests (endemic to North Carolina) (Haywood, Jackson, Macon, Swain, Transylvania)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Butterflies

Amblyscirtes carolina	**Carolina Roadside-Skipper**	**W2**		**S3S4**	**G3G4**
CSP: moist woods (mainly hardwoods) near cane; host plant -- cane (Arundinaria) (Gaston*, Lincoln)					
Celastrina neglectamajor	**Appalachian Azure**	**W2**		**S3S4**	**G4**
M: rich deciduous forests; host plant -- black cohosh (Cimicifuga)					
Glaucopsyche lygdamus	**Silvery Blue**	**W2**		**S2S3**	**G5**
M: open upland woods, roadbanks, and borders; host plants -- legumes, especially Carolina vetch (Vicia caroliniana)					
Hesperia leonardus	**Leonard's Skipper**	**W2**		**S3**	**G4**
PM: wooded borders and openings, brushy fields; host plants -- grasses					
Hesperia metea	**Cobweb Skipper**	**W2**		**S3**	**G4G5**
PSM: dry barren sites, such as powerline clearings and pine/oak sandhills; host plants -- mainly broomsedge (Andropogon)					
Hesperia sassacus	**Indian Skipper**	**W2**		**S3**	**G5**
M: old fields, clearings, wood margins, mainly at high elevations; host plants -- grasses					
Megathymus yuccae	**Yucca Giant-Skipper**	**W2**		**S3S4**	**G5**
CSP: dunes, flatwoods, old fields, and other places near yuccas; host plants -- Yucca species					
Phyciodes incognitus	**Mimic Crescent**	**W3**		**S3?**	**G2G4Q**
M: high to medium elevation openings in woodlands, road banks; host plants -- asters					
Phyciodes phaon	**Phaon Crescent**	**W5**		**S3**	**G5**
T: open, often dry areas, mainly on barrier islands; host plants -- fogfruit (Lippia)					
Pyrgus albescens	**White Checkered-Skipper**	**W3**		**SU**	**G5**
T: dry, open habitats, often disturbed; host plants -- mallows (Sida)					
Satyrium kingi	**King's Hairstreak**	**W2**		**S3S4**	**G3G4**
SCPM: forests, often moist, usually near sweetleaf; host plant -- sweetleaf (Symplocos tinctoria)					
Speyeria diana	**Diana Fritillary**	**W2**	**FSC**	**S3S4**	**G3G4**
MP: montane and foothill forest edges and openings; host plants -- violets (Viola)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Thorybes confusis	**Confused Cloudywing**	**W3**		**S3S4**	**G4**
SCP: dry woodland borders and openings, brushy fields; host plants -- legumes					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Macro-moths

Abrostola ovalis	**a looper moth**	**W3**		**SU**	**G4**
M: high elevation forests with nettles					
Acrapex relicta	**a canebrake moth**	**W3**		**S3**	**G4**
C: canebrakes					
Acronicta lanceolaria	**Lanceolate Daggermoth**	**W3**		**S3?**	**G4**
C: flatwoods					
Afrida ydatodes	**an arctiid moth**	**W3**		**S1S3**	**G5**
C: maritime forest and scrub?					
Anicla (Euagrotis) sullivani	**Sullivan's Anicla**	**W3**		**SU**	**G3G4**
C: riparian habitats?					
Anicla lubricans	**Slippery Dart Moth**	**W3**		**S3?**	**G4G5**
SC: savannas and flatwoods					
Anicla simplicius	**a noctuid moth**	**W3**		**SU**	**G4**
S: unknown					
Apantesis carlotta	**Carlotta's Tiger Moth**	**W3**		**S2S3**	**G5**
M: unknown					
Apoda rectilinea	**a slug moth**	**W3**		**S1S3**	**GNR**
S: pine-oak sandhill woodlands					
Argillophora furcilla	**a cane moth**	**W3**		**S2S3**	**G3G4**
C: canebrakes					
Arugisa latiorella	**Watson's Arugisa**	**W3**		**S3?**	**G4**
PC: sedgy glades					
Bomolocha appalachiensis	**Appalachian Bomolocha**	**W3**		**S2S3**	**G3G4**
M: unknown					
Cabera quadrifasciaria	**Four-lined Cabera**	**W3**		**SU**	**GNR**
C: unknown					
Callosamia securifera	**Sweetbay Silkmoth**	**W3**		**SU**	**G4**
CS: pocosins and other wetlands with sweetbay (Bladen, Brunswick, Carteret, Columbus, Pender, Washington)					
Caripeta aretaria	**Southern Pine Looper**	**W3**		**S3S4**	**G4**
MPC: pine forests					
Catocala alabamae	**Alabama Underwing**	**W3**		**S2S3**	**G4**
SC: mesic sandhills (Bladen, Cumberland, Moore)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Catocala amestris	**Three-staff Underwing**	**W3**		**SU**	**G4**
C: sand ridges and flatwoods with leadplant					
Catocala blandula ssp. 1	**Southern Charming Underwing**	**W3**		**S1S3**	**G5T3**
C: riparian hawthorns					
Catocala illecta	**Magdalen Underwing**	**W3**		**SU**	**G5**
Catocala miranda	**Miranda Underwing**	**W3**		**SU**	**G3G4**
Catocala pretiosa texarkana	**Texarkana Underwing**	**W3**		**S2S3**	**G4T4**
MPC: unknown					
Catocala sappho	**Sappho Underwing**	**W3**		**SU**	**G4**
P: bottomland hardwoods with hickories					
Ceratonyx satanaria	**an inchworm moth**	**W3**		**S2S4**	**G4**
C: swamps and bottomlands					
Chortodes enervata	**an owlet moth**	**W3**		**SU**	**G4**
C: tidal marshes					
Chytonix sensilis	**an owlet moth**	**W3**		**S3?**	**G4**
C: sandhills and flatwoods					
Cisthene kentuckiensis	**Kentucky Lichen Moth**	**W3**		**SU**	**G4**
C: bottomlands?					
Dasychira atrivenosa	**a tussock moth**	**W3**		**S3?**	**G4**
C: hardwood forests					
Doryodes bistrialis	**Small Saltmarsh Doryodes**	**W3**		**SU**	**G4**
C: salt marshes					
Doryodes sp. 1	**Wiregrass Doryodes**	**W3**		**S3S4**	**G3G4**
CS: savannas, flatwoods, and sandhills (Brunswick, Carteret, Cumberland, Harnett, Hoke, Moore, New Hanover, Onslow, Pender)					
Dysgonia similis	**an owlet moth**	**W3**		**S2S3**	**G3G4**
C: pocosins and bay forests					
Eupithecia absinthiata	**a geometrid moth**	**W3**		**SU**	**GNR**
M: unknown					
Eupithecia mutata	**a geometrid moth**	**W5**		**SU**	**GNR**
M: spruce-fir forests and possibly stands of hemlock					
Euxoa violaris	**Violet Dart**	**W3**		**S1S2**	**G4**
T: beach dunes (records not yet entered)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Gabara distema humeralis	**an owlet moth**	**W3**		**S3?**	**G4T4**
C: savannas					
Gabara pulverosalis	**an owlet moth**	**W3**		**S3?**	**G4**
C: savannas					
Gondysia smithii	**Smith's Darkwing**	**W3**		**S3?**	**G4**
C: flatwoods					
Grammia doris	**Doris Tiger Moth**	**W3**		**S1S3**	**G4**
M: rich cove forests?					
Heliomata infulata	**Rare Spring Moth**	**W3**		**S2S3**	**G3G4**
MPC: unknown (Cumberland, Haywood+, Hoke, Moore, Stokes)					
Hydriomena divisaria	**Black-dashed Hydriomena**	**W3**		**S2S3**	**GNR**
Hyperstrotia aetheria	**a noctuid moth**	**W3**		**S3?**	**GNR**
S: pine-oak sandhill woodlands (Moore)					
Hypomecis longipectinaria	**a wave**	**W3**		**S3S4**	**G2G4**
C: hardwood stands					
Idaea eremiata	**a wave**	**W3**		**S3S4**	**G4**
C: sandhills					
Idaea micropterata	**a wave**	**W3**		**S3?**	**GNR**
C: unknown					
Idaea productata	**a wave**	**W3**		**SU**	**G4**
C: sandhills					
Idaea scintillularia	**a wave**	**W3**		**SU**	**GNR**
C: unknown					
Itame subcessaria	**Barred Itame**	**W3**		**S3S4**	**G4**
M: high elevation forests with gooseberries (Ribes) (Ashe, Avery, Swain, Watauga)					
Lepipolys perscripta	**an owlet moth**	**W3**		**SU**	**G4**
C: on toadflax					
Leucania incognita	**a noctuid moth**	**W3**		**S1S2**	**GNR**
C: savannas (Brunswick)					
Lithacodia sp. 1	**a bird-dropping moth**	**W3**		**S1S3**	**G1G3**
C: pocosins and other wetlands					
Lithacodia sp. 2	**a bird-dropping moth**	**W3**		**S1S3**	**G1G3**
C: unknown					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Lithophane adipel	**a pinion moth**	**W3**		**SU**	**G4T4**
C: unknown					
Lithophane joannis	**a noctuid moth**	**W3**		**SU**	**G4**
M: rich cove forests?					
Lithophane lemmeri	**Lemmer's Pinion**	**W3**		**S1S3**	**G3G4**
CP: cedar glades and Atlantic white cedar forests					
Lithophane oriunda		**SR**		**S1S3**	**G4**
Lithophane tepida	**a noctuid moth**	**W3**		**SU**	**GNR**
M: northern hardwood forests?					
Litoprosopus futilis	**Palmetto Borer**	**W3**		**SU**	**G4**
C: palmettos					
Macrochilo louisiana	**Louisiana Owlet Moth**	**W3**		**S3?**	**G4**
CSP: sedgy wetlands (Cumberland, Hoke)					
Macrochilo santerivalis	**an owlet moth**	**W3**		**SU**	**G3G4**
C: brackish marshes					
Metalepsis fishii	**an owlet moth**	**W3**		**SU**	**G4**
C: heath thickets					
Metanema determinata	**Dark Metanema**	**W3**		**SU**	**GNR**
M: northern hardwoods?					
Metarranthis lateritiaria	**an inchworm moth**	**W3**		**SU**	**G3G4**
CS: flatwoods and pocosins					
Metarranthis sp. 1	**a new inchworm moth**	**W3**		**S3S4**	**G3G4**
C: pocosins (Bladen, Cumberland)					
Nemoria bifilata	**an emerald moth**	**W3**		**S3?**	**G4**
C: sandhills					
Neoplynes eudora	**a wasp moth**	**W3**		**S2S3**	**G5**
C: unknown					
Notodontidae genus 1 species 1	**a new prominent moth**	**W3**		**S2S3**	**G3G4**
C: bottomland hardwoods (Brunswick, Cumberland, Hoke, Moore, Pender, Randolph)					
Oligia chlorostigma	**a brocade moth**	**W3**		**SU**	**G4**
C: unknown					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Orgyia detrita	**a tussock moth**	**W3**		**S2S3**	**G3G4**
CS: hardwood forests (Beaufort, Carteret, Hoke, Onslow, Washington)					
Pangrapta sp. 1	**a noctuid moth**	**W3**		**S1S3**	**GU**
CS: pocosins? (Bladen, Carteret, Columbus, Hoke)					
Papaipema araliae	**Aralia Shoot Borer Moth**	**W3**		**S2S4**	**G3G4**
C: forests and woodlands (New Hanover+, Washington)					
Papaipema duplicata	**Dark Stoneroot Borer Moth**	**W3**		**SH**	**G2G4**
M: rich woods with Collinsonia canadensis (records not yet entered)					
Papaipema lysimachiae	**Loosestrife Borer Moth**	**W3**		**SU**	**G4**
M: on loosestrife					
Papaipema polymniae	**Polymnia Borer Moth**	**W3**		**SU**	**G4**
M: rich cove forests?					
Papaipema sp. 3	**Southeastern Cane Borer Moth**	**W3**		**S3S4**	**G4**
C: canebrakes					
Parahypenodes quadralis	**an owlet moth**	**W3**		**S1S2**	**G4**
C: unknown					
Pimaphera percata	**an inchworm moth**	**W3**		**S1S2**	**GNR**
C: unknown					
Ponometia parvula	**a bird-dropping moth**	**W3**		**S2S3**	**GNR**
C: cypress swamps?					
Ponometia tortricina	**a bird-dropping moth**	**W3**		**SU**	**GNR**
M: unknown					
Properigea tapeta	**an owlet moth**	**W3**		**SU**	**GNR**
C: bottomlands?					
Schinia obscurata	**Obscure Schinia**	**W3**		**S2S3**	**G4**
C: sandhills					
Schinia scissoides	**a flower moth**	**W3**		**S2S3**	**GNR**
C: open areas					
Schinia siren	**a flower moth**	**W3**		**SU**	**GNR**
C: open maritime forests					
Schinia sordida	**a flower moth**	**W3**		**S2S3**	**G4?**
C: savannas					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Scopula aemulata	**a wave**	**W3**		**SU**	**GNR**
MC: on Trillium					
Scopula cacuminaria	**Frosted Tan Wave**	**W3**		**S2S3**	**G4**
C: sandhills					
Scopula ordinata	**a wave**	**W3**		**SU**	**GU**
CM: mesic hardwoods					
Semiothisa punctolineata	**an angle**	**W3**		**SU**	**GNR**
C: unknown					
Sphingicampa bicolor	**Honey Locust Moth**	**W3**		**S3?**	**G5**
C?: on honey locust (Chatham, Durham*, Lee)					
Sphinx franckii	**Franck's Sphinx**	**W3**		**SU**	**G4**
PM: basic-mesic hardwoods and other habitats with Fraxinus (Orange)					
Spilosoma dubia	**Dubious Tiger Moth**	**W3**		**S3?**	**G4**
C: acidic wetlands					
Stiria rugifrons	**an owlet moth**	**W3**		**SU**	**G4**
C?: sandhills					
Tacparia detersata	**a geometrid moth**	**W3**		**SU**	**GNR**
M: northern hardwoods					
Tornos abjectarius	**a gray**	**W3**		**S2S3**	**GNR**
C: unknown					
Tripudia flavofasciata	**an owlet moth**	**W3**		**SU**	**GNR**
C: bottomlands					
Ulolonche modesta	**Modest Quaker Moth**	**W3**		**SU**	**G5**
C: unknown					
Xestia n. sp. nr. youngii	**Young's Xestia**	**W3**		**S3S4**	**G5**
C: peatlands					
Zale fictilis	**a zale**	**W3**		**SU**	**G5**
C: unknown					
Zale sp. 2 nr. squamularis	**a new zale**	**W3**		**SU**	**G4Q**
C: unknown					
Zale sp. 3 nr. buchholzi	**an owlet moth**	**W3**		**S2S3**	**G3G4**
C: pine forests					
Zanclognatha atrilineella	**an owlet moth**	**W3**		**S1S3**	**GU**
C: unknown					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Zanclognatha dentata	**an owlet moth**	**W3**		**SU**	**G3G4**
M: dry pitch pine stands					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Grasshoppers and Katydids

Amblycorypha arenicola	**Sandhill Virtuoso Katydid**	**W3**		**S2S3**	**GNR**
S: sandhill habitats					
Amblycorypha bartrami	**Bartram's Round-winged Katydid**	**W3**		**S2S3**	**GNR**
S: sandhill habitats					
Atlanticus gibbosus	**Gibbous Shield-back Katydid**	**W3**		**SU**	**GNR**
C: oak and pine forests					
Belocephalus subapterus	**Half-winged Cone Head Katydid**	**W3**		**SU**	**GNR**
C: flatwoods and other shrubby areas					
Dendrotettix australis	**Southern Dendrotettix**	**W3**		**SU**	**GU**
M: forests					
Hesperotettix viridis brevipennis	**Green-striped Grasshopper**	**W3**		**SU**	**G5T5**
C: grasslands, forest edges					
Hubbellia marginifera	**Hubbell's Shield-back Katydid**	**W3**		**SU**	**GNR**
C: pinewoods					
Inscudderia walkeri	**Walker's Cypress Katydid**	**W3**		**SU**	**GNR**
C: cypress swamps and savannas (Brunswick, Gates)					
Melanoplus acrophilus	**a Spur-throat Grasshopper**	**W3**		**S2S3**	**G2G3**
no locality data					
Melanoplus devius	**a Spur-throat Grasshopper**	**W3**		**SU**	**GU**
no locality data					
Melanoplus hubbelli	**Hubbell's Melanoplus**	**W3**		**S1S3**	**G4**
M: dry woodlands, including second growth					
Melanoplus nigrescens	**Black-sided Spur-throat Grasshopper**	**W3**		**S3S4**	**GU**
CT: pinewoods and maritime forests					
Melanoplus tribulus	**Tribulus Spur-throat Grasshopper**	**W3**		**SU**	**G4G5**
M: glades and open woodlands					
Melanoplus walshii	**Walsh's Locust**	**W3**		**SU**	**G4G5**
no locality data					
Mermiria picta	**a grasshopper**	**W3**		**S3?**	**G5**
no locality data					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Neoconocephalus velox	**Swift-flying Cone Head Katydid**	**W3**		**SU**	**GNR**
C: shrubby undergrowth in pinewoods					
Orchelimum superbum	**Superb Meadow Katydid**	**W3**		**SU**	**GNR**
CT: bogs and tidal marshes					
Paratylotropidia beutenmuelleri	**Beutenmueller's Grasshopper**	**W3**		**SU**	**G4**
no locality data					
Romalea microptera	**Eastern Lubber Grasshopper**	**W3**		**SU**	**G5**
P: open woods and roadsides					
Scudderia curvicauda laticauda	**Broad-tailed Bush Katydid**	**W3**		**SU**	**GNRTNR**
C: savannas, flatwoods, open pinewoods					
Stenacris vitreipennis	**Glassy-winged Toothpick Grasshopper**	**W3**		**S1S3**	**G5**
C: marshes					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

Insects: Beetles

Cicindela ancocisconensis	**Appalachian Tiger Beetle**	**W3**		**S3**	**G3**
M: high elevation forests (Haywood+, Jackson+)					
Cicindela blanda	**Sandbar Tiger Beetle**	**W3**		**S2S3**	**G4**
CP: sandy floodplains and white sand bars along blackwater rivers and streams (Bladen+, Columbus+, New Hanover+)					
Gonielmis dietrichi	**a water beetle**	**W3**		**S2**	**GNR**
S: in and around Fort Bragg (Hoke, Richmond, Scotland)					
Stenelmis morsei	**a riffle beetle**	**W5**		**S2**	**GNR**
S: Lumber River (Robeson)					
Stenelmis sp. 1	**Harley's Stenelmis Riffle Beetle**	**W5**		**S1**	**GNR**
S: Lumber River (Hoke, Scotland)					
Stenelmis sp. 2	**William's Stenelmis Riffle Beetle**	**W2**		**S2**	**GNR**
PS: James Creek, Upper Little River, Deep River (Harnett, Lee, Moore)					
Stenelmis sp. 3	**a riffle beetle**	**W3**		**S2**	**GNR**
PSC: Little River (Cumberland, Harnett, Moore)					
Trechus balsamensis	**a ground beetle**	**W3**		**SU**	**GH**
M: Plott Balsam mountains (endemic to North Carolina)					
Trechus carolinae	**a ground beetle**	**W3**		**SU**	**GH**
M: Black Mountains (endemic to North Carolina)					
Trechus luculentus luculentus	**a ground beetle**	**W3**		**SU**	**GHTH**
M: mountains of southwestern North Carolina					
Trechus luculentus unicoi	**a ground beetle**	**W3**		**SU**	**GHTH**
M: apparently the mountains of Graham County					
Trechus mitchellensis	**a ground beetle**	**W3**		**SU**	**GH**
M: Black Mountains (endemic to North Carolina)					
Trechus novaculosus	**a ground beetle**	**W3**		**SU**	**GH**
M: Great Smoky Mountains National Park (endemic to the park)					
Trechus roanicus	**a ground beetle**	**W3**		**SU**	**GH**
M: Roan Mountain (endemic to the mountain)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Trechus rosenbergi	**a ground beetle**	**W3**		**SU**	**GH**
M: Plott Balsam and Great Balsam mountains (endemic to North Carolina)					
Trechus satanicus	**a ground beetle**	**W3**		**SU**	**GH**
M: vicinity of Devils Courthouse and Graveyard Fields (endemic to North Carolina)					
Trechus subtilis	**a ground beetle**	**W3**		**SU**	**GH**
M: mountains of Haywood County (endemic to North Carolina)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					

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 NC 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 may well still exist in the state, or may be absent but expected to be found again in upcoming years.

MAMMALS

Bos bison	American Bison	-	-	SX	G4
MP: open woodlands					
Canis lupus	Gray Wolf	-	-	SX	G4
MPS?C?: extensive forests and other remote areas					
Erethizon dorsatum	North American Porcupine	-	-	SX	G5
M: high elevation hardwood forests; no positively documented records					
Eschrichtius robustus	Gray Whale	-	-	SX	G3G4
T: offshore waters					
Lepus americanus	Snowshoe Hare	-	-	SX	G5
M: spruce-fir and other high elevation forests; no positively documented records					
Martes pennanti	Fisher	-	-	SX	G5
M: spruce-fir forests; no positively documented records					
Puma concolor couguar	Eastern Cougar	W4,E	E	SX	G5THQ
MPC: extensive forests, remote areas					

BIRDS

Campephilus principalis	Ivory-billed Woodpecker	-	E	SX	GH
C: extensive swamps and bottomlands with old-growth trees (one NC record)					
Columbina passerina	Common Ground-Dove	SR	-	SXB	G5
T: dunes, sandy fields, margins of maritime woods and thickets					
Conuropsis carolinensis	Carolina Parakeet	-	-	SX	GX
CSPM?: forests, especially swamps and bottomlands					
Ectopistes migratorius	Passenger Pigeon	-	-	SX	GX
MPSC: forests (winter only)					
Thryomanes bewickii altus	Appalachian Bewick's Wren	E	FSC	SXB	G5T2Q
M: woodland borders or openings, farmlands or brushy fields, at high elevations					

FRESHWATER FISHES

Acipenser fulvescens	Lake Sturgeon	SC	FSC	SX	G3G4
M: large rivers of Tennessee drainages (Madison*)					
Etheostoma jessiae	Blueside Darter	SC	FSC	SX	G4Q
M: streams in Mills River system (Henderson*)					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
Region: Habitat Comments (Counties of Occurrence)					
Lepomis megalotis	Longear Sunfish	-	-	SX	G5
M: French Broad drainage (Buncombe*, Haywood*)					
Percina williamsi	Sickle Darter	SC	FSC	SX	G2
[formerly considered a part of *P. macrocephala*] M: French Broad River (Buncombe*)					
MOLLUSKS – FRESHWATER BIVALVES					
Alasmidonta robusta	Carolina Elktoe	-	-	SX	G1Q
P: Long Creek in Mecklenburg County (now believed extinct) (Mecklenburg*)					
Epioblasma capsaeformis	Oyster Mussel	-	E	SX	G1
M: French Broad River (Buncombe*, Madison*)					
Epioblasma florentina walkeri	Tan Riffleshell	-	E	SX	G1T1
M: French Broad and other rivers (Buncombe*)					
Lexingtonia dolabelloides	Slabside Pearlymussel	-	FSC	SX	G2
M: Little Tennessee River (?) (Macon*, Swain*)					
Medionidus conradicus	Cumberland Moccasinshell	-	-	SX	G3G4
M: French Broad River (Buncombe*)					
Ptychobranchus fasciolaris	Kidneyshell	-	-	SX	G4G5
M: Tennessee drainages					
Quadrula pustulosa	Pimpleback	-	-	SX	G5
M: Tennessee drainages					
Toxolasma lividus	Purple Lilliput	-	-	SX	G2
M: French Broad River					
Tritogonia verrucosa	Pistolgrip	-	-	SX	G4G5
M: New River near the Virginia border (Alleghany+, Ashe+)					
INSECTS – BUTTERFLIES					
Speyeria idalia	Regal Fritillary	SR	FSC	SX	G3
M: wet or dry meadows, bogs, open hilltops					

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global

ENDEMIC ANIMALS IN NORTH CAROLINA

This is a list of all taxa (including subspecies) considered to be endemic to North Carolina. However, the lists of most of the insect groups (other than butterflies, dragonflies, and damselflies) is incomplete, as are the list for spiders and other arachnids. There are no endemic taxa of birds.

MAMMALS

Peromyscus leucopus buxtoni	Buxton Woods White-footed Mouse	SR	FSC	S1	G5T1
Sorex sp. 1	an undescribed shrew	SR	-	S1S2	G1G2Q

REPTILES

Lampropeltis getula sticticeps	Outer Banks Kingsnake	SC	-	S2	G5T2Q
Nerodia sipedon williamengelsi	Carolina Watersnake	SC	-	S3	G5T3

AMPHIBIANS

Necturus lewisi	Neuse River Waterdog	SC	-	S2	G2
Plethodon amplus	Blue Ridge Gray-cheeked Salamander	SR	-	S2	G2
Plethodon cheoah	Cheoah Bald Salamander	SR	-	S1S2	G1G2
Plethodon meridianus	South Mountain Gray-cheeked Salamander	SR	-	S2	G2
Plethodon yonahlossee pop. 1	Crevice Salamander	SC	-	S1S2	G4T1T2Q

FRESHWATER FISHES

Etheostoma perlongum	Waccamaw Darter	T	FSC	S1	G1Q
Fundulus cf. diaphanus	Lake Phelps Killifish	SR	FSC	S1	G1Q
Fundulus waccamensis	Waccamaw Killifish	SC	FSC	S1	G1
Lythrurus matutinus	Pinewoods Shiner	W2	FSC	S3	G3
Menidia extensa	Waccamaw Silverside	T	T	S1	G1
Notropis mekistocholas	Cape Fear Shiner	E	E	S1	G1
Noturus furiosus	Carolina Madtom	T	FSC	S2	G2

MOLLUSKS – FRESHWATER BIVALVES

Alasmidonta sp. 1	a bivalve (Upper Yadkin River system)	---	-	SU	GXQ
Alasmidonta sp. 2	a bivalve (Uwharries region)	SR	-	S1?	GNR
Elliptio marsupiobesa	Cape Fear Spike	SC	-	S3	G3Q
Elliptio steinstansana	Tar River Spinymussel	E	E	S1	G1
Elliptio sp. 2	File Spike	W3	-	SU	GUQ
Elliptio sp. 4	a bivalve (Deep River system)	---	-	SU	GUQ
Lampsilis fullerkati	Waccamaw Fatmucket	T	FSC	S1	G1Q
Lampsilis sp. 2	Chameleon Lampmussel	SR	-	S1	G1
Lampsilis sp. 3	a bivalve (Deep River system)	W3	-	S1?	GU

MOLLUSKS – FRESHWATER GASTROPODS

Cincinnatia sp. 1	Waccamaw Siltsnail	SC	-	S1	G1
Helisoma eucosmium	Greenfield Rams-horn	E	FSC	S1	G1Q
Planorbella magnifica	Magnificent Rams-horn	E	FSC	S1	G1

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
	MOLLUSKS – TERRESTRIAL GASTROPODS				
Catinella waccamawensis	Waccamaw Ambersnail	T	-	S1	G1Q
Fumonelix orestes	Engraved Covert	T	-	S1	G1
Glyphyalinia clingmani	Fragile Glyph	E	FSC	S1	G1
Helicodiscus bonamicus	Spiral Coil	SC	-	S1	G1
Paravitrea lacteodens	Ramp Cove Supercoil	SC	-	S1	G1
Patera clarki nantahala	Noonday Globe	T	T	S1	G3T1
Triodopsis fulciden	Dwarf Threetooth	SC	-	S1S2	G1G2
Triodopsis soelneri	Cape Fear Threetooth	T	FSC	S2	G2
	ARACHNIDS				
Hypochilus coylei	a lampshade spider	SR	-	S3?	G3?
Hypochilus sheari	a lampshade spider	SR	-	S2S3	G2G3
Nesticus bishopi	a nesticid spider	W3	-	S3?	G3?
Nesticus brimleyi	a nesticid spider	SR	-	S1?	G1G2
Nesticus carolinensis	Linville Caverns Spider	SR	-	S1	G1?
Nesticus cooperi	Lost Nantahala Cave Spider	SR	FSC	S1	G1
Nesticus crosbyi	a nesticid spider	SR	-	S1?	G1?
Nesticus nasicus	a nesticid spider	W3	-	S3?	G3?
Nesticus sheari	a nesticid spider	SR	-	S2?	G2?
Nesticus silvanus	a nesticid spider	SR	-	S2?	G2?
Nesticus sp. 2	a nesticid spider	SR	-	S1S3	G1G3
	CRUSTACEANS				
Caecidotea carolinensis	Bennett's Mill Cave Water Slater	SR	FSC	S1	G2G3
Cambarus brimleyorum	Valley River Crayfish	SR	-	S3	G3
Cambarus catagius	Greensboro Burrowing Crayfish	SC	-	S2	G2
Cambarus davidi	Carolina Ladle Crayfish	SR	-	S2S3	G2G3
Cambarus eeseeohensis	Grandfather Mountain Crayfish	SR	-	S1	G1
Cambarus hobbsorum	Rocky River Crayfish	---	-	S3S4	G3G4
Cambarus hystricosus	Sandhills Spiny Crayfish	SR	-	S2	G2
Cambarus johni	Carolina Foothills Crayfish	SR	-	S3	GNR
Cambarus lenati	Broad River Stream Crayfish	SR	-	S2	G2
Cambarus reburrus	French Broad River Crayfish	SR	FSC	S3	G3
Cambarus tuckasegee	Tuckasegee Stream Crayfish	SR	-	S1S2	G1G2
Dactylocythere chelomata	Cherokee Crayfish Ostracod	W2,W3	-	S2?	GNR
Dactylocythere isabelae	Catawba Crayfish Ostracod	SR	FSC	S1?	GNR
Dactylocythere peedeensis	Pee Dee Crayfish Ostracod	W3	-	S2?	GNR
Dactylocythere prinsi	Whitewater Crayfish Ostracod	W3	FSC	S1	GNR
Diacyclops jeanneli putei	Carolina Well Diacyclops	SR	-	SH	G3G4T1T2
Harpagocythere baileyi	Highlands Crayfish Ostracod	W3	-	S2?	GNR
Orconectes carolinensis	North Carolina Spiny Crayfish	SC	-	S3	G3
Procambarus medialis	Pamlico Crayfish	W3	-	S2	G3
Procambarus plumimanus	Croatan Crayfish	SR	-	S3	G4
Skistodiaptomus carolinensis	Carolina Skistodiaptomus	SR	-	S1?	GNR
Stygobromus carolinensis	Yancey Sideswimmer	SR	FSC	S1	G1
Waltoncythere acuta	Transylvania Crayfish Ostracod	W3	FSC	S2?	GNR
	INSECTS – STONEFLIES				
Haploperla fleeki	a stonefly	SR	-	S1	GNR
Haploperla parkeri	Parker Sallfly	W3	-	SU	GNR
Perlesta bjostadi	a perlid stonefly	W3	-	SU	G1
Perlesta leathermani	a perlid stonefly	W3	-	SU	G1

Scientific Name	Common Name	Status N.C.	Status U.S.	Rank N.C.	Rank Global
	INSECTS – CADDISFLIES				
Ceraclea cama	a longhorned caddisfly	W3	-	SU	G1G2
Ceraclea joannae	a caddisfly	SR	-	S1	G1
Nectopsyche waccamawensis	Waccamaw White Miller	SR	-	S1	G1
Rhyacophila accola	a caddisfly	SR	-	S1S2	G1G2
	INSECTS – FLIES				
Eulonchus marialiciae	Mary Alice's Small-headed Fly	W3	-	S3?	G1G3
	INSECTS – MACRO-MOTHS				
Agrotis carolina	a dart moth	SR	FSC	S2S3	G2G3
Hemipachnobia subporphyrea	Venus Flytrap Cutworm Moth	SR	FSC	S1?	G1
Meropleon diversicolor sullivani	an owlet moth	SR	-	S1S3	G4T1T3
	INSECTS – BUTTERFLIES				
Atrytonopsis sp. 1	an undescribed skipper	SR	FSC	S1	G1Q
Neonympha mitchellii francisci	Saint Francis' Satyr	SR	E	S1	G1G2T1
	INSECTS – GRASSHOPPERS AND KATYDIDS				
Melanoplus decorus	Decorated Spur-throat Grasshopper	SR	-	S2S3	G3G4
Melanoplus mirus	A short-winged Melanoplus	SR		SH	GH
Melanoplus nubilus	A short-winged Melanoplus	SR		S2	GU
Melanoplus serrulatus	Serrulate Melanoplus	SR		SH	G1G3
Melanoplus sp. 6	A Grasshopper	SR		S1S2	G1G2
Melanoplus sp. 35	A Grasshopper	SR		S1S2	G1G2
Melanoplus sylvestris	A Spur-throat Grasshopper	SR		SH	G1G2
	INSECTS – BEETLES				
Trechus balsamensis	a ground beetle	W3	-	SU	GH
Trechus carolinae	a ground beetle	W3	-	SU	GH
Trechus luculentus luculentus	a ground beetle	W3	-	SU	GHTH
Trechus luculentus unicoi	a ground beetle	W3	-	SU	GHTH
Trechus mitchellensis	a ground beetle	W3	-	SU	GH
Trechus novaculosus	a ground beetle	W3	-	SU	GH
Trechus roanicus	a ground beetle	W3	-	SU	GH
Trechus rosenbergi	a ground beetle	W3	-	SU	GH
Trechus satanicus	a ground beetle	W3	-	SU	GH
Trechus subtilis	a ground beetle	W3	-	SU	GH
	INSECTS – SPRINGTAILS				
Pseudosinella flatua	a cave obligate springtail	---	-	S1S2	G1G2
Pseudosinella gisini carolina	a cave obligate springtail	---	-	S1S2	G3G4T1T2
Pseudosinella vespera	a cave obligate springtail	---	-	S1S2	G1G2

POTENTIAL NEW TO NORTH CAROLINA ANIMALS

The following list contains species of well-known animal groups that are not currently known to occur in North Carolina, or those species not currently known to breed in North Carolina, but which are considered to have some possibility of being found to occur on a regular basis or to breed in the state. The list is based on the species' currently known range and habitat preferences. Nearly all 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 being aware 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 occurring or found breeding. 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, with the distance from North Carolina in number of counties in brackets. For instance, [1] indicates that the species has been reported from a county immediately adjacent to North Carolina; [5] indicates that the species has been reported from a county five counties away from the North Carolina border. An average county width in and around North Carolina is about 25 miles, so [5] indicates an approximate distance from North Carolina of 100-125 miles. It should be obvious that a species known to occur south only to the Virginia mountains would be best searched for in North Carolina counties near the Virginia line, such as Ashe, Alleghany, and Watauga. Likewise, Coastal Plain species occurring north to South Carolina are most likely searched for in counties along the southern border, such as Brunswick and Columbus.

The following additional symbols are used:

* May have occurred in North Carolina (no conclusive records) with the remote possibility of being conclusively found in the state

\+ Known to occur in the state on a regular basis (as an Element Occurrence) but not known conclusively to breed, though suspected or assumed to breed; conclusive breeding records lacking

NOTE: Since the last version of this publication in 2010, the following species has been found or reported in North Carolina and has been removed from the lists: Cassius Blue (Leptotes cassius)

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. Nearly all of the potential new-to-North Carolina mammals are cetaceans. A few cetaceans probably occur regularly in the Atlantic off North Carolina, but far offshore; however, most of them are primarily either subtropical or Arctic inhabitants and would be considered accidental in the state.

Balaenoptera edeni -- Bryde's Whale
T: ocean, primarily in subtropical waters; VA (one record), GA
Balaenoptera musculus -- Blue Whale
T: ocean, entire north Atlantic, far offshore; MD (one record)
Peponocephala electra -- Melon-headed Whale
T: ocean, in subtropical waters; MD (one record)

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 [see Watch List]
Ammodramus caudacutus -- Saltmarsh Sparrow
T: salt or brackish marshes; VA [3]; 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 [see Watch List]
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 [see Watch List]
Asio otus -- Long-eared Owl
M: conifers or mixed woods at high elevations in northern mountains; VA [2]; one or two summer reports from the NC mountains, but without visual confirmation [see Watch List]
Cistothorus platensis -- Sedge Wren
T: brackish marshes; VA [3] (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 [see Watch List]
Elanoides forficatus -- Swallow-tailed Kite +
C: swamps, river bottoms; numerous summer records along the Cape Fear River in Bladen and Pender counties; fledged young seen, but no nest has yet been found [see Rare List]
Empidonax flaviventris -- Yellow-bellied Flycatcher
M: high elevation spruce-fir, usually where stunted or young; VA [1] (Mt. Rogers); two summer reports from NC mountains
Geothlypis philadelphia -- Mourning Warbler
M: thickets, brushy places, clearings; VA [5]; a pair believed to have nested in mid-1980s near Great Smoky Mountains N.P. in NC, and another territorial male was present at Roan Mountain in the early 2000s

Haemorhous purpureus -- Purple Finch
M: spruce-fir forests; VA [1] (Mt. Rogers); one or two summer records for the NC mountains
Melospiza georgiana -- Swamp Sparrow
M: bogs at high elevation; VA [5-6]; no summer reports for NC
Oreothlypis ruficapilla -- Nashville Warbler
M: spruce-fir forests, mainly along margins or in young or stunted trees; VA [6], but also a report from Mt. Rogers; no summer reports for NC
Parkesia noveboracensis -- Northern Waterthrush
M: bogs where spruce-fir is present; VA [5-6], plus two reports from Mt. Rogers; no summer reports for NC
Passerculus sandwichensis -- Savannah Sparrow +
M: undoubtedly nesting in Alleghany, Ashe, and Watauga counties, but no active nest has yet to be found [see Rare List]
Setophaga magnolia -- Magnolia Warbler +
M: no active nest yet found, but undoubtedly nests [see Rare List]
Vermivora cyanoptera -- Blue-winged Warbler +
M: no active nest has yet been found, but undoubtedly breeds [see Rare List]

REPTILES

Apalone ferox -- Florida Softshell
C: lakes, ponds, rivers; SC [3]
Apalone mutica -- Smooth Softshell
M: large rivers in the Tennessee drainage; TN [2?]
Graptemys pseudogeographica -- False Map Turtle
M: large rivers in the Tennessee drainage; TN [1-2]
Nerodia cyclopion -- Green Water Snake
C: streams, lakes, ponds, marshes; SC [2]
Ophisaurus compressus -- Island Glass Lizard
TC: maritime or other coastal forests, in dry habitats; SC [2]

AMPHIBIANS

Ambystoma cingulatum -- Flatwoods Salamander
C: flatwoods, bottomlands, swamps; SC [2-3]
Ambystoma jeffersonianum -- Jefferson Salamander
M: low woods, bottomlands; VA [2]
Ambystoma texanum -- Smallmouth Salamander
M: moist forests; TN [6]; ranges east to central TN
Desmognathus planiceps – Virginia Dusky Salamander
P: springs, seeps, streams; VA [1]
Desmognathus welteri -- Black Mountain Salamander
M: along streams in mesic forests; TN [3]
Eurycea lucifuga -- Cave Salamander
M: limestone caves and ledges; TN [1], VA [2]
Gyrinophilus palleucus -- Tennessee Cave Salamander
M: caves, in limestone areas; TN [2]
Plethodon hoffmani -- Valley and Ridge Salamander
M: montane forests; VA [3-4]
Plethodon hubrichti -- Peaks of Otter Salamander
M: cool moist woods; VA [2]; endemic to Peaks of Otter Mountain

Plethodon kentucki – Cumberland Plateau Salamander
M: moist mixed hardwoods; TN [2], VA [2]
Pseudacris kalmi – New Jersey Chorus Frog
C: forests, with shallow water for breeding; VA [2]
Plethodon websteri -- Webster's Salamander
P: moist forests with steep north-facing slopes; SC [4]
Pseudobranchus striatus -- Dwarf Siren
C: swamps, ponds, other sluggish freshwater habitats; SC [2-3]
Rana grylio -- Pig Frog
C: lakes, ponds, marshes; SC [2]
Urspelerpes brucei – Patch-nosed Salamander
M: margins of seeps or streams in rich forests; SC [1], GA [1]

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 G2/G3
M: Tennessee drainages; TN [1-2]
Etheostoma hopkinsi -- Christmas Darter G4/G5
M: Savannah drainage; SC [1-2]
Hemitremia flammea -- Flame Chub G3
M: Tennessee drainages; TN [1]
Notropis ariommus -- Popeye Shiner G3
M: Tennessee drainages; TN [1-2]
Noturus baileyi -- Smoky Madtom G1
M: Tennessee drainages; TN [1]

INSECTS -- BUTTERFLIES

A species marked with the @ symbol is considered to be a Visitor, with breeding occurring elsewhere. Most of these breed to the south of North Carolina and would be expected to occur as a visitor in the warmer months. Otherwise, all other species on this list are presumed to breed in adjacent states.

There are numerous butterfly species whose 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 (Uniola latifolia); SC [1] (Oconee and Pickens counties)

Boloria selene -- Silver-bordered Fritillary
M: wet meadows, bogs, marshes; host plant -- violets (Viola) and other species; VA [3]

Brephidium isophthalma -- Eastern Pygmy-Blue
T: tidal flats and marshes; host plant -- glassworts (Salicornia), possibly saltwort (Batis maritima); SC [2]

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 [2]

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 [3]

Chlosyne harrisii -- Harris' Checkerspot
M: marshes, damp meadows, and other wet brushy places; host plant -- flat-topped white aster (Aster umbellatus); WV [6-7].

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 [5-6]

Erynnis lucilius -- Columbine Duskywing
M: rocky woods, ravines, and wooded edges; host plant – wild columbine (Aquilegia canadensis); VA (2); reported from NC in early 2000s, but report retracted, likely an identification error

Erynnis persius -- Persius Duskywing
M: openings in cool forests, fields or bogs near woods; host plant -- lupine (Lupinus perennis); VA [3]

Euphyes conspicuus -- Black Dash
CM: marshes, wet meadows, but rarely in bogs; host plant -- sedges, mainly Carex stricta; VA [1]

Speyeria atlantis -- Atlantis Fritillary
M: cool, open woods, wooded streams, clearings; host plant -- violets (Viola); VA [5]

SIGNIFICANT 2012 REVISIONS TO THE ANIMAL LIST

Taxa Added to the Rare Animal List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS
Mammals	Myotis lucifugus	Little Brown Myotis	Watch List
Mammals	Myotis septentrionalis	Northern Myotis	Watch List
Mammals	Perimyotis subflavus	Tricolored Bat	None
Birds	Elanoides forficatus	Swallow-tailed Kite	Watch List
Birds	Nyctanassa violacea	Yellow-crowned Night-Heron	Watch List
Reptiles	Farancia erytrogramma	Rainbow Snake	Watch List
Amphibians	Pseudacris nigrita	Southern Chorus Frog	Watch List
Freshwater Fishes	Enneacanthus chaetodon	Blackbanded Sunfish	Watch List
Freshwater Fishes	Etheostoma thalassinum	Seagreen Darter	Watch List
Dragonflies And Damselflies	Boyeria grafiana	Ocellated Darner	Watch List
Dragonflies And Damselflies	Calopteryx amata	Superb Jewelwing	Watch List
Dragonflies And Damselflies	Coryphaeschna ingens	Regal Darner	Watch List
Dragonflies And Damselflies	Lestes vidua	Carolina Spreadwing	Watch List
Dragonflies And Damselflies	Somatochlora georgiana	Coppery Emerald	Watch List
Dragonflies And Damselflies	Stylurus ivae	Shining Clubtail	Watch List
Grasshoppers And Katydids	Arphia granulata	Southern Yellow-winged Grasshopper	Watch List
Grasshoppers And Katydids	Booneacris variegata	a Grasshopper	None
Grasshoppers And Katydids	Dendrotettix zimmermanni	Zimmermann's Dendrotettix	Watch List
Grasshoppers And Katydids	Melanoplus carnegiei	Carnegie's Melanoplus	Watch List
Grasshoppers And Katydids	Melanoplus decoratus	Decorated Melanoplus	Watch List
Grasshoppers And Katydids	Melanoplus eurycercus	a spur-throat grasshopper	Watch List
Grasshoppers And Katydids	Melanoplus impudicus	Immodest Spur-throat Grasshopper	Watch List
Grasshoppers And Katydids	Melanoplus similis	a short-winged Melanoplus	Watch List
Grasshoppers And Katydids	Melanoplus sp. 35	a Grasshopper	None
Grasshoppers And Katydids	Melanoplus sp. 6	a Grasshopper	None
Grasshoppers And Katydids	Melanoplus strumosus	Swollen Spur-throat Grasshopper	Watch List
Grasshoppers And Katydids	Melanoplus sylvestris	a Spur-throat Grasshopper	None
Grasshoppers And Katydids	Mermiria bivittata	Two-striped Mermiria	Watch List
Grasshoppers And Katydids	Mermiria intertexta	Intertexta Mermiria	Watch List
Macro-moths	Arctia caja	Great Tiger Moth	None
Macro-moths	Argyrostrotis quadrifilaris	Four-lined Chocolate	Watch List
Macro-moths	Cryphia cyanympha	an owlet moth	Watch List
Macro-moths	Cycnia inopinatus	Unexpected Cycnia	Watch List
Macro-moths	Dasychira leucophaea	a tussock moth	Watch List
Macro-moths	Derrima stellata	Pink Star Moth	Watch List
Macro-moths	Eucoptocnemis dapsilis	an owlet moth	Watch List
Macro-moths	Eulithis propulsata	a geometrid moth	Watch List
Macro-moths	Euxoa declarata	a dart moth	Watch List
Macro-moths	Exyra fax	Purple Pitcher-plant Moth	Watch List
Macro-moths	Exyra ridingsii	a pitcher-plant moth	Watch List
Macro-moths	Faronta rubripennis	Pink Streak	Watch List
Macro-moths	Hadena ectypa	a noctuid moth	Watch List
Macro-moths	Idaea ostentaria	a wave	Watch List
Macro-moths	Leptostales laevitaria	a wave	Watch List
Macro-moths	Leucania calidior	Cane Wainscot	Watch List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS
Macro-moths	Lithophane oriunda	Immigrant Pinion Moth	None
Macro-moths	Metalectra albilinea	White-lined Fungus Moth	Watch List
Macro-moths	Orgyia antiqua	Rusty Tussock Moth	None
Macro-moths	Pachypolia atricornis	a noctuid moth	Watch List
Macro-moths	Petrophora subaequaria	Northern Petrophora	Watch List
Macro-moths	Schinia bina	Bina Flower Moth	Watch List
Macro-moths	Semiothisa ordinata	Amorpha Angle	Watch List
Macro-moths	Tolype minta	Southern Tolype	Watch List
Beetles	Cicindela nigrior	Autumn Tiger Beetle	None
Terrestrial Gastropods	Allogona profunda	Broad-banded Forestsnail	None
Terrestrial Gastropods	Anguispira alternata	Flamed Tigersnail	None
Terrestrial Gastropods	Anguispira strongyloides	Southeastern Tigersnail	None
Terrestrial Gastropods	Appalachina sayana	Spike-lip Crater	None
Terrestrial Gastropods	Discus nigrimontanus	Black Mountain Disc	None
Terrestrial Gastropods	Discus whitneyi	Forest Disc	None
Terrestrial Gastropods	Euchemotrema fraternum	Upland Pillsnail	None
Terrestrial Gastropods	Euglandina rosea	Rosy Wolfsnail	None
Terrestrial Gastropods	Gastrocopta corticaria	Bark Snaggletooth	Watch List
Terrestrial Gastropods	Glyphyalinia umbilicata	Texas Glyph	None
Terrestrial Gastropods	Glyphyalinia wheatleyi	Bright Glyph	None
Terrestrial Gastropods	Hendersonia occulta	Cherrystone Drop	None
Terrestrial Gastropods	Mesomphix anurus	Frog Button	None
Terrestrial Gastropods	Mesomphix latior	Broad Button	None
Terrestrial Gastropods	Mesomphix pilsbryi	Striate Button	None
Terrestrial Gastropods	Novisuccinea ovalis	Oval Ambersnail	None
Terrestrial Gastropods	Paravitrea multidentata	Dentate Supercoil	None
Terrestrial Gastropods	Paravitrea reesei	Round Supercoil	None
Terrestrial Gastropods	Philomycus virginicus	Virginia Mantleslug	Watch List
Terrestrial Gastropods	Praticolella lawae	Appalachian Shrubsnail	None
Terrestrial Gastropods	Striatura ferrea	Black Striate	None
Terrestrial Gastropods	Succinea unicolor	Squatty Ambersnail	None
Terrestrial Gastropods	Triodopsis vulgata	Dished Threetooth	None
Terrestrial Gastropods	Vallonia excentrica	Iroquois Vallonia	Watch List
Terrestrial Gastropods	Vallonia pulchella	Lovely Vallonia	None
Terrestrial Gastropods	Ventridens lawae	Rounded Dome	None
Terrestrial Gastropods	Ventridens suppressus	Flat Dome	None
Terrestrial Gastropods	Vertigo oralis	Palmetto Vertigo	None

Taxa Added to the Watch List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS
Mammals	Dasypus novemcinctus	Nine-banded Armadillo	None
Mammals	Sciurus niger	Eastern Fox Squirrel	Rare List
Birds	Gallinula galeata	Common Gallinule	None
Birds	Lanius ludovicianus	Loggerhead Shrike	Rare List
Birds	Nycticorax nycticorax	Black-crowned Night-Heron	None
Birds	Podilymbus podiceps	Pied-billed Grebe	None
Birds	Rallus limicola	Virginia Rail	None
Amphibians	Desmognathus aeneus	Seepage Salamander	Rare List
Freshwater Fishes	Cyprinella zanema	Santee Chub	Rare List
Freshwater Fishes	Fundulus confluentus	Marsh Killifish	Rare List
Freshwater Fishes	Fundulus luciae	Spotfin Killifish	Rare List
Dragonflies And Damselflies	Enallagma sulcatum	Golden Bluet	Rare List
Dragonflies And Damselflies	Gomphus parvidens	Piedmont Clubtail	None
Dragonflies And Damselflies	Lestes eurinus	Amber-winged Spreadwing	None
Dragonflies And Damselflies	Neurocordulia molesta	Smoky Shadowdragon	Rare List
Dragonflies And Damselflies	Neurocordulia virginiensis	Cinnamon Shadowdragon	Rare List
Dragonflies And Damselflies	Ophiogomphus incurvatus	Appalachian Snaketail	None
Dragonflies And Damselflies	Stylogomphus interior	Interior Least Clubtail	None
Dragonflies And Damselflies	Sympetrum internum	Cherry-faced Meadowhawk	None
Grasshoppers And Katydids	Amblycorypha arenicola	Sandhill Virtuoso Katydid	None
Grasshoppers And Katydids	Amblycorypha bartrami	Bartram's Round-winged Katydid	None
Grasshoppers And Katydids	Melanoplus acrophilus	a Spur-throat Grasshopper	Rare List
Grasshoppers And Katydids	Melanoplus devius	a Spur-throat Grasshopper	None
Grasshoppers And Katydids	Melanoplus nigrescens	Black-sided Spur-throat Grasshopper	Rare List
Grasshoppers And Katydids	Melanoplus walshii	Walsh's Short-wing Grasshopper	None
Grasshoppers And Katydids	Mermiria picta	Lively Mermiria	None
Grasshoppers And Katydids	Paratylotropidia beutenmuelleri	a Grasshopper	None
Mayflies	Drunella longicornis	a spiny crawler mayfly	Rare List
Mayflies	Serratella spiculosa	Spiculose Serratellan Mayfly	Rare List
Stoneflies	Agnetina capitata	Northern Stone	Rare List
Stoneflies	Haploperla parkeri	Parker Sallfly	Rare List
Stoneflies	Isoperla frisoni	Wisconsin Stripetail	Rare List
Stoneflies	Isoperla lata	Dark Stripetail	Rare List
Stoneflies	Perlesta bjostadi	a perlid stonefly	Rare List
Stoneflies	Perlesta leathermani	a perlid stonefly	Rare List
Stoneflies	Prostoia hallasi	Swamp Forestfly	Rare List
Stoneflies	Sweltsa holstonensis	Holston Sallfly	Rare List
Stoneflies	Tallaperla elisa	Highlands Roachfly	Rare List
Caddisflies	Agapetus jocassee	a saddlecase caddisfly	Rare List
Caddisflies	Agapetus minutes	a saddlecase caddisfly	Rare List
Caddisflies	Agapetus tomus	a saddlecase caddisfly	Rare List
Caddisflies	Ceraclea cama	a longhorned caddisfly	Rare List
Caddisflies	Ceraclea mentiea	a longhorned caddisfly	Rare List
Caddisflies	Hydropsyche bassi	a netspinning caddisfly	Rare List
Caddisflies	Hydroptila coweetensis	a micro caddisfly	Rare List
Caddisflies	Hydroptila lloganae	Llogan's Vari-colored Microcaddisfly	Rare List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	PREVIOUS STATUS
Caddisflies	Rhyacophila amicis	a free living caddisfly	Rare List
Caddisflies	Rhyacophila montana	a free living caddisfly	Rare List
Caddisflies	Rhyacophila mycta	a free living caddisfly	Rare List
Caddisflies	Triaenodes marginatus	a longhorned caddisfly	Rare List
Butterflies	Pyrgus albescens	White Checkered-Skipper	None
Macro-moths	Anicla (Euagrotis) sullivani	Sullivan's Anicla	None
Macro-moths	Callosamia securifera	Sweetbay Silkmoth	Rare List
Macro-moths	Catocala alabamae	Alabama Underwing	Rare List
Macro-moths	Catocala amestris	Three-staff Underwing	Rare List
Macro-moths	Catocala illecta	Magdalen Underwing	None
Macro-moths	Catocala miranda	Miranda Underwing	None
Macro-moths	Doryodes sp. 1	Wiregrass Doryodes	Rare List
Macro-moths	Dysgonia similis	an owlet moth	Rare List
Macro-moths	Euxoa violaris	Violet Dart	Rare List
Macro-moths	Hyperstrotia aetheria	a noctuid moth	Rare List
Macro-moths	Itame subcessaria	Barred Itame	Rare List
Macro-moths	Lithophane lemmeri	Lemmer's Pinion	Rare List
Macro-moths	Macrochilo louisiana	Louisiana Owlet Moth	Rare List
Macro-moths	Metarranthis lateritiaria	an inchworm moth	Rare List
Macro-moths	Metarranthis sp. 1	a new inchworm moth	Rare List
Macro-moths	Orgyia detrita	a tussock moth	Rare List
Macro-moths	Pangrapta sp. 1	a noctuid moth	Rare List
Macro-moths	Papaipema araliae	Aralia Shoot Borer Moth	Rare List
Macro-moths	Sphinx franckii	Franck's Sphinx	None
Beetles	Cicindela ancocisconensis	Appalachian Tiger Beetle	None
Beetles	Cicindela blanda	Sandbar Tiger Beetle	None
Flies	Eulonchus marialiciae	Mary Alice's Small-headed Fly	Rare List
Terrestrial Gastropods	Anguispira mordax	Appalachian Tigersnail	None
Terrestrial Gastropods	Carychium exiguum	Obese Thorn	None
Terrestrial Gastropods	Gastrocopta armifera	Armed Snaggletooth	None
Terrestrial Gastropods	Gastrocopta procera	Wing Snaggletooth	None
Terrestrial Gastropods	Neohelix dentifera	Big-tooth Whitelip	None
Terrestrial Gastropods	Oxyloma effusum	Coastal-plain Ambersnail	None
Terrestrial Gastropods	Xolotrema caroliniense	Blunt Wedge	None
Terrestrial Gastropods	Xolotrema denotatum	Velvet Wedge	None

Taxa Removed from the Rare Animal List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	NEW STATUS
Mammals	Sciurus niger	Eastern Fox Squirrel	Watch List
Birds	Lanius ludovicianus	Loggerhead Shrike	Watch List
Amphibians	Desmognathus aeneus	Seepage Salamander	Watch List
Freshwater Fishes	Cyprinella zanema	Santee Chub	Watch List
Freshwater Fishes	Fundulus confluentus	Marsh Killifish	Watch List
Freshwater Fishes	Fundulus luciae	Spotfin Killifish	Watch List
Freshwater Fishes	Percina sciera	Dusky Darter	None
Dragonflies And Damselflies	Enallagma sulcatum	Golden Bluet	Watch List
Dragonflies And Damselflies	Neurocordulia molesta	Smoky Shadowdragon	Watch List
Dragonflies And Damselflies	Neurocordulia virginiensis	Cinnamon Shadowdragon	Watch List
Grasshoppers And Katydids	Melanoplus acrophilus	a Spur-throat Grasshopper	Watch List
Grasshoppers And Katydids	Melanoplus nigrescens	Black-sided Spur-throat Grasshopper	Watch List
Mayflies	Ameletus sp.1	a mayfly	None
Mayflies	Drunella lata	a spiny crawler mayfly	None
Mayflies	Drunella longicornis	a spiny crawler mayfly	Watch List
Mayflies	Drunella tuberculata pop.1	a spiny crawler mayfly	None
Mayflies	Drunella wayah pop. 1	a spiny crawler mayfly	None
Mayflies	Habrophlebiodes spp.	Habrophlebiodes Mayflies	None
Mayflies	Plauditus cestus	a small minnow mayfly	None
Mayflies	Serratella spiculosa	Spiculose Serratellan Mayfly	Watch List
Stoneflies	Agnetina capitata	Northern Stone	Watch List
Stoneflies	Haploperla parkeri	Parker Sallfly	Watch List
Stoneflies	Isoperla frisoni	Wisconsin Stripetail	Watch List
Stoneflies	Isoperla lata	Dark Stripetail	Watch List
Stoneflies	Isoperla sp. 1	a stonefly	None
Stoneflies	Paragnetina sp. 1	a stonefly	None
Stoneflies	Perlesta bjostadi	a perlid stonefly	Watch List
Stoneflies	Perlesta leathermani	a perlid stonefly	Watch List
Stoneflies	Perlesta sp. 2	a perlid stonefly	None
Stoneflies	Prostoia hallasi	Swamp Forestfly	Watch List
Stoneflies	Sweltsa holstonensis	Holston Sallfly	Watch List
Stoneflies	Tallaperla elisa	Highlands Roachfly	Watch List
Caddisflies	Agapetus jocassee	a saddlecase caddisfly	Watch List
Caddisflies	Agapetus minutes	a saddlecase caddisfly	Watch List
Caddisflies	Agapetus tomus	a saddlecase caddisfly	Watch List
Caddisflies	Ceraclea cama	a longhorned caddisfly	Watch List
Caddisflies	Ceraclea mentiea	a longhorned caddisfly	Watch List
Caddisflies	Ceraclea sp. 3	a longhorned caddisfly	None
Caddisflies	Ceraclea sp. 4	a longhorned caddisfly	None
Caddisflies	Culoptila thoracica	a saddlecase caddisfly	None
Caddisflies	Hydropsyche bassi	a netspinning caddisfly	Watch List
Caddisflies	Hydroptila coweetensis	a micro caddisfly	Watch List
Caddisflies	Hydroptila lloganae	Llogan's Vari-colored Microcaddisfly	Watch List
Caddisflies	Rhyacophila amicis	a free living caddisfly	Watch List
Caddisflies	Rhyacophila montana	a free living caddisfly	Watch List
Caddisflies	Rhyacophila mycta	a free living caddisfly	Watch List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	NEW STATUS
Caddisflies	Triaenodes marginatus	a longhorned caddisfly	Watch List
Macro-moths	Callosamia securifera	Sweetbay Silkmoth	Watch List
Macro-moths	Catocala alabamae	Alabama Underwing	Watch List
Macro-moths	Catocala amestris	Three-staff Underwing	Watch List
Macro-moths	Doryodes sp. 1	Wiregrass Doryodes	Watch List
Macro-moths	Dysgonia similis	an owlet moth	Watch List
Macro-moths	Euxoa violaris	Violet Dart	Watch List
Macro-moths	Hyperstrotia aetheria	a noctuid moth	Watch List
Macro-moths	Itame subcessaria	Barred Itame	Watch List
Macro-moths	Lithophane lemmeri	Lemmer's Pinion	Watch List
Macro-moths	Macrochilo louisiana	Louisiana Owlet Moth	Watch List
Macro-moths	Metarranthis lateritiaria	an inchworm moth	Watch List
Macro-moths	Metarranthis sp. 1	a new inchworm moth	Watch List
Macro-moths	Orgyia detrita	a tussock moth	Watch List
Macro-moths	Pangrapta sp. 1	a noctuid moth	Watch List
Macro-moths	Papaipema araliae	Aralia Shoot Borer Moth	Watch List
Macro-moths	Semiothisa fraserata	Fraser Fir Geometrid Moth	None
Flies	Eulonchus marialiciae	Mary Alice's Small-headed Fly	Watch List
Terrestrial Gastropods	Helicodiscus triodus	Talus Coil	None

Taxa Removed from the Watch List and not added to the Rare List

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME
Birds	Icterus galbula	Baltimore Oriole
Birds	Ictinia mississippiensis	Mississippi Kite
Birds	Limnothlypis swainsonii	Swainson’s Warbler
Amphibians	Pseudacris brimleyi	Brimley’s Chorus Frog
Freshwater Fishes	Hybopsis amblops	Bigeye Chub
Freshwater Fishes	Nocomis micropogon	River Chub
Freshwater Fishes	Nocomis raneyi	Bull Chub
Freshwater Fishes	Notropis cf. chlorocephalus	Piedmont Shiner
Freshwater Fishes	Notropis chiliticus	Redlip Shiner
Freshwater Fishes	Notropis chlorocephalus	Greenhead Shiner
Freshwater Fishes	Noturus insignis ssp. 1	Spotted Madtom
Dragonflies And Damselflies	Aphylla williamsoni	Two-striped Forceptail
Dragonflies And Damselflies	Epitheca spinosa	Robust Baskettail
Grasshoppers And Katydids	Melanoplus celatus	a short-winged Melanoplus
Grasshoppers And Katydids	Melanoplus propinquus	Southern Red-legged Melanoplus
Mayflies	Anthopotamus verticis	Walker's Tusked Sprawler
Mayflies	Arthroplea bipunctata	a flat-headed mayfly
Mayflies	Baetisca lacustris	an armored mayfly
Mayflies	Centroptilum sp. 1	a small minnow mayfly
Mayflies	Drunella walkeri pop. 1	a spiny crawler mayfly
Mayflies	Ephemerella hispida	a spiny crawler mayfly
Mayflies	Isonychia georgiae	a brushlegged mayfly
Mayflies	Iswaeon anoka	a small minnow mayfly
Mayflies	Leptophlebia intermedia	a pronggill mayfly
Mayflies	Leptophlebia johnsoni	Johnson's Pronggill Mayfly

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME
Mayflies	Maccaffertium lenati	a flat-headed mayfly
Mayflies	Nixe inconspicua	a flat-headed mayfly
Mayflies	Nixe sp. nr. inconspicua	a flat-headed mayfly
Mayflies	Plauditus virilis	a small minnow mayfly
Mayflies	Rhithrogena rubicund	a flat-headed mayfly
Mayflies	Siphlonurus decorus	a primitive minnow mayfly
Mayflies	Siphlonurus luridipennis	a primitive minnow mayfly
Mayflies	Tricorythodes robacki	a stout crawler mayfly
Stoneflies	Acroneuria perplexa	Enigmatic Stone
Stoneflies	Diploperla morgani	Virginia Springfly
Stoneflies	Isoperla sp. 2	a stonefly
Stoneflies	Pteronarcys biloba	Knobbed Salmonfly
Caddisflies	Ceratopsyche morose	a netspinning caddisfly
Caddisflies	Neotrichia sp. 1	a micro caddisfly
Caddisflies	Rhyacophila mainensis	a free-living caddisfly
Caddisflies	Triaenodes sp. D	a longhorned caddisfly
Macro-moths	Apameine new genus 2 sp. 2	a canebrake moth
Macro-moths	Argyrostrotis carolina	an owlet moth
Macro-moths	Bryolymnia semifascia	a noctuid moth
Macro-moths	Cepphis sp. 1 nr. decoloraria	a new inchworm moth
Macro-moths	Cleora projecta	Projecta Gray
Macro-moths	Cosmosoma myrodora	an owlet moth
Macro-moths	Digrammia eremiata	Three-lined Angle
Macro-moths	Eumorpha intermedia	Intermediate Sphinx
Macro-moths	Lobocleta peralbata	an inchworm moth
Macro-moths	Meropleon diversicolor	a noctuid moth
Macro-moths	Papaipema baptisiae	Wild Indigo Borer Moth
Macro-moths	Protapamea danieli	a cane borer moth
Macro-moths	Tripudia quadrifera	an owlet moth

Scientific Name Changes to the Rare Animal List

NOTE: Slight spelling changes, whether officially recognized changes or spelling errors from the 2010 edition of this list, are not included below. Only completely new genus or species names are given below.

TAXONOMIC GROUP	FORMER NAME	NEW NAME
Birds	Dendroica cerulea	Setophaga cerulea
Birds	Dendroica coronata	Setophaga coronata
Birds	Dendroica magnolia	Setophaga magnolia
Birds	Dendroica virens waynei	Setophaga virens waynei
Freshwater Fishes	Etheostoma tennesseense	Etheostoma simoterum
Grasshoppers And Katydids	Melanoplus acrophilus acrophilus	Melanoplus acrophilus
Grasshoppers And Katydids	Melanoplus angustipennis impiger	Melanoplus angustipennis
Macro-moths	Apamea mixta	Melanapamea mixta
Macro-moths	Apameine new genus 1 sp. 1	Protapamea danieli
Macro-moths	Apameine new genus 1 sp. 2	Protapamea louisae
Macro-moths	Apameine new genus 4 sp. 1	Lascopia roblei
Macro-moths	Arugisa watsoni	Arugisa latiorella
Macro-moths	Lithophane lepida adipel	Lithophane adipel
Macro-moths	Tarachidia parvula	Ponometia parvula
Macro-moths	Tarachidia tortricina	Ponometia tortricina
Macro-moths	Zanclognatha sp. 1	Zanclognatha dentata
Terrestrial Gastropods	Anguispira strongylodes	Anguispira strongyloides
Terrestrial Gastropods	Appalachina sayanus	Appalachina sayana

N.C. Status Changes on the Rare Animal List

All state status (E, T, and SC) 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). [SR (Significantly Rare) and W# (Watch List) are NHP designations only, not affording official state protection. Changes in the SR and W# statuses from 2010, not involving E, T, and SC statuses, are listed in the first four headings above.]

There were no N.C. status changes between July 2010 and December 2012.

U.S. Status Changes on the Rare Animal List

There were several U.S. status changes between July 2010 and December 2012:

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	OLD STATUS	NEW STATUS
Birds	Mycteria americana	Wood Stork	E	T (Proposed)
Freshwater Fishes	Acipenser oxyrinchus	Atlantic Sturgeon	C	E
Aquatic Gastropods	Planorbella magnifica	Magnificent Rams-horn	FSC	C

E = Endangered; T = Threatened; C = Candidate; FSC = Federal Species of Concern

Rank Changes on the Rare Animal List

Between 2010 and 2012, the N.C. Natural Heritage Program has made numerous changes to the N.C. Ranks, as has NatureServe (formerly the science branch of The Nature Conservancy) to the Global Ranks. Only those changes involving taxa formerly or presently considered extinct, extirpated, or of historical occurrence are listed below.

TAXONOMIC GROUP	SCIENTIFIC NAME	COMMON NAME	OLD S-RANK	NEW S-RANK
Mammals	Puma concolor couguar	Eastern Cougar	SH	SX
Birds	Columbina passerina	Common Ground-Dove	SHB	SXB
Birds	Onychoprion fuscatus	Sooty Tern	SUB	SHB
Birds	Porphyrio martinica	Purple Gallinule	S1?B	SHB
Birds	Thryomanes bewickii altus	Appalachian Bewick's Wren	SHB	SXB
Freshwater Fishes	Etheostoma jessiae	Blueside Darter	SH	SX
Dragonflies And Damselflies	Aeshna tuberculifera	Black-tipped Darner	S1?	SH
Dragonflies And Damselflies	Enallagma sulcatum	Golden Bluet	S1?	SH
Dragonflies And Damselflies	Gomphus descriptus	Harpoon Clubtail	S1?	SH
Dragonflies And Damselflies	Stylurus townesi	Townes' Clubtail	S1	SH
Grasshoppers And Katydids	Dendrotettix zimmermanni	Zimmermann's Dendrotettix	SU	SH
Grasshoppers And Katydids	Melanoplus angustipennis	Narrow-winged Locust	SNR	SH
Grasshoppers And Katydids	Melanoplus attenuatus	Slender-bodied Melanoplus	S1S3	SH
Grasshoppers And Katydids	Melanoplus carnegiei	Carnegie's Melanoplus	SU	SH
Grasshoppers And Katydids	Melanoplus divergens	Divergent Melanoplus	S1S3	SH
Grasshoppers And Katydids	Melanoplus eurycercus	a spur-throat grasshopper	S1S3	SH
Grasshoppers And Katydids	Melanoplus impudicus	Immodest Spur-throat Grasshopper	SU	SH
Grasshoppers And Katydids	Melanoplus mirus	a short-winged Melanoplus	S2S3	SH
Grasshoppers And Katydids	Melanoplus serrulatus	Serrulate Melanoplus	S1S3	SH
Grasshoppers And Katydids	Melanoplus similis	a short-winged Melanoplus	SU	SH
Grasshoppers And Katydids	Melanoplus sylvestris	a Spur-throat Grasshopper	SNR	SH
Grasshoppers And Katydids	Scudderia septentrionalis	Northern Bush Katydid	SH	S2S3
Butterflies	Atrytone arogos arogos	Arogos Skipper	S1	SH
Butterflies	Speyeria idalia	Regal Fritillary	SH	SX
Macro-moths	Argyrostrotis carolina	an owlet moth	SH	SNA
Macro-moths	Derrima stellata	Pink Star Moth	SU	SH
Macro-moths	Meropleon cinnamicolor	an owlet moth	S2S3	SH
Macro-moths	Petrophora subaequaria	Northern Petrophora	SU	SH
Macro-moths	Rheumaptera subhastata	a geometrid moth	SU	SH
Macro-moths	Schinia bina	Bina Flower Moth	S2S3	SH

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Common Name:

Observer(s):

Date(s) of Observation:

County: 7.5' Quad Map:

Exact Location (be specific! – attach copy of map with site marked):

Number of Animals (include age and sex, if known):

Type of Observation (sight record, vocal record, specimen, photograph, etc.):

Behavior of Animals (singing, foraging, at nest, etc.):

Habitat (use NCNHP natural community name if known; describe dominant vegetation, maturity of vegetation, slope, aspect, etc.):

Owner(s) of Land, if known:

Other Comments (significance of record, disturbance to habitat, etc.):

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